

**SOCIETY FOR  
PSYCHOPHYSIOLOGICAL  
RESEARCH**  
*Forty-Ninth Annual Meeting*

Berliner Congress Center  
Berlin, Germany  
October 21–24, 2009

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The 2009 SPR Annual Meeting is supported, in part, by the grant HA 1593/16-1 from the German Research Society (Deutsche Forschungsgemeinschaft).



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**SOCIETY FOR  
PSYCHOPHYSIOLOGICAL RESEARCH**

The purpose of the Society for Psychophysiological Research is to foster research on the interrelationships between the physiological and psychological aspects of behavior. Allied disciplines include psychology, physiology, neuroscience, medicine and engineering. To promote this purpose, the Society publishes scientific literature and holds annual meetings for presentation and discussion of topics, including instrumentation, methodology, experimental results, and theoretical interpretations.

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 Mary Burleson, Arizona State University–West Campus  
 Emily Butler, University of Arizona  
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Amy Bayer, Membership Manager  
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Jane Shepard, Meeting Planner

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**Ad Hoc International Outreach Committee  
(Eastern Europe and Asia)**

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Tokyo Institute of Technology

**Ad Hoc Finance Committee**

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Liaison Between WISE, Membership,  
Student and Early Career**

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University at Buffalo

**Ad Hoc Public Relations Committee**

Bill Iacono  
University of Minnesota

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R. C. Davis 1958–60

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Chester W. Darrow	1960–61
John I. Lacey	1961–62
Albert F. Ax	1962–63
Marion A. Wenger	1963–64
Clinton C. Brown	1964–65
Robert Edelberg	1965–66
John A. Stern	1966–67
William W. Grings	1967–68

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Laverne C. Johnson	1968–69
David T. Graham	1969–70
Bernard T. Engel	1970–71
Robert Roessler	1971–72
Bernard Tursky	1972–73
Frances K. Graham	1973–74
Paul A. Obrist	1974–75
David Shapiro	1975–76
Peter H. Venables	1976–77
Peter J. Lang	1977–78
Beatrice C. Lacey	1978–79
Emanuel Donchin	1979–80
David T. Lykken	1980–81
Enoch Callaway	1981–82
William F. Prokasy	1982–83
Edward S. Katkin	1983–84
Arne Ohman	1984–85
Jasper Brener	1985–86
Don C. Fowles	1986–87
Michael G. H. Coles	1987–88
Michael E. Dawson	1988–89
David A. T. Siddle	1989–90
J. Richard Jennings	1990–91
Cornelis H. M. Brunia	1991–92
John T. Cacioppo	1992–93
Stephen W. Porges	1993–94
Gregory A. Miller	1994–95
Marta Kutas	1995–96
William G. Iacono	1996–97
Judith M. Ford	1997–98
Risto Naatanen	1998–99
Richard J. Davidson	1999–2000
Robert W. Levenson	2000–01
Margaret M. Bradley	2001–02
Connie C. Duncan	2002–03
Bruce N. Cuthbert	2003–04
Niels Birbaumer	2004–05
Steven A. Hackley	2005–06
Robert F. Simons	2006–07
Monica Fabiani	2007–08

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Albert F. Ax	1960–62
Martin Orne	1962–63
Lawrence A. Gustafson	1963–64
Betty A. Wieland	1965–68
David G. McDonald	1968–72

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Kenneth M. Kleinman	1972–75
Stephen W. Porges	1975–78
Rafael Klorman	1978–81
Don C. Fowles	1981–84
Robert W. Levenson	1984–87
Robert J. Gatchel	1987–90
Gregory A. Miller	1990–93
Steven Hackley	1993–96
Connie C. Duncan	1996–99
Edwin W. Cook, III	1999–02
Robert F. Simons	2002–05
Gary G. Bernston	2005–09

***AWARDS FOR DISTINGUISHED  
CONTRIBUTIONS TO  
PSYCHOPHYSIOLOGY***

Chester W. Darrow	1969
R. C. Davis	1969
Marion A. Wenger	1970
John I. Lacey	1970
Albert F. Ax	1973
Robert Edelberg	1974
William W. Grings	1978
Frances K. Graham	1981
Donald B. Lindsley	1984
Paul A. Obrist	1985
Peter H. Venables	1987
David Shapiro	1988
E. N. Sokolow	1988
Peter J. Lang	1990
John Stern	1993
Emanuel Donchin	1994
Risto Naatanen	1995
David T. Lykken	1998
Steven A. Hillyard	1999
John T. Cacioppo	2000
Arne Ohman	2001
Michael G. H. Coles	2002
Robert M. Stern	2004
Kees Brunia	2005
Marta Kutas	2007
Niels Birbaumer	2009



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**AWARDS FOR DISTINGUISHED EARLY  
CAREER CONTRIBUTIONS TO  
PSYCHOPHYSIOLOGY**

Connie C. Duncan	1980
Kathleen C. Light	1980
John T. Cacioppo	1981
William G. Iacono	1982
Graham Turpin	1984
Ray Johnson, Jr.	1985
Alan J. Fridlund	1986
J. Rick Turner	1988
Ulf Dimberg	1988
Kimmo Alho	1990
Thomas W. Kamarck	1991
Steven Hackley	1992
George R. Mangun	1993
Christopher J. Patrick	1993
Cyma Van Petten	1994
Friedemann Pulvermuller	1995
Erich Schroger	1996
Brett A. Clementz	1997
Gabriele Gratton	1997
Christopher R. France	1998
Axel Mecklinger	1999
John J. B. Allen	2000
James J. Gross	2000
Martin Heil	2001
Eddie Harmon-Jones	2002
Thomas Ritz	2003
Frank Wilhelm	2004
Kent A. Kiehl	2005
Kara Federmeier	2006
Diego Pizzagalli	2006
Bruce D. Bartholow	2007
Markus Ullsperger	2008
Sander Nieuwenhuis	2009

**2009–2010 FUND CONTRIBUTORS**

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W. Keith Berg	Edwin W. Cook, III
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Margaret M. Bradley	Bernhard Dahme
Giulia Buodo	Eco J. De Geus

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Heath A. Demaree	Irving Maltzman
Christen M. Deveney	Frances Martin
Joseph Dien	Hiroaki Masaki
Emanuel Donchin	John J. McDonald
Frans C. L. Donkers	Kateri L. McRae
Ulrich W. Ebner- Priemer	Wendy B. Mendes
Monica Fabiani	Javier Molto
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Reiko Graham	Sibylle Petersen
Gabriele Gratton	Diego A. Pizzagalli
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Christine F. Larson	Eligiusz Wronka
Robert W. Levenson	Katuo Yamazaki
Ottmar V. Lipp	Cindy M. Yee-Bradbury
Steve M. Malone	

## **GENERAL INFORMATION**

### ***Registration***

Registration will be held in the foyer on Level B of the Berliner Congress Center during the following hours:

Wednesday, October 21	5:00 P.M.—9:00 P.M.
Thursday, October 22	7:30 A.M.—6:15 P.M.
Friday, October 23	8:00 A.M.—8:30 P.M.
Saturday, October 24	8:30 A.M.—4:00 P.M.

Audible signals from pagers and cellular phones may be a distraction to the speaker as well as the audience. Please program these accordingly, and take phone calls outside of the meeting rooms. Thank you!

### ***Poster Sessions***

Poster sessions will be held in A01, A02, and A08 at the Berliner Congress Center.

#### ***New This Year!***

An exciting new feature of this year's conference is the inclusion of five "clustered" poster presentations. As a group, the clustered posters present related research on a defined topic of interest. Our hope is that clustering each set of posters together will facilitate discussion of shared research interests during the poster sessions. The clustered posters will be presented as the final poster numbers at Poster Sessions II, III, and IV.

The schedule for poster presentation setup and dismantle is as follows:

**Wednesday, October 21, 2009**

#### **Poster Session I**

4:00 P.M.—6:00 P.M.	Posters Assembled
6:00 P.M.—8:00 P.M.	Posters Available for Viewing
8:00 P.M.—10:00 P.M.	Authors Present for Discussion and Questions
10:00 P.M.—11:00 P.M.	Dismantle Posters

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Thursday, October 22, 2009

**Poster Session II**

8:00 A.M.–10:00 A.M.	Posters Assembled
10:00 A.M.–6:00 P.M.	Posters Available for Viewing
6:00 P.M.–8:00 P.M.	Authors Present for Discussion and Questions
8:00 P.M.–9:00 P.M.	Dismantle Posters

Friday, October 23, 2009

**Poster Session III**

8:00 A.M.–10:00 A.M.	Posters Assembled
10:00 A.M.–8:30 P.M.	Posters Available for Viewing
8:30 P.M.–10:30 P.M.	Authors Present for Discussion and Questions
10:30 P.M.–11:30 P.M.	Dismantle Posters

Saturday, October 24, 2009

**Poster Session IV**

8:00 A.M.–10:00 A.M.	Posters Assembled
10:00 A.M.–4:00 P.M.	Posters Available for Viewing
4:00 P.M.–6:00 P.M.	Authors Present for Discussion and Questions
6:00 P.M.–7:00 P.M.	Dismantle Posters

All posters must be removed during the designated dismantle time for each session. Thank you!

***Announcements***

You are invited to use the bulletin board near the SPR Registration Desk to post the following information:

- Employment Opportunities
- Announcement of Social Activities
- Special Interest Lunches or Dinners
- Messages to Attendees

***Publication of Abstracts***

Abstracts of papers presented in the symposia and the poster sessions are published in the September 2009 supplement volume of *Psychophysiology*. A copy will be available in your packet of materials.

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## *In Case of an Emergency*

In case of an emergency, dial 112. If you are placing the call from the Berliner Congress Center, you must dial 0 first to get a dial tone.

## **COMMITTEE MEETINGS**

Please confirm the time and place of each meeting with the chair of the committee.

### *Board of Directors*

**Chair: John J. B. Allen** (john.jb.allen@arizona.edu)  
 Wednesday, 12:00 noon–5:00 P.M.  
 Sunday, 9:00 A.M.–1:00 P.M.

### *2009 Program Committee*

Chair: David A. Sbarra (sbarra@email.arizona.edu)  
 Thursday, 11:30 A.M.–1:00 P.M. (Lunch)

### *Ad Hoc International Outreach Committee (Eastern Europe and Asia)*

Chair: Yasunori Kotani (kotani@hum.titech.ac.jp)  
 Thursday, 11:30 A.M.–1:00 P.M.

### *Publications Committee*

Chair: Edward W. Cook, III (ecook@uab.edu)  
 Thursday, 11:30 A.M.–1:00 P.M.

### *The Psychophysiology Board of Associate Editors*

Robert F. Simons (rsimons@psych.udel.edu)  
 Thursday, 5:00 P.M.–6:00 P.M.

### *2010 Program Committee*

Chair: Edelyn Verona (edynole@gmail.com)  
 Friday, 11:30 A.M.–1:00 P.M. (Lunch)

### *Convention Sites Committee*

Margaret M. Bradley (bradley@ufl.edu)  
 Friday, 11:30 A.M. –1:00 P.M.

### *Committee to Promote Student Interests*

Chair: Rebecca J. Houston (rhouston@ria.buffalo.edu)  
 Friday, 6:15 P.M.–7:15 P.M.

### *General Business Meeting and Luncheon*

Saturday, 12:15 P.M.–2:15 P.M. (C01)

***Past Presidents' Dinner***

Saturday, 6:30 P.M.-8:30 P.M. (Dinner)

Please meet in the Park Inn Berlin-Alexanderplatz  
lobby at 6:30 P.M.***SPECIAL INTEREST LUNCHEONS  
AND DINNERS***

As in previous years, small group lunches and dinners will be held to provide an informal setting for people to meet and share common interests. If space remains available following advance registration, sign-up sheets will be posted in the SPR Registration Area on the announcements board.

***Special Interest Lunch******Surface Laplacian***

Friday, October 23, 2009

11:30 A.M.-1:00 P.M.

Contact: Jürgen Kayser at [kayserj@pi.cpmc.columbia.edu](mailto:kayserj@pi.cpmc.columbia.edu)***Psychophysiology in Primarily  
Undergraduate Institutions***

Friday, October 23, 2009

11:30 A.M.-1:00 P.M.

Contact: Jeff Sable at [sablej@rhodes.edu](mailto:sablej@rhodes.edu)***NEW TO SPR?***

If you are a student and this is your first time at an SPR conference, please feel free to approach anyone with a dot on their name tag. Those of us with dots are “Meet and Greet” members of the Committee to Promote Student Interests. We are here as a resource for you and are happy to answer questions, chat, introduce you to others, and/or provide more information about SPR and student opportunities (e.g., student travel awards and the student social). We hope you enjoy the conference!

***FORUM TO FACILITATE  
INTERNATIONAL LAB EXCHANGE AND  
COLLABORATION***Thursday, October 22 through Saturday, October 24  
B01

This new special interest event, sponsored by the International Subcommittee of the SPR Committee to Promote Student Interests, provides a unique opportunity to promote international exchange and collaboration.

Posters will provide information from various groups, labs, and/or facilities regarding research focus, potential research and job opportunities, special advantages of a facility or country and organizational preconditions (e.g., visa regulations, typical issues and cost of living). Presenters for each poster will be available on Thursday and Friday from 10:00 A.M. to 10:30 A.M. to facilitate communication and discussion. Posters will remain available for viewing through Saturday, October 24 at 6:00 P.M. For more information please contact Stefan Schulz at [schulz@psychologie.uni-wuerzburg.de](mailto:schulz@psychologie.uni-wuerzburg.de).

***EDUCATION AND TRAINING  
COMMITTEE  
ROUNDTABLE DISCUSSIONS***

11:30 A.M.–1:00 P.M.

Thursday, October 22, 2009

A05–A06

This year, there will once again be the opportunity to participate in the Roundtable Discussions. Each topic will be led by one or more leaders in their respective fields. To register, please contact Drew Nelesen at [dnelesen@reesgroupinc.com](mailto:dnelesen@reesgroupinc.com). For questions on a particular roundtable, please contact Heather Urry at [heather.urry@tufts.edu](mailto:heather.urry@tufts.edu) or Greg Hajcak at [hajcak@gmail.com](mailto:hajcak@gmail.com). Attendance is limited to 14 people at each roundtable.

Confirm your attendance prior to October 1!

***Clinical Psychophysiology and Neuroimaging***

Julie Hall and Greg Siegle

***Developmental Psychophysiology***

Sid Segalowitz and John Richards

***EEG Asymmetry***

Jenny Stewart and Eddie Harmon-Jones

***Heart Rate Variability***

Dick Jennings and Julian Thayer

***Learning and Fear Conditioning***

Johanna Baas and Ottmar Lipp

***Setting up a Psychophysiology Laboratory***

Wendy Heller and Greg Miller

***EARLY CAREERS  
CONVERSATION HOUR***

8:00 P.M.–10:00 P.M.

Park Inn Berlin-Alexanderplatz, Salon Ehrlich 1  
Thursday, October 22, 2009

Don't miss this opportunity to discuss early career issues with some of SPR's leading scientists! As in past years, the first hour will be a panel discussion, followed by a breakout into small groups. If you have questions about this event or would like to RSVP, please contact Catherine Norris by e-mail at [cnorris@dartmouth.edu](mailto:cnorris@dartmouth.edu).

***WOMEN IN SCIENCE  
AND EDUCATION  
LUNCH BOX DISCUSSION***

11:30 A.M.–1:00 P.M.

A05–A06

Friday, October 23, 2009

The Committee to Promote Student Interests will be hosting a luncheon focused on Women in Science and Education. Please join us for the Fourth Annual Women in Science Lunch Box Discussion on Friday, October 23, from 11:30 A.M. TO 1:00 P.M. Topic is to be announced. All SPR members, including men, are invited to attend. If you have any suggestions for this event, and/or if you are interested in participating in the W.I.S.E. committee and helping with the luncheon, please contact Stacie Warren at [swarren3@illinois.edu](mailto:swarren3@illinois.edu).

Confirm your attendance prior to October 1!

***INTERNET STATION***

An Internet station will be available for all attendees at the following times in the foyer on Level B:

Wednesday, October 21	1:00 P.M.–10:00 P.M.
Thursday, October 22	8:00 A.M.–8:00 P.M.
Friday, October 23	8:00 A.M.–10:30 P.M.
Saturday, October 24	8:00 A.M.–6:00 P.M.



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## ***SPEAKER READY ROOM***

If you are speaking at the meeting, plan time to visit the Speaker Ready Room to review your presentation. It will be located in Room B04 and open during the following hours:

Thursday, October 22	7:00 A.M.–5:00 P.M.
Friday, October 23	7:00 A.M.–5:00 P.M.
Saturday, October 24	7:00 A.M.–3:00 P.M.

## ***FUTURE ANNUAL MEETINGS***

### ***50th SPR Annual Meeting***

September 29–October 3, 2010

Portland Marriott Downtown Waterfront  
Portland, Oregon

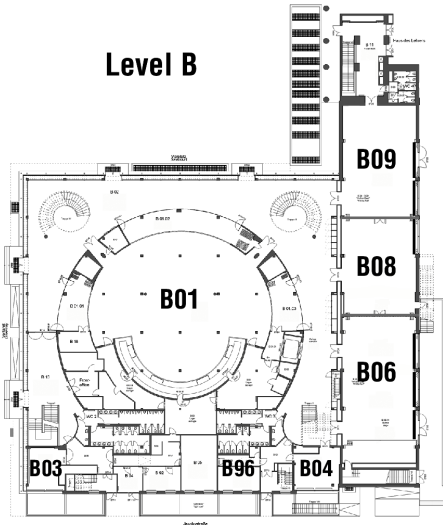
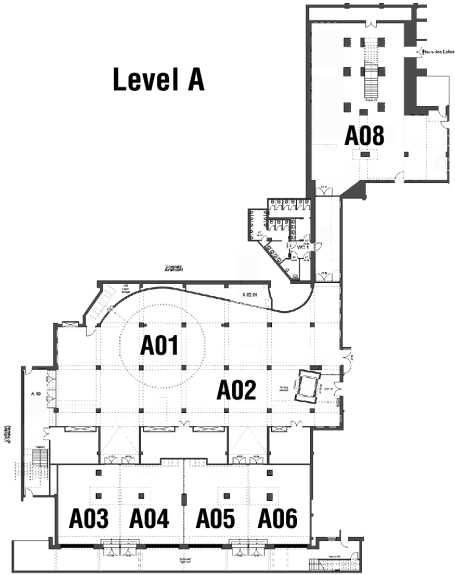
## ***EXHIBITORS***

Please take time while you are at the SPR meeting to visit the exhibit area located in B01 at the Berliner Congress Center. Exhibitors contribute financial support to the SPR meeting and we ask that you take a few minutes to spend time in the exhibit area looking at the products, services and equipment offered by the companies represented. Thank you!

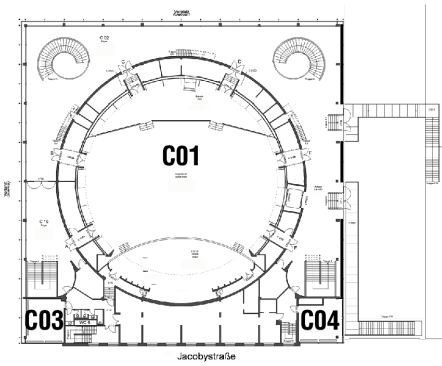
### ***Open Hours***

Wednesday, October 21, 2009	5:30 P.M.–10:00 P.M.
Thursday, October 22, 2009	10:00 A.M.–8:00 P.M.
Friday, October 23, 2009	10:00 A.M.–4:45 P.M.

# bcc - Berliner Congress Center



## bcc - Berliner Congress Center



**Level C**

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**PROGRAM****Wednesday, October 21, 2009**

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8:30 A.M.—5:00 P.M.

*Room A03****Pre-Conference Workshop #1*****Heart Rate Variability**

Gary G. Berntson, *The Ohio State University* and Dave Lozano, *Mindware Technologies*

This tutorial seminar will introduce the attendees to the psychophysiology of heart rate variability measures. First, the historical origins and basic physiological mechanisms underlying heart rate variability will be considered. Conceptual approaches and practical methods for measurement and analysis of heart rate variability will be discussed. Significance and interpretation, including interpretive caveats will then be considered. A final practicum will include demonstrations and some hands-on opportunities for participants to gain familiarity with the measurement and quantification of heart rate variability.

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8:30 A.M.—5:00 P.M.*Room A04****Pre-Conference Workshop #2*****Introduction to Time-Frequency Analysis**

**Lead Organizer:** Edward Bernat, *Florida State University, Department of Psychology*

Selin Aviyente, *Michigan State University, Electrical and Computer Engineering*

Steve Malone, Lindsay Nelson, and Vaughn Steele, *University of Minnesota, Department of Psychology*

This workshop is designed as a practical introduction to time-frequency concepts and data analysis. The goals are to introduce participants to the primary approaches for creating time-frequency (TF) transforms of time-domain signals, how to apply the transforms to ERP signals, and how to reduce the transforms into variables for analysis. The day will be split into lecture and practice parts, corresponding to the morning and afternoon sessions. The morning will provide an overview of methods for creating TF transforms, and approaches to TF analyses of ERPs. Special attention will be given to TF representations of

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standard time-domain components (e.g., ERN, P300). The afternoon practice workshop will introduce participants to a Matlab-based approach for conducting TF analysis with ERPs, using the techniques described in the morning.

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8:30 A.M.—5:00 P.M.

*Room A05*

### ***Pre-Conference Workshop #3***

#### **Advanced fMRI Signal Processing Using Statistical Parametric Mapping (SPM)**

Christian Büchel, *University Medical Center Hamburg-Eppendorf*

In this course, the attendants will be introduced to the complex data processing, and statistical inference necessary to analyze functional neuroimaging data. In a first module, spatial preprocessing including realignment and motion correction, and spatial normalization in a standard space will be covered. In a second module, the general linear model will be introduced as the key concept underlying massive univariate statistics as needed in functional neuroimaging, including necessary corrections for the multiple comparisons problem using Gaussian random field theory. In addition, the workshop will cover advanced techniques like conjunction analyses, psychophysiological interactions and a brief introduction to the concept of dynamic causal modeling. The workshop is based on Matlab and the software package SPM5 ([www.fil.ion.ucl.ac.uk/spm](http://www.fil.ion.ucl.ac.uk/spm)). It is recommended that attendees have access to this software on a laptop at the workshop; this is not a requirement for attendance.

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12:00 noon—5:00 P.M.

*C03*

### ***SPR Board of Directors Meeting***

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5:00 P.M.—9:00 P.M.

*B01 Foyer*

### ***Registration Opens***

1:00 P.M.—10:00 P.M.

*Level B Foyer*

***Internet Station***

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6:00 p.m.—8:00 p.m.

*B01*

***Opening Reception  
Exhibits Open***

Cash bar and hors d'oeuvres

*All attendees are welcome!*

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8:00 P.M.—10:00 P.M.

*A01, A02 & A08*

***Poster Session I  
Exhibits Open***

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**Thursday, October 22, 2009**

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7:30 A.M.—6:15 P.M.

*B01 Foyer*

***Registration***

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8:00 A.M.—8:00 P.M.

*Level B Foyer*

***Internet Station***

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8:15 A.M.—10:00 A.M.

*B06*

***Symposium 1.1***

**Levels of Meaning: Current Neural Perspectives on the N400**

Chair: Joseph Dien

*University of Maryland, College Park*

**N400s: Indexes of a Late and Ubiquitous Inhibition Process?**

J. Bruno Debrulle & Louis Renoult

*McGill University*

**The N400 Effect as an Index of Facilitated Lexical Access**

Ellen Lau

*University of Maryland, College Park*

**Does the N400 Directly Reflect Compositional Sense-Making?**

Jos Van Berkum

*Max Planck Institute for Psycholinguistics*

**The Unstoppable Juggernaut: Electrophysiology Reveals the Obligatory Nature of Semantic Access**

Sarah Laszlo

*University of Illinois, Urbana-Champaign*

**Varieties of N400: An Attentional Perspective on Semantic Processing**

Joseph Dien

*University of Maryland, College Park*

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8:15 A.M.—10:00 A.M.

C01

### *Symposium 1.2*

#### **The Affect-Motivation Link: Central and Peripheral Nervous System Processes**

Chairs: Guido H. E. Gendolla & David Sander  
*University of Geneva*

#### **Unconscious Affect and Unconscious Effort: Effects on Cardiovascular Reactivity**

Guido H. E. Gendolla & Nicolas Silvestrini  
*University of Geneva*

#### **Emotion, Motivation, and the Body: Being in a Supine Body Position Affects Central Psychophysiological Responses to Emotion Manipulations**

Eddie Harmon-Jones  
*Texas A&M University*

#### **Emotion Elicitation Based on Motivational Relevance is Driven by the Human Amygdala**

David Sander  
*University of Geneva*

#### **Effects of Testosterone Administration on Mind Reading and Trust in Humans**

Jack Van Honk  
*Utrecht University*

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8:15 A.M.—10:00 A.M.

B08

### *Symposium 1.3*

#### **Extracting Information from Complex Visual Arrays: Attention, Emotion, and Action**

Chair: Andreas Keil  
*University of Florida*

#### **Tracking the Eye: Hedonic Content, Complexity, and Choice**

Margaret M. Bradley  
*University of Florida*



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**Biased Competition for Processing Resources  
Between a Foreground Task and Emotional  
Background Pictures**

Matthias M. Müller<sup>1</sup>, Catherine Hindi Attar<sup>1</sup>, Soren  
K. Andersen<sup>1</sup>, C. Büchel<sup>2</sup>, & M. Rose<sup>2</sup>  
<sup>1</sup>University of Leipzig, <sup>2</sup>University of Hamburg

**The Ups and Downs of Attention and Emotion:  
Oscillatory Brain Activity as a Continuous Index of  
Cortical Facilitation When Viewing  
Complex Arrays**

Andreas Keil  
University of Florida

**Acceleration and Deceleration of Choice Responses:  
Emotional Content of Natural Scenes and the  
Speed of Visual Information Processing**

Niklas Ihssen  
Bangor University

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8:15 a.m.–10:00 a.m.  
B09

*Symposium 1.4*

**Using Event-Related Potentials to Investigate  
Affective Processes in Smokers**

Chairs: Paul M. Cinciripini & Francesco Versace  
*The University of Texas M. D. Anderson Cancer Center*  
Discussant: David J. Drobes  
*University of South Florida*

**Neural Reward Bias in Cigarette Smokers**

Geoffrey F. Potts, Erika B. Litvin, David E. Evans, &  
David J. Drobes  
*University of South Florida*

**Event-Related Potentials to Cigarette-Related and  
Other Intrinsically Motivating Stimuli**

Francesco Versace, Jason D. Robinson, Cho Y. Lam,  
Jennifer A. Minnix, Victoria L. Brown, & Paul M.  
Cinciripini  
*The University of Texas M. D. Anderson Cancer Center*

**Motivated Attention in Abstinent Smokers:  
Translational Tobacco Research**

Jeffrey M. Engelmann & Bruce N. Cuthbert  
*University of Minnesota*

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**Differential and Similar Effects of Nicotine and Bupropion on Brain Reactivity to Smoking-Related and Emotional Pictures**

David G. Gilbert, Chihiro Sugai, Swetha Murali,  
Elizabeth Kreke, & Norka E. Rabinovich  
*Southern Illinois University Carbondale*

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10:00 A.M.—8:00 P.M.

*B01*

***Exhibits Open***

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10:00 A.M.—10:30 A.M.

*B01*

***Refreshment Break***

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10:30 A.M.—11:30 A.M.

*C01*

***Invited Address*****Emotion, Value and Decision-Making**

R. J. Dolan, MB, BCh, BAO (Hons), MD  
Director, Wellcome Trust Centre for Neuroimaging  
*University College London, London, UK*

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11:30 A.M.—1:00 P.M.

***Break for Lunch (on your own)***

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11:30 A.M.—1:00 P.M.

*A05–A06*

***Education and Training Committee  
Roundtable Discussions*****Clinical Psychophysiology and Neuroimaging**

Julie Hall and Greg Siegle

**Developmental Psychophysiology**

Sid Segalowitz and John Richards

**EEG Asymmetry**

Jenny Stewart and Eddie Harmon-Jones

**Heart Rate Variability**

Dick Jennings and Julian Thayer

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**Learning and Fear Conditioning**

Johanna Baas and Ottmar Lipp

**Setting up a Psychophysiology Laboratory**

Wendy Heller and Greg Miller

**Psychoneuroimmunology and  
Neuroendocrine Assessments**

Mustafa al'Absi and Cora Stefanie Weber

Confirm your attendance prior to October 1!

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1:00 P.M.—2:30 P.M.

C01

*Presidential Symposium*

**Integrating Electroencephalography and Functional  
Magnetic Resonance Imaging**

Chairs: Markus Ullsperger<sup>1</sup> & Stefan Debener<sup>2</sup>

<sup>1</sup>Max Planck Institute for Neurological Research,

<sup>2</sup>Friedrich Schiller University Hospital Jena

**Exploiting a Better Understanding of the Artifacts  
in Integrated EEG and fMRI**

Richard Bowtell, Karen J. Mullinger, Winston X. Yan,

Matthew J. Brookes, & Gerda B. Geirsdóttir

*University of Nottingham*

**Spontaneous and Evoked Spatiotemporal Dynamics  
of EEG-fMRI Signals**

Petra Ritter, Robert Becker, Frank Freyer, Matthias

Reinacher, & Arno Villringer

*Mind & Brain Institute Berlin*

**Electrophysiological Correlates of the Human Bold  
Signal**

René Scheeringa

*French National Institute for Health and Medical*

*Research*

**Mining Multimodal Data with Independent  
Component Analysis**

Tom Eichele

*University of Bergen*

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2:30 P.M.—3:00 P.M.

B01

***Refreshment Break***

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3:00 p.m.—4:30 p.m.

B06

***Symposium 2.1***

**Keep the Change: New Approaches for Studying Within-Person Psychophysiological Variability in Emotion Research**

Chair: Michelle N. Shiota

*Arizona State University*

**Within-Person Variability in Respiratory Sinus Arrhythmia (RSA) is Associated with Between-Persons Variability in Emotional Functioning: Evidence from the Study of Marital Separations**

David A. Sbarra, Emily A. Butler, & Ashley Randall

*University of Arizona*

**Better Together: Covariation Between Emotion Valence and Physiological Reactivity Across Emotion Regulation Trials Predicts Psychological Well-Being**

Michelle N. Shiota<sup>1</sup> & Robert W. Levenson<sup>2</sup>

<sup>1</sup>*Arizona State University*, <sup>2</sup>*University of California, Berkeley*

**Response-System Coherence During Emotions: Intra-Individual Approaches to Assessment and Implications for the Function of Emotions**

Iris B. Mauss

*University of Denver*

**Coherence Between Emotional Experience and Physiology: Does Body Awareness Training Have an Impact?**

Jocelyn Sze, Anett Gyurak, Joyce Yuan, & Robert W. Levenson

*University of California, Berkeley*

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3:00 P.M.—4:30 P.M.

B08

### ***Symposium 2.2***

#### **Reward Expectation**

Chair: Steven A. Hackley  
*University of Missouri—Columbia*

#### **Stimulus-Preceding Negativities: Current Status and Directions for Future Research**

Geert J. M. van Boxtel<sup>1</sup>, Koen B. E. Boecker<sup>1</sup>, &  
Cornelis H. M. Brunia<sup>2</sup>  
<sup>1</sup>*Utrecht University*, <sup>2</sup>*Tilburg University*

#### **Reward Anticipation in Parkinson's Disease Under Conditions of Uncertainty**

Karen R. Hebert<sup>1</sup>, Steven A. Hackley<sup>1</sup>, Fernando Valle-Inclan<sup>2</sup>, & Miguel Munoz<sup>3</sup>  
<sup>1</sup>*University of Missouri—Columbia*, <sup>2</sup>*University of La Coruña*, <sup>3</sup>*University of the Balearic Islands*

#### **Dysfunction of Reward Expectation in Schizophrenia and Alcoholism**

Andreas Heinz  
*Humboldt University, Berlin*

#### **Stimulus-Preceding Negativity and Action-Outcome Contingency**

Hiroaki Masaki<sup>1</sup>, Katuo Yamazaki<sup>1</sup>, & Steven A. Hackley<sup>2</sup>  
<sup>1</sup>*Waseda University*, <sup>2</sup>*University of Missouri—Columbia*

#### **The Right Hemisphere Preponderance During Expectation of Feedback Information as Reward**

Yasunori Kotani<sup>1</sup>, Yoshimi Ohgami<sup>1</sup>, Tetsuji Tsukamoto<sup>2</sup>, & Yusuke Inoue<sup>3</sup>  
<sup>1</sup>*Tokyo Institute of Technology*, <sup>2</sup>*University of Tokyo*,  
<sup>3</sup>*Tokyo Metropolitan University*

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3:00 P.M.—4:30 P.M.

B09

### ***Symposium 2.3***

#### **Not Idle at All: Scrutinizing the Functional Relevance of Cortical Alpha Oscillations**

Chairs: Nathan Weisz<sup>1</sup> & Gregor Thut<sup>2</sup>  
<sup>1</sup>*University of Konstanz*, <sup>2</sup>*University of Glasgow*

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**Human Alpha Band Activity Reflects Resource Allocation by Disengaging Task-Irrelevant Areas**Barbara Händel<sup>1,2</sup> & Ole Jensen<sup>1,2</sup><sup>1</sup>*Donders Institute for Brain, Cognition and Behavior,*<sup>2</sup>*Radboud University Nijmegen***Expectancy-Related Modulation of Auditory Cortical Alpha Power**Nathan Weisz, Nadia Müller, & Thomas Hartmann  
*University of Konstanz***MU ERD/ERS in Motor Sequence Learning and Motor Performance**

Olivier Bertrand

*Brain Dynamics and Cognition Lab, French National Institute for Health and Medical Research (INSERM)***Insights into the Alpha-Oscillation from Combined EEG-TMS Studies**

Gregor Thut

*University of Glasgow*

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3:00 P.M.—4:30 P.M.

C01

***Symposium 2.4*****Toward a Unified Account of Fear-Potentiated Startle Findings in the Anxiety Disorders and Affiliated Traits**

Chair: Shmuel Lissek

*National Institute of Mental Health*

Discussant: Peter J. Lang

*University of Florida***The Image of Fear: Anxiety Diagnosis, Negative Affectivity, and the Reflex Physiology of Defense**

Lisa M. McTeague, Peter J. Lang, Marie-Claude Laplante, Joshua R. Shumen, Margaret M. Bradley, &amp; Bruce N. Cuthbert

*University of Florida***Examining the Experimental Psychopathology of Fear-Potentiated Startle Through the Interpretive Lens of the “Strong Situation”**

Shmuel Lissek &amp; Christian Grillon

*National Institute of Mental Health*

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**Activation of Subcortical Fear Networks in Panic Disorder Patients During Anticipation and Provocation of Interoceptive Threat**

Christiane A. Melzig, Katharina Holtz, & Alfons O. Hamm  
*University of Greifswald*

**Startle Modulation in Internalizing Disorders and Psychopathy: Trait Fear as a Bridging Construct**

Uma Vaidyanathan, Christopher J. Patrick, & Edward M. Bernat  
*University of Minnesota*

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4:30 p.m.—4:45 p.m.

***Break***

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4:45 P.M.—5:45 P.M.

*C01*

***Invited Address***

**The Neurobiology of Individual Differences in Emotional Traits: What Can We Learn from the Integration of Neuroimaging, Pharmacology and Genetics?**

Ahmad R. Hariri, PhD  
Professor of Psychology & Neuroscience and  
Investigator, Institute for Genome Sciences & Policy  
*Duke University, Durham, North Carolina*

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5:45 P.M.—6:00 P.M.

***Break***

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6:00 P.M.—8:00 P.M.

*A01, A02 & A08*

***Poster Session II  
Exhibits Open***

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8:00 P.M.—10:00 P.M.

*Park Inn Berlin-Alexanderplatz, Salon Ehrlich 1*

***Early Careers Conversation Hour***

Confirm your attendance prior to October 1!

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**Friday, October 23, 2009**

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8:00 A.M.—8:30 P.M.

*B01 Foyer****Registration***

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8:00 A.M.—10:30 P.M.

*Level B Foyer****Internet Station***

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8:30 A.M.—10:00 A.M.

*B06****Symposium 3.1*****The Neuroscience of Corollary Discharge: Crickets to Schizophrenia**

Chair: Judith Ford

*University of California, San Francisco***Corollary Discharge Dysfunction in Schizophrenia**

Daniel H. Mathalon, Brian J. Roach, &amp; Judith M. Ford

*University of California, San Francisco***Sound Processing in Singing Crickets**

James Poulet

*Max Delbrück Center for Molecular Medicine (MDC)***Corollary Discharge Circuits for Stabilizing Visual Perception**

Marc A. Sommer

*University of Pittsburgh***The Role of the Human Thalamus in Relaying Saccade Related Corollary Discharge Signals**

Christian Bellebaum, Klaus-Peter Hoffmann, Benno Koch, Michael Schwarz, &amp; Irene Daum

*Ruhr-University of Bochum*

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8:30 A.M.—10:00 A.M.

*B08****Symposium 3.2*****Neural Mechanisms of Memory Control**

Chair: Johanna Kissler

*University of Konstanz*



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**Neural Mechanisms of Retrieval-Induced Forgetting and Enhancement**

Maria Wimber<sup>1</sup>, Alan Richardson-Klavehn<sup>1</sup>, & Karl-Heinz Bäuml<sup>2</sup>

<sup>1</sup>University of Magdeburg, <sup>2</sup>University of Regensburg

**Electrophysiological Dynamics of Voluntary Suppression in Episodic Memory**

Simon Hanslmayr & Karl-Heinz Bäuml

University of Regensburg

**Effects of Preceding Trials and the Number of Suppression Attempts on the Electrophysiological Correlates of Memory Suppression**

Gerd T. Waldhauser, Mikael Johansson, & Magnus Lindgren

Lund University

**Selective Forgetting and Remembering of Emotional and Neutral Stimuli—ERP Evidence from Item Method Directed Forgetting**

Anne Hauswald & Johanna Kissler

University of Konstanz

**Explicit and Implicit Remembering**

Margaret M. Bradley

University of Florida

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8:30 A.M.—10:00 A.M.

C01

*Symposium 3.3*

**Once More, with Feeling: Automaticity in Emotion Regulation**

Chairs: Sarah R. Cavanagh<sup>1</sup> & Heather L. Urry<sup>2</sup>

<sup>1</sup>Assumption College, <sup>2</sup>Tufts University

**Effects of Uninstructed Attentional Deployment on Emotional Responding**

Philipp C. Opitz<sup>1</sup>, Sarah R. Cavanagh<sup>2</sup>, & Heather L. Urry<sup>1</sup>

<sup>1</sup>Tufts University, <sup>2</sup>Assumption College

**Affective Consequences and Neural Correlates of Automatic Emotion Regulation**

Iris B. Mauss<sup>1</sup>, Chris Blais<sup>2</sup>, & Silvia A. Bunge<sup>2</sup>

<sup>1</sup>University of Denver, <sup>2</sup>University of California, Berkeley

## **Shifts in Attentional Bias Following Mood Induction Predict Future Ill- and Well-Being**

Sarah R. Cavanagh<sup>1</sup>, Heather L. Urry<sup>2</sup>, & Lisa M. Shin<sup>2</sup>

<sup>1</sup>*Assumption College*, <sup>2</sup>*Tufts University*

## **Prolonged Cardiac Effects of Momentary Assessed Stressful Events and Worry Episodes**

Jos F. Brosschot<sup>1</sup>, Suzanne Pieper<sup>1</sup>, Rein van der Leeden<sup>1</sup>, & Julian F. Thayer<sup>2</sup>

<sup>1</sup>*Leiden University*, <sup>2</sup>*Ohio State University*

8:30 a.m.—10:00 a.m.

B09

### *Symposium 3.4*

## **Traces of Awareness: P3 and N2-Type Components in the Attentional Blink**

Chair: Rolf Verleger

*University of Lübeck*

Discussant: Rolf Verleger

*University of Lübeck*

## **Masking Reduces P3 Amplitude But Not P3 Latency: Implications for the Attentional Blink Paradigm**

Benoit Brisson<sup>1</sup>, Nicolas Robitaille<sup>2</sup>, Alexandrine Deland-Bélanger<sup>3</sup>, Thomas M. Spalek<sup>1</sup>, Vincent Di Lollo<sup>1</sup>, & Pierre Jolicœur<sup>3</sup>

<sup>1</sup>*Simon Fraser University*, <sup>2</sup>*University of Sidney*,

<sup>3</sup>*University of Montreal*

## **On the Blink of Consciousness: Individual Differences in Attentional Selection**

Sander Martens

*University of Groningen*

## **Event Integration, Working Memory, and the Control of Visual Attention**

Elkan Akyürek, Anna Schubö, & Bernhard Hommel  
*Ludwig Maximilian University Munich*

## **Virtual ERPs: A Link Between Computational Neuroscience, Behavior and Electrophysiology**

Patrick Craston<sup>1</sup>, Brad Wyble<sup>2</sup>, Srivas Chennu<sup>1</sup>, & Howard Bowman<sup>1</sup>

<sup>1</sup>*University of Kent*, <sup>2</sup>*Massachusetts Institute of Technology*

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10:00 A.M.—4:45 P.M.

B01

***Exhibits Open***

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10:00 A.M.—10:30 A.M.

B01

***Refreshment Break***

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10:30 A.M.—11:30 A.M.

C01

***Invited Address***

**Changing Fear**

Elizabeth A. Phelps, PhD

Silver Professor of Psychology and Neural Science

*New York University, New York, New York*

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11:30 A.M.—1:00 P.M.

***Break for Lunch (on your own)***

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11:30 A.M.—1:00 P.M.

A05–A06

***Women in Science and Education (W.I.S.E) Lunch  
Box Discussion***

Confirm your attendance prior to October 1!

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1:00 P.M.—1:30 P.M.

C01

***Award for Distinguished Early Career Contribution  
to Psychophysiology***

**Investigating the Role of the Noradrenergic System  
in Human Cognition**

Sander Nieuwenhuis, PhD

*Cognitive Psychology Unit, Leiden Institute for Brain and*

*Cognition, Leiden, The Netherlands*

1:30 p.m.—2:30 p.m.

C01

*Presidential Address***Frontal EEG Asymmetry as an Endophenotype for Depression: A Skeptic's Journey**

John J. B. Allen, PhD

Distinguished Professor of Psychology, Cognitive Science, and Neuroscience

*University of Arizona, Tucson, Arizona*

2:30 P.M.—2:45 P.M.

*Break*

2:45 P.M.—4:15 P.M.

C01

*Symposium 4.1***The Present as the Past's Future**Chairs: Emanuel Donchin<sup>1</sup> & Niels Birbaumer<sup>2</sup><sup>1</sup>*University of South Florida*, <sup>2</sup>*University of Tübingen***Brain-Computer Interfaces (BCI): Three Years Later**

Niels Birbaumer

*University of Tübingen, Ospedale San Camillo***Is it Still Important that the Mind is in a Body?**

J. Richard Jennings

*University of Pittsburgh***The Architecture of Emotion Revisited**

Robert W. Levenson

*University of California, Berkeley***How We Think About Cognition, Emotion, and Biology and Psychopathology—14 Years Later**

Gregory A. Miller

*University of Illinois, Urbana-Champaign*

2:45 P.M.—5:15 P.M.

B06

*Symposium 4.2***Psychophysiology of Pathological Changes in Performance Monitoring**

Chair: Markus Ullsperger

*Max Planck Institute for Neurological Research*

**Corticotropin-Releasing Hormone Type 1 Receptor (CRHRL) Polymorphisms and Stress Interact to Influence Reward Processing: Implications for Depression**

Ryan Bogdan<sup>1</sup>, Diane L. Santesso<sup>1</sup>, Jesen Fagerness<sup>2</sup>, Roy H. Perlis<sup>1</sup>, & Diego A. Pizzagalli<sup>1</sup>

<sup>1</sup>Harvard University, <sup>2</sup>Massachusetts General Hospital

**Performance Monitoring in Patients with Obsessive-Compulsive Disorder**

Tanja Endrass, Anja Riesel, Beate Schuermann, & Norbert Kathmann

*Humboldt University, Berlin*

**Are Error-Related Brain Potentials Modulated by Deep-Brain Stimulation in Neuropsychiatric Disorders?**

Theo O. J. Gründler<sup>1</sup>, Wolfgang Huff<sup>2</sup>, Doris Lenartz<sup>2</sup>, Jens Kuhn<sup>2</sup>, & Markus Ullsperger<sup>1</sup>

<sup>1</sup>Max Planck Institute for Neurological Research,

<sup>2</sup>University Hospital of Cologne University

**Performance Monitoring and Adaptive Behaviour in Individuals with Psychopathy**

Ellen de Bruijn & Inti Brazil

*Donders Institute for Brain, Cognition and Behavior*

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2:45 P.M.—4:15 P.M.

B08

*Symposium 4.3*

**Neuro-Cognitive Mechanisms of Conscious and Unconscious Visual Perception**

Chairs: Michael Niedeggen<sup>1</sup> & Markus Kiefer<sup>2</sup>

<sup>1</sup>Free University of Berlin, <sup>2</sup>University of Ulm

**Neurophysiological Correlates of Visual Metacontrast Masking Observed with Parallel and Orthogonal Sinusoid Gratings**

Maximilian Brucmann & Christo Pantev

*University of Münster*

**Neural Mechanisms of Motion Blindness: A Paradigm Case for All Visual Features**

Michael Niedeggen

*Free University Berlin*

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**Factors Modulating Conscious Processing in the Attentional Blink Paradigm: Cognitive Mechanisms and their Neural Correlates**

Klaus Kessler  
*University of Glasgow*

**Attentional Sensitization of Unconscious Cognition: Evidence from Masked Semantic Priming Effects**

Markus Kiefer  
*University of Ulm*

**Perceptual Learning in the Blind Field of Hemianopic Patients**

Arash Saharie & Mary-Joan MacLeod  
*University of Aberdeen*

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2:45 P.M.—4:15 P.M.  
B09

***Symposium 4.4*****Salivary Alpha-Amylase—A Biomarker of the Sympathetic Nervous System**

Chairs: Urs M. Nater<sup>1</sup> & Nicolas Rohleder<sup>2</sup>  
<sup>1</sup>*University of Zurich*, <sup>2</sup>*Brandeis University*

**Altered Salivary Alpha-Amylase Activity Under Basal and Stimulated Conditions in Chronic Fatigue Syndrome**

Urs M. Nater<sup>1</sup>, Andrew H. Miller<sup>2</sup>, James F. Jones<sup>3</sup>, & William C. Reeves<sup>3</sup>  
<sup>1</sup>*University of Zurich*, <sup>2</sup>*Emory University*, <sup>3</sup>*Centers for Disease Control*

**Salivary Alpha-Amylase Stress Response in Primary Adrenal Insufficiency**

Jutta M. Wolf<sup>1</sup>, Nicolas Rohleder<sup>1</sup>, & Clemens Kirschbaum<sup>2</sup>  
<sup>1</sup>*Brandeis University*, <sup>2</sup>*Dresden University of Technology*

**Impact of Age on Acute Stress Reactivity of Salivary Alpha-Amylase**

Jana Strahler<sup>1</sup>, Anett Mueller<sup>1</sup>, Franziska Rosenloecher<sup>1</sup>, Clemens Kirschbaum<sup>1</sup>, & Nicolas Rohleder<sup>2</sup>  
<sup>1</sup>*Dresden University of Technology*, <sup>2</sup>*Brandeis University*

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**Social Support Reduces Salivary Alpha-Amylase Response to Acute Psychosocial Stress**

Roberto La Marca<sup>1</sup>, Patricia Waldvogel<sup>1</sup>, Hanna Thoern<sup>1</sup>, Melanie Tripod<sup>1</sup>, Myrtha Arnold<sup>2</sup>, Wolfgang Langhans<sup>2</sup>, Jens Pruessner<sup>3</sup>, & Ulrike Ehlert<sup>1</sup>  
<sup>1</sup>University of Zurich, <sup>2</sup>Federal Institute of Technology, Zurich, <sup>3</sup>McGill University

**Stability of Salivary Alpha-Amylase Diurnal Profiles**

Nicolas Rohleder<sup>1</sup>, Franziska Jungmann<sup>2</sup>, Clemens Kirschbaum<sup>2</sup>, & Gregory E. Miller<sup>3</sup>  
<sup>1</sup>Brandeis University, <sup>2</sup>Dresden University of Technology, <sup>3</sup>University of British Columbia

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4:15 P.M.—4:45 P.M.

B01

***Refreshment Break***

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4:45 P.M.—6:15 P.M.

C01

***Symposium 5.1***

**What Does the Error-Related-Negativity Represent? Exploring Issues of Interpretation**

Chairs: Michael Inzlicht<sup>1</sup> & Bruce D. Bartholow<sup>2</sup>  
<sup>1</sup>University of Toronto, <sup>2</sup>University of Missouri—Columbia

**Error-Related Redux: Error Significance and Modulation of the ERN**

Greg Hajcak & Doreen Olvet  
*Stony Brook University*

**Does the ERN Reflect a Reinforcement Learning Prediction Error?**

Olav Krigolson  
*University of British Columbia*

**To Err is No Big Deal (When You're Drunk): Alcohol, Negative Affect Reduction, and the Meaning of the ERN**

Bruce D. Bartholow, Erika A. Henry, Sarah A. Lust, & J. Scott Saults  
*University of Missouri—Columbia*

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**Beyond Errors! Converging Evidence for a General Performance Monitoring System**

Boris Burle, Roger Clemence, Stephanie Ries, F. Xavier Alario, Franck Vidal, & Thierry Hasbroucq  
*Aix Marseille University*

**ERN, FRN, and Stressors: ACC Activation Patterns as Related to the Comfort of Losing**

Sidney J. Segalowitz & Diane L. Santesso  
*Brock University*

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4:45 P.M.—6:15 P.M.

B06

*Panel Discussion 5.2*

**Integrating Psychophysiology and Psychosomatic Medicine: Challenges and Opportunities**

Chairs: Mustafa al'Absi<sup>1</sup> & Karen Quigley<sup>2</sup>

<sup>1</sup>University of Minnesota, <sup>2</sup>Veterans Affairs New Jersey Healthcare System

**Promises and Pitfalls of Psychophysiology in Applied Settings**

Karen Quigley

*Veterans Affairs New Jersey Healthcare System*

**Cardiovascular Psychophysiology—A Role in Disease Etiology, Prevention, and Treatment**

J. Richard Jennings

*University of Pittsburgh*

**Integration of Multiple Physiological and Biological Methods in Psychophysiology**

Brigitte Rockstroh

*University of Konstanz*

**Genetic Psychophysiological Studies Can Inform Theories in Psychosomatic Medicine**

Eco de Geus

*Vrije University—Amsterdam*

**Integrating Psychophysiological and Biobehavioral Methods in Clinical Research**

Mustafa al'Absi

*University of Minnesota*



4:45 p.m.—6:15 p.m.

B08

### *Symposium 5.3*

#### **Visceral and Endocrine Signals Influence Startle and its Modulation**

**Chair:** Terry D. Blumenthal

*Wake Forest University*

**Discussant:** Alfons Hamm

*University of Greifswald*

#### **Startle Eye Blink is Modulated by Baro-Afferent Feedback**

André Schulz<sup>1</sup>, Steffen Richter<sup>1</sup>, Johanna Lass-Hennemann<sup>1</sup>, Terry D. Blumenthal<sup>2</sup>, & Hartmut Schachinger<sup>1</sup>

<sup>1</sup>*University of Trier*, <sup>2</sup>*Wake Forest University*

#### **Startle Inhibition to Interoceptive Aversive Stimulation**

Ilse Van Diest, Meike Pappens, Erik Ceunen, Steven De Peuter, Deb Vansteenwegen, & Omer Van den Bergh

*University of Leuven*

#### **Subliminal Gastric Distension Enhances Startle**

Hartmut Schachinger<sup>1</sup>, Lukas Degen<sup>2</sup>, & Christoph Beglinger<sup>2</sup>

<sup>1</sup>*University of Trier*, <sup>2</sup>*University of Basel*

#### **Effects of Exogenous Hydrocortisone on Fear and Anxiety**

Christian Grillon, Roman Duncko, Elizabeth Hirschhorn, Randi Heller, & Meena Vythilingam

*National Institute of Mental Health*

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4:45 P.M.—6:15 P.M.

B09

### *Symposium 5.4*

#### **Psychophysiological Effects of Positive Emotions are Contextualized**

**Chair:** Gerhard Stemmler

*University of Marburg*

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**Resting EEG Signatures of Trait Bas/Positive  
Emotionality: New Results and  
Meta-Analytic Integration**

Jan Wacker, Mira-Lynn Chavanon, & Gerhard  
Stemmler  
*University of Marburg*

**Multiple Measures of Approach Motivation  
Relating to Early and Late ERP Components to  
Appetitive Stimuli**

Philip A. Gable & Eddie Harmon-Jones  
*Texas A&M University*

**Classical Conditioning with Erotic Pictures: The  
Influence of Sex and Awareness**

Rudolf Stark, Tim Klucken, & Sabine Kagerer  
*University of Giessen*

**Brain Activity Reflects Outcome Desirability  
Rather Than Specific Types of Outcomes**

Tatjana Aue  
*University of Geneva*

**Cardiovascular Effects of Warmth-Liking**

Gerhard Stemmler & Corinna Bonhage  
*University of Marburg*

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6:15 P.M.—8:30 P.M.

***Dinner***

(on your own)

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8:30 P.M.—10:30 P.M.

*A01, A02 & A08*

***Poster Session III  
Exhibits Open***

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10:30 P.M.

***Student Social***

(location to be announced)  
*All students are invited!*

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**Saturday, October 24, 2009**

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8:30 A.M.—4:00 P.M.  
*B01 Foyer*

***Registration***

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8:00 A.M.—6:00 P.M.  
*Level B Foyer*

***Internet Station***

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8:30 A.M.—10:00 A.M.  
*B06*

***Symposium 6.1***

**Socioemotional Functioning in Health and Aging**

**Chair:** Carien M. van Reekum  
*University of Reading*

**Discussant:** Lisbeth Nielsen  
*National Institute on Aging, National Institutes of Health*

**Loneliness and Blood Pressure in Middle- and Older Aged Adults: A Longitudinal Perspective**

Louise C. Hawkey & John T. Cacioppo  
*University of Chicago*

**Age Differences in Empathy: Self-Other Differentiation Becomes More Difficult with Age**

Joseph Studer, Nathalie Mella-Barraco, & Gisela Labouvie-Vief  
*University of Geneva*

**Emotional Empathy: Effects of Normal Aging and Dementia**

Robert W. Levenson  
*University of California, Berkeley*

**Emotion Reactivity and Recovery Across Adulthood: Evidence from the Midlife in the US (Midus-II) Study**

Carien M. van Reekum<sup>1</sup>, Stacey M. Schaefer<sup>2</sup>, Regina C. Lapate<sup>2</sup>, Catherine J. Norris<sup>3</sup>, & Richard J. Davidson<sup>2</sup>  
<sup>1</sup>*University of Reading*, <sup>2</sup>*University of Wisconsin, Madison*, <sup>3</sup>*Dartmouth College*

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8:30 A.M.—10:00 A.M.

C01

### *Symposium 6.2*

#### **Control Mechanisms of Visual Attention in the Human Brain**

Chair: Pierre Jolicoeur  
*University of Montreal*

#### **Orienting Attention to Objects in Visual-Short Term Memory**

Roberto Dell'Acqua<sup>1</sup>, Paola Sessa<sup>1</sup>, Paolo Toffanin<sup>2</sup>, & Pierre Jolicoeur<sup>3</sup>  
<sup>1</sup>*University of Padova*, <sup>2</sup>*University of Groningen*,  
<sup>3</sup>*University of Montreal*

#### **Top-Down Search Modes Control Attentional Capture in Visual Search**

Martin Eimer & Monika Kiss  
*University of London*

#### **Early Occipital Asymmetries as Indices for Spatial Allocation of Attention**

Edmund Wascher, Sven Hoffmann, Jessica Sanger, & Christian Beste  
*Leibniz Institute for Working Environment and Human Factors*

#### **Early Multisensory Interactions Affect the Competition Among Multiple Visual Objects: An EEG Study of the Pip and Pop Effect**

Christian N. L. Olivers, Erik van der Burg, Durk Talsma, Clayton Hickey, & Jan Theeuwes  
*Vrije University—Amsterdam*

#### **Neuronal Manifestations of Visual Spatial Attention: Evidence from Magnetoencephalography**

Stephan Grimault, Benoit Brisson, & Pierre Jolicoeur  
*University of Montreal*

8:30 a.m.—10:00 a.m.

B08

### *Symposium 6.3*

#### **Approaches to Approach Motivation: Psychophysiological Measures Characterize Motivation to Pursue Intimate Relationships and Sexual Arousal**

Chair: Nicole Prause  
*Idaho State University*

#### **Neurobiological Foundations of Human Sexual Drive and Function**

Tillman Kruger<sup>1</sup>, Boris Schiffer<sup>2</sup>, Uwe Hartmann<sup>3</sup>,  
Frank Deiter<sup>2</sup>, & Manfred Schedlowski<sup>2</sup>  
<sup>1</sup>*Medical School of Hannover*, <sup>2</sup>*University of Duisburg-  
Essen*, <sup>3</sup>*Saarland University*

#### **Approach Motivational Processes Involved in Responses to Social Rejection**

Eddie Harmon-Jones & Carly Peterson  
*Texas A&M University*

#### **Mixed-Emotion Responses and Motivation to Stimuli of Reproductive Relevance**

Nicole Prause & Verena Roberts  
*Idaho State University*

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8:30 A.M.—10:00 A.M.

B09

### *Symposium 6.4*

#### **Beyond Wavelets: Utilizing Uniform Time-Frequency Resolution to Improve Measurement of Brain Activity and Functional Connectivity**

Chair: Edward M. Bernat  
*Florida State University*  
Discussant: Daniel Mathalon  
*University of California, San Francisco*

#### **Reduced Interference Distribution Time-Frequency Phase Synchrony (RID-TFPS) Index**

Selin Aviyente  
*Michigan State University*

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**Time-Frequency Decomposition Disentangles Overlapping FRN and P300 Components from Feedback Stimuli in a Gambling Task**

Edward M. Bernat<sup>1</sup>, Lindsay D. Nelson<sup>2</sup>, & Christopher J. Patrick<sup>2</sup>

<sup>1</sup>Florida State University, <sup>2</sup>University of Minnesota

**Time-Frequency Decomposition Reveals Similar Structure Underlying Developmental Change in ERPs During the Course of Adolescence**

Steve M. Malone<sup>1</sup>, Edward M. Bernat<sup>2</sup>, & William G. Iacono<sup>1</sup>

<sup>1</sup>University of Minnesota, <sup>2</sup>Florida State University

**Characterizing Aberrant Functioning in Networks During Executive Control in Schizophrenia**

Seung Suk Kang & Scott R. Sponheim

University of Minnesota

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10:00 A.M.—10:30 P.M.

B01

*Refreshment Break*

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10:30 A.M.—12:00 NOON

B06

*Symposium 7.1*

**Oscillatory Brain Activity: Possible Mechanisms for the Control and Organization of Cognitive Processing**

Chairs: Wolfgang Klimesch<sup>1</sup> & Paul Sauseng<sup>2</sup>

<sup>1</sup>University of Salzburg, <sup>2</sup>University Hospital Hamburg-Eppendorf

**The Influence of Ongoing Oscillatory Brain Activity on Evoked Responses and Behavior**

Ali Mazaheri

University of California, Davis

**Supramodal Control of Oscillatory Phase Reset by Attention in Primary Auditory and Visual Cortices**

Peter Lakatos

The Nathan S. Kline Institute for Psychiatric Research

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**Theta Oscillations Reflect the Inhibitory Effects of Episodic Memory Retrieval**

Simon Hanslmayr, Tobias Staudigl, & Karl-Heinz Bauml  
*University of Regensburg*

**Human Alpha Band Activity and the Suppression of Irrelevant Visual Information: Converging Evidence from Electroencephalography and Transcranial Magnetic Stimulation**

Paul Sauseng  
*University Hospital Hamburg-Eppendorf*

**Alpha Oscillations and the Default Mode System**

Wolfgang Klimesch  
*University of Salzburg*

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10:30 P.M.—12:00 NOON  
B08

*Symposium 7.2*

**The Physiology of Psychopathic Personality: Homogeneous Results for a Heterogeneous Construct?**

Chairs: Hedwig Eisenbarth<sup>1</sup> & Christopher J. Patrick<sup>2</sup>  
<sup>1</sup>*University of Regensburg*, <sup>2</sup>*University of Minnesota*  
Discussant: Christopher J. Patrick  
*University of Minnesota*

**Characterizing the Neurocognitive Profile of Violent Offenders with Antisocial Personality Disorder and Violent Offenders with Psychopathy**

Stephane A. De Brito, Essi Viding, Nigel Blackwood, & Sheilagh Hodgins  
*University College London*

**Dysfunction in the Role of the Amygdala and Orbital Frontal Cortex During Stimulus-Reinforcement Based Decision Making**

James R. Blair<sup>1</sup>, Abigail A. Marsh<sup>2</sup>, & E. C. Finger<sup>1</sup>  
<sup>1</sup>*National Institute of Mental Health*, <sup>2</sup>*Georgetown University*

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**Event Related Potentials After Mood Induction in Criminal Female Psychopaths**

Hedwig R. Eisenbarth<sup>1</sup>, Chiara Spironelli<sup>2</sup>, Federica Gradante<sup>2</sup>, Domenica Nunnari<sup>2</sup>, & Alessandro Angrilli<sup>2</sup>

<sup>1</sup>University of Regensburg, <sup>2</sup>University of Padova

**Brain-Computer-Interfaces (BCI) in Criminal Psychopaths**

Niels Birbaumer  
University of Tübingen

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10:30 A.M.—12:00 NOON

C01

**Symposium 7.3****Thanks for the Asymmetries: Contributions of John J. B. Allen to Psychophysiology and Students**

Chairs: Greg Hajcak<sup>1</sup> & Rebecca Houston<sup>2</sup>

<sup>1</sup>Stony Brook University, <sup>2</sup>University at Buffalo, The State University of New York

**Asymmetrical Frontal Cortical Activity and Motivational Direction: Methods and Memories**

Eddie Harmon-Jones  
Texas A&M University

**The Proper Care and Feeding of Frontal EEG Asymmetry**

James A. Coan  
University of Virginia

**The Allen Effect: From Frontal Asymmetry to Emotion Regulation**

Heather L. Urry  
Tufts University

**Resting Frontal EEG Asymmetry as an Endophenotype for Depression Risk: Sex-Specific Patterns of Frontal Brain Asymmetry**

Jennifer L. Stewart<sup>1</sup>, Andrew W. Bismark<sup>1</sup>, David N. Towers<sup>2</sup>, James A. Coan<sup>3</sup>, & John J. B. Allen<sup>1</sup>

<sup>1</sup>University of Arizona, <sup>2</sup>University of Illinois, Urbana-Champaign, <sup>3</sup>University of Virginia



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**Damned if You Do, Damned if You Don't:  
Dissociation of Error Monitoring Systems in OCD**

James F. Cavanagh<sup>1</sup>, Theo O. J. Gründler<sup>2</sup>, Michael J. Frank<sup>3</sup>, & John J. B. Allen<sup>1</sup>

<sup>1</sup>*University of Arizona*, <sup>2</sup>*Max Planck Institute for Neurological Research*, <sup>3</sup>*Brown University*

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10:30 A.M.—12:00 NOON

*B09*

*Symposium 7.4*

**The N170's Special Relation with Face Perception:  
How, Why and Where?**

Chair: Sidney J. Segalowitz

*Brock University*

**Coarse to Fine Categorization of Faces Within the  
N170 Time-Window: The Critical Role of  
Global Shape**

Bruno Rossion, Stéphanie Caharel, Fang Jiang, Esther A. Prieto, & Corentin Jacques

*University of Louvain*

**Deconstructing the P1 and N170 Face-Effect Using  
Independent Component Analysis**

James Desjardins & Sidney J. Segalowitz

*Brock University*

**The N170 ERP Relates to Both Featural and  
Configural Information Important for  
Face Processing**

Xin Zheng, Mark D. Vida, Catherine J. Mondloch, & Sidney J. Segalowitz

*Brock University*

**Is There a Neural-Based Eye Detector in the  
Human Brain? Early Face and Eye Processing Brain  
Networks Assessed by ERP-MEG**

**Co-Recording**

Roxane J. Itier<sup>1</sup> & Christian Dobel<sup>2</sup>

<sup>1</sup>*University of Waterloo*, <sup>2</sup>*University of Münster*

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12:15 p.m.—2:15 p.m.

C01

***Business Meeting and Luncheon***

(Pre-registration required;  
present your ticket when requested)

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2:15 P.M.—2:30 P.M.

***Break***

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2:30 P.M.—4:00 P.M.

A05–A06

***Symposium 8.1***

**Hormones as Mechanisms of Self-Regulation:  
Steroid Effects on Motivated Attention  
and Behavior**

**Chairs:** Karin Roelofs<sup>1</sup> & David M. Amodio<sup>2</sup>

<sup>1</sup>*Leiden University*, <sup>2</sup>*New York University*

**Discussant:** David M. Amodio

*New York University*

**The Influence of Cortisol and Aggression on the  
Processing of Emotional Facial Expressions**

Katja Bertsch<sup>1</sup>, Robina Khan<sup>1</sup>, Menno R. Kruk<sup>2</sup>,  
Steffen Richter<sup>1</sup>, & Ewald Naumann<sup>1</sup>

<sup>1</sup>*University of Trier*, <sup>2</sup>*Leiden University*

**Psychophysiological Evidence for Effects of Cortisol  
on Early Threat Processing in Social Phobia: The  
Roles of Motivational Context and Symptom  
Severity**

Jacobien M. Van Peer, Philip Spinhoven, & Karin  
Roelofs

*Leiden University*

**Basal Testosterone Modulates Prefrontal Control of  
Social Motivation Behavior**

Karin Roelofs<sup>1</sup>, Inge Volman<sup>1</sup>, & Ivan Toni<sup>2</sup>

<sup>1</sup>*Leiden University*, <sup>2</sup>*Radboud University Nijmegen*

**The Effects of Testosterone Administration on  
Bargaining Behavior**

Christopher Eisenegger<sup>1</sup>, Michael Naef<sup>1</sup>, Romana  
Snozzi<sup>1</sup>, Markus Heinrichs<sup>2</sup>, & Ernst Fehr<sup>1</sup>

<sup>1</sup>*University of Zurich*, <sup>2</sup>*University of London*

2:30 P.M.—4:00 P.M.

B08

### *Symposium 8.2*

#### **Beyond Words: On the Role of Nonverbal Signals in Human Communication**

Chairs: Didier Grandjean<sup>1</sup> & Annett Schirmer<sup>2</sup>

<sup>1</sup>University of Geneva, <sup>2</sup>National University of Singapore

#### **Modulation of Face Processing by Emotional Expression and Gaze Direction During Intracranial Recordings in Right Fusiform Cortex**

Gilles Pourtois, Laurent Spinelli, Margitta Seeck, & Patrik Vuilleumier

University of Geneva

#### **Towards an Integrative Model of Brain Processes of Emotional Prosody Perception**

Didier Grandjean

University of Geneva

#### **Gestures and the Disambiguation of Speech**

Thomas Gunter

Max Planck Institute for Human Cognitive and Brain Sciences

#### **Implicit Contextual Information and Personal Values Shape the Preference for Odours**

Sylvain Delplanque<sup>1</sup>, Géraldine Coppin<sup>1</sup>, Isabelle Cayeux<sup>2</sup>, Christelle Porcherot<sup>2</sup>, Maria I. Velazco<sup>2</sup>, & David Sander<sup>1</sup>

<sup>1</sup>University of Geneva, <sup>2</sup>Firmenich

#### **Human and Mechanical Touch Facilitate Affective Picture Processing**

Annett Schirmer, Ranjith Vijayakumar, Keng Soon Teh, Darshini Nithianantham, Nicolas Escoffier, & Adrian D. Cheok

National University of Singapore

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2:30 P.M.—4:00 P.M.

B06

### *Symposium 8.3*

#### **Functional Principles of the Human Emotion Network**

Chair: Paul Pauli

University of Würzburg

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**Context Conditioning in Virtual Reality and the Influence of Pre-Exposure**

Andreas Mühlberger, Christian Tröger, Heike Ewald,  
Evelyn Glotzbach, & Paul Pauli  
*University of Würzburg*

**Rapid and Highly Resolving Associative Learning: Convergent Magnetoencephalographic Evidence from Vision and Audition**

Ann-Kathrin Bröckelmann, Christian Putsche, &  
Markus Junghöfer  
*University of Münster*

**Valence and Arousal Differentially Modulate Brain Activation to Positive and Negative Pictures**

Antje B. M. Gerdes, Matthias J. Wieser, Andreas  
Mühlberger, Peter Weyers, Georg W. Alpers, Michael  
M. Plichta, F. Breuer, & Paul Pauli  
*University of Würzburg*

**Modulation of Stimulus Saliency by Emotional and Attentional Factors: Processing of Emotional and Neutral Faces in the Human MEG**

Till R. Schneider, Jörg Hipp, Kathrin Müsch, &  
Andreas K. Engel  
*University Medical Center Hamburg-Eppendorf*

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2:30 P.M.—4:00 P.M.

B09

***Symposium 8.4*****The Psychophysiology of Developmental Psychopathology**

Chair: Diane L. Santesso  
*Brock University*

Discussant: Sidney J. Segalowitz  
*Brock University*

**The Relation of Punishment Sensitivity to ACC Activation in an ERP Gambling Paradigm is Greater in Younger Adolescents**

Diane L. Santesso, Angela Dzyundzyak, & Sidney J.  
Segalowitz  
*Brock University*

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**Individual Differences Underlying Addiction: At the Intersection of Brain, Cognition, and Personality**

Travis Baker, Tim Stockwell, Gordon Barnes, & Clay Holroyd  
*University of Victoria*

**The Relationship of Motivation and Cognition in Reinforcement Processing**

Lisa Gatzke-Kopp<sup>1</sup>, Nilam Ram<sup>1</sup>, Sarah Karalunas<sup>1</sup>, Christine Fortunato<sup>1</sup>, Michelle Jetha<sup>2</sup>, & Kathleen Gates<sup>1</sup>  
<sup>1</sup>*Pennsylvania State University*, <sup>2</sup>*Brock University*

**Reward Systems in Adolescence and Anxiety**

Monique Ernst<sup>1</sup>, Amanda Guyer<sup>1</sup>, Eric Nelson<sup>1</sup>, Michael Hardin<sup>1</sup>, Yair Bar Haim<sup>2</sup>, Nathan Fox<sup>3</sup>, & Daniel Pine<sup>1</sup>  
<sup>1</sup>*National Institute of Mental Health*, <sup>2</sup>*Tel Aviv University*, <sup>3</sup>*University of Maryland, College Park*

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4:00 P.M.—6:00 P.M.  
*A01, A02 & A08*

***Poster Session IV***

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6:00 P.M.—9:00 P.M.

***Extended Dinner and City Seeing***  
(on your own)

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9:00 P.M.—12:00 midnight  
*C01*

***Saturday Night Social***  
*All attendees are welcome!*

**Sunday, October 25, 2009**

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9:00 A.M.—1:00 P.M.

*Park Inn Berlin-Alexanderplatz, Salon Ehrlich 1****SPR Board of Directors Meeting***

**Poster Session I**  
**Wednesday, October 21, 2009**

*Poster Session Schedule*

4:00 P.M.—6:00 P.M.	Posters Assembled
6:00 P.M.—8:00 P.M.	Posters Available for Viewing
8:00 P.M.—10:00 P.M.	Authors Present for Discussion and Questions
10:00 P.M.—11:00 P.M.	Dismantle Posters

- 1. Responses to Search-and-Rescue Robots in a Simulated Disaster Environment: The Influence of Robot Behavior**  
Cindy L. Bethel<sup>1</sup>, Kristen Salomon<sup>1</sup>, & Robin R. Murphy<sup>2</sup>  
<sup>1</sup>University of South Florida, <sup>2</sup>Texas A&M University
- 2. The Feedback-Related Negativity and Frontal Midline Theta During Gambling in Extreme BIS/BAS Groups**  
Koen B. E. Böcker, Ivo Heitland, Edmund R. Volkerts, & J. Leon Kenemans  
*Utrecht University*
- 3. Psychophysiology of Fear Offset**  
Floris Klumpers, Amber N. V. Ruigrok, J. Leon Kenemans, & Johanna M. P. Baas  
*Utrecht University*
- 4. The Dopamine Transporter Genotype and Punishment/Reward Sensitivity Predict Anxiety in a Sample of Healthy Female Students**  
Ivo Heitland, Koen B. E. Böcker, Ed R. Volkerts, J. Leon Kenemans, & Ronald S. Oosting  
*Utrecht University*
- 5. Electrophysiological Evidence for Rapid Preferential Processing of Electroshock Conditioned Faces**  
Markus Junghöfer<sup>1</sup>, Maria C. Pastor<sup>2</sup>, Rosario Poy<sup>2</sup>, Raúl López<sup>2</sup>, Pilar Segarra<sup>2</sup>, Àngels Esteller<sup>2</sup>, & Javier Moltó<sup>2</sup>  
<sup>1</sup>University of Münster, <sup>2</sup>Jaume I University

- 6. Free Will: A Question of Personality? An Investigation of Lateralized Readiness Potentials in EEG**  
Eva-Maria Leicht, Markus Quirin, Julius Kuhl, & Thomas Gruber  
*University of Osnabrück*
- 7. Post-Event Processing in Musical Performance Anxiety**  
Susanne Gorges & Georg W. Alpers  
*University of Wuerzburg*
- 8. Sensation Seeking, Risk Anticipation, and Feedback Processing in a Gambling Task**  
Marta Bianchin<sup>1</sup> & Alessandro Angrilli<sup>2</sup>  
<sup>1</sup>*University of Padova*, <sup>2</sup>*University of Padova, CNR Institute of Neuroscience*
- 9. Effects of Simulated Microgravity on Human Emotion Processing and Startle Reflex Modulation**  
Simone Messerotti Benvenuti<sup>1</sup>, Marta Bianchin<sup>1</sup>, & Alessandro Angrilli<sup>2</sup>  
<sup>1</sup>*University of Padova*, <sup>2</sup>*University of Padova, CNR Institute of Neuroscience*
- 10. Emotion Modulates Output Systems**  
Fatima S. Erthal<sup>1</sup>, Mirtes G. Pereira<sup>1</sup>, Leticia Oliveira<sup>1</sup>, Izabel F. Mocaiber<sup>2</sup>, Mateus Joffily<sup>2</sup>, Eliane Volchan<sup>2</sup>, & Luiz Pessoa<sup>3</sup>  
<sup>1</sup>*Fluminense Federal University*, <sup>2</sup>*Federal University of Rio de Janeiro*, <sup>3</sup>*Indiana University*
- 11. Response Selection, Response Threshold and Stimulus-Response Conflict: Laplacian ERP Studies**  
Clémence Roger, Franck Vidal, Thierry Hasbroucq, & Boris Burle  
*Laboratory of Neurobiology of Cognition, Aix-Marseille University, CNRS*
- 12. Characterization of Electroencephalographic (EEG) Components Elicited by Overt Speech Production in the Picture Naming Task: A Laplacian ERP Study**  
Stephanie Ries, Niels Janssen, Stephane Dufau, F. Xavier Alario, & Boris Burle  
*Aix-Marseille University, CNRS*



- 13. Face Naming and Tip-of-the-Tongue State: An Event-Related Potentials Study Providing Further Findings**  
Mónica Lindín & Fernando Díaz  
*University of Santiago de Compostela*
- 14. A Magnetoencephalographic Study for the Characterization of the Timing and the Cortical Areas Associated with Face Naming and the Tip-of-the-Tongue State**  
Mónica Lindín & Fernando Díaz  
*University of Santiago de Compostela*
- 15. Covert and Overt Processing of Sad and Happy Faces: Early ERP Effects**  
Jennifer N. Barrie, Fern E. Jaspers-Fayer, & Mario Liotti  
*Simon Fraser University*
- 16. The Influence of Preference on the Neural Correlates of Memory**  
Isabel Taake<sup>1</sup>, Fern Jaspers-Fayer<sup>1</sup>, Gord Hotchkiss<sup>2</sup>, & Mario Liotti<sup>1</sup>  
<sup>1</sup>*Simon Fraser University*, <sup>2</sup>*Enquiro Search Solutions*
- 17. Electrodermal Activity Related to Anticipation of Pain Increases During Operant Conditioning of Altered Pain Sensitivity**  
Susanne Becker, Anne-Kathrin Bräscher, Dieter Kleinböhl, Jasmin-Fleur Ahlheim, & Rupert Hölzl  
*University of Mannheim*
- 18. Dynamics of Sexual Steroids' Level in Rats' Males Brain During Forming of the Conditioned Reflex**  
Vladimir Sashkov  
*Institute of Developmental Physiology, Russian Academy of Education*
- 19. Lack of Early Search for Truth in High Schizotypal People: ERP Evidence**  
Isabel Orenes, David Beltrán, Gorka Navarrete, Axit Fumero, & Carlos Santamaría  
*University of La Laguna*
- 20. Keeping in Mind What is Not True: N200 Effects of Exclusive Disjunctions**  
David Beltrán & Carlos Santamaría  
*University of La Laguna*

- 21. EEG Correlates of the Semantic Visual Processing in Humans**  
Andrij O. Cherninskiy, Sergij O. Sobishchanskyi, Igor G. Zyma, & Sergij A. Kryzhanovskiy  
*Taras Shevchenko National University of Kyiv*
- 22. Central and Peripheral Hemodynamics During Emotional Activation in Essential Hypotension**  
Michela Sarlo, Andrea Devigili, Massimiliano de Zambotti, & Luciano Stegagno  
*University of Padova*
- 23. The Neural Correlates of Attentional Bias in Blood Phobia as Revealed by the N2PC**  
Giulia Buodo, Michela Sarlo, Marianna Munafò, & Daniela Palomba  
*University of Padova*
- 24. Multimodal Assessment of Emotional Distress After Work-Related Accidents**  
Marta Ghisi, Simona Scozzari, Giulia Buodo, Arianna Di Natale, Caterina Novara, & Daniela Palomba  
*University of Padova*
- 25. Delta EEG Band as a Marker of Linguistic Left Hypofrontality in Schizophrenia Patients**  
Chiara Spironelli, Luciano Stegagno, & Alessandro Angrilli  
*University of Padova*
- 26. EEG Delta Band as a Marker of Brain Damage in Recovered Non-Fluent Aphasic Patients**  
Chiara Spironelli & Alessandro Angrilli  
*University of Padova*
- 27. Verbal Instruction Abolishes Fear Conditioned to Racial Out-Group Faces**  
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- 28. My Parietal Cortex ‘Knows’ What You are Doing: The Human Mirror Neuron System Measured by FNIRs**  
Saskia Koehler<sup>1</sup>, Johanna Egetemeir<sup>2</sup>, Prisca Stenneken<sup>2</sup>, Paul Pauli<sup>1</sup>, Andreas Fallgatter<sup>1</sup>, & Martin J. Herrmann<sup>1</sup>  
<sup>1</sup>*University of Würzburg*, <sup>2</sup>*Bielefeld University*

- 29. Brain Activation During Joint Action Measured with Functional Near-Infrared Spectroscopy**  
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<sup>1</sup>Bielefeld University, <sup>2</sup>University of Wuerzburg
- 30. Auditory Attention to Targets in the Congenitally Blind Enhances Occipital Gamma-Band Oscillatory Activity**  
Mario Liotti<sup>1</sup>, Jessica J. Green<sup>1</sup>, Fern Jaspers-Fayer<sup>1</sup>, & Marty G. Woldorff<sup>2</sup>  
<sup>1</sup>Simon Fraser University, <sup>2</sup>Duke University
- 31. Tactile Frequency Discrimination with Consecutive and Simultaneous Stimulus Presentation**  
Tobias Katus, Julia Adler, & Matthias M. Müller  
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- 32. An ERP Source Localization Study of Performance Monitoring in Autism Spectrum Disorder**  
Diane L. Santesso<sup>1</sup>, Irene E. Drmic<sup>2</sup>, Michelle K. Jetha<sup>3</sup>, Karen J. Mathewson<sup>3</sup>, Susan E. Bryson<sup>4</sup>, Joel O. Goldberg<sup>2</sup>, Geoffrey B. Hall<sup>3</sup>, Sidney J. Segalowitz<sup>1</sup>, & Louis A. Schmidt<sup>3</sup>  
<sup>1</sup>Brock University, <sup>2</sup>York University, <sup>3</sup>McMaster University, <sup>4</sup>Dalhousie University
- 33. Cardiac Responses to Affective Auditory and Visual Stimuli in Adults with Autism Spectrum Disorder (ASD)**  
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<sup>1</sup>McMaster University, <sup>2</sup>York University, <sup>3</sup>Brock University, <sup>4</sup>Dalhousie University
- 35. Tidal Volume Measurement During Slow Paced Breathing is Related to Several Cardiac Indices**  
Ben Allen, Thomas J. Pardikes, & Bruce H. Friedman  
Virginia Polytechnic Institute and State University

- 36. Effects of Respiration Rate on Four Metrics of RSA During a Quiet Rest and Dual Stressor Task**  
Thomas J. Pardikes, Ben Allen, & Bruce H. Friedman  
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- 37. Mean Daily Temperature Moderates the Shared Environmentality of the Skin Conductance Response**  
Greg Perlman<sup>1</sup>, Wendy Johnson<sup>2</sup>, William G. Iacono<sup>1</sup>, & Matt McGue<sup>1</sup>  
<sup>1</sup>*University of Minnesota*, <sup>2</sup>*University of Edinburgh*
- 38. Personality Dimensions are Associated with ERP Time-Domain and Time-Frequency Features in Adult Males**  
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- 39. Cross-Task and Co-Twin Similarity in ERP Components During Adolescence: A Temporal-Spatial Principal Components Analysis**  
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- 40. ERP Features in Adult Females with Traits Indicative of Borderline Personality Disorder**  
Micah A. Hammer, Steve M. Malone, Scott J. Burwell, Daniel W. Bedford, Ian B. McLaughlin, Dragana Vidovic, Casey S. Gilmore, & William G. Iacono  
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- 41. The Longitudinal Stability of P3 Brain Amplitude Reduction in Subjects Diagnosed with Lifetime Externalizing Disorders**  
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- 42. Age-Dependent Changes of EEG Frequency Characteristics and ECG-Changes Related to Working Memory Processes in Arithmetic Task**  
Roland Boha, Máté Benyovszky, Zsófia Anna Gaál, Brigitta Tóth, & Márk Molnár  
*Institute of Psychology, Hungarian Academy of Sciences*

- 43. Age-Related Electrophysiological Aspects of Probability Learning**  
Zsófia Anna Gaál, Roland Boha, & Márk Molnár  
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- 44. Startle Modulation and Autonomic Reactivity in Psychopathy: The Role of the Affective and the Antisocial Facets**  
Rosario Poy, Pilar Segarra, M. Carmen Pastor, Raúl López, Àngels Esteller, Alicia Fonfría, Carla Colomer, M. Pilar Tormo, & Javier Moltó  
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- 45. Aversive Conditioning Deficits in Non-Criminal Psychopaths**  
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- 46. Error Processing and Conflict Monitoring Show Evidence of Heritability in ADHD**  
Gráinne McLoughlin, Fruhling Rijdsdijk, Charlotte Tye, Philip Asherson, Jonna Kuntsi, & Robert Plomin  
*Institute of Psychiatry, King's College London*
- 47. Striatal Activation to Negative Feedback Differs Between Behaviorally Inhibited and Non-Inhibited Adolescents**  
Sarah M. Helfinstein<sup>1</sup>, Brenda Benson<sup>2</sup>, Yair Bar-Haim<sup>3</sup>, Koraly Perez-Edgar<sup>4</sup>, Allison Detloff<sup>2</sup>, Daniel S. Pine<sup>2</sup>, Nathan A. Fox<sup>1</sup>, & Monique Ernst<sup>2</sup>  
<sup>1</sup>University of Maryland, College Park, <sup>2</sup>National Institute of Mental Health, <sup>3</sup>Tel Aviv University, <sup>4</sup>George Mason University
- 48. Neuromagnetic and Audiometric Investigation of Transient Tinnitus**  
Magdalene Ortmann<sup>1</sup>, Winfried Schlee<sup>2</sup>, Nadia Müller<sup>2</sup>, & Nathan Weisz<sup>2</sup>  
<sup>1</sup>Institute for Biomagnetism and Biosignalanalysis, University of Münster, <sup>2</sup>University of Konstanz

**49. Aerobic Fitness Effects on Cognitive****Task Preparation**

Keita Kamijo<sup>1</sup>, Kevin C. O'Leary<sup>2</sup>, Matthew B. Pontifex<sup>2</sup>, Jason R. Themanson<sup>3</sup>, & Charles H. Hillman<sup>2</sup>

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**50. Stabilization of Error-Related Brain Activity Across the Lifespan**

Matthew B. Pontifex<sup>1</sup>, Mark R. Scudder<sup>1</sup>, Mike L. Brown<sup>1</sup>, Kevin C. O'Leary<sup>1</sup>, Chien-Ting Wu<sup>1</sup>, Jason R. Themanson<sup>2</sup>, & Charles H. Hillman<sup>1</sup>

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**51. Fitness and the Modulation of Cognitive Control in Preadolescent Children**

Matthew B. Pontifex, Lauren B. Raine, Laura Chaddock, Matt VanPatter, Michelle W. Voss, Jennifer S. Kim, Neal J. Cohen, Arthur F. Kramer, & Charles H. Hillman

*University of Illinois, Urbana-Champaign*

**52. How Do Subjects Experience an fMRI Session? Concordance Between Subjective and Neuroendocrine Stress Indicators**

Ulrike Lueken<sup>1</sup>, Markus Muehlhan<sup>1</sup>, Hans-Ulrich Wittchen<sup>2</sup>, & Clemens Kirschbaum<sup>3</sup>

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**53. Are Your Runs Comparable? Differences in Subjective and Neuroendocrine Stress Indicators in the Course of an fMRI Session**

Markus Muehlhan<sup>1</sup>, Ulrike Lueken<sup>1</sup>, Michael N. Smolka<sup>2</sup>, & Clemens Kirschbaum<sup>3</sup>

<sup>1</sup>*Neuroimaging Center, Technische Universität*, <sup>2</sup>*Section of Systems Neuroscience, Faculty of Medicine Carl Gustav Carus, Technische Universität*, <sup>3</sup>*Technische Universität*

- 54. Functional Hemispheric Lateralization of Executive Function by Transcranial Direct Current Stimulation**  
Colleen A. Dockery<sup>1</sup>, Tilman Gaber<sup>2</sup>, Niels Birbaumer<sup>1</sup>, & Christian Plewnia<sup>3</sup>  
<sup>1</sup>*Institute of Medical Psychology and Behavioral Neurobiology, University of Tübingen*, <sup>2</sup>*Max Planck Institute of Biological Cybernetics*, <sup>3</sup>*University Hospital Tübingen*
- 55. Emotional Imagery Activates Reward Circuits**  
Vincent D. Costa, Peter J. Lang, & Margaret M. Bradley  
*University of Florida*
- 56. Fear Less! Neural Correlates of Fear Reversal**  
Vincent D. Costa, Margaret M. Bradley, & Peter J. Lang  
*University of Florida*
- 57. Fast and Easy: Reflex Modulation for Simple Pictures**  
Bethany C. Wangelin, Margaret M. Bradley, & Peter J. Lang  
*University of Florida*
- 58. Emotional Perception in Depressives and Controls: Rapid Functional Imaging**  
Dean Sabatinelli<sup>1</sup>, Andreas Keil<sup>2</sup>, Margaret M. Bradley<sup>2</sup>, & Peter J. Lang<sup>2</sup>  
<sup>1</sup>*University of Georgia*, <sup>2</sup>*University of Florida*
- 59. Hyper- and Hypo-Reactivity in PTSD: Trauma Recurrence and Negative Affectivity**  
Lisa M. McTeague<sup>1</sup>, Peter J. Lang<sup>1</sup>, Joshua R. Shumen<sup>1</sup>, Marie-Claude Laplante<sup>1</sup>, & Bruce N. Cuthbert<sup>2</sup>  
<sup>1</sup>*University of Florida*, <sup>2</sup>*University of Minnesota*
- 60. Attention Capture in Blood-Injury Fear: Parafoveal & Foveal Processing**  
Lisa M. McTeague<sup>1</sup>, Andreas Löw<sup>2</sup>, Shumen R. Joshua<sup>1</sup>, Andreas Keil<sup>1</sup>, & Peter J. Lang<sup>1</sup>  
<sup>1</sup>*University of Florida*, <sup>2</sup>*University of Greifswald*

- 61. The Time Course of Attention to Facial Expressions Distinguishes Healthy Controls, Socially Anxious Individuals, and Social Phobia Patients**  
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*University of Florida*
- 62. Loudness Dependency of Mismatch Negativity (MMN): Evidence from CSD-PCA**  
Nathan A. Gates<sup>1,2</sup>, Craig E. Tenke<sup>1,3</sup>, Daniel M. Alschuler<sup>4</sup>, Christopher J. Kroppmann<sup>4</sup>, Gerard E. Bruder<sup>1,3</sup>, & Jürgen Kayser<sup>1,3</sup>  
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- 63. Reference-Free ERP Old/New Effects of Visual Recognition Memory for Words and Faces in Schizophrenic and Healthy Adults**  
Jürgen Kayser, Craig E. Tenke, Christopher J. Kroppmann, Shiva Fekri, Daniel M. Alschuler, Nathan A. Gates, Roberto B. Gil, & Gerard E. Bruder  
*New York State Psychiatric Institute*
- 64. Characterization of N1/P2 Loudness Dependency by Temporal Principal Components Analysis of Current Source Density (CSD-PCA): Prediction of Treatment Response in Depressed Patients**  
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*New York State Psychiatric Institute*
- 65. Finding McGurk: Localization of the Source of the McGurk-Effect and Related Oscillatory Activity**  
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<sup>1</sup>*University of Konstanz,* <sup>2</sup>*Bangor University*
- 66. Hearing Music Within Noise: An ECOG Study**  
Nadia Müller, Julian Keil, & Nathan Weisz  
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- 67. Modification of Synchronous Brain Activity in Chronic Tinnitus—A Neurofeedback Therapy**  
Isabel Lorenz, Thomas Hartmann, Winfried Schlee, Nadia Müller, Julian Keil, & Nathan Weisz  
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- 68. Effects of Refreshing Memory on P300-Based GKT Administered One Month After a Mock-Crime for Repeated Offenders**  
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<sup>1</sup>*Nagoya University*, <sup>2</sup>*Fukuyama University*, <sup>3</sup>*University of East Asia*
- 69. Top-Down Effects on the Regularity Representation Revealed by Visual Mismatch Negativity**  
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<sup>1</sup>*Nagoya University*, <sup>2</sup>*University of Leipzig*
- 70. Affective Priming in ERP: Unconscious and Conscious Processing of Facial Expressions and Cultural Effects**  
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<sup>1</sup>*Nagoya University*, <sup>2</sup>*Aichi Shukutoku University*
- 71. Neural Bases of Behavior Selection Without an Objective Correct Answer**  
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<sup>1</sup>*Japan Society for the Promotion of Science*, <sup>2</sup>*Nagoya University*, <sup>3</sup>*Kizawa Memorial Hospital, Chubu Medical Center for Prolonged Traumatic Brain Dysfunction*
- 72. Prefrontal Cortex Modulates Peripheral Immune Function According to Controllability of Acute Stress**  
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<sup>1</sup>*Nagoya University*, <sup>2</sup>*The University of Tokyo*, <sup>3</sup>*Hiroshima University*, <sup>4</sup>*Mie University*, <sup>5</sup>*Fujita Health University*, <sup>6</sup>*Kizawa Memorial Hospital*

- 73. The Structure of the Mindful Brain**  
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<sup>1</sup>Nagoya University, <sup>2</sup>Fujita Health University, <sup>3</sup>Kizawa Memorial Hospital
- 74. Affective Range vs. Mean: A Novel Method for Understanding Atypical Affective Modulation of Startle**  
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- 75. The Independent Contribution of Anxiety in Nicotine Withdrawal-Induced Cardiac Deceleration**  
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- 76. Cotinine as a Potential Predictor of Increased Anxiety During Nicotine Withdrawal**  
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- 77. Social Deviance and Startle Modulation: Different Results for Different Measures of Psychopathy**  
Elizabeth D. Eldridge<sup>1</sup>, Jared P. Dempsey<sup>1</sup>, Sara T. Hughes<sup>1</sup>, David E. Lovett<sup>1</sup>, C. Daniel Hornyik<sup>1</sup>, & Lee M. Cohen<sup>2</sup>  
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- 78. Atypical Affective Modulation of Startle and Symptoms of Depression**  
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- 79. Blue LED Prepulse Inhibit More in PPI of Human Startle Eye Blink Reflex**  
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- 80. Attentional Startle Modulation: It Takes More Than Pairs of Two Digits**  
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- 81. Cardiovascular Patterns Associated with Appetitive and Defensive Activation During Affective Picture Viewing**  
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- 83. Effect of Intensity in Choice Reaction Time Tasks: An EEG Study**  
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- 84. Crowded Targets Do Not Capture Attention: An EEG Study**  
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- 85. Attention Networks in the Left and Right Hemispheres: A Spatio-Temporal EEG Study**  
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<sup>1</sup>*University of Finance and Management*, <sup>2</sup>*Jagiellonian University*
- 87. Spatial-Numerical Association Interferes with Orienting and Executive Attentional Processing**  
Malgorzata Gut, Marzena Wasilewska, Izabela Szumska, & Piotr Jaskowski  
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<sup>1</sup>University of Islas Baleares, <sup>2</sup>University of Granada,  
<sup>3</sup>University of Barcelona
- 89. Somatosensory Activity Modulation During Observation of Others' Pain**  
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*University of Balearic Islands*
- 90. ERPs Elicited by Pain and Anger Faces with Different Intensities of Emotional Expression**  
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- 91. Sleep Onset and Cardiovascular Modifications in Insomnia**  
Naima Covassin, Massimiliano de Zambotti, Giuliano  
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- 92. Cardiac Activation and Attentional Performances in Insomniacs and Normal Sleepers**  
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- 93. Associations Between EEG and fMRI Measures During Instructed Emotion Regulation**  
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- 94. The Functional Locus of the SNARC Effect: An ERP Investigation**  
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<sup>1</sup>University of Glasgow, <sup>2</sup>Humboldt University, Berlin

- 95. Interhemispheric EEG Asymmetries of ERP Old/New Effects in Visual Perception of Simple Nonverbal Stimuli**  
Alexander Ya Kaplan, Ekaterina V. Levichkina, & Alexander Yu Zhigalov  
*Moscow State University*
- 96. Conflict Signals in the Explicit Word Stem Completion Task**  
Lars Kuchinke, Markus Hofmann, Benny Briesemeister, Nik Krumm, & Arthur M. Jacobs  
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- 97. Assessing the Impact of Stimulus Similarity on the P300 During a Card-Playing Deception Detection Task**  
Yannick Marchand<sup>1</sup>, Pauline C. Inglis<sup>2</sup>, & Celeste D. Lefebvre<sup>3</sup>  
<sup>1</sup>*Institute for Biodiagnostics (Atlantic)*, <sup>2</sup>*Dalhousie University*, <sup>3</sup>*IWK Health Centre*
- 98. ERP P3 Amplitude Change Over Trials During the Performance of a Working Memory N-Back Task in Older and Younger Adults**  
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- 99. Modulation of Parieto-Frontal Feedback Loops in Continuous Visuomotor Learning Identified by Event-Related Potentials**  
Holger Hill  
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- 100. Changes in EEG Theta Activity After Working-Memory Strategy Training on a Difficult Planning Task**  
Kimberly Horn, Naveen Reddy, Dana Byrd, & W. Keith Berg  
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- 101. Genetic and Developmental Influences on EEG Band Power and Anterior Alpha Asymmetry in Adolescence**  
Andrey P. Anokhin, Simon Golosheykin, & Sean D. Kristjansson  
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- 102. Dissociating Functional Loci of Spatial and Non-Spatial Simon Effects: A PRP/LRp Study**  
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<sup>1</sup>*Humboldt University, Berlin*, <sup>2</sup>*Hebrew University of Jerusalem*
- 103. Intervals of Quasi-Stable EEG Phase Synchrony Correlated with Perception**  
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<sup>1</sup>*RIKEN Brain Science Institute*, <sup>2</sup>*Salk Institute for Biological Studies*, *RIKEN Brain Science Institute*,  
<sup>3</sup>*University of Sydney*, *RIKEN Brain Science Institute*
- 104. EEG Study of Creativity**  
Maria Starchenko  
*Institute of the Human Brain of the Russian Academy of Sciences*
- 105. High-Density ERPs Elicited by Human and Animal Faces and Polymorphism of 5HT2A Gene**  
Elena V. Mnatsakanian<sup>1</sup>, Natalia V. Maluchenko<sup>2</sup>, & Alexander G. Tonevitsky<sup>3</sup>  
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<sup>2</sup>*Moscow State University*, <sup>3</sup>*Russian Research Institute of Sport and Physical Education*
- 106. Resting EEG-Characteristics and Human Working Efficiency**  
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- 107. Does Error Detection System Impact to Lie Processing? An ERP Study**  
Maxim Kireev, Sergey Pakhomov, & Svyatoslav Medvedev  
*Institute of the Human Brain of the Russian Academy of Sciences*
- 108. The P300 BCI is More Than an Oddball and More Than a P300 BCI**  
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- 109. Electrophysiological Correlates of Reference Memory in a Time Discrimination Task: An ERP and ERD/ERS Study**  
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*University of Padova*
- 110. Mothers' EEG Activity During Babies' Crying and Nursing**  
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<sup>1</sup>*National Autonomous University of Mexico*,  
<sup>2</sup>*Neuroscience Institute, University of Guadalajara*
- 111. Qualitative and Quantitative EEG Abnormalities in Alcohol Dependence Violent Offenders**  
Ana Calzada-Reyes<sup>1</sup> & Alfredo Alvarez-Amador<sup>2</sup>  
<sup>1</sup>*Legal Medicine Institute*, <sup>2</sup>*Cuban Neuroscience Center*
- 112. Frontal Alpha and Beta EEG Power Asymmetry and Iowa Gambling Task Performance**  
Richard T. Amoss & Michael J. Owren  
*Georgia State University*
- 114. Prediction of Transition to Schizophrenia in At-Risk Individuals Based on EEG Spectral Power and Negative Symptoms**  
Ronan Zimmermann<sup>1</sup>, Ute Gschwandtner<sup>1</sup>, Frank H. Wilhelm<sup>2</sup>, Marlon O. Pflueger<sup>1</sup>, Anita Riecher-Rössler<sup>1</sup>, & Peter Fuhr<sup>1</sup>  
<sup>1</sup>*University Hospital Basel*, <sup>2</sup>*University of Basel*
- 115. Implicit Processing of Facial Features: Evidence from Human Electrophysiology**  
Irene Leo<sup>1</sup>, Michela Sarlo<sup>1</sup>, & Francesca Pesciarelli<sup>2</sup>  
<sup>1</sup>*University of Padova*, <sup>2</sup>*University of Modena*
- 116. How Learning Type and Reward Modulate the ERP Correlates of Error Processing**  
Nicola K. Ferdinand & Axel Mecklinger  
*Saarland University*
- 117. The Functional Significance of the Parietal Oddball N2 Obtained in Auditory Experiments**  
János Horváth  
*Institute of Psychology, Hungarian Academy of Sciences*

**118. Wavelet-Based EOG Artifact Correction of EEG**

Benoit Décarie<sup>1</sup>, Philippe Robaey<sup>1</sup>, & Jean-Marc Lina<sup>2</sup>  
<sup>1</sup>*Children's Hospital of Eastern Ontario*, <sup>2</sup>*Ecole de technologie supérieure*

**119. EEG Investigation of Spatial Creative Thinking Components**

Zhanna V. Nagornova  
*Institute of the Human Brain of the Russian Academy of Sciences*

**120. The N200 is Sensitive to Concealed Information and Adds to the Detection Efficiency of Skin Conductance Responses**

Matthias Gamer<sup>1</sup> & Stefan Berti<sup>2</sup>  
<sup>1</sup>*University Medical Center Hamburg-Eppendorf*,  
<sup>2</sup>*University of Mainz*

**121. Electrophysiological Correlates of Directed Attention to Face Features**

Joseph P. McCleery<sup>1</sup>, Chandni Singh<sup>2</sup>, Gillian Petrozziello<sup>2</sup>, & Charles A. Nelson<sup>1</sup>  
<sup>1</sup>*Harvard Medical School*, <sup>2</sup>*Children's Hospital Boston*

**122. Brain Potentials Elicited by Garden-Path Arithmetic Expressions**

Nai-yi Wang<sup>1</sup> & Yue-jia Luo<sup>2</sup>  
<sup>1</sup>*Capital Institute of Basic Education Research, Beijing Normal University*, <sup>2</sup>*National Key Lab of Cognitive Neuroscience and Learning, Beijing Normal University*

**123. Temporal Modulation of N1 Visual Component in a Stroop Matching Task**

Isabel A. David<sup>1</sup>, Eliane Volchan<sup>1</sup>, Jaime Vila<sup>2</sup>, Aydamari Faria-Jr.<sup>3</sup>, Pandelis Perakakis<sup>2</sup>, Leticia Oliveira<sup>4</sup>, Mirtes G. Pereira<sup>4</sup>, & Walter Machado-Pinheiro<sup>4</sup>  
<sup>1</sup>*Federal University of Rio de Janeiro*, <sup>2</sup>*University of Granada*, <sup>3</sup>*Universidade Federal do Amapá*, <sup>4</sup>*Fluminense Federal University*

**124. The Influence of Performance Feedback in Blindsight—An ERP Study**

Jessica Sanger & Petra Stoerig  
*Heinrich-Heine-University of Duesseldorf*



**125. ERP-P3 for Pictures Varies in Amplitude According to Stimulus Content**

Aki Akamine<sup>1</sup> & Mitsuro Kida<sup>2</sup>

<sup>1</sup>Nagoya University of Arts and Sciences, <sup>2</sup>Aichi Gakuin University

**126. Influence of Arousal State on Movement-Related Brain Activity**

Marta Bortoletto, Marianna Lemonis, & Ross Cunnington

*School of Psychology and Queensland Brain Institute, University of Queensland*

**127. ACC Theta Oscillation and the Feedback-ERN**

Bai Yu & Ohira Hdeki

*Nagoya University*

**128. Response Activation and Inhibition in Choice Responses: A Laplacian ERP Analysis**

Maria C. van de Laar<sup>1</sup>, Wery P. M. van den

Wildenberg<sup>1</sup>, Geert J. M. van Boxtel<sup>2</sup>, & Maurits W. van der Molen<sup>1</sup>

<sup>1</sup>University of Amsterdam, <sup>2</sup>University of Tilburg

**129. The Influence of Trait Anger, Cortisol, and Aggression Resting Cortical Activity**

Katja Bertsch<sup>1</sup>, Judith Trenz<sup>1</sup>, Robina Khan<sup>1</sup>, Menno R. Kruk<sup>2</sup>, Steffen Richter<sup>3</sup>, & Ewald Naumann<sup>1</sup>

<sup>1</sup>University of Trier, <sup>2</sup>Leiden University, <sup>3</sup>Institute of Psychobiology, University of Trier

**130. The Use of High Resolution EEG Techniques to Improve the Estimation of Cortical Activity and Connectivity**

Craig Tenke

*New York State Psychiatric Institute*

**131. What Do We Measure—Creativity or Task Complexity?**

Natalia V. Shemyakina, Zhanna V. Nagornova, & Sergey G. Danko

*Institute of the Human Brain of the Russian Academy of Sciences*

- 133. Continuous Rating and Psychophysiological Monitoring of Experienced Affect While Watching Emotional Film Clips**  
Robert Schleicher<sup>1</sup> & Niels Galley<sup>2</sup>  
<sup>1</sup>*Deutsche Telekom Laboratories, Berlin*, <sup>2</sup>*University of Cologne*
- 134. Personality, Emotion, Feelings & Physiology: How Personality Moderates the Effect of Emotion Induction on Physiology and Feelings**  
Corinna E. Bonhage, Christin Burgdorf, & Gerhard Stemmler  
*University of Marburg*
- 135. Emotions in Motion: The Perception of Dynamic and Static Emotional Facial Expressions Investigated by ERPs and fMRI Constrained Source Analysis Reveal Different Spatio-Temporal Neural Networks**  
Sina A. Trautmann<sup>1</sup>, Judith Domínguez-Borràs<sup>2</sup>, Carles Escera<sup>2</sup>, Thorsten Fehr<sup>1</sup>, & Manfred Herrmann<sup>1</sup>  
<sup>1</sup>*University of Bremen*, <sup>2</sup>*University of Barcelona*
- 136. Cigarette Smoking Reduces Negative Affect in Adolescent Smokers: Concordance Across Self-Report and Psychophysiological Measures**  
Jennifer C. Veilleux, Jon D. Kassel, Margaret C. Wardle, Adrienne J. Heinz, Justin Greenstein, Daniel P. Evatt, Ashley Braun, Linda Roesch, Eisuke Segawa, & Michael L. Berbaum  
*University of Illinois, Chicago*
- 137. The Closed Circle of Empathy: Observing Outgroups Does Not Result in Sensorimotor MU Suppression**  
Jennifer N. Gutsell & Michael Inzlicht  
*University of Toronto*
- 138. Emotions in Voice and Music: Same Code, Same Effect?**  
Nicolas Escoffier, Jidan Zhong, Anqi Qui, & Annett Schirmer  
*National University of Singapore*

- 139. Effects of Completely Predictable and Unpredictable Aversive Stimuli on Startle Responses**  
Brady D. Nelson & Stewart A. Shankman  
*University of Illinois, Chicago*
- 140. Emotion Regulation and the Chronometry of Emotion-Evoked Zygomaticus Major Activity Patterns**  
Ashley Warren & Keith W. Burton  
*University of Illinois, Springfield*
- 141. Subliminal Exposure to Biologically Relevant Stimuli on Affective and Physiological States**  
Pedro J. Rosa<sup>1,2</sup>, Patrícia Arriaga<sup>2</sup>, & Francisco Esteves<sup>2</sup>  
<sup>1</sup>*Universidade Lusófona de Humanidades e Tecnologias,*  
<sup>2</sup>*Instituto Superior de Ciências do Trabalho e da Empresa (ISCTE)*
- 142. Psychophysiological Mediation Effects of Emotional Faces Impact in Time Perception**  
Alexandre C. Fernandes & Teresa Garcia-Marques  
*Instituto Superior de Psicologia Aplicada*
- 143. Unconscious Affect and Economics Behavior: fMRI Evidence for Stronger Subliminal Than Supraliminal Affective Priming Effects on Financial Choices**  
Julie L. Hall<sup>1</sup>, Richard Gonzalez<sup>1</sup>, Chandra Sripada<sup>1</sup>, & Oliver C. Schultheiss<sup>2</sup>  
<sup>1</sup>*University of Michigan,* <sup>2</sup>*Friedrich-Alexander University of Erlangen*
- 144. The Relationship Between Cortisol Concentration, Anxiety and Rock Climbing Motor Performance**  
Christopher I. Hodgson<sup>1</sup>, Claire West<sup>1</sup>, Terry McMorris<sup>1</sup>, Ian Coleman<sup>1</sup>, & Nick Draper<sup>2</sup>  
<sup>1</sup>*University of Chichester,* <sup>2</sup>*University of Canterbury*
- 145. Amygdala Activation to Fearful Faces Under Attentional Load**  
Martin Mothes-Lasch, Wolfgang H. R. Miltner, & Thomas Straube  
*Friedrich Schiller University of Jena*
- 146. Acute Social Stress Modulates Passive But Not Motivated Visual Attention—A MEG Study**  
Ludger Elling, Janine Bayer, & Markus Junghoefer  
*University of Münster*

- 147. Engaging in a Cognitive Task Inhibits Negative Emotion**  
Saea Iida & Hideki Ohira  
*Nagoya University*
- 148. The Heart of the Music: Musical Tempo and Cardiac Response**  
Robert J. Ellis, John J. Sollers III, Bradley M. Havelka, & Julian F. Thayer  
*Ohio State University*
- 149. Emotional and Psychophysiological Responses to Food Stimuli**  
Isabel Santos<sup>1</sup>, Américo Baptista<sup>1</sup>, & Francisco Esteves<sup>2</sup>  
<sup>1</sup>*Universidade Lusófona de Humanidades e Tecnologias,*  
<sup>2</sup>*Instituto Superior de Ciências do Trabalho e da Empresa (ISCTE)*
- 150. Visual Scanpaths and Pupil Responses Triggered by Emotional Facial Expressions are Differentially Affected by Task Demands**  
Elisa Scheller<sup>1</sup> & Matthias Gamer<sup>2</sup>  
<sup>1</sup>*University of Mainz,* <sup>2</sup>*University Medical Center Hamburg-Eppendorf*
- 151. Emotional Behavior in Subclinical Psychopathy**  
Kristen L. Godenick & Paul E. Haerich  
*Loma Linda University*
- 152. Cardiovascular and EEG Indicators of Anger and Control/No Control States**  
Elena Spiridon & Stephen H. Fairclough  
*Liverpool John Moores University*
- 153. Effects of Nicotine and Bupropion on P3-Indexed Distraction by Affective and Smoking-Related Pictures**  
David G. Gilbert, Chihiro Sugai, Swetha Murali, & Elizabeth Kreke  
*Southern Illinois University Carbondale*

**154. Attentional Redeployment as an Effective Emotion Regulation Strategy in Depression**

Martin J. Herrmann<sup>1</sup>, Maike Georgs<sup>2</sup>, Andreas Mühlberger<sup>3</sup>, Alexandra Rebhan<sup>2</sup>, Paul Pauli<sup>3</sup>, & Andreas J. Fallgatter<sup>1</sup>

<sup>1</sup>University of Würzburg, Clinic for Psychiatry, Psychosomatics and Psychotherapy, <sup>2</sup>University of Würzburg, <sup>3</sup>University of Würzburg, Institute of Psychology

**155. Sleep Deprivation Potentiates Physiological Reactivity to Negative Affective Stimuli in Healthy Young Adults**

Peter L. Franzen, Daniel J. Buysse, Denise N. Duryea, Annette Wood, & Greg J. Siegle  
University of Pittsburgh

**156. Attentional Resources and Negativity Bias**

Yu-Xia Huang & Yue-Jia Luo  
Beijing Normal University

**157. Decision-Making in the Ultimatum and Dictator Games**

Johannes Hewig<sup>1</sup>, Nora Kretschmer<sup>1</sup>, Ralf H. Trippe<sup>1</sup>, Holger Hecht<sup>1</sup>, Michael G. H. Coles<sup>2</sup>, Clay B. Holroyd<sup>3</sup>, & Wolfgang H. R. Miltner<sup>1</sup>

<sup>1</sup>Friedrich Schiller University of Jena, <sup>2</sup>FC Donders Centre for Cognitive Neuroimaging (FCDC), <sup>3</sup>University of Victoria

**158. Emotional Processing and Autonomic Responses in Patients with Autonomic Hyperactivity**

Satoshi Umeda<sup>1,2,3</sup>, Neil A. Harrison<sup>4,5</sup>, Marcus A. Gray<sup>5</sup>, Christopher J. Mathias<sup>3,6</sup>, & Hugo D. Critchley<sup>5</sup>

<sup>1</sup>Keio University, <sup>2</sup>Institute of Cognitive Neuroscience, University College London, <sup>3</sup>Autonomic Unit, National Hospital for Neurology and Neurosurgery, University College London, <sup>4</sup>Institute of Cognitive Neuroscience, University College London, <sup>5</sup>Brighton and Sussex Medical School, University of Sussex, <sup>6</sup>Neurovascular Medicine Unit, Imperial College London at St Mary's Hospital

**159. Affectively-Modulated Startle Reflex Patterns are Influenced by Use of Hormonal Oral Contraception**

Keith W. Burton, Lindsey Kucera, Jeanine Sellman, Dawn Tompkins, Sarah Wolsfeld, & Ashley Warren  
University of Illinois, Springfield

**160. Occupational Exposure to a Conductive Energy Device: Effects on Cardiovascular Parameters**

Kirsten M. VanMeenen<sup>1</sup>, Michael T. Bergen<sup>1,2</sup>, Neil S. Cherniack<sup>1</sup>, & Richard J. Servatius<sup>1,2</sup>

<sup>1</sup>*University of Medicine & Dentistry of New Jersey-New Jersey Medical School (UMDNJ-NJMS)* <sup>2</sup>*Department of Veterans Affairs New Jersey Health Care System (VA-NJHCS)*

**161. Interoceptive Sensitivity Modulates Implicit Memory of Emotional Words**

Natalie S. Werner, Isabella Peres, & Rainer Schandry  
*Ludwig Maximilian University of Munich*

**162. A Novel Paradigm for Examining Adolescents' Neural Response to Parents' Affect**

Erika E. Forbes<sup>1</sup>, Lisa B. Sheeber<sup>2</sup>, & Nicholas B. Allen<sup>3</sup>

<sup>1</sup>*University of Pittsburgh*, <sup>2</sup>*Oregon Research Institute*,  
<sup>3</sup>*University of Melbourne*

**163. Abberant Social and Cerebral Responding in a Competitive Reaction Time Paradigm in Psychopaths**

Martin Lotze<sup>1</sup>, Ralf Veit<sup>2</sup>, Sven Sewing<sup>2</sup>, H. Missenhardt<sup>3</sup>, Tilmann Gaber<sup>2</sup>, & Niels Birbaumer<sup>2</sup>

<sup>1</sup>*Functional Imaging Unit, Center for Diagnostic Radiology and Neuroradiology, University of Greifswald*,  
<sup>2</sup>*Institute of Medical Psychology and Behavioral Neurobiology, University of Tübingen*, <sup>3</sup>*Center of Psychiatry, Bad Schussenried*

**164. Anxiety's Double-Edge: A MEG Study**

Brian R. Cornwell, Sven Mueller, Raphael Kaplan, Christian Grillon, & Monique Ernst  
*National Institutes of Mental Health*

**165. Asymmetries of Emotional Perception in Women with History of Depression**

Gina M. Grimshaw, Amy Walsh, Matt Crawford, & Kathryn Campbell  
*Victoria University of Wellington*

**166. Evidence for Sex Differences in Cerebral Laterality: Examining Changes in Systolic Blood Pressure Regulation and Time Estimation Before and After Exposure to a Cognitive Stressor**

Alissa K. Holland<sup>1</sup>, Joseph E. Carmona<sup>2</sup>, David W. Harrison<sup>2</sup>, Brooke T. Hunter<sup>1</sup>, Leah S. Leak<sup>1</sup>, Caroline Nunnery<sup>1</sup>, & Terri Polenski<sup>1</sup>

<sup>1</sup>University of South Carolina, Lancaster, <sup>2</sup>Virginia Polytechnic Institute and State University

**167. The Effects of Facial Feedback on Spontaneous Eyeblinking While Receiving Pleasant-Unpleasant Visual Stimuli**

Yasuko Omori & Yukiko Tatsuhiro

*Jin-ai University*

**168. Affective Modulation of Startle Eye-Blink to Emotional Pictures of Varying Arousal Level in Borderline Personality Disorder Patients With and Without Comorbid Substance Use and Controls**

Joseph S. Baschnagel<sup>1</sup>, Scott F. Coffey<sup>2</sup>, Larry W. Hawk, Jr.<sup>3</sup>, & Julie A. Schumacher<sup>2</sup>

<sup>1</sup>Rochester Institute of Technology, <sup>2</sup>University of Mississippi Medical Center, <sup>3</sup>University at Buffalo

**169. Emotional Modulation in Psychophysiological Disorders**

Alfonso Salgado<sup>1</sup> & Almudena Duque<sup>2</sup>

<sup>1</sup>Pontificia University of Salamanca, <sup>2</sup>Complutense University of Madrid

**170. Automatic and Controlled Processing in Stress Disorders**

Almudena Duque<sup>1</sup> & Alfonso Salgado<sup>2</sup>

<sup>1</sup>Complutense University of Madrid, <sup>2</sup>Pontificia University of Salamanca

**171. Voice Parameters, Heart Rate Changes, and Skin Conductance Responses in Animal Fear**

Anders Flykt<sup>1</sup>, Tanja Bänziger<sup>1,2</sup>, & Sofie Lindeberg<sup>1</sup>

<sup>1</sup>University of Gävle, <sup>2</sup>University of Geneva

**172. Heart Rate Variability Changes at Computer Simulation of Aggressive Environment**

Lusineh Stepanyan, Anna Stepanyan, & Vilena Grigoryan

*Yerevan State University*

- 173. Magnetocortical Correlates of the Affect Modulated LPP**  
Stephan Moratti<sup>1</sup>, Cristina Saugar<sup>2</sup>, & Francisco del-Pozo<sup>1</sup>  
<sup>1</sup>*Polytechnic University of Madrid*, <sup>2</sup>*Complutense University of Madrid*
- 174. Reduced Preferential Processing of Emotional Stimuli Following Emotion-Mediated Response Conflict**  
Marco Steinhauser, Tobias Flaisch, & Harald Schupp  
*University of Konstanz*
- 175. Learning to Fear Others Through Pavlovian Conditioning and Social Punishment**  
Andreas Olsson, Daniel Fürth, Madlen Derbsch, Evelyn Andersson, Armita Golkar, Tina Lonsdorf, & Arne Öhman  
*Karolinska Institute*
- 176. The Valence of Emotional Animal Vocalizations Modulates Electrophysiological Correlates of the Human Orienting Response**  
Anna S. Hasting<sup>1</sup>, Marina Scheumann<sup>2</sup>, Elke Zimmermann<sup>2</sup>, & Sonja A. Kotz<sup>1</sup>  
<sup>1</sup>*Max Planck Institute for Human Cognitive and Brain Sciences*, <sup>2</sup>*University of Veterinary Medicine, Institute for Zoology, Hannover*
- 177. The Role of Alexithymia in Moderating Rapid Facial Responses to Facial Emotions**  
Yong Peng Why & Denise LiJuan Liu  
*National University of Singapore*
- 178. Frontal EEG Asymmetry in Initial Response to Affective Pictures is Associated with Sustained Negative Affect**  
Christine L. Larson & Jordan S. Robinson  
*University of Wisconsin, Milwaukee*
- 179. Differences in the Central Processing and Voluntary Regulation of Emotions in Alexithymia—An EEG Study**  
Olga Pollatos  
*Ludwig Maximilian University of Munich*
- 180. Alexithymia, Peripheral Reactivity and Emotion Regulation During a Social Stress Task**  
Ellen Matthias  
*Ludwig Maximilian University of Munich*



- 181. Automatic Processing of Phonotactically Ill-Formed Syllables Indexed by Mismatch Negativity (MMN)**  
Johanna Steinberg<sup>1</sup>, Hubert Truckenbrodt<sup>2</sup>, & Thomas Jacobsen<sup>1</sup>  
<sup>1</sup>University of Leipzig, <sup>2</sup>Centre for General Linguistics (ZAS)
- 182. Failure in Phonological Monitoring? ERP Evidence of Late, Rather Than Early, Differences Between Dyslexic and Control Readers' Phonological Task Response**  
Nicola Savill & Guillaume Thierry  
*Bangor University*
- 183. Semantic Violations and Animacy Violations Elicit Different Brain Responses**  
Jakub Szewczyk<sup>1</sup> & Herbert Schriefers<sup>2</sup>  
<sup>1</sup>Jagiellonian University, <sup>2</sup>Radboud University Nijmegen
- 184. Electrophysiological Markers of Bottom-Up and Top-Down Influences on Temporal Order Perception in Speech**  
Shin-Yi Fang & James S. Magnuson  
*University of Connecticut & Haskins Laboratories*
- 185. Electrocortical Signature of Emotion Verb Processing**  
Javier Rodríguez-Ferreiro<sup>1</sup>, Brendan Weekes<sup>2</sup>, Robert Davies<sup>3</sup>, & Fernando Cuetos<sup>1</sup>  
<sup>1</sup>University of Oviedo, <sup>2</sup>University of Sussex, <sup>3</sup>Oxford Brookes University
- 186. Multiple Variables in Picture Naming Studied Using Parametric MEG Analysis**  
Olaf Hauk<sup>1</sup>, Friedemann Pulvermüller<sup>1</sup>, & Michele Miozzo<sup>2</sup>  
<sup>1</sup>MRC Cognition and Brain Sciences Unit, University of Cambridge, <sup>2</sup>University of Cambridge
- 187. Listening to Relaxing Music Prior to a Social Stressor: Effects on the Psychological and Physiological Stress Response**  
Mirjam V. Thoma, Ulrike Ehlert, & Urs M. Nater  
*University of Zurich*
- 188. Interaction Between the Task and the Background: A Visual Mismatch Negativity Study**  
István Czigler & István Sulykos

**Poster Session II**  
**Thursday, October 22, 2009**

*Poster Session Schedule*

8:00 A.M.—10:00 A.M.	Posters Assembled
10:00 A.M.—6:00 P.M.	Posters Available for Viewing
6:00 P.M.—8:00 P.M.	Authors Present for Discussion and Questions
8:00 P.M.—9:00 P.M.	Dismantle Posters

**1. Electrocortical Correlates of Intra-Subject Variability of Reaction Times**

Chris W. N. Saville, David Daley, James Intriligator,  
Stephan Boehm, & Christoph Klein  
*Bangor University*

**2. Enabling Communication in Completely Paralyzed by Semantic Classical Conditioning: A Pilot Study**

Adrian Furdea<sup>1</sup>, Carolin Ruf<sup>1</sup>, Armin Walter<sup>1</sup>, Dimitria Paganía<sup>1</sup>, Tamara Matuz<sup>1</sup>, Jeremy Hill<sup>2</sup>, Femke Nijboer<sup>3</sup>, Christoph Braun<sup>1</sup>, Boris Kotchoubey<sup>1</sup>, & Niels Birbaumer<sup>1</sup>

<sup>1</sup>*University of Tübingen*, <sup>2</sup>*Max Plank Institute for Biological Cybernetics*, <sup>3</sup>*Fatronic—Tecnalia*

**3. Mapping the Cortical Hubs in the Tinnitus Distress Network**

Winfried Schlee, Nadia Müller, Thomas Hartmann,  
Julian Keil, Isabel Lorenz, & Nathan Weisz  
*University of Konstanz*

**4. An MRI-DTI Study of Monozygotic Twins Discordant for Obsessive-Compulsive Symptoms**

Anouk den Braber<sup>1</sup>, Dennis van 't Ent<sup>1</sup>, Daniëlle C. Cath<sup>2</sup>, Dorret I. Boomsma<sup>1</sup>, Marina Barysheva<sup>3</sup>, Agatha D. Lee<sup>3</sup>, Lara C. Foland-Ross<sup>3</sup>, Jason L. Stein<sup>3</sup>, Paul M. Thompson<sup>3</sup>, & Eco J. C. de Geus<sup>1</sup>

<sup>1</sup>*Vrije University—Amsterdam*, <sup>2</sup>*Utrecht University*,

<sup>3</sup>*University of California, Los Angeles, School of Medicine*

**5. Temporal Changes in Brain Activity Elicited by Conditioned and Unconditioned Stimuli in an Associative Learning Paradigm**

Noemí Sánchez-Nácher<sup>1</sup>, Carolina Sitges<sup>1</sup>, Miguel Ángel Muñoz<sup>1,2</sup>, Ignacio Cifre<sup>1,3</sup>, Jose Javier Campos-Bueno<sup>4</sup>, & Pedro Montoya<sup>1</sup>

<sup>1</sup>*University of Balearic Islands*, <sup>2</sup>*University of Granada*,

<sup>3</sup>*University of Barcelona*, <sup>4</sup>*Complutense University*

- 6. Induced Gamma Band Responses: Neuronal Origin or Eye Movement Artefact?**  
Uwe Hassler & Thomas Gruber  
*University of Osnabrück*
- 7. Encoding of Multiple Time Scales of Acoustic Regularities as a Function of Expectancy as Revealed by Human Evoked Potentials**  
Jordi Costa-Faidella, Sabine Grimm, Francisco Díaz-Santaella, Lavinia Slabu, & Carles Escera  
*University of Barcelona*
- 8. Age-Related Decline in the Dimensionality of Error-Related EEG Activity: An Independent Component Analysis**  
Sven Hoffmann & Michael Falkenstein  
*Leibniz Research Centre for Working Environment and Human Factors*
- 9. Executive Functions and Control of Aggression: An ERP Study**  
Robert P. J. Kopyciok<sup>1</sup>, Ulrike M. Krämer<sup>1,2</sup>, Sylvia Richter<sup>1</sup>, & Thomas F. Münte<sup>1</sup>  
<sup>1</sup>*Otto-von-Guericke University of Magdeburg*, <sup>2</sup>*University of California, Berkeley*
- 10. Imagining the Unknown: ERP Investigations of Semantic Knowledge Effects and the Time Course of Visual Imagery**  
Johannes Rost & Rasha Abdel Rahman  
*Humboldt University, Berlin*
- 11. On the Neural Correlates of Eye Gaze Adaptation**  
Nadine Kloth & Stefan R. Schweinberger  
*Friedrich Schiller University of Jena*
- 12. Alcohol Dose Effects on Fear Conditioning with Varying Levels of Threat Intensity**  
Christine A. Moberg, Stefanie M. Weber, Jason N. Jaber, Allison M. Grant, & John J. Curtin  
*University of Wisconsin, Madison*
- 13. Psychophysiological Variables as Predictors of Treatment Outcome for Anxiety Disorders**  
Marlen Figueroa-Varela, Angela J. Muñoz, Sonia Rodríguez-Ruiz, Blanca Ortega-Roldán, Clara Homar, Ana I. Pérez, Sandra Díaz, & Jaime Vila  
*University of Granada*

- 14. Source Estimation of the N2, ERN, and fERN in a Tactile Time-Estimation Task**  
Theo O. J. Gründler<sup>1</sup>, Markus Ullsperger<sup>1</sup>, Christo Pantev<sup>2</sup>, & René J. Huster<sup>2</sup>  
<sup>1</sup>Max Planck Institute for Neurological Research,  
<sup>2</sup>Institute for Biomagnetism and Biosignalanalysis,  
University of Münster
- 15. Error-Related Negativity Predicts Academic Performance**  
Jacob B. Hirsh & Michael Inzlicht  
University of Toronto
- 16. What Causes the Errorless Learning Benefit? Evidence from Feedback-Related Brain Activity**  
Benjamin J. G. Ernst & Marco Steinhauser  
University of Konstanz
- 17. When Hyper Becomes Hypo: Panic Disorder and Amygdala Activation to Masked Stimuli**  
Cristina Ottaviani, Valeria Nucifora, Daniela Cevolani, Raffaele Agati, Rosita Borlimi, Gianni Brighetti, & Marco Leonardi  
University of Bologna
- 18. Tactile Capture of Auditory Localization: An Event-Related Potential Study**  
Patrick Bruns & Brigitte Röder  
University of Hamburg
- 19. Amygdala-Dependent Associative Learning in Humans is Modulated by the BDNFVAL66MET Polymorphism**  
Tina B. Lonsdorf<sup>1</sup>, Almut I. Weike<sup>2</sup>, Armita Golkar<sup>1</sup>, Martin Schalling<sup>1</sup>, Alfons O. Hamm<sup>2</sup>, & Arne Ohman<sup>1</sup>  
<sup>1</sup>Karolinska Institute, <sup>2</sup>University of Greifswald
- 20. Oxytocin Buffers Cortisol Responses to Stress in Individuals with Impaired Coping Abilities**  
Rainer Duesing, Markus Quirin, & Julius Kuhl  
University of Osnabrück
- 21. The Perception of HIV Risk: An ERP Analysis of Intuitive Processes**  
Ralf Schmäzle, Britta Renner, & Harald Schupp  
University of Konstanz

- 22. Effect of Different Forms of Contingency Awareness on Subjective, Electrodermal, and Neural Correlates of Fear Conditioning**  
Christian J. Merz<sup>1,2</sup>, Katharina Tabbert<sup>2</sup>, Dieter Vaitl<sup>2</sup>, Rudolf Stark<sup>2</sup>, & Oliver T. Wolf<sup>2</sup>  
<sup>1</sup>Ruhr-University Bochum, <sup>2</sup>Bender Institute of Neuroimaging, University of Giessen, <sup>3</sup>Ruhr-University Bochum
- 23. Does Baro-Afferent Feedback Respond to Processes of Classical Conditioning?**  
Thomas M. Schilling, André Schulz, Anna M. Stertz, Nadine Jutz, Rebecca Schierbaum, Stefanie Schmitt, & Hartmut Schächinger  
University of Trier
- 24. Happy End: The Offset of Angry Facial Expressions Activates the Human Reward System**  
Matthias J. Wieser, Andreas Mühlberger, Antje B. M. Gerdes, Monika C. M. Frey, Peter Weyers, & Paul Pauli  
University of Würzburg
- 25. Alcohol Intoxication: Selective Reduction of Anxiety in the Face of Uncertain Threat**  
Kathryn R. Hefner, Jason N. Jaber, Allison M. Grant, & John J. Curtin  
University of Wisconsin, Madison
- 26. Cardiac Reactions to Psychological Stress: The Influence of Vagal Tone and Social Support**  
Gabriela G. L. Souza<sup>1</sup>, Pandelis Perakakis<sup>2</sup>, Pedro Guerra<sup>2</sup>, Jose Luis Mata<sup>2</sup>, Evandro F. S. Coutinho<sup>3</sup>, Ivan Figueira<sup>1</sup>, Jaime Vila<sup>2</sup>, & Eliane Volchan<sup>1</sup>  
<sup>1</sup>Federal University of Rio de Janeiro, <sup>2</sup>University of Granada, <sup>3</sup>Oswaldo Cruz Foundation
- 27. Decreased Pre-Motor Volume in Victims of Urban Violence with PTSD**  
Vanessa Rocha-Rego<sup>1</sup>, Mirtes G. Pereira<sup>2</sup>, Mateus Joffily<sup>1</sup>, Leticia Oliveira<sup>2</sup>, Adriana Fizman<sup>1</sup>, Carla Marques-Portella<sup>1</sup>, Mauro Mendlowicz<sup>2</sup>, Ivan Figueira<sup>1</sup>, & Eliane Volchan<sup>1</sup>  
<sup>1</sup>Federal University of Rio de Janeiro, <sup>2</sup>Fluminense Federal University

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- 28. Asymmetrical Frontal Cortical Activity, Commitment to Action, and Resistance to Persuasion**  
Raymond N. Serra, Philip A. Gable, & Eddie Harmon-Jones  
*Texas A&M University*
- 29. Sympathy Modulates N170 Response to Fear vs. Neutral Facial Expressions**  
Laura C. Gravens, Philip A. Gable, & Eddie Harmon-Jones  
*Texas A&M University*
- 30. Asymmetrical Frontal Late Positive Potential (LPP) Relates to Local vs. Global Attentional Precedence Following Desire vs. Sadness Primes**  
Philip A. Gable & Eddie Harmon-Jones  
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- 31. PTSD and Immobility: A Posturographic Study**  
Camila M. Franklin, Carlos E. Norte, Billy E. M. Nascimento, Willian Berger, Adriana Fiszman, Ana Carolina F. Mendonça-de-Souza, Gabriela G. L. Souza, Ivan Figueira, & Eliane Volchan  
*Federal University of Rio de Janeiro*
- 32. Looking for a Cardiac Marker of Peritraumatic Tonic Immobility in PTSD**  
Carlos E. Norte, Gabriela G. L. Souza, Camila M. Franklin, Alessandra A. Lima, Carla Marques-Portella, Ivan Figueira, & Eliane Volchan  
*Federal University of Rio de Janeiro*
- 33. Cortisol Correlates with Tonic Immobility Symptoms as a Response to Life Threatening Situations in Healthy Subjects**  
Thaís M. Gameiro<sup>1</sup>, Ana Carolina F. Mendonça-de-Souza<sup>1</sup>, Nastassja L. Fischer<sup>1</sup>, Camila M. Franklin<sup>1</sup>, Gabriela G. L. Souza<sup>1</sup>, Evandro S. F. Coutinho<sup>2</sup>, Ivan Figueira<sup>1</sup>, & Eliane Volchan<sup>1</sup>  
<sup>1</sup>*Federal University of Rio de Janeiro*, <sup>2</sup>*Oswaldo Cruz Foundation*

- 34. Resilience and Humanitarianism Impact on Morning Secretion of Cortisol and DHEA in Peacekeepers**  
Nastassja L. Fischer<sup>1</sup>, Ana Carolina F. Mendonça-de-Souza<sup>1</sup>, Wanderson F. Souza<sup>2</sup>, Thaís M. Gameiro<sup>1</sup>, Antonio Fernando A. Duarte<sup>3</sup>, Evandro S. F. Coutinho<sup>2</sup>, Ivan Figueira<sup>1</sup>, & Eliane Volchan<sup>1</sup>  
<sup>1</sup>Federal University of Rio de Janeiro, <sup>2</sup>Oswaldo Cruz Foundation, <sup>3</sup>Physical Research Institute of Brazilian Army
- 35. The Late Positive Potential as a Biomarker for Anxiety-Related Attentional Biases**  
Jennifer M. DeCicco-Augello<sup>1</sup>, Melanie Hong<sup>2</sup>, Daniel Otap<sup>2</sup>, Greg Hajcak<sup>3</sup>, George Bonnano<sup>4</sup>, & Tracy A. Dennis<sup>2</sup>  
<sup>1</sup>The Graduate Center, The City University of New York, <sup>2</sup>Hunter College, The City University of New York, <sup>3</sup>Stony Brook University, <sup>4</sup>Teachers College, Columbia University
- 36. Changes in the Late Positive Potential Predict Attention Training Effects on the Threat Bias**  
Laura O'Toole<sup>1</sup>, Meg Reuland<sup>2</sup>, Kai Monde<sup>1</sup>, Andrey Syroyezhkin<sup>3</sup>, & Tracy Dennis<sup>3</sup>  
<sup>1</sup>The Graduate Center, The City University of New York, <sup>2</sup>Teachers College, Columbia University, <sup>3</sup>Hunter College, The City University of New York
- 37. The Late Positive Potential as a Biomarker for Gender Differences in Affective Processing Related to Emotion Regulation**  
Melanie Hong<sup>1</sup>, Jennifer DeCicco-Augello<sup>2</sup>, Emily Haroz<sup>3</sup>, & Tracy A. Dennis<sup>1</sup>  
<sup>1</sup>Hunter College, The City University of New York, <sup>2</sup>The Graduate Center, The City University of New York, <sup>3</sup>Teachers College, Columbia University
- 38. . . . And They All Lived Happily Ever After: Factors Influencing Recovery from Negative Emotion in Young Children**  
Jennifer A. DiCorcia & Heather L. Urry  
Tufts University

**39. Extending the Scope of Social Neuroscience to Explore the Relationship Between Vagal Tone and Event-Related Potentials in Response to an Affective Picture Task**

Michele Dufey<sup>1</sup>, Ana M. Fernandez<sup>1</sup>, Esteban Hurtado<sup>1</sup>, & Agustin M. Ibanez<sup>2</sup>

<sup>1</sup>Universidad Diego Portales, <sup>2</sup>Universidad Diego Portales, Chile/Institute of Cognitive Neurology (INECO-CONICET)

**40. ERPs of Emotional Processing in Schizophrenia: N170 Evidence of Structural Processing and Emotional Discrimination Deficits in Probands and First Degree Relatives from Multiplex Schizophrenia Families**

Esteban Hurtado<sup>1</sup>, Migdyrai Martin Reyes<sup>2</sup>, Rodrigo Riveros<sup>1</sup>, Alvaro Navarro<sup>1</sup>, Josefina Escobar<sup>3</sup>, Viviana Vergara<sup>4</sup>, Sofia Cereceda<sup>1</sup>, Isabel Pizarro<sup>1</sup>, Valeria Valdivia<sup>1</sup>, & Agustin Ibanez<sup>5</sup>

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<sup>4</sup>Universidad Diego Portales/Universidad de Valparaíso,

<sup>5</sup>Universidad Diego Portales/Institute of Cognitive Neurology (INECO-CONICET)

**41. Expected Value Modulates Feedback Correct-Related Positivity: An ERP Study on Cognitive Processing of Monetary Gains and Losses**

Rene San Martin<sup>1</sup>, Esteban Hurtado<sup>2</sup>, Fernando Sandoval<sup>2</sup>, Alvaro Navarro<sup>2</sup>, Pablo Isla<sup>3</sup>, Facundo Manes<sup>4</sup>, & Agustin Ibanez<sup>5</sup>

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(INECO), <sup>5</sup>Universidad Diego Portales/Institute of Cognitive Neurology (INECO-CONICET)

**42. Gesture Influences the Processing of Figurative Language in Non-Native Speakers: ERP Evidence**

Agustin M. Ibanez<sup>1</sup>, Josefina M. Escobar<sup>2</sup>, Facundo Manes<sup>3</sup>, Natalia Trujillo<sup>4</sup>, & Esteban Hurtado<sup>2</sup>

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Cognitive Neurology (INECO), <sup>4</sup>University of Antioquia



- 43. Source Analysis of N400 Waveform Generators Obtained with a Cross-Modal Priming Paradigm**  
Margarita M. Baez-Martin<sup>1</sup>, Maria L. Bringas-Vega<sup>1</sup>, Mayelin Borrego<sup>2</sup>, Marilyn Zaldivar-Bermudez<sup>1</sup>, Abel Sanchez-Coroneaux<sup>1</sup>, Ivette Cabrera-Abreu<sup>1</sup>, & John F. Connolly<sup>3</sup>  
<sup>1</sup>International Center for Neurological Restoration, <sup>2</sup>Cuban Neuroscience Center, <sup>3</sup>McMaster University
- 44. Influence of Semantic Knowledge on Episodic Memory Performance in School-Aged Children with Infant Febrile Seizures**  
Martina K. Becker, Kerstin H. Kipp, & Axel Mecklinger  
Saarland University
- 45. Developmental Aspects of Familiarity and Recollection: Insights from a Cross-Sectional Event-Related Potential Study of Recognition Memory**  
Volker Sprondel, Kerstin H. Kipp, & Axel Mecklinger  
Saarland University
- 46. Evidence for an ERP Correlate of Familiarity Processing in 7–10 Year-Old Children**  
Nicole Brunnemann, Kerstin H. Kipp, & Axel Mecklinger  
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- 47. Neural Network Evaluation of Multi-Modal Startle Eyeblick Measurements**  
Christopher T. Lovelace<sup>1</sup>, Reza Derakhshani<sup>1</sup>, & Judee K. Burgoon<sup>2</sup>  
<sup>1</sup>University of Missouri, Kansas City, <sup>2</sup>The University of Arizona
- 48. Fiction Attenuates Fear: Neuroimaging Evidence**  
Izabela Mocaiber<sup>1</sup>, Fatima S. Erthal<sup>2</sup>, Tiago A. Sanchez<sup>3</sup>, Draulio B. Araujo<sup>3</sup>, Mateus Joffily<sup>1</sup>, Eliane Volchan<sup>1</sup>, Mirtes G. Pereira<sup>1</sup>, & Letícia Oliveira<sup>1</sup>  
<sup>1</sup>Federal University of Rio de Janeiro, <sup>2</sup>Fluminense Federal University, <sup>3</sup>University of São Paulo

- 49. Emotional Processing of Loved Faces: Familiarity Versus Affect**  
Rafaela R. Campagnoli<sup>1</sup>, Cynthia Vico<sup>2</sup>, María Isabel Viedma<sup>2</sup>, Pedro Guerra<sup>2</sup>, Lourdes Anllo-Vento<sup>2</sup>, Leticia Oliveira<sup>3</sup>, Mirtes G. Pereira<sup>3</sup>, Eliane Volchan<sup>1</sup>, & Jaime Vila<sup>2</sup>  
<sup>1</sup>Federal University of Rio de Janeiro, <sup>2</sup>University of Granada, <sup>3</sup>Fluminense Federal University
- 50. Neural Correlates of Conceptual Judgments of Lying and Truth-Telling: An ERP Study**  
Dingcheng Wu<sup>1</sup>, Fen Xu<sup>1</sup>, & Kang Lee<sup>2</sup>  
<sup>1</sup>Institute of Cognitive Neuroscience and Learning, <sup>2</sup>Institute of Child Study
- 51. Objective Measurement of Placebo Analgesia by Event Related Potentials**  
Peter Solvoll Lyby, Martin Bystad, Elisabeth Sjølie, Line Solbakken, June Thorvaldsen, Sara M. Vambheim, Magne Arve Flaten, & Per M. Aslaksen  
*University of Tromsø*
- 52. How Fast is Fear? Automatic and Controlled Processing in Conditioned Fear**  
Ole Åsli & Magne Arve Flaten  
*University of Tromsø*
- 53. Brain Correlates of Stress-Induced Analgesia**  
Pinar Yilmaz, Martin Diers, Slawomira Lipinski, Michèle Wessa, & Herta Flor  
*Central Institute of Mental Health*
- 54. Information Processing Bias for Anxiety-Related Stimuli is Associated with an Aversive Conditioned Activation of Affective Brain Functions in a Sample Of Healthy Adolescents**  
Frauke Nees<sup>1</sup>, Karl Mann<sup>1</sup>, Gunter Schumann<sup>2</sup>, & Herta Flor<sup>1</sup>  
<sup>1</sup>Central Institute of Mental Health, <sup>2</sup>Institute of Psychiatry, King's College London
- 55. Treatment Related Changes in Brain Activation in Patients with Fibromyalgia Syndrome**  
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*Central Institute of Mental Health*

- 56. The Why of Action Matters: Extrinsic Motivation Increases the Neural Response to Reward**  
Michèle Wessa<sup>1</sup>, Andrea V. King<sup>1</sup>, André Bongers<sup>2</sup>, & Julia Linke<sup>1</sup>  
<sup>1</sup>Central Institute of Mental Health, <sup>2</sup>Mediri GmbH
- 57. Modulation of Neural Responses to Reward and Punishment by Sad Mood Induction in Healthy Volunteers**  
Julia Linke<sup>1</sup>, Andrea V. King<sup>1</sup>, André Bongers<sup>2</sup>, & Michèle Wessa<sup>1</sup>  
<sup>1</sup>Central Institute of Mental Health, <sup>2</sup>Mediri GmbH
- 58. Reduced Prepulse Inhibition is Sensitive to a Wide Range of Psychopathologies, But Specific to None of Them**  
Joseph C. Franklin  
*University of North Carolina, Chapel Hill*
- 59. The Associations Between Prepulse Inhibition of Startle and Dimensions of Obsessive-Compulsive Disorder: Clearer Results Under Stress**  
Joseph C. Franklin, Michael G. Wheaton, Elenda T. Hessel, & Jonathon S. Abramowitz  
*University of North Carolina, Chapel Hill*
- 60. Prepulse Inhibition of Acoustic Startle is Decreased by Both Stress and Pain**  
Joseph C. Franklin, Elenda T. Hessel, Rachel V. Aaron, Michael S. Arthur, Eleanor K. Hanna, John D. Guerry, & Nicole Heilbron  
*University of North Carolina, Chapel Hill*
- 61. Latent Growth Curve Modeling Provides a More Precise Account of Startle Habituation**  
Joseph C. Franklin<sup>1</sup>, Ruth E. Mathiowetz<sup>1</sup>, Michael G. Wheaton<sup>1</sup>, Nicole Heilbron<sup>1</sup>, Elenda T. Hessel<sup>1</sup>, John D. Guerry<sup>1</sup>, & Terry D. Blumenthal<sup>2</sup>  
<sup>1</sup>University of North Carolina, Chapel Hill, <sup>2</sup>Wake Forest University
- 62. Investigating and Explaining Habituation of Prepulse Inhibition of Acoustic Startle**  
Joseph C. Franklin, Ruth E. Mathiowetz, Michael G. Wheaton, Nicole Heilbron, John D. Guerry, Elenda T. Hessel, & Terry D. Blumenthal  
*University of North Carolina, Chapel Hill*

- 63. The N2 Effect in Truthful and Deceptive Responses to Autobiographical Information**  
Xiaoqing Hu, Genyue Fu, & Haiyan Wu  
*Zhejiang Normal University*
- 64. Posterior Versus Frontal EEG Theta Activity as A Biological Marker for Dopaminergic Extraversion**  
Mira-Lynn Chavanon, Jan Wacker, & Gerhard Stemmler  
*University of Marburg*
- 65. Baroreceptor Cardiac Reflex Function is Deficient in Fibromyalgia Syndrome and Correlates with Clinical Pain Reports**  
Sergio Garrido<sup>1</sup>, Ángeles Pulgar<sup>1</sup>, Stefan Duschek<sup>2</sup>, & Gustavo A. Reyes del Paso<sup>1</sup>  
<sup>1</sup>*University of Jaén*, <sup>2</sup>*University of Munich*
- 66. Physical Exercise Level Modulates Relationships Between Baroreceptor Reflex Sensitivity and Cognitive Performance**  
María Martín, José L. Mata, & Gustavo A. Reyes del Paso  
*University of Jaén*
- 67. Effects of Physical Exercise Level on the Dynamics of the Cardiac Baroreflex: A Comparison When Blood Pressure are Rising and Falling**  
María Martín & Gustavo A. Reyes del Paso  
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- 68. Mood Impact on Cardiovascular Reactivity Under Conditions of Unfixed Task Difficulty: The Moderating Effect of Task Context**  
Michael Richter<sup>1</sup> & Antonia Friedrich<sup>2</sup>  
<sup>1</sup>*University of Geneva*, <sup>2</sup>*University of Hamburg*
- 69. Mood, Hedonic Incentive, and Effort-Related Cardiovascular Reactivity**  
Nicolas Silvestrini & Guido H. E. Gendolla  
*University of Geneva*
- 70. Dysphoria and Effort Mobilization: Reflecting on Performance Standards Leads to Reduced Cardiovascular Response**  
Kerstin Brinkmann & Guido H. E. Gendolla  
*University of Geneva*

- 71. Visuospatial Working Memory Processing of Facial Emotional Stimuli: An ERP Study**  
Andres A. Gonzalez-Garrido, Adriana L. Lopez-Franco, Fabiola R. Gomez-Velazquez, & Rodrigo Guzman-Anaya  
*Institute of Neurosciences, University of Guadalajara*
- 72. The Effect of Numerical Distance on ERP Components Elicited by Numerical Incongruencies in Mental Arithmetic Operations**  
Fabiola R. Gomez-Velazquez, Andres A. Gonzalez-Garrido, Josefina Ortiz, Minerva Altamirano, & Daniel Zarabozo-Hurtado  
*Institute of Neurosciences, University of Guadalajara*
- 73. Subtypes Matter: Biases and Individual Differences in Electrocortical Response to Specific Emotional Picture Categories**  
Anna Weinberg & Greg Hajcak  
*Stony Brook University*
- 74. Hemispheric Asymmetry of Exogenous Orienting of Attention: Inferences from Reaction Time, P1 and N1 Amplitude**  
Paola Spera<sup>1</sup>, Ian Mackenzie<sup>2</sup>, Mariaelena Tagliabue<sup>1</sup>, & Hartmut Leuthold<sup>2</sup>  
<sup>1</sup>*University of Padova*, <sup>2</sup>*University of Glasgow*
- 75. A New Oddball Paradigm to Investigate the Time Course of Chinese Single Spoken Word Recognition**  
Jingjing Zhao<sup>1</sup>, Jingjing Guo<sup>2</sup>, Fengying Zhou<sup>2</sup>, Jie Xi<sup>2</sup>, & Hua Shu<sup>2</sup>  
<sup>1</sup>*University of Connecticut & Haskins Laboratories*,  
<sup>2</sup>*Beijing Normal University*
- 76. Perceived Stress Increases Alerting and Influences Vigilance to Fearful Faces During Aroused Moods**  
Jeffrey L. Birk<sup>1</sup>, Tracy A. Dennis<sup>2</sup>, & Heather L. Urry<sup>1</sup>  
<sup>1</sup>*Tufts University*, <sup>2</sup>*Hunter College, The City University of New York*
- 77. I Show You How You Feel: Mimicry as a Function of Assigned Emotional State**  
Stéphanie Houde, Annie Simard, & Ursula Hess  
*University of Quebec at Montreal*

**78. Will You Still Mimic Me When I Am 64? Mimicry of Older Faces**

Marie Lasalle, Annie Simard, & Ursula Hess  
*University of Quebec at Montreal*

**79. Correlation Between Psychological Reactions to A Negative Emotional Video and Amplitudes of Skin Potential Response Components**

Olena V. Bogdanova<sup>1</sup>, Volodymyr B. Bogdanov<sup>1</sup>,  
Dmytro S. Gorlov<sup>1</sup>, Yuriy P. Gorgo<sup>2</sup>, Mykola Yu  
Makarchuk<sup>1</sup>, & Jean Schoenen<sup>3</sup>  
<sup>1</sup>*Taras Shevchenko National University of Kyiv*, <sup>2</sup>*National  
Technical University of Ukraine*, <sup>3</sup>*University of Liège*

**80. Alexithymia, Empathy and Differences of Skin Potential Level Amplitudes Under Affective Stimulation**

Volodymyr B. Bogdanov<sup>1</sup>, Dmytro S. Gorlov<sup>1</sup>, Yuriy P.  
Gorgo<sup>2</sup>, Mykola Yu Makarchuk<sup>1</sup>, Olena V.  
Bogdanova<sup>1</sup>, & Jean Schoenen<sup>3</sup>  
<sup>1</sup>*Taras Shevchenko National University of Kyiv*, <sup>2</sup>*National  
Technical University of Ukraine*, <sup>3</sup>*University of Liège*

**81. Impaired Cortico-Striatal Connectivity for Loss in the Reward Circuitry of Obsessive-Compulsive Disorder (OCD)**

Christian Kaufmann<sup>1</sup>, Jan-Carl Beucke<sup>2</sup>, Daniela  
Simon<sup>1</sup>, & Norbert Kathmann<sup>1</sup>  
<sup>1</sup>*Humboldt University, Berlin*, <sup>2</sup>*Massachusetts General  
Hospital/Harvard Medical School*

**82. Increasing Perceptual Load Disrupts Right Hemispheric Visuospatial Bias—An Event-Related Potential Study**

Redmond G. O'Connell<sup>1</sup>, Dana Schneider<sup>2</sup>, Robert  
Hester<sup>3</sup>, Jason B. Mattingley<sup>2</sup>, & Mark A. Bellgrove<sup>2</sup>  
<sup>1</sup>*Trinity College, Dublin*, <sup>2</sup>*University of Queensland*,  
<sup>3</sup>*University of Melbourne*

**83. Electrophysiological Indices of Attentional Decrements in Mild Cognitive Impairment**

Simon P. Finnigan, Redmond G. O'Connell, Richard  
B. Reilly, & Ian H. Robertson  
*Trinity College, Dublin*

- 84. Task Preparation and Mental Demand During a Visually Cued Attention Task in Young and Older Participants as Reflected in the Contingent Negative Variation**  
Nele Wild-Wall, Melanie Hahn, & Michael Falkenstein  
*Leibniz Research Centre for Working Environment and Human Factors*
- 85. Age-Related Differences in Stimulus Processing in a Dual Task as Reflected in the P300**  
Melanie Hahn, Nele Wild-Wall, & Michael Falkenstein  
*Leibniz Research Centre for Working Environment and Human Factors*
- 86. Eye-Blink Startle Response is Potentiated by Cold Pressor Pain But Inhibited by CO<sub>2</sub>-Induced Breathlessness**  
Steven De Peuter, Erik Ceunen, Ilse Van Diest, Omer Van den Bergh, & Johan W. S. Vlaeyen  
*University of Leuven*
- 87. Neuroimaging of Deception in a Free-Choice Guilty Knowledge Test (GKT) After a Mock Crime Scenario**  
Markus Schneider, Bálint Varcuti, Ahmed A. Karim, Sitharam Ranganatha, & Niels Birbaumer  
*University of Tübingen*
- 88. Magnetoencephalographic Evidence for Rapid and Highly Resolving Affective Evaluation of Short Environmental Tones in the Absence of Contingency Awareness**  
Ann-Kathrin Broeckelmann & Markus Junghoefler  
*Institute for Biomagnetism and Biosignalanalysis, University of Münster*
- 89. Electrophysiological Insights into the Detection of Personally Significant Sounds**  
Anja Roye<sup>1</sup>, Thomas Gruber<sup>2</sup>, Thomas Jacobsen<sup>1</sup>, & Erich Schröger<sup>1</sup>  
<sup>1</sup>University of Leipzig, <sup>2</sup>University of Osnabrück

- 90. Towards a True Habituation Paradigm: A Neonatal/Fetal MEG Study**  
Tamara Matuz<sup>1</sup>, Rathinaswamy B. Govindan<sup>2</sup>, Hubert Preissl<sup>1</sup>, Eric R. Siegel<sup>2</sup>, Pamela Murphy<sup>2</sup>, Maureen Ware<sup>2</sup>, Curtis L. Lowery<sup>2</sup>, & Hari Eswaran<sup>2</sup>  
<sup>1</sup>University of Tübingen, <sup>2</sup>University of Arkansas for Medical Sciences
- 91. Modulation of Deception with Prefrontal Transcranial Direct Current Stimulation (TDCS)**  
Ahmed A. Karim<sup>1</sup>, Markus Schneider<sup>1</sup>, Martin Lotze<sup>2</sup>, Ralf Veit<sup>1</sup>, Paul Sauseng<sup>3</sup>, & Niels Birbaumer<sup>1</sup>  
<sup>1</sup>Institute of Medical Psychology and Behavioral Neurobiology, University of Tübingen, Germany, <sup>2</sup>Center for Diagnostic Radiology and Neuroradiology, University of Greifswald, <sup>3</sup>University of Salzburg
- 92. P300 BCI Performance Prediction Using an Auditory Standard Oddball**  
Sebastian Halder<sup>1</sup>, Eva-Maria Hammer<sup>1</sup>, Sonja C. Kleih<sup>1</sup>, & Andrea Kübler<sup>2</sup>  
<sup>1</sup>University of Tübingen, <sup>2</sup>University of Würzburg
- 93. Does Granger Causality Analysis of the Interactivity of Independent Components Tell Us Something Plausible About Time-Lagged Co-Regulation Patterns?**  
Balint Varkuti, Colleen Dockery, Sitaram Ranganatha, & Niels Birbaumer  
*Institute of Medical Psychology and Behavioral Neurobiology*
- 94. Gastric Distensions Enhance Arousal Ratings of Visual Food Cues**  
Diana F. de Sá<sup>1</sup>, Lukas Degen<sup>2</sup>, Christoph Beglinger<sup>2</sup>, & Hartmut Schächinger<sup>1</sup>  
<sup>1</sup>University of Trier, <sup>2</sup>University of Basel
- 95. Prepulse Inhibition of Cardiovascular Startle Reaction**  
Christian E. Deuter<sup>1</sup>, André Schulz<sup>1</sup>, Steffen Richter<sup>1</sup>, Kurt Kräuchi<sup>2</sup>, & Hartmut Schächinger<sup>1</sup>  
<sup>1</sup>University of Trier, <sup>2</sup>Psychiatric University Clinic Basel



- 96. Do Humans Prefer Similar or Dissimilar Mates? Facial Self-Resemblance Influences Physiological Reactions But Not Subjective Ratings to Erotic Stimuli**  
Johanna Lass-Hennemann<sup>1</sup>, Christian E. Deuter<sup>1</sup>, Linn K. Kuehl<sup>1</sup>, André Schulz<sup>1</sup>, Terry D. Blumenthal<sup>2</sup>, & Hartmut Schachinger<sup>1</sup>  
<sup>1</sup>University of Trier, <sup>2</sup>Wake Forest University
- 97. Oral Cortisol Improves Implicit Sequence Learning Whereas Oral Metyrapone Shows No Effect**  
Sonja Roemer<sup>1</sup>, Frauke Nees<sup>2</sup>, André Schulz<sup>1</sup>, Steffen Richter<sup>1</sup>, & Hartmut Schachinger<sup>1</sup>  
<sup>1</sup>University of Trier, <sup>2</sup>University of Heidelberg
- 98. Startling Facts About Eye Blink Conditioning**  
Carina M. Zech<sup>1</sup>, Frauke Nees<sup>2</sup>, Terry D. Blumenthal<sup>3</sup>, & Hartmut Schachinger<sup>1</sup>  
<sup>1</sup>University of Trier, <sup>2</sup>Central Institute of Mental Health, <sup>3</sup>Wake Forest University
- 99. Modulation of the Startle Reflex by Arterial and Cardiopulmonary Baroreceptors**  
Steffen Richter<sup>1</sup>, André Schulz<sup>1</sup>, Johannes Port<sup>2</sup>, Terry D. Blumenthal<sup>3</sup>, & Hartmut Schächinger<sup>1</sup>  
<sup>1</sup>University of Trier, <sup>2</sup>University of Stuttgart, <sup>3</sup>Wake Forest University
- 100. Stress Induces a Timeshift of the Baro-Afferent-Mediated Reduction in Startle**  
André Schulz<sup>1</sup>, Debora E. Plein<sup>1</sup>, Terry D. Blumenthal<sup>2</sup>, & Hartmut Schächinger<sup>1</sup>  
<sup>1</sup>University of Trier, <sup>2</sup>Wake Forest University
- 101. Stress Induced Reduction in High Frequency Heart Rate Variability Cannot Be Explained by Respiratory Frequency Changes**  
Linn K. Kuehl, Steffen Richter, André Schulz, & Hartmut Schachinger  
University of Trier
- 102. Auditory Novelty Processing in Obsessive-Compulsive Disorder**  
Moritz Ischebeck, Tanja Endrass, Rüdiger Spielberg, & Norbert Kathmann  
Institute of Psychology, Humboldt University, Berlin

- 103. Action Monitoring Dysfunctions as an Endophenotype in Obsessive-Compulsive Disorder**  
Anja Riesel, Tanja Endrass, Christian Kaufmann, & Norbert Kathmann  
*Humboldt University, Berlin*
- 104. Conflict Detection and Defensive Motivation: The N2 and ERN Predict Startle Eye-Blink Reflex**  
Michael Inzlicht<sup>1</sup> & Greg Hajcak<sup>2</sup>  
<sup>1</sup>*University of Toronto*, <sup>2</sup>*Stony Brook University*
- 105. Antisocial Personality Traits and Feedback Processing—An ERP Study**  
Daniela Pfabigan, Johanna Alexopoulos, Uta Sailer, & Herbert Bauer  
*University of Vienna*
- 106. Visual Attention and Neurotoxicant Status in 3-Month-Old Infants**  
Nicki L. Aubuchon-Endsley, David G. Thomas, Tay S. Kennedy, Afework Bezibah, Barbara Stoecker, Stephanie L. Grant, Tabitha Valtr, & Melissa Oliver  
*Oklahoma State University*
- 107. Sequential Versus Simultaneous Stimulus Acknowledgment and Countermeasure Responses in P300-Based Detection of Deception**  
Alexander W. Sokolovsky, Jessica Rothenberg, John Meixner, & J. Peter Rosenfeld  
*Northwestern University*
- 108. Subliminal Processing of Facial Expression and the Effect of Face Rotation**  
Eligiusz Wronka & Wioleta Walentowska  
*Jagiellonian University*
- 109. Attentional Bias Toward Emotional Faces and the Effect of Hemispheric Asymmetry**  
Eligiusz Wronka, Dariusz Asanowicz, & Wioleta Walentowska  
*Jagiellonian University*
- 110. Attentional Modulation of Facial Emotion Processing**  
Eligiusz Wronka & Wioleta Walentowska  
*Jagiellonian University*

- 111. Questioning the Validity of Fractal Measures of Short-Term Heart Rate Variability: Evidence from Autonomic Blockade and Paced Breathing Experiments**  
Pandelis Perakakis<sup>1,2</sup>, Gustavo Reyes del Paso<sup>3</sup>, Jose Luis Mata<sup>1</sup>, Luis Carlos Delgado<sup>1</sup>, & Jaime Vila<sup>1</sup>  
<sup>1</sup>University of Granada, <sup>2</sup>University of Boston, <sup>3</sup>University of Jaén
- 113. Medial PFC Theta Power Scales with Degree of Negative Feedback Prediction Error**  
James F. Cavanagh<sup>1</sup>, Michael J. Frank<sup>2</sup>, Theresa J. Klein<sup>1</sup>, & John J. B. Allen<sup>1</sup>  
<sup>1</sup>University of Arizona, <sup>2</sup>Brown University
- 114. Inter-Regional Neuronal Oscillatory Synchrony Underlies Cognitive Control**  
Michael X. Cohen  
University of Amsterdam
- 115. Using N400 to Assess Stereotypes Incongruities with the Use of Exemplars**  
Laura Zambrano-Vazquez, Stephen L. Crites, Katherine R. White, & Yvette M. Guereca  
University of Texas at El Paso
- 116. The Effect of Temporal Precision and Probability on the Response to Threat of Shock: A Fear-Potentiated Startle Study**  
Rebecca Gloria, Jason N. Jaber, Timothy B. Baker, & John J. Curtin  
University of Wisconsin, Madison
- 117. Resting Cardiac Vagal Control and Quality of Partner Relationship in Women Newly Diagnosed with Breast Cancer**  
Anna Povzner, John J. B. Allen, Róisín O'Donnell, Amanda E. Brody, & Karen L. Weihs  
University of Arizona
- 118. Cardiac Vagal Control and Depression: The Moderating Effect of Sex**  
Jie Pu<sup>1</sup>, Lingdan Wu<sup>2</sup>, & John J. B. Allen<sup>1</sup>  
<sup>1</sup>University of Arizona, <sup>2</sup>Southwest University

- 119. Interaction Between 5HTLA Receptor Alleles, PSWQ & Frontal EEG Asymmetry**  
Andrew W. Bismark<sup>1</sup>, Jennifer L. Stewart<sup>1</sup>, James A. Coan<sup>2</sup>, & John J. B. Allen<sup>1</sup>  
<sup>1</sup>University of Arizona, <sup>2</sup>University of Virginia
- 120. Patterns of State and Trait Regional Brain Activity in Depression Support the Capability Model of EEG Asymmetry**  
Jennifer L. Stewart<sup>1</sup>, James A. Coan<sup>2</sup>, Andrew W. Bismark<sup>1</sup>, David N. Towers<sup>3</sup>, & John J. B. Allen<sup>1</sup>  
<sup>1</sup>University of Arizona, <sup>2</sup>University of Virginia, <sup>3</sup>University of Illinois, Urbana-Champaign
- 121. Should it Matter When We Record? Time of Year and Time of Day as Factors Influencing Frontal EEG Asymmetry**  
Jamie R. Velo<sup>1</sup>, Jennifer L. Stewart<sup>1</sup>, Brant P. Hasler<sup>1</sup>, David N. Towers<sup>2</sup>, & John J. B. Allen<sup>1</sup>  
<sup>1</sup>University of Arizona, <sup>2</sup>University of Illinois, Urbana-Champaign
- 122. Cortical Sources of Infant Visual Preferences**  
Greg D. Reynolds<sup>1</sup>, Mary L. Courage<sup>2</sup>, & John E. Richards<sup>3</sup>  
<sup>1</sup>University of Tennessee, <sup>2</sup>Memorial University, <sup>3</sup>University of South Carolina
- 123. Different Ages, Different Stages: A Neurodevelopmental Age-Based Database of Normal Brain Development for MRI**  
Carmen Sanchez, Alexandra Basilakos, & John E. Richards  
University of South Carolina
- 124. Shifts in Hemispheric Contributions to Language Comprehension with Age**  
Edward W. Wlotko<sup>1</sup>, Kara D. Federmeier<sup>1</sup>, & Marta Kutas<sup>2</sup>  
<sup>1</sup>University of Illinois, Urbana-Champaign, <sup>2</sup>University of California, San Diego
- 125. Hemispheric Differences in Word Class Expectancy—An Event Related Potential Study**  
Chia-lin Lee & Kara D. Federmeier  
University of Illinois, Urbana-Champaign

- 126. Conscious Error Detection: Differential Autonomic Responses and Event-Related Brain Potentials**  
Jan R. Wessel, Claudia Danielmeier, & Markus Ullsperger  
*Max Planck Institute for Neurological Research*
- 127. Electrophysiological Correlates of Spatial Processing**  
Travis E. Baker & Clay B. Holroyd  
*University of Victoria*
- 128. Decomposition Analysis of the Electrodermal Activity (EDA) with Short Interstimulus Intervals, Using the Example of Classical Aversive Conditioning of Tactile Stimuli**  
Anne-Kathrin Bräscher<sup>1</sup>, Dieter Kleinböhl<sup>1</sup>, Jörg Trojan<sup>1</sup>, Susanne Becker<sup>1</sup>, Francisco Muñoz<sup>2</sup>, José Manuel Reales<sup>2</sup>, Soledad Ballesteros<sup>2</sup>, Rupert Hölzl<sup>2</sup>  
<sup>1</sup>*Universität Mannheim*, <sup>2</sup>*Universidad Nacional de Educacion a Distancia*
- 129. Sensory Affective Gating—A New Design, an Old Phenomenon, Examined by Way of Magnetoencephalography**  
Tzvetan Popov, Todor Jordanov, Thomas Elbert, & Brigitte Rockstroh  
*University of Konstanz*
- 130. A Small Gap and its Large Consequences in Automatic Object Representation in Audition**  
Annekathrin Weise<sup>1</sup>, Walter Ritter<sup>2</sup>, & Erich Schröger<sup>1</sup>  
<sup>1</sup>*University of Leipzig*, <sup>2</sup>*Rockland Psychiatric Center*
- 131. Theta Oscillations as a Marker of Cognitive Conflict**  
Roland Nigbur & Birgit Stürmer  
*Humboldt University, Berlin*
- 132. Is the Processing of Affective Prosody Influenced by Spatial Attention? An ERP Study**  
Julia Gädeke & Brigitte Röder  
*University of Hamburg*

- 133. The Influence of Prior Beliefs on the Visual Brain: Evidence from Event-Related Brain Potentials**  
Jasmin Kizilirmak<sup>1</sup>, Lars Behrmann<sup>1</sup>, Karl Wessel<sup>1,2</sup>, & Bruno Kopp<sup>1,2</sup>  
<sup>1</sup>University of Technology Braunschweig, <sup>2</sup>Braunschweig Hospital
- 134. The Brains of Problematic Online Game Users Seek Stronger Sensation: An Event Related Potential Study on Problematic Online Game Users**  
Wooyeol Shin, Junghyun Hahm, Joohan Kim, & Hae-Jeong Park  
Yonsei University
- 135. Effects of Attention on Binocular Rivalry**  
Sandra Vesper<sup>1</sup>, Robert P. O'Shea<sup>2</sup>, Erich Schröger<sup>1</sup>, & Urte Roeber<sup>1</sup>  
<sup>1</sup>University of Leipzig, <sup>2</sup>Southern Cross University
- 136. EEG Correlates of Memory Matching in the Visual Working Memory**  
Elisa M. Holz<sup>1</sup> & Paul Sauseng<sup>2</sup>  
<sup>1</sup>University of Salzburg, <sup>2</sup>University Hospital Hamburg-Eppendorf
- 137. Original Meaning of Facial Expression Modulates Evaluation of Outcome**  
Shun Itagaki & Kazuo Hiraki  
The University of Tokyo
- 138. Experimental ERP Effects Do Not Coincide with the Largest Amplitudes of Components in a Visual Search Task**  
Florian Strelzyk, Katja Bertsch, Thomas Emmerling, Anne Siebenbrock, & Ewald Naumann  
University of Trier
- 139. The Neural Responses to Feedback Information Produced by Self-Generated or Other-Generated Decision Making: An ERPs Study**  
Atsuhito Toyomaki, Yui Takahashi, & Tasukasa Koyama  
Hokkaido University

- 140. The Relationship Between Low-Frequency Brain Oscillations and Response Variability in ADHD: A Twin Study**  
Charlotte R. Tye, Jonna Kuntsi, Philip Asherson, Patrick Bolton, & Gráinne McLoughlin  
*Institute of Psychiatry, King's College London*
- 141. The Neural Mechanism of Long-Term Perceptual Learning on the Texture Discrimination Task: An ERP Study**  
Xiaoli Ma, Bin Yang, & Yan Song  
*Beijing Normal University*
- 142. The Regulation of Emotions in Alexithymia: An ERP Analysis**  
Sarah A. Walker, Alexandre Schaefer, & Daryl B. O'Connor  
*University of Leeds*
- 143. Serial Order and Item Memory in Mono- and Bilinguals**  
Kathrin Klingebiel<sup>1</sup>, Steve Majerus<sup>2</sup>, & Brendan Weekes<sup>1</sup>  
<sup>1</sup>*University of Sussex*, <sup>2</sup>*University of Liège*
- 144. Operant Conditioning of Alpha Patterns in Human EEG Using Affective Reinforcing Stimulation**  
Alexander Yu Zhigalov & Alexander Ya Kaplan  
*M. V. Lomonosov Moscow State University*
- 145. Application of the P300 in the Evaluation of the Cognitives Functions of Patient with Endogenous Monoplar Depression**  
Tania Acosta<sup>1</sup>, Consuelo Acosta<sup>2</sup>, & Sergio Veloz<sup>1</sup>  
<sup>1</sup>*Hospital Juan B. Zayas*, <sup>2</sup>*Polic. 30 de Noviembre*
- 146. Does the Lateralized Readiness Potential Reflect Impaired Response Selection in Schizophrenia?**  
David Moellers<sup>1</sup>, Benedikt Reuter<sup>1</sup>, Lisa V. Kloft<sup>1</sup>, Juergen Gallinat<sup>2</sup>, & Norbert Kathmann<sup>1</sup>  
<sup>1</sup>*Humboldt University, Berlin*, <sup>2</sup>*Charité—Berlin*
- 147. The Role of Affect Regulation as a Risk Factor for Future Abuse Potential**  
Cory A. Burghy, Daren C. Jackson, Narina Nunez, & Walt D. Scott  
*University of Wyoming*

**148. Incentives Influence Error Detection But Not Post-Error Remedial Action Following Sleep Deprivation**

Shulan Hsieh<sup>1</sup>, Tzu-Hsien Li<sup>2</sup>, & Ling-Ling Tsai<sup>2</sup>

<sup>1</sup>*Institute of Allied Health Sciences, National Cheng Kung University*, <sup>2</sup>*National Chung Cheng University*

**149. Single Trial EEG Amplitude Predicts Subsequent Changes in Heart Rate Within Individuals—The Cardio Electroencephalographic Covariance Trace**

Erik M. Müller, Barbara Ahrens, Gerhard Stemmler, Maria Zangl, & Jan Wacker

*University of Marburg*

**150. Effects of Surprise and Entropy on Behavior and Event-Related EEG in the Eriksen Flanker Task**

Hilde T. Juvodden<sup>1</sup>, Heike Eichele<sup>1</sup>, Markus Ullsperger<sup>2</sup>, & Tom Eichele<sup>1</sup>

<sup>1</sup>*University of Bergen*, <sup>2</sup>*Max Planck Institute for Neurological Research*

**151. The Impact of Working Memory Load on EEG Measures of Mental Effort and Motivation Disposition**

Katie C. Ewing & Stephen H. Fairclough

*Liverpool John Moores University*

**152. In the Ear of the Beholder: Neural Correlates of Adaptation to Voice Gender**

Romi Zäske<sup>1</sup>, Stefan R. Schweinberger<sup>1</sup>, Jürgen M. Kaufmann<sup>1</sup>, & Hideki Kawahara<sup>2</sup>

<sup>1</sup>*Friedrich Schiller University of Jena*, <sup>2</sup>*Wakayama University*

**153. Disentangling Valence and Arousal Effects During Emotion Word Processing**

Francesca M. M. Citron, Brendan S. Weekes, & Evelyn C. Ferstl

*University of Sussex*

**154. The Effect of Motivation in BCI Performance**

Sonja C. Kleih<sup>1</sup>, Sebastian Halder<sup>1</sup>, Adrian Furdea<sup>1</sup>, Boris Kotchoubey<sup>1</sup>, & Andrea Kübler<sup>1,2</sup>

<sup>1</sup>*Institute for Medical Psychology and Behavioural Neurobiology, University of Tübingen*, <sup>2</sup>*University of Würzburg*



**155. Sex Differences in Mental Rotation: Hemispheric Lateralization Effects**

Julia Pellkofer & Martin Heil

*Heinrich-Heine-University Duesseldorf*

**156. Movement-Related Cortical Potentials and Perception of Effort During Exercise**

Helma M. de Morree, Samuele M. Marcora, & Christoph Klein

*Bangor University*

**157. Neurophysiological Substrates of Behavioral Flexibility: An ERP Study**

Liesel-Ann C. Meusel<sup>1</sup>, Marc D. Lewis<sup>2</sup>, Connie A. Lamm<sup>3</sup>, & Isabela Granic<sup>4</sup>

<sup>1</sup>*McMaster University*, <sup>2</sup>*University of Toronto*, <sup>3</sup>*Hunter College*, <sup>4</sup>*The City University of New York, Hospital for Sick Children*

**158. Undetected Error Commission After Task-Switching**

Koki Ikeda & Toshikazu Hasegawa

*The University of Tokyo*

**159. Examining the Neural Substrates of the Affective Priming Effect**

David R. Herring, Stephen L. Crites, Jennifer H. Taylor, Guadalupe Corral, Katherine R. White, Nazy Heydarian, Laura Zambrano-Vazquez, & Yvette Guereca

*University of Texas at El Paso*

**160. Detection and Compensation of Response Selection Difficulties: Simon Versus Flanker Congruency Effects**

Karen L. Mansfield<sup>1</sup>, Geert J. M. Van Boxtel<sup>1</sup>, & Maurits W. Van der Molen<sup>2</sup>

<sup>1</sup>*Tilburg University*, <sup>2</sup>*University of Amsterdam*

**161. Does MMN Amplitude Vary with Deviant Probability? Negative Findings Using Patterned Auditory Stimuli**

Lauren D. Sculthorpe & Kenneth B. Campbell

*University of Ottawa*

- 162. Alpha Activity ERD in the Visual Search Task**  
Natalia S. Yermachenko<sup>1</sup>, Alexander A. Yermachenko<sup>2</sup>,  
& Alexander V. Latanov<sup>1</sup>  
<sup>1</sup>*Moscow State University*, <sup>2</sup>*Modern University of  
Humanities*
- 163. Interactions Between Language and Attention  
Systems: Early Automatic Lexical Access?**  
Yury Shtyrov<sup>1</sup>, Teija Kujala<sup>2</sup>, & Friedemann  
Pulvermuller<sup>1</sup>  
<sup>1</sup>*MRC Cognition and Brain Sciences Unit, University of  
Cambridge*, <sup>2</sup>*Cognitive Brain Research Unit, University  
of Helsinki*
- 164. Parallel Response Activation and Inhibition as  
Assessed with the Lateralized Readiness  
Potential (LRP)**  
Emily S. Kappenman & Steven J. Luck  
*University of California, Davis*
- 165. Post-Error and Error-Preceding ERPs in ADHD**  
Jan R. Wiersema  
*Ghent University*
- 166. Fully Simultaneous Acquisition of Slow Cortical  
Potential Changes and Functional MRI at 3 Tesla**  
Florian P. S. Fischmeister<sup>1,3</sup>, Veronika Schöpf<sup>2</sup>,  
Christian Windischberger<sup>2</sup>, Ewald Moser<sup>2</sup>, & Herbert  
Bauer<sup>3</sup>  
<sup>1</sup>*MR Center University of Vienna*, <sup>2</sup>*Medical University of  
Vienna*, <sup>3</sup>*University of Vienna*
- 167. Age Effects on Event-Related Potential and  
Cardiovascular Activity in a Working  
Memory Task**  
Sergei A. Schapkin & Gabriele Freude  
*Federal Institute for Occupational Safety and Health*
- 168. ERP Marker of Emotion Regulation: An Individual  
Difference Study**  
Connie Lamm & Tracy Dennis  
*Hunter College, The City University of New York*
- 169. Dipole Parameter Estimation of M50 Auditory  
Evoked Fields Applied to the Study of Training-  
Induced Neuroplasticity in Schizophrenia**  
Todor Iordanov, Tzvetan Popov, Christian Wienbruch,  
Thomas Elbert, & Brigitte Rockstroh  
*University of Konstanz*

- 170. Oxytocin and Cortical Activity: The Influence of Intranasal Oxytocin on EEG Alpha Frequency**  
Nicolas Hardung, Markus Quirin, Miguel Kazén, Anja Fiedler, & Julius Kuhl  
*University of Osnabrück*
- 171. Distinguishing the Relations Between Self-Efficacy, Personality, and Indices of Action Monitoring**  
Jason R. Themanson<sup>1</sup>, Peter J. Rosen<sup>1</sup>, Michael J. Cunningham<sup>1</sup>, Aaron B. Ball<sup>1</sup>, Brandon M. Clark<sup>1</sup>, Matthew B. Pontifex<sup>2</sup>, Charles H. Hillman<sup>2</sup>, & Edward McAuley<sup>2</sup>  
<sup>1</sup>*Illinois Wesleyan University*, <sup>2</sup>*University of Illinois, Urbana-Champaign*
- 172. Perceptual Cues Modulate Response Cue Effects on Frontal N200 Amplitude and Response Activation**  
Thorsten Albrecht & Uwe Mattler  
*University of Göttingen*
- 173. Structuring the Inter-Individual Variation in Waking EEG for Discrimination Between the Objective Markers of Sleep Debt and Sleep Pressure**  
Arcady A. Putilov, Olga G. Donskaya, Evgeniy G. Verevkin, & Mark B. Shtark  
*Research Institute for Molecular Biology and Biophysics*
- 174. Early Cortical Responses Correlate with Subsequent Visual Exploration**  
Hiroshi Nittono & Junko Ishiguro  
*Hiroshima University*
- 175. Neuroplasticity-Based Training May Normalise Auditory Gating in Schizophrenia and Improve Verbal Processing**  
Tzvetan Popov<sup>1</sup>, Todor Jordanov<sup>1</sup>, Gregory A. Miller<sup>2</sup>, Thomas Elbert<sup>1</sup>, Michael M. Merzenich<sup>3</sup>, & Brigitte Rockstroh<sup>1</sup>  
<sup>1</sup>*University of Konstanz*, <sup>2</sup>*University of Illinois, Urbana-Champaign*, <sup>3</sup>*University of California, San Francisco*
- 176. Childhood Stress and Psychiatric Disorder Modify Reward Processing**  
Astrid Steffen, Katharina Matz, Christine Naegele, & Brigitte Rockstroh  
*University of Konstanz*

- 177. The Spatio-Temporal Pattern of Reward Processing: Magnetoencephalographic Responses to Value Appraisal and Reward Prediction in a Gambling Task**  
Astrid Steffen, Daniel Muller, Christian Wienbruch, & Brigitte Rockstroh  
*University of Konstanz*
- 178. Frequency Specific EEG Coherence Changes Related to Different Components of Working Memory**  
Regina I. Machinskaya, Andrey V. Kurgansky, & Lubov S. Sokolova  
*Institute of Developmental Physiology of the Russian Academy of Sciences*
- 179. Assessing Latent Features of Brain Development by EEG Photic Driving Reactivity**  
Vladimir V. Lazarev, Maria Alice Genofre, Adailton Pontes, & Leonardo C. deAzevedo  
*Oswaldo Cruz Foundation*
- 180. The Illusion of Misalignment in the Poggendorff Figure is Modeled by an Early Visual Processing and Cognitive Mechanisms**  
Irina Shoshina<sup>1</sup>, Leonid Medvedev<sup>2</sup>, Ella Olada<sup>3</sup>, & Ekaterina Fedorova<sup>2</sup>  
<sup>1</sup>*Siberian Federal University*, <sup>2</sup>*Krasnoyarsk State Pedagogical University*, <sup>3</sup>*Free University of Berlin*
- 181. Exploring the Electrophysiological Correlates of Emotion-Enhanced Recollection**  
Alexandre Schaefer, Claire L. Pottage, & Karrie Alexander  
*University of Leeds*
- 182. Evoked and Induced Event-Related EEG Oscillations in High-Performing Young and Elderly Individuals During a Cognitive Flexibility Task**  
Bruno Kopp<sup>1,2</sup>, Christine Uhlmann<sup>2</sup>, Lars Behrmann<sup>1,2</sup>, Jürgen Howe<sup>2</sup>, & Karl Wessel<sup>1,2</sup>  
<sup>1</sup>*Braunschweig Hospital*, <sup>2</sup>*University of Technology Braunschweig*

- 183. Automatic Processing of Feature- vs. Object-Related Deviances in the Visual Modality**  
Dagmar Müller<sup>1</sup>, István Winkler<sup>2</sup>, & Erich Schröger<sup>1</sup>  
<sup>1</sup>*Institute for Psychology I, University of Leipzig*, <sup>2</sup>*Institute for Psychology, Hungarian Academy of Sciences*
- 184. Investigating Alterations in the Error-Related Negativity and Post-Error Behavioral Improvements Across Time**  
Jason R. Themanson<sup>1</sup>, Peter J. Rosen<sup>1</sup>, Aaron B. Ball<sup>1</sup>, Michael J. Cunningham<sup>1</sup>, Brandon M. Clark<sup>1</sup>, Matthew B. Pontifex<sup>2</sup>, Charles H. Hillman<sup>2</sup>, & Edward McAuley<sup>2</sup>  
<sup>1</sup>*Illinois Wesleyan University*, <sup>2</sup>*University of Illinois, Urbana-Champaign*
- 185. Single-Trial Analysis Explains Reduction of P300 Amplitude in Cirrhotic Patients**  
Sami Schiff, Costanza D'Avanzo, Giorgia Cona, Giovanni Sparacino, Patrizia Bisiacchi, & Piero Amodio  
*University of Padova*
- 186. Parallel Preparation of Hand and Foot: Inferences from the Lateralized Readiness Potential**  
Hartmut Leuthold<sup>1</sup> & Ines Jentzsch<sup>2</sup>  
<sup>1</sup>*University of Glasgow*, <sup>2</sup>*University of St. Andrews*
- 187. Change Event Related Negativity for Deviants in Visual Search**  
Elke B. Lange<sup>1</sup>, Olga V. Sysoeva<sup>2</sup>, Alexander B. Sorokin<sup>3,4</sup>, & Tom A. Campbell<sup>4</sup>  
<sup>1</sup>*Cognitive Brain Research Unit, University of Helsinki*,  
<sup>2</sup>*Institute of Higher Nervous Activity and Neurophysiology of the Russian Academy of Sciences*,  
<sup>3</sup>*Mental Health Research Center of the Russian Academy of Sciences*, <sup>4</sup>*Helsinki Collegium for Advanced Studies*
- 188. Material-Specific Electrophysiological Correlates of Recollection**  
Giulia Galli & Leun J. Otten  
*Institute of Cognitive Neuroscience, University College London*
- 189. Processing of Facial Emotion in Patients with Major Depression: ERP Correlates of a Negative Bias**  
Andrea Figura<sup>1</sup>, Katja Werheid<sup>1</sup>, Norbert Kathmann<sup>1</sup>, Philipp Klein<sup>2</sup>, & Isabella Heuser<sup>2</sup>  
<sup>1</sup>*Humboldt University, Berlin*, <sup>2</sup>*Charité—Berlin*

**Clustered Poster Session #1***Abstract***Role of Attention in Processing of Visual Stimuli**

Chairs: Michal Kuniecki<sup>1</sup> & Piotr Jaskowski<sup>2</sup>

<sup>1</sup>*Jagiellonian University*, <sup>2</sup>*University of Finance and Management*

Descriptors: attention, vision, emotion

**190. Temporal Dynamics of the Brain Response to Phobia-Relevant and Standard Emotional Visual Stimuli in Spider-Phobic Individuals**

Jaroslaw M. Michalowski<sup>1</sup>, Christiane A. Melzig<sup>2</sup>,  
Almut I. Weike<sup>2</sup>, Jessica Stockburger<sup>3</sup>, Herald T.  
Schupp<sup>3</sup>, & Alfons O. Hamm<sup>2</sup>

<sup>1</sup>*University of Gdansk*, <sup>2</sup>*University of Greifswald*,  
<sup>3</sup>*University of Konstanz*

**191. Elements of Formal Characteristic of Emotional Visual Stimuli Determining Their Attentional Advantage**

Michal J. Kuniecki<sup>1</sup>, Szymon Wichary<sup>2</sup>, Szczepan  
Grzybowski<sup>1</sup>, & Piotr Jaskowski<sup>3</sup>

<sup>1</sup>*Jagiellonian University*, <sup>2</sup>*Warsaw School of Social  
Psychology*, <sup>3</sup>*University of Finance and Management*

**192. Attention Can Be Captured by Neutral Masks**

Piotr Jaskowski<sup>1</sup>, & Anna Przekoracka-Krawczyk<sup>2</sup>

<sup>1</sup>*University of Finance and Management*, <sup>2</sup>*Adam  
Mickiewicz University*

**193. Beta-Band EEG Activity as a Neuronal Correlate of Attention—Changes Related with Aging**

Mateusz K. Gola<sup>1</sup>, Jan Kaminski<sup>2</sup>, Aneta Brzezicka<sup>1</sup>, &  
Andrzej Wrobel<sup>2</sup>

<sup>1</sup>*Warsaw School of Social Sciences and Humanities*,  
<sup>2</sup>*Nencki Institute of Experimental Biology*

**Poster Session III**  
**Friday, October 23, 2009**

*Poster Session Schedule*

8:00 A.M.–10:00 A.M.	Posters Assembled
10:00 A.M.–8:30 P.M.	Posters Available for Viewing
8:30 P.M.–10:30 P.M.	Authors Present for Discussion and Questions
10:30 P.M.–11:30 P.M.	Dismantle Posters

- 1. Right Ventrolateral Prefrontal Cortical Activity is Increased During Reward Anticipation in Euthymic Bipolar Adults**  
Robin Nusslock, Jorge R. Almeida, Erika E. Forbes, Amelia Versace, Edmund J. LaBarbara, Crystal Klein, & Mary L. Phillips  
*Western Psychiatric Institute and Clinic*
- 2. Expending Cognitive Effort Leads to Emotional Dysregulation**  
Dylan D. Wagner & Todd F. Heatherton  
*Dartmouth College*
- 3. Mismatch Negativity to Change in Azimuthal Position of Low-Frequency Noise Bursts in Free Field: Suggestion for an Over-Representation of Lateral Sound Sources Compared to Sound Sources in Front**  
Nicole Richter, Erich Schröger, & Rudolf RübSamen  
*University of Leipzig*
- 4. Auditory Attention: Effects of Temporal and Spatial Expectation**  
Johanna Rimmel<sup>1,2</sup>, Hajnal Jolsvai<sup>2</sup>, & Elyse Sussman<sup>2</sup>  
<sup>1</sup>*University of Leipzig*, <sup>2</sup>*Albert Einstein College of Medicine*
- 5. The Differential Role of Modality-Specific Working Memory Training in Learning Chinese as a Second Language**  
Julia A. Schneiders<sup>1</sup>, Christoph Krick<sup>2</sup>, & Axel Mecklinger<sup>1</sup>  
<sup>1</sup>*Saarland University*, <sup>2</sup>*Saarland University Hospital*
- 6. Effects of Temporally Unpredictable Contexts on Ambiguous Facial Expressions of Emotion**  
Caroline Davis, Maital Neta, & Paul J. Whalen  
*Dartmouth College*

- 7. Extinction of Conditioned Fear Responses to Masked Stimuli**  
Armita Golkar, Rasmus Berggren, Tina Lonsdorf,  
Andreas Olsson, & Arne Öhman  
*Karolinska Institute*
- 8. Oscillatory Brain Activity in the Time-Frequency Domain Associated to Change Blindness and Change Detection Awareness**  
Álvaro Darriba<sup>1</sup>, Paula Pazo-Álvarez<sup>1</sup>, Almudena Capilla<sup>2</sup>, & Elena Amenedo<sup>1</sup>  
<sup>1</sup>*University of Santiago de Compostela*, <sup>2</sup>*University of Glasgow*
- 9. Relating Visual Working Memory Capacity and Attentional Control in the Schizophrenia-Spectrum**  
Veronica B. Perez<sup>1</sup>, Judy M. Ford<sup>1</sup>, Daniel H. Mathalon<sup>1</sup>, & Edward K. Vogel<sup>2</sup>  
<sup>1</sup>*University of California, San Francisco*, <sup>2</sup>*University of Oregon*
- 10. The Contribution of Affective Style to the Successful Downregulation of Pain: A Psychophysiological and Neuroimaging Investigation**  
Regina C. Lapate<sup>1</sup>, Tim V. Salomons<sup>1</sup>, Hyejeen Lee<sup>1</sup>, Carien M. van Reekum<sup>2</sup>, Larry L. Greischar<sup>1</sup>, & Richard J. Davidson<sup>1</sup>  
<sup>1</sup>*University of Wisconsin, Madison*, <sup>2</sup>*University of Reading*
- 11. Propranolol Blocks the Neural Signature of Unpleasant Memories: A Spatiotemporal EEG Analysis**  
Mathias Weymar, Andreas Löw, Christiane Modess, Georg Engel, Matthias Gründling, Astrid Petersmann, Werner Siegmund, & Alfons O. Hamm  
*University of Greifswald*
- 12. Bold-Responses to Repeated Stimulus Exposure in Animal Phobia**  
Julia Wendt, Luise E. Schmidt, Almut I. Weike, & Alfons O. Hamm  
*University of Greifswald*



- 13. Why Do Some Patients Escape While Others Don't? Autonomic Arousal But Not Subjective Reports Predicts Escaping Behaviour During a Behavioral Avoidance Test in High Anxious Panic Patients with Agoraphobia**  
Jan Richter, Christiane A. Melzig, & Alfons O. Hamm  
*University of Greifswald*
- 14. The Hidden Costs of Anxiety on Cognitive Performance: Implications for Attentional Control Theory**  
Tahereh L. Ansari & Nazanin Derakshan  
*Birkbeck, University of London*
- 15. The Effects of Naturalistic Stress and Serotonin Transporter (5-HTT) Genotype on Reward Responsiveness: Implications for Depression**  
Yuliya S. Nikolova, Ryan Bogdan, & Diego A. Pizzagalli  
*Harvard University*
- 16. Is the BDNF MET-Allele a Protective Factor for the 5-HTTLPR S-Allele Associated Reduction of Grey Matter Volume?**  
Denise Doerfel<sup>1</sup>, Annett Werner<sup>2</sup>, Ruediger von Kummer<sup>2</sup>, & Anke Karl<sup>3</sup>  
<sup>1</sup>Dresden University of Technology, <sup>2</sup>Dresden University of Technology, University Hospital, <sup>3</sup>University of Southampton
- 17. EEG Dynamics Underlying the P1 and N170 Face Effect**  
James Desjardins & Sidney J. Segalowitz  
*Brock University*
- 18. Smoking Cue Reactivity as a Laboratory Model of Short-Term Tobacco Abstinence**  
Jeffrey M. Engelmann & Bruce N. Cuthbert  
*University of Minnesota*
- 19. Sadness and Reward Sensitivity: Trait and State Mood Variables Impact the Magnitude of the Feedback Negativity**  
Dan Foti & Greg Hajcak  
*Stony Brook University*

- 20. Advance Movement Preparation in Hemiparetic Patients: Electrophysiological Indices**  
Philip Dean, Ellen Seiss, & Annette Sterr  
*University of Surrey*
- 21. An Electrophysiological Investigation of Glucose Administration Effects on Sensorimotor Processing in a Modified Eriksen Flanker Task**  
Christopher Hope, Ellen Seiss, Philip Dean, & Annette Sterr  
*University of Surrey*
- 22. The Influence of Color on the Perception of Briefly Presented Emotional Scenes**  
Maurizio Codispoti, Vera Ferrari, & Andrea De Cesarei  
*University of Bologna*
- 23. Indexing Externalizing Psychopathology as a Multivariate Physiological Phenotype**  
Lindsay D. Nelson, Christopher J. Patrick, & Edward M. Bernat  
*University of Minnesota*
- 24. Alcohol Placebo Selectively Increases the Feedback-Related Negativity in a Gambling Task**  
Lindsay D. Nelson<sup>1</sup>, Edward M. Bernat<sup>1</sup>, Alan R. Lang<sup>2</sup>, & Christopher J. Patrick<sup>1</sup>  
<sup>1</sup>*University of Minnesota*, <sup>2</sup>*Florida State University*
- 25. Fronto-Striato-Limbic Hyperactivation in Obsessive-Compulsive Disorder During Individually Tailored Symptom Provocation**  
Daniela Simon, Christian Kaufmann, Kathrin Muesch, Eva Kischkel, & Norbert Kathmann  
*Humboldt University, Berlin*
- 26. Reduction of Pathological Inhibition of Cortical Reactivity to Aversive Stimuli in Visual Sensory Areas in PTSD Through Exposure Therapy**  
Hannah Adenauer<sup>1</sup>, Claudia Catani<sup>2</sup>, Julian Keil<sup>1</sup>, Hannah Aichinger<sup>1</sup>, Martina Ruf<sup>1</sup>, & Frank Neuner<sup>2</sup>  
<sup>1</sup>*University of Konstanz*, <sup>2</sup>*University of Bielefeld*

- 27. Methylphenidate Modulates Sensorimotor Integration as Reflected by Neuroelectric Oscillations in a Go/Nogo Task**  
Yordan Hodzhev<sup>1</sup>, Juliana Yordanova<sup>1</sup>, Martin Diruf<sup>2</sup>, Oliver Kratz<sup>2</sup>, Vasil Kolev<sup>1</sup>, & Hartmut Heinrich<sup>2,3</sup>  
<sup>1</sup>*Institute of Neurobiology, Bulgarian Academy of Sciences*, <sup>2</sup>*University of Erlangen*, <sup>3</sup>*Heckscher Hospital*
- 28. Gender-Specific Development of Auditory Information Processing in Children: Time-Frequency Analysis**  
Plamenka Nanova, Vasil Kolev, Laura Lyamova, & Juliana Yordanova  
*Institute of Neurobiology, Bulgarian Academy of Sciences*
- 29. Event-Related Potentials to Schematic Spiders and Flowers in a Change Detection Task**  
Nathalie Peira, Joakim Norberg, & Stefan Wiens  
*Stockholm University*
- 30. Dissociation of Psychological and Cardiovascular Caffeine Effects in High and Low Anxiety Sensitive Caffeine Users**  
Jan P. Stender<sup>1</sup>, Christiane A. Melzig<sup>1</sup>, Christiane Modess<sup>1</sup>, Terry Blumenthal<sup>2</sup>, & Alfons O. Hamm<sup>1</sup>  
<sup>1</sup>*University of Greifswald*, <sup>2</sup>*Wake Forest University*
- 31. The Influence of Emotion on Respiratory-Related Evoked Potentials**  
Andreas von Leupoldt<sup>1</sup>, Andrea Vovk<sup>2</sup>, Margaret M. Bradley<sup>2</sup>, Andreas Keil<sup>2</sup>, Peter J. Lang<sup>2</sup>, & Paul W. Davenport<sup>2</sup>  
<sup>1</sup>*University of Hamburg*, <sup>2</sup>*University of Florida*
- 32. The Impact of Emotion on the Perception of Dyspnea in Patients with Chronic Obstructive Pulmonary Disease**  
Andreas von Leupoldt<sup>1</sup>, Karin Taube<sup>2</sup>, Maren Henkhus<sup>1</sup>, Helgo Magnussen<sup>3</sup>, & Bernhard Dahme<sup>1</sup>  
<sup>1</sup>*University of Hamburg*, <sup>2</sup>*Atem-Reha Hamburg*, <sup>3</sup>*Pulmonary Research Institute at Hospital Grosshansdorf*
- 33. Down Regulation of Insular Cortex Activity During Dyspnea and Pain in Asthma**  
Andreas von Leupoldt<sup>1</sup>, Tobias Sommer<sup>2</sup>, Falk Eippert<sup>2</sup>, Sarah Kegat<sup>1</sup>, Hans J. Baumann<sup>2</sup>, Hans Klose<sup>2</sup>, Bernhard Dahme<sup>1</sup>, & Christian Buechel<sup>2</sup>  
<sup>1</sup>*University of Hamburg*, <sup>2</sup>*University Medical Center Hamburg-Eppendorf*

- 34. Decline of the Visual ERP During Thinking**  
Akihiro Yagi<sup>1</sup>, Atsushi Noritake<sup>2</sup>, Shinpei Nagae<sup>1</sup>, & Tomomi Shikata<sup>1</sup>  
<sup>1</sup>*Kwansei Gakuin University*, <sup>2</sup>*Kansai Medical University*
- 35. Potentiation of the Acoustic Startle Reflex During Imagery of Self-Esteem Violating Scenes in Patients with Borderline Personality Disorder**  
Anke Limberg<sup>1</sup>, Sven Barnow<sup>2</sup>, Harald J. Freyberger<sup>1</sup>, & Alfons O. Hamm<sup>1</sup>  
<sup>1</sup>*University of Greifswald*, <sup>2</sup>*University of Heidelberg*
- 36. Natural Image Statistics and Brain Potentials**  
Andreas Löw, Mathias Weymar, & Alfons O. Hamm  
*University of Greifswald*
- 37. Anticipation of Interoceptive Threat—An fMRI Study**  
Katharina Holtz, Christiane A. Melzig, Julia Wendt, Martin Lotze, & Alfons O. Hamm  
*University of Greifswald*
- 38. Using Reappraisal or Response Modulation to Increase and Decrease Emotional Responses: An fMRI Study**  
Elisa C. K. Steinfurth, Julia Wendt, & Alfons O. Hamm  
*University of Greifswald*
- 39. Gestational Age Predicts Neonatal Startle Eye Blink**  
Harriet J. Huggenberger<sup>1</sup>, Susanne E. Suter<sup>1</sup>, Terry Blumenthal<sup>2</sup>, & Hartmut Schachinger<sup>3</sup>  
<sup>1</sup>*University of Basel*, <sup>2</sup>*Wake Forest University*, <sup>3</sup>*University of Trier*
- 40. Error-Related Negativity and Feedback-Related Negativity in Obsessive-Compulsive Undergraduates**  
Emily M. Stanley & Robert F. Simons  
*University of Delaware*
- 41. Dissociable Roles for Empathy and Sympathy in Willingness to Share: An fMRI Study**  
K. Richard Ridderinkhof<sup>1</sup>, Johannes Fahrenfort<sup>1</sup>, Ben Pelloux<sup>2</sup>, & Frans Van Winden<sup>2</sup>  
<sup>1</sup>*University of Amsterdam*, <sup>2</sup>*University of Amsterdam, Centre for Research in Experimental Economics and Political Decision-Making*

- 42. The N400 as a Specific Index of the Saussurean Arbitrariness Point in Word Recognition**  
Aniela I. Franca<sup>1</sup>, Miriam Lemle<sup>1</sup>, Aline R. Gesualdi<sup>2</sup>,  
Mauricio Cagy<sup>3</sup>, & Antonio C. Infantesi<sup>1</sup>  
<sup>1</sup>Federal University of Rio de Janeiro, <sup>2</sup>Federal Centers of  
Technological Education (CEFET), <sup>3</sup>Fluminense Federal  
University
- 43. Putting Syntactic Tabs on Semantic Relatedness: An ERP Study of Brazilian Portuguese Words**  
Juliana N. Gomes<sup>1</sup>, Aniela I. Franca<sup>1</sup>, Maurício Cagy<sup>2</sup>,  
& Antonio C. Infantesi<sup>1</sup>  
<sup>1</sup>Federal University of Rio de Janeiro, <sup>2</sup>Fluminense Federal  
University
- 44. Cardinality and Syntax: A Behavioral and an ERP Study of Two Interacting Computations**  
Aniela I. Franca<sup>1</sup>, Miriam Lemle<sup>1</sup>, Maurício Cagy<sup>2</sup>, &  
Antonio C. Infantesi<sup>1</sup>  
<sup>1</sup>Federal University of Rio de Janeiro, <sup>2</sup>Fluminense Federal  
University
- 45. Unilateral Hand Contractions and Responses to Cyberball: The Role of Asymmetrical Frontal Cortical Activity in How We React to Ostracism**  
Carly K. Peterson, Kim Hawkins, & Eddie Harmon-  
Jones  
*Texas A&M University*
- 46. Motivational Body Postures Lean Toward Left Frontal Brain Activity**  
Tom F. Price, Carly K. Peterson, & Eddie Harmon-  
Jones  
*Texas A&M University*
- 47. Psychophysiological Evidence for Violent Video Games Impairing Cognitive Control**  
Christopher R. Engelhardt, J. Scott Sauls, Eddie A.  
Vasquez, Bryson E. King, & Bruce D. Bartholow  
*University of Missouri—Columbia*
- 48. The Neural Sources of the Face-Sensitive N170 Event-Related Potential**  
Esther Alonso-Prieto<sup>1</sup>, Stéphanie Caharel<sup>1</sup>, Laurence  
Dicrot<sup>1</sup>, Ernesto Palmero-Soler<sup>1,2</sup>, & Bruno Rossion<sup>1</sup>  
<sup>1</sup>Catholic University of Leuven, <sup>2</sup>Advanced Neuro  
Technology

- 49. Recognizing an Individual Face: 3D Shape Contributes Earlier Than 2D Surface Reflectance Information**  
Stéphanie Caharel<sup>1</sup>, Fang Jiang<sup>1</sup>, Volker Blanz<sup>2</sup>, & Bruno Rossion<sup>1</sup>  
<sup>1</sup>*Catholic University of Leuven*, <sup>2</sup>*University of Siegen*
- 50. Electrophysiological Evidence of Attentional Bias for Alcohol Cues in Social Drinkers Differing in Alcohol Sensitivity**  
Eunsam Shin, Sarah A. Lust, Erika A. Henry, & Bruce D. Bartholow  
*University of Missouri–Columbia*
- 51. 5-HTTLPR, TPH2-703G/T and the Neural Basis of Emotion Regulation**  
Andrea Hermann<sup>1</sup>, Katharina Tabbert<sup>1</sup>, Yvonne Küpper<sup>2</sup>, Anja Schmitz<sup>3</sup>, Dieter Vaitl<sup>1</sup>, Jürgen Hennig<sup>2</sup>, & Rudolf Stark<sup>1</sup>  
<sup>1</sup>*Bender Institute of Neuroimaging, University of Giessen*, <sup>2</sup>*University of Giessen*, <sup>3</sup>*Section on Developmental Genetic Epidemiology, National Institutes of Mental Health*
- 52. Ugh! Disgust Conditioning and the Influence of Individual Differences**  
Tim Klucken, Jan Schweckendiek, Dieter Vaitl, & Rudolf Stark  
*Bender Institute of Neuroimaging, University of Giessen*
- 53. Testing Basic Assumptions of the Concealed Information Test**  
Vanessa Thompson, Sarah Stevens, & Stephen D. Benning  
*Vanderbilt University*
- 54. The Influence of Trait Absorption on Emotional Picture and Acoustic Startle Processing: Evidence from ERPs**  
Melville M. Malone & Stephen D. Benning  
*Vanderbilt University*
- 55. Reduced Appetitive Postauricular Reflex Potentiation in Depressed Undergraduates**  
Stephen D. Benning  
*Vanderbilt University*

- 56. Mental Coaching During Flight Training of Military Student Pilots: Effects on Subjective Stress Perception, Flight Performance and Cortisol Levels**  
Nathalie Pattyn<sup>1,2</sup>, Sharon Arcay<sup>2</sup>, & Raymond Cluydts<sup>1</sup>  
<sup>1</sup>*Vrije University Brussel*, <sup>2</sup>*Royal Military Academy*
- 57. Monitoring an Antarctic Summer Expedition: How Constant Illumination and Physical Activity Affect Mood, Cognitive Performance and Sleep-Wake Regulation**  
Nathalie Pattyn<sup>1,2</sup>, Elke De Valck<sup>1</sup>, Aisha Cortoos<sup>1</sup>, Sandra Pirrera<sup>1</sup>, Xavier Neyt<sup>2</sup>, & Raymond Cluydts<sup>1</sup>  
<sup>1</sup>*Vrije University Brussel*, <sup>3</sup>*Royal Military Academy*
- 58. Impact of Age on Basal Activity of Salivary Alpha-Amylase**  
Jana Strahler<sup>1</sup>, Antje Tietze<sup>1</sup>, Clemens Kirschbaum<sup>1</sup>, & Nicolas Rohleder<sup>2</sup>  
<sup>1</sup>*Dresden University of Technology*, <sup>2</sup>*Brandeis University*
- 59. Central Pain Processing After Repetitive Intramuscular Proton/Prostaglandin E2 Injections in Fibromyalgia Syndrome and Healthy Controls**  
Mariela Rance<sup>1</sup>, Martin Diers<sup>1</sup>, Marcus T. Schley<sup>2</sup>, Pinar Yilmaz<sup>1</sup>, Martin Schmelz<sup>2</sup>, & Herta Flor<sup>1</sup>  
<sup>1</sup>*Central Institute of Mental Health*, <sup>2</sup>*University of Heidelberg*
- 60. The P300- Brain-Computer Interface Browser: A Muscle-Independent Surfing Tool for Paralyzed People**  
Carolin Ruf<sup>1</sup>, Emily Mugler<sup>1</sup>, Sebastian Halder<sup>1</sup>, Michael Bensch<sup>2</sup>, & Andrea Kübler<sup>3</sup>  
<sup>1</sup>*Institute of Medical Psychology and Behavioral Neurobiology, University of Tübingen*, <sup>2</sup>*Wilhelm-Schickard-Institute for Computer Science, University of Tübingen*, <sup>3</sup>*University of Würzburg*
- 61. Afferent Feedback Influences for an On-Line BCI for Stroke Rehabilitation**  
Ander Ramos<sup>1</sup>, Ernesto S. Soares<sup>1</sup>, Manuel Agostini<sup>2</sup>, Doris Broetz<sup>1</sup>, Boris Benkner<sup>1</sup>, Massimiliano Rea<sup>1</sup>, Sebastian Halder<sup>1</sup>, Andrea Caria<sup>1</sup>, Surjo Soekader<sup>3</sup>, & Niels Birbaumer<sup>1</sup>  
<sup>1</sup>*University of Tübingen*, <sup>2</sup>*University of Freiburg*, <sup>3</sup>*University Hospital Tübingen*

- 62. The Role of Top-Down Task Set for Attentional Capture in Visual Search**  
Monika Kiss & Martin Eimer  
*Birkbeck, University of London*
- 63. The Integration of Perceptual and Working Memory Representations: Evidence from Lateralized ERP Components**  
Silvia Dalvit & Martin Eimer  
*Birkbeck, University of London*
- 64. Cardiac Autonomic Function and Response Control Deficits in Older Adults**  
Lesley J. Capuana, Jane Dywan, William J. Tays, & Sidney J. Segalowitz  
*Brock University*
- 65. N170 is Sensitive to Several Factors Important for Differentiating Individual Faces**  
Xin Zheng, Mark D. Vida, Catherine J. Mondloch, & Sidney J. Segalowitz  
*Brock University*
- 66. ERP Correlates of Emotional Face Processing in Psychopathy**  
Meghan J. Weissflog<sup>1</sup>, Sidney J. Segalowitz<sup>1</sup>, Gillian E. S. Munro<sup>2</sup>, & Jane Dywan<sup>1</sup>  
<sup>1</sup>*Brock University*, <sup>2</sup>*MIND Research Network*
- 67. Processing Reward Magnitude and Valence: Dissociations and Individual Differences in the FRB and P300**  
Angela Dzyundzyak, Diane L. Santesso, & Sidney J. Segalowitz  
*Brock University*
- 68. Does Target Letter Position Affect ERP Amplitudes and Classification Accuracy in the P300 Based BCI? Implications of a Principal Component Analysis**  
Siri-Maria Kamp, Ty Brumback, Yael Arbel, & Emanuel Donchin  
*University of South Florida*
- 69. Identifying the Functional Role of the Interference-Elicited Medial Frontal Negativity**  
William J. Tays, Jane Dywan, & Sidney J. Segalowitz  
*Brock University*



- 70. Frontal EEG Asymmetry in Highly Aggressive 5–6 Year Old Girls**  
Michelle K. Jetha<sup>1,2</sup>, Sidney J. Segalowitz<sup>2</sup>, & Lisa Gatzke-Kopp<sup>1</sup>  
<sup>1</sup>*Pennsylvania State University*, <sup>2</sup>*Brock University*
- 71. I Am Positive I Am Going to Be Correct: Correct Responses are Foreshadowed by Increased Positivity in a Low Interference Task**  
Hiroaki Masaki<sup>1</sup>, Timothy I. Murphy<sup>2</sup>, Keita Kamijo<sup>3</sup>, & Katuo Yamazaki<sup>1</sup>  
<sup>1</sup>*Waseda University*, <sup>2</sup>*Brock University*, <sup>3</sup>*Japan Society for the Promotion of Science*
- 72. The Effect of Sleepiness on Reward-Related Electrophysiological Activity During a Gambling Task**  
Timothy I. Murphy, Diane L. Santesso, Dirk B. H. Homan, Warren Tilbrook, & Cassandra Lowe  
*Brock University*
- 73. Vagal Reactivity to Stress in Sexually Revictimized Women**  
Michelle A. Patriquin, Angela Scarpa, & Kristy E. Benoit  
*Virginia Polytechnic Institute and State University*
- 74. Error-Related Brain Activity in Individuals with Major Depressive Disorder**  
Doreen M. Olvet & Greg Hajcak  
*Stony Brook University*
- 75. Spatial Attention and Anxiety Moderate the Late Positive Potential**  
Annmarie MacNamara & Greg Hajcak  
*Stony Brook University*
- 76. Fear Generalization as a Function of BDNF and 5-HTTLPR Polymorphisms**  
Jonathan P. Dunning<sup>1</sup>, Claude Castille<sup>1</sup>, Doreen M. Olvet<sup>1</sup>, Eli Hatchwell<sup>2</sup>, & Greg Hajcak<sup>1</sup>  
<sup>1</sup>*Stony Brook University*, <sup>2</sup>*Stony Brook University Hospital*
- 77. Old-New ERP Effect During Explicit and Implicit Recognition of Affective Pictures**  
Vera Ferrari<sup>1</sup>, Margaret M. Bradley<sup>1</sup>, Marie Karlsson<sup>1</sup>, Maurizio Codispoti<sup>2</sup>, & Peter J. Lang<sup>1</sup>  
<sup>1</sup>*University of Florida*, <sup>2</sup>*University of Bologna*

- 78. Understanding Intra-Individual Variability in Autonomic and ERP Measures**  
Sarah L. Karalunas, Lisa Gatzke-Kopp, & Cynthia L. Huang-Pollock  
*Pennsylvania State University*
- 79. Profiling Within-Group Heterogeneity Using Psychophysiological Markers**  
Kathleen M. Gates, Lisa M. Gatzke-Kopp, & Nilam Ram  
*Pennsylvania State University*
- 80. Indexing Cognitive Control Processes in a Stroop Task Using Time-Frequency Decomposition of Event-Related Potentials**  
Lacy A. Olson<sup>1</sup>, Lindsay Nelson<sup>2</sup>, Edward Bernat<sup>1</sup>, & Christopher J. Patrick<sup>1</sup>  
<sup>1</sup>*Florida State University*, <sup>2</sup>*University of Minnesota*
- 81. Appraisals and Skin Conductance in Response to Four Emotional Expressions Across Physiognomic Categories**  
Augusta D. Gaspar & Francisco G. Esteves  
*Instituto Superior de Ciências do Trabalho e da Empresa (ISCTE)*
- 82. Cardiovascular Activity and Process of Change In Nicotine Withdrawal**  
Sasha D. Jaquez<sup>1</sup>, Jared P. Dempsey<sup>1</sup>, Ashley N. Junghans<sup>1</sup>, Kasey R. Claborn<sup>1</sup>, Jason Kaplan<sup>1</sup>, William Lechner<sup>1</sup>, & Lee M. Cohen<sup>2</sup>  
<sup>1</sup>*Oklahoma State University*, <sup>2</sup>*Texas Tech University*
- 83. The Default Network: Not So Default**  
Brian A. Gordon<sup>1</sup>, Carrie Brumback<sup>2</sup>, Gabriele Gratton<sup>1</sup>, & Monica Fabiani<sup>1</sup>  
<sup>1</sup>*University of Illinois, Urbana-Champaign*, <sup>2</sup>*University of California, Irvine*
- 84. Neural Substrates of Ambiguity Resolution: Individual Differences in Response to Surprised Facial Expressions**  
Maital Neta, M. Justin Kim, Catherine J. Norris, & Paul J. Whalen  
*Dartmouth College*

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- 85. Movement Correction in Optical Data; Comparison Between Feature Based and Principal Component Based Approach**  
Nils Schneider-Garces, Ed Maclin, Gabriele Gratton, & Monica Fabiani  
*University of Illinois, Urbana-Champaign*
- 86. EEG-Derived Biomarkers for Daytime Sleepiness in Patients with Chronic Stroke**  
Katherine Herron, Derk-Jan Dijk, Philip Dean, Ellen Seiss, & Annette Sterr  
*University of Surrey*
- 87. Fuzzy Picture Processing: Effects of Size Reduction and Blurring on Emotional Reactions**  
Andrea De Cesarei & Maurizio Codispoti  
*University of Bologna*
- 88. Making Sense of Hemispheric Differences in Meaning Apprehension**  
Padmapriya Kandhadai & Kara D. Federmeier  
*University of Illinois, Urbana-Champaign*
- 89. Interacting Effects of Lexical Variables on Language-Sensitive ERPs at the Single-Item Level**  
Sarah Laszlo, Pablo Anaya, & Kara D. Federmeier  
*University of Illinois, Urbana-Champaign*
- 90. On the Functional Nature of the N400: The Lexical Interference Created by Neighbor Frequency Effects**  
Nicola Molinaro<sup>1</sup>, Markus Conrad<sup>2</sup>, Manuel Carreiras<sup>3</sup>, & Horacio Barber<sup>1</sup>  
<sup>1</sup>*University of La Laguna*, <sup>2</sup>*Free University of Berlin*,  
<sup>3</sup>*Basque Center on Cognition, Brain and Language*
- 91. ERP Parafoveal-on-Foveal Effects During Sentence Reading**  
Horacio A. Barber<sup>1</sup>, Nuria Doñamayor<sup>2</sup>, Marta Kutas<sup>3</sup>, & Thomas Münte<sup>2</sup>  
<sup>1</sup>*University of La Laguna*, <sup>2</sup>*Otto von Guericke University*,  
<sup>3</sup>*University of California, San Diego*
- 92. ERP Effects of Code Switches in Late Second Language Learners When Reading**  
Maartje van der Meij<sup>1</sup>, Manuel Carreiras<sup>2</sup>, & Horacio A. Barber<sup>1</sup>  
<sup>1</sup>*University of La Laguna, Spain*, <sup>2</sup>*Basque Center on Cognition, Brain and Language*

- 93. The Effect of Frequency Change Detection in the Auditory Brainstem and Middle Latency Responses**  
Lavinia Slabu, Sabine Grimm, Jordi Costa-Faidella, & Carles Escera  
*University of Barcelona*
- 94. Ultrafast Novelty Detection in the Human Auditory System**  
Sabine Grimm, Lavinia Slabu, Jordi Costa-Faidella, & Carles Escera  
*University of Barcelona*
- 95. Neural and Behavioral Effects of Tryptophan Depletion on Emotive Facial Processing in Depression-Prone Individuals**  
Natalia Jaworska<sup>1,2</sup>, Andrea Thompson<sup>3</sup>, Dhrasti K. Shah<sup>2,3</sup>, Jud McIntosh<sup>1</sup>, Crystal M. Villeneuve<sup>2,3</sup>, Derek J. Fisher<sup>2,3</sup>, & Verner J. Knott<sup>1,2,3</sup>  
<sup>1</sup>*University of Ottawa*, <sup>2</sup>*Institute of Mental Health Research*, <sup>3</sup>*Carleton University*
- 96. Startle Blink Deficits in Psychopathy are Uniquely Associated with Interpersonal-Affective Traits**  
Uma Vaidyanathan, Edward M. Bernat, Jason R. Hall, & Christopher J. Patrick  
*University of Minnesota*
- 97. Using Time-Frequency Analysis to Disentangle Processes in a Cued Go/No-Go Task**  
Vaughn R. Steele, Edward M. Bernat, William L. Schoeppner, & Christopher J. Patrick  
*University of Minnesota*
- 98. Reduced P300 Amplitude in Criminal Psychopathy is Related to Externalizing Tendencies: Evidence from a Simulated Gambling Task**  
Noah C. Venables, Justin L. Jobelius, Lindsay D. Nelson, Edward M. Bernat, & Christopher J. Patrick  
*University of Minnesota*
- 99. Psychopaths Show Deficits in Subconscious Processing of Fear Faces**  
Robert W. Shannon, Noah Venables, Justin Jobelius, Edward Bernat, Sheng He, & Christopher Patrick  
*University of Minnesota*

**100. Response Inhibition and Error Detection Relate to Impulsiveness**

Wen-Pin Chang<sup>1</sup>, William J. Gavin<sup>2</sup>, & Patricia L. Davies<sup>2</sup>

<sup>1</sup>University of Indianapolis, <sup>2</sup>Colorado State University

**101. Changing Perceptual Load in Visual Flanker Tasks Affects ERN Amplitude**

William J. Gavin & Patricia L. Davies

Colorado State University

**102. Reliability of ERN in Adults Performing a Visual Flanker Task**

William J. Gavin & Patricia L. Davies

Colorado State University

**103. Reliability of ERN in Children Performing a Visual Flanker Task**

Patricia L. Davies & William J. Gavin

Colorado State University

**104. This is Your Brain on Ads: Adolescents' Responses to Anti-Drug Television Advertisements**

Daniel J. Goldman<sup>1</sup>, Brittany R. L. Duff<sup>2</sup>, Michelle A. Roth<sup>1</sup>, Julia K. Langer<sup>1</sup>, & Bruce N. Cuthbert<sup>1</sup>

<sup>1</sup>University of Minnesota, <sup>2</sup>University of Illinois

**105. Put it in Context: The Interaction of Affective Oddballs with Emotional Context**

Daniel J. Goldman, Julia K. Langer, Scott J. Burwell, & Bruce N. Cuthbert

University of Minnesota

**106. EEG Asymmetry Patterns in Individuals with High and Low Trait Anxiety**

Antonia Kaczurkin, Bruce N. Cuthbert, & William G. Iacono

University of Minnesota

**107. Do We Care About the Powerless Third? An EEG Study About Social Interaction in Economic Decision Making**

Johanna Alexopoulos, Daniela Pfabigan, Florian P. S. Fischmeister, & Herbert Bauer

University of Vienna

**108. Autonomic Reactivity as Marker of Individual Attitude to a Violent Event: Role of Psychoticism in Appraisal Processes**

Nadezhda E. Lysenko & Dmitry M. Davydov  
*Moscow Research Center of Narcology*

**109. Baroreflex Loop Components, Blood Pressure Dipping, and Daily Mood**

Dmitry M. Davydov<sup>1</sup> & David Shapiro<sup>2</sup>  
<sup>1</sup>*Moscow Research Center of Narcology*, <sup>2</sup>*University of California, Los Angeles*

**110. Postural Blood Pressure, Mood Regulation, and Life Stress**

Dmitry M. Davydov<sup>1</sup> & Karen Ritchie<sup>2</sup>  
<sup>1</sup>*Moscow Research Center of Narcology*, <sup>2</sup>*French National Institute for Health and Medical Research (INSERM)*

**111. Error Processing, Task Difficulty and Motivation in Schizophrenia: An Event-Related fMRI Study Using a Speeded Flanker-Task**

Alexander M. Nitsch, Johannes Hewig, Thomas Hiller, Wolfgang H. R. Miltner, & Thomas Straube  
*Institute of Psychology, Friedrich Schiller University of Jena*

**112. Detecting Recognition of Familiarity in Faces Using SCR in a Patient with Minimally Conscious State (MCS)**

Maria L. Bringas<sup>1</sup>, Margarita Baez<sup>1</sup>, Elizabeth Fernandez<sup>1</sup>, & Iliana Quiñones<sup>2</sup>  
<sup>1</sup>*International Center for Neurological Rehabilitation*,  
<sup>2</sup>*Cuban Neuroscience Center*

**113. Directed Attention to Auditory, Tactile or Visual Stimuli Activates Modality-Specific Sensory Cortices and a Common Fronto-Parietal Network in the Absence of Stimulation**

Robert Langner<sup>1</sup>, Thilo Kellermann<sup>1</sup>, Frank Boers<sup>2</sup>, Walter Sturm<sup>1</sup>, Klaus Willmes<sup>1</sup>, & Simon B. Eickhoff<sup>2</sup>  
<sup>1</sup>*RWTH Aachen University*, <sup>2</sup>*Jülich Research Center*

**114. Effect of Willingness on Deceptive and Honest Responses in a Two-Stimulus Paradigm: An ERP Study**

Wu Hai-Yan, Fu Genyue, & Hu Xiaoqing  
*Zhejiang Normal University*

- 115. The Effects of Early Deprivation on the Psychophysiology of Affective Processing During Adolescence**  
Karina Quevedo<sup>1</sup>, Anna Johnson<sup>2</sup>, Michelle Loman<sup>2</sup>, Theresa Lafavor<sup>2</sup>, & Megan Gunnar<sup>2</sup>  
<sup>1</sup>*Western Psychiatric Institute and Clinic*, <sup>2</sup>*University of Minnesota*
- 116. Interaction Effects Between Location and Direction of Stimulus in Three Stimulus-Response Compatibility Tasks**  
Jesús St. Cespón, Santiago Galdo, & Fernando Diaz  
*University of Santiago de Compostela*
- 117. Event-Related Potentials in a Color-Word Stroop Task: Aging Effects**  
Montserrat Zurrón, Fernando Díaz, Mónica Lindín, & Santiago Galdo  
*University of Santiago de Compostela*
- 118. Applied Tension and Blood Donation Reactions: The Role of Anxiety**  
Crystal D. Holly & Blaine Ditto  
*McGill University*
- 119. Vasovagal Syncope and Applied Tension in the Blood Donation Setting: The Role of Anxiety**  
Crystal D. Holly, Lindsey Torbit, & Blaine Ditto  
*McGill University*
- 120. Modification of Threat Processing in Non-Anxious Individuals: An ERP Study**  
Jenna N. Goldstein<sup>1</sup>, Lauren K. White<sup>1</sup>, Ross E. Vanderwert<sup>1</sup>, Yair Bar-Haim<sup>2</sup>, & Nathan A. Fox<sup>1</sup>  
<sup>1</sup>*University of Maryland, College Park*, <sup>2</sup>*Tel Aviv University*
- 121. Alpha Amylase Reactivity to Written Emotional Disclosure**  
Andrea Konig, Wendy L. Kliever, Alison M. Eonta, Stephanie R. Pitts, & Scott R. Vrana  
*Virginia Commonwealth University*
- 122. Emotional Regulation Through Focused Attention: An Event-Related Potentials Study**  
Jonas K. Olofsson<sup>1</sup>, Gilles Pourtois<sup>2</sup>, & Stefan Wiens<sup>1</sup>  
<sup>1</sup>*Stockholm University*, <sup>2</sup>*Ghent University*

- 123. Affective Reactions in Financial Decision-Making: The Case of Professional Traders**  
Ottaviani Cristina, Borlimi Rosita, Nucifora Valeria, & Brighetti Gianni  
*University of Bologna*
- 124. The Impact of Cold Pressor Stress on Voice Pitch (F0)**  
Debora E. Plein, André Schulz, Steffen Richter, & Hartmut Schächinger  
*Institute of Psychobiology, University of Trier*
- 125. Confounding Influences on Long-Term Electrodermal Recording**  
Sigrun Doberenz, Sunyoung Kim, Eileen Wollburg, Nina I. Maslowski, & Walton T. Roth  
*Stanford University & VA Palo Alto Health Care System*
- 126. Implicit Memory and Autonomic Reactivity in an Adult Complex Trauma Sample**  
Wendy M. D'Andrea<sup>1</sup> & Nnamdi Pole<sup>2</sup>  
<sup>1</sup>*Trauma Center at JRI/Boston University*, <sup>2</sup>*Smith College*
- 127. Can Implicit Measures Contribute to the Prediction of Avoidance Behaviour and Physiological Fear Responses Towards Spiders?**  
Bram Van Bockstaele, Geert Crombez, Bruno Verschuere, Ernst H. W. Koster, & Jan De Houwer  
*Ghent University*
- 128. Effects of Biofeedback on Skin Conductance and Heart Rate in Depersonalization Disorder**  
Poppy L. A. Schoenberg, Mauricio Sierra-Siegert, & Anthony S. David  
*Institute of Psychiatry, King's College London*
- 129. Depression and Biased Attention: Evidence from Skin Conductance Responses**  
Catarina Silva<sup>1</sup>, Ana Ferreira<sup>1</sup>, Isabel Soares<sup>2</sup>, & Francisco Esteves<sup>1</sup>  
<sup>1</sup>*Lisbon University Institute*, <sup>2</sup>*University of Minho*
- 130. Effects of Exposure to Natural Sounds and Environmental Noise on Physiological Stress Recovery**  
Jesper J. Alvarsson, Mats E. Nilsson, & Stefan Wiens  
*Stockholm University*



- 131. Cardiac Sympathetic Activity is Not Influenced by Depression But by Antidepressants**  
Carmilla M. M. Licht<sup>1</sup>, Brenda W. J. H. Penninx<sup>1</sup>, & Eco J. C. de Geus<sup>2</sup>  
<sup>1</sup>*Vrije University–Amsterdam Medical Center*, <sup>2</sup>*Vrije University–Amsterdam*
- 132. Habituation Rate and ADHD Subtype in a Large Sample of Preadolescent Children**  
Ian McLaughlin, Daniel Bedford, Scott Burwell, Micah Hammer, Dragana Vidovic, Casey S. Gilmore, Stephen M. Malone, & William G. Iacono  
*University of Minnesota*
- 133. Differentiating Orienting and Defensive Responses to Concealed Information: The Role of Verbalization**  
Bruno Verschuere, Geert Crombez, Lieselot Smolders, & Armand De Clercq  
*Ghent University*
- 134. Palmar and Plantar Skin Conductance Responses to Stimulus Repetition and Stimulus Change**  
Gerhard Vossel<sup>1</sup>, Matthias Gamer<sup>2</sup>, & Martina Flörchinger<sup>1</sup>  
<sup>1</sup>*Johannes Gutenberg-Universität Mainz*,  
<sup>2</sup>*Universitätsklinikum Hamburg-Eppendorf*
- 135. Can Autonomic Cardiovascular Regulation Profit from Aerobic Exercise and Heartrate-Variability-Biofeedback?**  
Lutz Mussgay & Heinz Rüdell  
*St.-Franziska-Stift Bad Kreuznach*
- 136. Body Signals Influence the Perception of Time**  
Karin Meissner<sup>1</sup>, & Marc Wittmann<sup>2</sup>  
<sup>1</sup>*Ludwig-Maximilian University of Munich*, <sup>2</sup>*University of California, San Diego*
- 137. Polygraph Induced Disclosure is Related to Interoceptive Awareness**  
Ewout H. Meijer, Tom Smeets, & Glynis Bogaard  
*Maastricht University*
- 138. Neural Mechanisms of Intermodal Sustained Selective Attention with Concurrently Presented Auditory and Visual Stimuli in the Human Brain**  
Katja Saupe, Erich Schröger, Søren K. Andersen, & Matthias M. Müller  
*University of Leipzig*

- 139. Behavioral and Electrophysiological Endophenotypes of the COMT and DRD2 Gene-Gene Interaction Reveal Human Variability in Distraction and Novelty Processing**  
Manuel Garcia-Garcia, Iria SanMiguel, Immaculada C. Clemente, & Carles Escera  
*University of Barcelona*
- 140. Temporal Cuing Enhances the Auditory N1**  
Alexa Lampar & Kathrin Lange  
*Heinrich-Heine-University of Duesseldorf*
- 141. Assessing the Construct Validity of Attentional Modification of Prepulse Inhibition of Startle Among Children with Attention-Deficit/Hyperactivity Disorder**  
Jessica D. Rhodes, Rebecca L. Ashare, Keri Shiels, & Larry W. Hawk  
*University at Buffalo, SUNY*
- 142. Differences in Gray Matter Volume Associated with Insight Meditation: A Voxel-Based Morphometry Study**  
Lucas D. Eggert<sup>1</sup>, Britta K. Holzel<sup>2</sup>, Markus R. Quirin<sup>1</sup>, Jens C. Pruessner<sup>3</sup>, & Sara W. Lazar<sup>2</sup>  
<sup>1</sup>*University of Osnabrueck*, <sup>2</sup>*Massachusetts General Hospital*, <sup>3</sup>*McGill Centre for Studies in Aging*
- 143. Effects of Biased Competition on Parafoveally Presented Flickering Stimuli**  
Christian Keitel, Søren K. Andersen, & Matthias M. Müller  
*University of Leipzig*
- 144. Are Feature-Selective and Spatial Attention Independent?**  
Søren K. Andersen<sup>1</sup>, Steven A. Hillyard<sup>2</sup>, & Matthias M. Müller<sup>1</sup>  
<sup>1</sup>*University of Leipzig*, <sup>2</sup>*University of California, San Diego*
- 145. Event-Related Brain Potential Indices of Selective Listening to Timbre and Pitch**  
Kimmo Alho<sup>1</sup>, Ville Villberg<sup>2</sup>, Sebastian Cederström<sup>1</sup>, István Winkler<sup>3</sup>, Elyse S. Sussman<sup>4</sup>, & Teemu Rinne<sup>1</sup>  
<sup>1</sup>*University of Helsinki*, <sup>2</sup>*Kuopio University Hospital*, <sup>3</sup>*Hungarian Academy of Sciences*, <sup>4</sup>*Albert Einstein College of Medicine of Yeshiva University*

- 146. Electroencephalographic Measurement of Manual Pointing in Visually Guided Compound Search**  
Thomas Toellner<sup>1</sup>, Hermann Mueller<sup>2</sup>, Howard Poizner<sup>3</sup>, Scott Makeig<sup>3</sup>, & Klaus Gramann<sup>3</sup>  
<sup>1</sup>Ludwig-Maximilian-University of Munich, <sup>2</sup>Birkbeck College, University of London, <sup>3</sup>University of California, San Diego
- 147. Effect of Attention on Cortical Processing of Sound Motion: An EEG Study**  
Stephan Getzmann<sup>1</sup> & Jens Kreitewolf<sup>2</sup>  
<sup>1</sup>Leibniz Research Centre for Working Environment and Human Factors, <sup>2</sup>Ruhr-University Bochum
- 148. The Effect of Music Tempo and Intensity on Visual Selective Attention**  
Frances H. Martin & Isobel C. Ludford  
*University of Tasmania*
- 149. Modulating the Left-Hemifield Bias in Rapid Serial Visual Presentation by Repetitive Transcranial Magnetic Stimulation**  
Kamila Smigajewicz<sup>1</sup>, Rolf Verleger<sup>1</sup>, Friderike Moller<sup>1</sup>, Michal Kuniecki<sup>2</sup>, Sergiu Groppa<sup>3</sup>, & Hartwig R. Siebner<sup>4</sup>  
<sup>1</sup>The University Lübeck, <sup>2</sup>Jagiellonian University, <sup>3</sup>Christian-Albrechts University of Kiel, <sup>4</sup>Danish Research Centre for Magnetic Resonance, Hvidovre University Hospital
- 150. Neural Correlates of the Emotional Attentional-Blink Effect: A Combined EEG-fMRI Study**  
Ralf H. Trippe, Holger Hecht, Johannes Hewig, Lars Fichtner, & Wolfgang H. R. Miltner  
*Friedrich Schiller University of Jena*
- 151. Inter-Individual Differences in Change Blindness**  
Andrea Schankin<sup>1</sup>, Dirk Hagemann<sup>1</sup>, & Edmund Wascher<sup>2</sup>  
<sup>1</sup>University of Heidelberg, <sup>2</sup>Leibniz Research Centre for Working Environment and Human Factors
- 152. Dynamic Modulation of Brain Activation in Response to Varying Degrees of Top-Down/Bottom-Up Processing Conflict**  
René Westerhausen, Stein-Ove Belsby, Matthias Moosmann, Karsten Specht, & Kenneth Hugdahl  
*University of Bergen*

- 153. Attentional Control After Distraction is Modulated by the Emotional Context**  
Stefan Berti  
*Johannes Gutenberg University Mainz*
- 154. Does Stimulus-Induced Temporal Orienting Always Attenuate Early Auditory Processing?**  
Kathrin Lange  
*Heinrich Heine University of Duesseldorf*
- 155. EEG Correlates of Forced Attention to Visual and Auditory Presentation of Narrative Texts**  
Sergey G. Danko & Julia A. Boytsova  
*Institute of the Human Brain, Russian Academy of Sciences*
- 156. Forced and Non-Forced Attention in a Dichotic Listening Paradigm with Different Inter-Aural Sound Intensity Levels: An Oscillatory EEG Study**  
Julia Boytsova<sup>1</sup>, Sergey Danko<sup>1</sup>, Maxim Kireev<sup>1</sup>, Svjatoslav Medvedev<sup>1</sup>, Heikki Hämäläinen<sup>2</sup>, Kimmo Alho<sup>3</sup>, & Kenneth Hugdahl<sup>4</sup>  
<sup>1</sup>*Institute of the Human Brain, Russian Academy of Sciences*, <sup>2</sup>*University of Turku*, <sup>3</sup>*University of Helsinki*, <sup>4</sup>*University of Bergen*
- 157. The Wandering Eye of Men: An Electrophysiological Investigation into Distraction by Attraction**  
Johanna C. Van Hooff, Helen Crawford, & Mark Van Vugt  
*University of Kent*
- 158. Effects of Experience on a Threat Detection Task**  
Vladimir Zotov<sup>1</sup>, Jocelyn Keillor<sup>1</sup>, Michael Chen<sup>2</sup>, Elena Scourtoudis<sup>1</sup>, Jerzy Jarmasz<sup>1</sup>, & Stephen Boyne<sup>1</sup>  
<sup>1</sup>*Defence Research and Development Canada—Toronto*, <sup>2</sup>*University of Waterloo*
- 159. The Role of the Dopamine Transporter DATL Genotype on the Neural Mechanisms of Cognitive Flexibility**  
Manuel Garcia-Garcia<sup>1</sup>, Francisco Barceló<sup>2</sup>, Immaculada C. Clemente<sup>1</sup>, & Carles Escera<sup>1</sup>  
<sup>1</sup>*University of Barcelona*, <sup>2</sup>*University of Balearic Islands*
- 160. Viewing Fingers of the Same Hand Can Disturb Tactile Attentional Selection**  
Bettina Forster & Helge Gillmeister  
*City University London*

- 161. Distractors in BCI: Can Harmful Commands Be Activated Automatically?**  
Sergei L. Shishkin<sup>1</sup>, Ivan A. Basyul<sup>1,2</sup>, & Alexander Ya Kaplan<sup>1</sup>  
<sup>1</sup>*M.V. Lomonosov Moscow State University*, <sup>2</sup>*N.I. Lobachevsky State University of Nizhni Novgorod*
- 162. Rhythmical Muscle Tension and Resonance in the Cardiovascular System**  
Alex Vaschillo<sup>1</sup>, Anton Manyak<sup>2</sup>, & Marsha E. Bates<sup>3</sup>  
<sup>1</sup>*Redmond High School, Washington*, <sup>2</sup>*University of Washington*, <sup>3</sup>*Rutgers, The State University of New Jersey*
- 163. The Association Between Energy Level and Blood Pressure Response to a Visual Scanning Task Varies Across Low and Moderate Levels of Difficulty**  
Christopher C. Stewart<sup>1</sup>, Rex A. Wright<sup>1</sup>, Siu-kuen A. Hui<sup>1</sup>, Angel Simmons<sup>1</sup>, & Richard J. Contrada<sup>2</sup>  
<sup>1</sup>*University of Alabama at Birmingham*, <sup>2</sup>*Rutgers—The State University of New Jersey*
- 164. Direct and Indirect Stereotype Threats Both Affect Heart Rate on Spatial Reasoning Tasks**  
Martha A. Rotzoll, Stephanie J. Wilson, Erika K. Reckert, Alexandra M. Nobel, Elizabeth Lee Berry, Sarah E. Barowka, & Jeffrey J. Sable  
*Rhodes College*
- 165. The Effects of Perseverative Cognition on Cardiovascular Regulation in a Healthy College Student Sample: Ethnic Differences**  
LaBarron K. Hill, John J. Sollers, III, & Julian F. Thayer  
*The Ohio State University*
- 166. Physiological Predictors of Executive Functioning in Everyday Contexts**  
Stefan Sutterlin<sup>1</sup>, Claus Vogeled<sup>2</sup>, & Stein Andersson<sup>3</sup>  
<sup>1</sup>*University of Würzburg*, <sup>2</sup>*Roehampton University London*, <sup>3</sup>*Rikshospitalet University Hospital*
- 167. Behavioral and Cardiovascular Responses to Frustration During Block Design and Simulated Driving Tasks in Young Adults With and Without Attention Disorder Symptoms**  
Michele L. Oliver, Richard W. Backs, & Nicholas D. Cassavaugh  
*Central Michigan University*

- 168. Cardiac PEP Responding to Incentives Among Children Predicts Levels of Alcohol Use 3 Years Later**  
Theodore P. Beauchaine & Sharon L. Brenner  
*University of Washington*
- 169. Reduction in Pain Sensitivity Due to Pharmacological Blood Pressure Elevation in Chronically Low Blood Pressure**  
Stefan Duschek, Heike Heiss, Natalie Werner, & Rainer Schandry  
*University of Munich*
- 170. The Relationship of Aggressive Behavior to Cardiovascular and HPA Axis Activity**  
Robina Khan<sup>1</sup>, Alex Bender<sup>1</sup>, Katja Bertsch<sup>1</sup>, Menno R. Kruk<sup>2</sup>, Steffen Richter<sup>1</sup>, & Ewald Naumann<sup>1</sup>  
<sup>1</sup>*University of Trier*, <sup>2</sup>*Leiden University*
- 171. Evaluation of Workload Changes During an Aviator Selection Test Battery**  
Jason D. Moss<sup>1</sup>, Alexander D. Walker<sup>1</sup>, Karin Meissner<sup>2</sup>, & Eric R. Muth<sup>1</sup>  
<sup>1</sup>*Clemson University*, <sup>2</sup>*Ludwig Maximilian University of Munich*
- 172. Heart Rate Variability and Severity of Depression Before and After Electroconvulsive Therapy**  
Joke H. M. Tulen & Walter W. Van den Broek  
*Erasmus Medical Center Rotterdam*
- 173. Institutional Support of Persons with Schizophrenia is Relevant for the Heart Rate Response to Stress of Their Caregivers**  
Esperanza González-Bono, Sara de Andrés-García, David Castillo-Pelegrin, & Luis Moya-Albiol  
*University of Valencia*
- 174. Excitation Transfer in Decision Making: Does Transferred Arousal Increase Deviation from Rational Choice?**  
Dennis Küster<sup>1</sup>, Olivier Corneille<sup>1,2</sup>, & Pierre Philippot<sup>1,2</sup>  
<sup>1</sup>*Université Catholique de Louvain*, <sup>2</sup>*Jacobs University Bremen*

- 175. Cardiac Autonomic Regulation and Anger Coping in Adolescents**  
Claus Vogele<sup>1</sup>, Sonja Sorg<sup>2</sup>, Markus Studtmann<sup>3</sup>, & Hannelore Weber<sup>4</sup>  
<sup>1</sup>*Roehampton University*, <sup>2</sup>*University of Ulm*, <sup>3</sup>*Max Planck Institute for Human Development*, <sup>4</sup>*University of Greifswald*
- 176. Isolated Clinic Hypertension and Orienting/Defensive Response Pattern**  
Alfonso Salgado<sup>1</sup> & Almudena Duque<sup>2</sup>  
<sup>1</sup>*Pontificia University of Salamanca*, <sup>2</sup>*Complutense University of Madrid*
- 177. Mental Rotation in Preschoolers: Sex Differences in Hemispheric Asymmetry**  
Nicola Hahn<sup>1</sup>, Jan-Henryk Dombrowski<sup>2</sup>, Petra Jansen<sup>1</sup>, & Martin Heil<sup>2</sup>  
<sup>1</sup>*University of Regensburg*, <sup>2</sup>*Heinrich Heine University of Duesseldorf*
- 178. Development of Functional Brain Organization: Heritability and Stability Across the Life Span**  
Dirk J. A. Smit<sup>1</sup>, Klaus Linkenkaer-Hansen<sup>1</sup>, Maria Boersma<sup>2</sup>, Toos C. E. M. van Beijsterveldt<sup>1</sup>, Danielle Posthuma<sup>1</sup>, Dorret I. Boomsma<sup>1</sup>, Kees J. Stam<sup>2</sup>, & Eco J. C. de Geus<sup>1</sup>  
<sup>1</sup>*Vrije University—Amsterdam*, <sup>2</sup>*Vrije University Medical Center*
- 179. Development of Face Recognition in Primary School Children**  
Eveline A. De Bruin<sup>1</sup>, Vanessa E. G. Martens<sup>1</sup>, Johanna C. Glimmerveen<sup>2</sup>, & Jan W. Van Strien<sup>2</sup>  
<sup>1</sup>*Unilever Research and Development Vlaardingen*, <sup>2</sup>*Erasmus University Rotterdam*
- 180. Development of Automatic Musical Memory Functions in Children from 2 to 4 Years of Age**  
Vesa Putkinen, Mari Tervaniemi, & Minna Huotilainen  
*University of Helsinki*

**181. Behavioral and ERP Correlates of Conceptual and Perceptual Repetition in Children and Young Adults**

Daniela Czernochowski<sup>1</sup>, Martina Becker<sup>2</sup>, & Axel Mecklinger<sup>2</sup>

<sup>1</sup>Heinrich Heine University of Duesseldorf, <sup>2</sup>Saarland University

**182. The Heart-Brake of Social Rejection: A Heart Rate Analysis of Developmental Change in Sensitivity to Peer Rejection**

Bregtje Gunther Moor<sup>1</sup>, Marieke G. N. Bos<sup>1</sup>, Eveline A. Crone<sup>2</sup>, & Maurits W. Van der Molen<sup>1</sup>

<sup>1</sup>University of Amsterdam, <sup>2</sup>Leiden University

**183. Effects of Auditory Novelty and Task Load on Auditory and Visual Brain Responses in Children and Adults**

Philipp Ruhnau, Nicole Wetzel, Andreas Widmann, & Erich Schröger

*Institute for Psychology I, University of Leipzig*

**184. Psychophysiological Effects of Enhanced Sustained Attention in Recurrently Depressed Patients After Mindfulness Training**

Philipp M. Keune, Vladimir Bostanov, Boris Kotchoubey, & Martin Hautzinger

*University of Tübingen*

**185. Facilitated Processing of Positive Emotional Information by Verbal Structural Parallelisms: An ERP Study**

Beate Czerwon<sup>1</sup>, Annette Hohlfeld<sup>2</sup>, Heike Wiese<sup>2</sup>, & Katja Werheid<sup>1</sup>

<sup>1</sup>Humboldt University, Berlin, <sup>2</sup>University of Potsdam

**186. Eye Blink Conditioning During PPI Measurement in Neonates**

Susanne E. Suter<sup>1</sup>, Harriet J. Huggenberger<sup>1</sup>, Terry D. Blumenthal<sup>2</sup>, & Hartmut Schachinger<sup>3</sup>

<sup>1</sup>University of Basel, <sup>2</sup>Wake Forest University, <sup>3</sup>University of Trier

***Clustered Poster Session #2***

*Abstract*

**Neural Basis of Anxiety Disorders**

Chair: Thomas Straube

*Friedrich-Schiller-University Jena*



**Descriptors:** fear, functional imaging, anxiety disorders

- 187. Differential Conditioning in Spider Phobia: Subjective, Electrodermal and Bold Responses**  
Jan Schweckendiek, Tim Klucken, Christian J. Merz, Katharina Tabbert, & Rudolf Stark  
*Justus-Liebig University Giessen*
- 188. Neural Correlates of Emotional Stroop Interference in Patients Suffering from Social Phobia**  
Stephanie Schmidt, Wolfgang H. R. Miltner, & Thomas Straube  
*Friedrich-Schiller-University Jena*
- 189. Neural Basis of Automatic Processing of Disorder-Related Stimuli in Specific Phobia**  
Thomas Straube, Judith Lipka, & Wolfgang H. R. Miltner  
*Friedrich-Schiller-University Jena*
- 190. The Role of Hippocampus and Context Conditioning in Posttraumatic Stress Disorder: A Cross-Sectional Study in Traumatized and Non-Traumatized Paramedics**  
Sebastian Pohlack, Claudia Liebscher, Stephanie Ridder, Slawomira Lipinski, & Herta Flor  
*University of Heidelberg, Mannheim*

### ***Clustered Poster Session #3***

#### *Abstract*

#### **Psychophysiology of the Placebo Response**

**Chairs:** Magne Arve Flaten<sup>1</sup> & Paul Enck<sup>2</sup>

<sup>1</sup>*University of Tromsø, Norway*, <sup>2</sup>*University Hospital Tübingen, Germany*

**Descriptors:** placebo response, pharmacology, Classical conditioning

#### **191. The Effect of an Active Placebo on Pain-Induced Event Related Potentials in a Balanced Placebo Design**

Espen Bjørkedal, Thomas Neremo, Per M. Aslaksen, & Magne Arve Flaten

*University of Tromsø*

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- 192. The Fully-Balanced and the Half-Balanced Placebo Design**  
Paul Enck & Sibylle Klosterhalfen  
*University Hospital Tübingen, Germany*
- 193. Placebo Effects on Blood Pressure Induced by Expectancy Manipulation**  
Karin Meissner & Dagmar Ziep  
*Ludwig-Maximilians University of Munich*
- 194. The Learned Immune Response: Pavlov and Beyond**  
Manfred Schedlowski  
*University Clinic Essen, Germany*
- 195. Placebo-Interventions on Blood Pressure—Lack of Autonomic Effects**  
F. Zimmermann-Viehoff<sup>1</sup>, K. Meissner<sup>2</sup>, C. Weber<sup>1</sup>, J. Koch<sup>1</sup>, & H.-C. Deter<sup>1</sup>  
<sup>1</sup>*Charité University Medical Center Berlin*, <sup>2</sup>*Ludwig-Maximilians University of Munich*

**Poster Session IV**  
**Saturday, October 24, 2009**

*Poster Session Schedule*

8:00 A.M.—10:00 A.M.	Posters Assembled
10:00 A.M.—4:00 P.M.	Posters Available for Viewing
4:00 P.M.—6:00 P.M.	Authors Present for Discussion and Questions
6:00 P.M.—7:00 P.M.	Dismantle Posters

**1. Attentional Deficits in an Attention-to-Prepulse Paradigm in ADHD and the Influence of the DAT Polymorphism**

Annette Conzelmann, Paul Pauli, Ronald F. Mucha, Christian P. Jacob, Antje B. M. Gerdes, Georg W. Alpers, Andreas Warnke, Klaus-Peter Lesch, & Peter Weyers  
*University of Würzburg*

**2. A Human Pheromone as Safety Signal?**

Monika Frey, Peter Weyers, Paul Pauli, & Andreas Mühlberger  
*University of Würzburg*

**3. The Rewarding Aspect of an Aversive Event**

Marta Andreatta, Andreas Mühlberger, Antje Gerdes, Matthias Wieser, Bertram Gerber, & Paul Pauli  
*University of Würzburg*

**4. Experimentally Produced Cues for Smoking Elicit Preparatory Responses in Healthy Smokers**

Markus Winkler<sup>1</sup>, Anita Kraiss<sup>1</sup>, Ronald F. Mucha<sup>1</sup>, Peter Weyers<sup>1</sup>, Bastian Stippekohl<sup>2</sup>, Rudolf Stark<sup>2</sup>, & Paul Pauli<sup>1</sup>  
<sup>1</sup>*University of Würzburg*, <sup>2</sup>*University of Giessen*

**5. Fear Conditioning in Immersive Virtual Reality**

Heike Ewald, Evelyn Glotzbach, Christian Troeger, Paul Pauli, & Andreas Mühlberger  
*University of Würzburg*

**6. Corrugator Relaxation as a Sign of a Felt Smile**

Katja U. Likowski, Paul Pauli, & Peter Weyers  
*University of Würzburg*

- 7. Augmenting CBT for GAD with Biofeedback or Progressive Muscle Relaxation Yields Similar Effects**  
Stefan M. Schulz<sup>1</sup>, Jenny Murphy<sup>2</sup>, James L. Spira<sup>3</sup>, Richard Gevirtz<sup>2</sup>, Sanna Heering<sup>4</sup>, Fred Muench<sup>5</sup>, Paul Pauli<sup>1</sup>, Georg W. Alpers<sup>1</sup>, & Stefan G. Hofmann<sup>4</sup>  
<sup>1</sup>University of Würzburg, <sup>2</sup>Alliant International University, <sup>3</sup>University of California, San Diego, <sup>4</sup>Boston University, <sup>5</sup>Helicor, Inc.
- 8. Perceptual Cues vs. Conceptual Information: Psychophysiology of Spider Phobia in Virtual Reality**  
Henrik Peperkorn, Georg W. Alpers, & Andreas Mühlberger  
University of Würzburg
- 9. Startle Potentiation in Fear-Related Situations: The Case of Claustrophobia**  
Georg W. Alpers<sup>1,2</sup> & Antje B. M. Gerdes<sup>1</sup>  
<sup>1</sup>University of Würzburg, <sup>2</sup>University of Eichstätt
- 10. Continuous Changes in Affect Following a Discrete Stimulus: Relationships of Multiple Behavioral Indices to Psychophysiology and Brain Imaging Data in Healthy and Depressed Adults**  
Greg J. Siegle, Michelle Horner, & Edward S. Friedman  
University of Pittsburgh School of Medicine
- 11. Effect of Sensory Modality of Go Stimuli in the Stop-Signal Paradigm: A Behavioral and ERP Study**  
Magdalena Senderecka<sup>1</sup>, Jakub Szewczyk<sup>1</sup>, & Anna Grabowska<sup>2</sup>  
<sup>1</sup>Jagiellonian University, <sup>2</sup>Nencki Institute of Experimental Biology
- 12. A Multi-Level Multi-Method Analysis of Conflict Resolution: Genes, Personality and ERPs**  
Aminda J. O'Hare<sup>1</sup>, Joseph Dien<sup>2</sup>, Omri Gillath<sup>1</sup>, Melanie Canterbury<sup>1</sup>, & Dean Stetler<sup>1</sup>  
<sup>1</sup>University of Kansas, <sup>2</sup>Center for the Advanced Study of Language, University of Maryland, College Park
- 13. Affective Pictures But Not Words Modulate the LPP**  
Keith M. Young, Aminda J. O'Hare, Austin Fitts, & Ruth Ann Atchley  
University of Kansas

- 14. Anxiety and Cerebral Blood Flow Under Different Levels of CO<sub>2</sub>**  
Johan Bresseleers, Ilse van Diest, Peter Verhamme, Steven de Peuter, & Omer Van den Bergh  
*University of Leuven*
- 15. Interoceptive Stimuli and Prepulse Inhibition**  
Meike Pappens, Debora Vansteenwegen, Steven de Peuter, Casper Wuyts, Omer Van den Bergh, & Ilse van Diest  
*University of Leuven*
- 16. The Effect of an Imposed Sigh Following Mental Stress**  
Elke Vlemincx, Joachim Taelman, Steven de Peuter, Ilse van Diest, & Omer van den Bergh  
*University of Leuven*
- 17. Ego-Involvement and Mental Fatigue Influence on Cardiovascular Response to a Performance Challenge**  
Patricia Barreto, Sara Walker, David Stephenson, & Rex A. Wright  
*The University of Alabama at Birmingham*
- 18. Impaired Recovery from Negative Stimuli Across Paradigms and Measures**  
Stacey M. Schaefer<sup>1</sup>, Carien M. van Reekum<sup>2</sup>, Regina C. Lapate<sup>1</sup>, Catherine J. Norris<sup>3</sup>, David R. W. Bachhuber<sup>1</sup>, Matthew J. Sutterer<sup>1</sup>, Adam M. Koppenhaver<sup>1</sup>, & Richard J. Davidson<sup>1</sup>  
<sup>1</sup>*University of Wisconsin, Madison*, <sup>2</sup>*University of Reading*, <sup>3</sup>*Dartmouth College*
- 19. A Mock Terrorism Application of the P300 Based Concealed Information Test**  
John B. Meixner & J. Peter Rosenfeld  
*Northwestern University*
- 20. P300-Based Protocol with Acoustic Stimuli for Detection of Concealed Information**  
Elena B. Labkovsky & J. Peter Rosenfeld  
*Northwestern University*
- 21. Accuracy of the P300-Based Complex Trial Protocol for Detection of Deception as a Function of Number of Countered Irrelevant Stimuli**  
Elena B. Labkovsky & J. Peter Rosenfeld  
*Northwestern University*

- 22. Putative Novel ERP Component (P900) as an Indicator of Countermeasure Use in a Modified Complex Trial Protocol**  
Elena B. Labkovsky, J. Peter Rosenfeld, & Alex Sokolovsky  
*Northwestern University*
- 23. Psychophysiological Reactivity to Composite Blue and White LED Light: Crime Prevention Through Environmental Design**  
Shinji Hira<sup>1</sup>, Kyouzo Watanabe<sup>2</sup>, Hiroshi Okada<sup>2</sup>, Yuichi Nishimura<sup>2</sup>, Kimiaki Nagatome<sup>3</sup>, Noriko Shimada<sup>3</sup>, & Yuki Hamamoto<sup>4</sup>  
<sup>1</sup>*Fukuyama University*, <sup>2</sup>*Osaka Prefectural Government*, <sup>3</sup>*Hiroshima Kasei Ltd.*, <sup>4</sup>*Nagoya University*
- 24. Comparison of Auditory and Visual Stimulus Presentation During the P300-Based Concealed Information Test**  
Risa Misaka<sup>1</sup>, Shinji Hira<sup>1</sup>, & Isato Furumitsu<sup>2</sup>  
<sup>1</sup>*Fukuyama University*, <sup>2</sup>*University of East Asia*
- 25. Effects of Predictability of Shock Timing and Intensity on Aversive Responses**  
E. Jenna Robison, Brady D. Nelson, Sarah E. Altman, & Stewart A. Shankman  
*University of Illinois, Chicago*
- 26. ERP Evidence for Priming of Young But Not Old Faces During Age Categorization**  
Holger Wiese & Stefan R. Schweinberger  
*Friedrich Schiller University of Jena*
- 27. ERP Correlates of Improved Learning for Spatially Caricatured Faces**  
Jürgen M. Kaufmann & Stefan R. Schweinberger  
*Friedrich Schiller University of Jena*
- 28. Learning Task Effects on Neural Correlates of the Own-Race Bias**  
Johanna Stahl, Holger Wiese, & Stefan R. Schweinberger  
*Friedrich Schiller University of Jena*
- 29. Effects of a Benzodiazepine Agonist on Emotional Perception and Event-Related Potentials**  
Katarina Gospic<sup>1</sup>, Jonas Olofsson<sup>2</sup>, Anders Sand<sup>2</sup>, Predrag Petrovic<sup>1</sup>, Martin Ingvar<sup>1</sup>, & Stefan Wiens<sup>2</sup>  
<sup>1</sup>*Karolinska Institute*, <sup>2</sup>*Stockholm University*

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- 30. Are Late Positive Potentials to Emotional Pictures Influenced by Movement Cues?**  
Anders Sand, Joakim Norberg, & Stefan Wiens  
*Stockholm University*
- 31. Late Positive Potentials to Task-Irrelevant Threat in Spider Fear**  
Joakim Norberg, Nathalie Peira, & Stefan Wiens  
*Stockholm University*
- 32. The Interaction of Explicit Target and Implicit Emotion Categorization**  
Alexander Barth, Ralf Schmaelzle, Tobias Flaisch, Florian Bublatzky, & Harald T. Schupp  
*University of Konstanz*
- 33. Perceptual Encoding of Emotional Symbolic Gestures**  
Frank E. K. Häcker, Tobias Flaisch, Britta Renner, & Harald T. Schupp  
*University of Konstanz*
- 34. Concurrent Modulation of the Startle Reflex by Physical Threat and Affective Pictures**  
Florian Bublatzky<sup>1</sup>, Pedro Guerra<sup>2</sup>, M. Carmen Pastor<sup>3</sup>, Harald T. Schupp<sup>1</sup>, & Jaime Vila<sup>2</sup>  
<sup>1</sup>*University of Konstanz*, <sup>2</sup>*University of Granada*, <sup>3</sup>*Jaume I University*
- 35. Emotional Sequence Effects as a Function of Processing Demand and Perceptual Fluency**  
Tobias Flaisch, Florian Bublatzky, Ralf Schmaelzle, & Harald Schupp  
*University of Konstanz*
- 36. Neural Correlates of Food Pictures Processing**  
Christoph A. Becker, Tobias Flaisch, Frank Häcker, & Harald T. Schupp  
*University of Konstanz*
- 37. Heart Rate and Skin Conductance Reactivity to Written Emotional Disclosure**  
Andrea Konig, Alison M. Eonta, Stephanie R. Pitts, & Scott R. Vrana  
*Virginia Commonwealth University*

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- 38. Cross-Modal Consistency of Reaction Time Variability**  
Chris W. N. Saville, David Daley, James Intriligator, Stephan Boehm, & Christoph Klein  
*Bangor University*
- 39. Control Amid Chaos: ERP Indicators of Increased Conflict Monitoring Under Cognitive Load**  
Jason W. Kropf, Toni Luciano, Jennifer Petrongolo, & Robert F. Simons  
*University of Delaware*
- 40. Negative Biases with Intact Negative Inhibition in Depression: An ERP Study**  
Jason W. Kropf, Julia Janes, Toni Luciano, Jennifer Petrongolo, & Robert F. Simons  
*University of Delaware*
- 41. The Costs of Suppression: Individual Differences in Expressive Suppression are Associated with Increased N2, Decreased ERN, and Impaired Performance.**  
Erika A. Henry, Theresa Becker, John Kerns, & Bruce D. Bartholow  
*University of Missouri*
- 42. Oops! Guess I Was Drunk: The Effect of Alcohol on Affect and the Error Related Negativity (ERN)**  
Sarah A. Lust, Erika A. Henry, J. Scott Sauls, & Bruce D. Bartholow  
*University of Missouri*
- 43. Emotion Regulation Styles and the Processing of Emotional Images: An ERP Investigation**  
Nathan Bruning, Erika A. Henry, & Bruce D. Bartholow  
*University of Missouri*
- 44. Preserved Encoding of Unfamiliar Faces Under High Attentional Load: ERP Evidence**  
Markus F. Neumann, Tarik N. Mohamed, & Stefan R. Schweinberger  
*Friedrich Schiller University of Jena*
- 45. Comparison of Frontal Asymmetry Between Difficult Children and Non-Difficult Children**  
Peiling Wang, Hsinyin Chang, & Tsung-Min Hung  
*Taipei Municipal University of Education*



- 46. Comparison of Good and Poor Dart Throw Performance on EEG Alpha Coherence in Beginning Players**  
Jung-Huei Lin<sup>1</sup>, Huei-Ying Chen<sup>2</sup>, & Tsung-Min Hung<sup>3</sup>  
<sup>1</sup>National Ilan University, <sup>2</sup>Chang Gung Institute of Technology, <sup>3</sup>National Taiwan Normal University
- 47. Comparison of Best and Worst Performance on EEG Coherence in Skilled Dart Players**  
Chiao-Ling Hung<sup>1</sup>, Tsung-Min Hung<sup>2</sup>, & Che-Wei Chang<sup>2</sup>  
<sup>1</sup>Taipei Municipal Jilin Elementary School, <sup>2</sup>National Taiwan Normal University
- 48. Effect of T3 Alpha Neurofeedback Training on Alpha Power in Occipital and Left Frontal Regions**  
Tsung-Min Hung  
National Taiwan Normal University
- 49. Differences in Frontal Midline Theta During Dart Throwing Between Different Skill Levels**  
Wei-Ju Lin<sup>1</sup>, & Tsung-Min Hung<sup>2</sup>  
<sup>1</sup>Taiwan Hospitality & Tourism College, <sup>2</sup>National Taiwan Normal University
- 50. Will Osteoarthritis Patients Wearing a Knee Sleeve Increase Their Ability to Concentrate During a Joint Position Task? An EEG Study**  
Duen-Ren Sung<sup>1</sup> & Tsung-Min Hung<sup>2</sup>  
<sup>1</sup>Taipei Veterans General Hospital, <sup>2</sup>National Taiwan Normal University
- 51. Differences in SMR and Alpha Between Good and Poor Performance in Highly Skilled Dart Throwers**  
Shih-Yuan Tseng<sup>1</sup> & Tsung-Min Hung<sup>2</sup>  
<sup>1</sup>Taipei County Yong Ping Senior High School, <sup>2</sup>National Taiwan Normal University
- 52. Differences of Physiological Responses, Behavior Representation and Emotional Adaptation Between Inhibited and Uninhibited Children**  
Yu-Chun Tsai<sup>1</sup>, Tsung-Min Hung<sup>2</sup>, & Pei-Ling Wang<sup>1</sup>  
<sup>1</sup>Taipei Municipal University of Education, <sup>2</sup>National Taiwan Normal University

- 53. Patients with Posttraumatic Stress Disorder Show Structural Alterations in Brain Regions Associated with Contextual and Episodic Memory Networks—A Combined Cortical Parcellation/VBM Study**  
Cindy Eckart<sup>1</sup>, Joern Kaufmann<sup>2</sup>, Christian Stoppel<sup>2</sup>, Claus Tempelmann<sup>2</sup>, Hermann Hinrichs<sup>2</sup>, Hans-Jochen Heinze<sup>2</sup>, Thomas Elbert<sup>1</sup>, & Iris-Tatjana Kolassa<sup>1</sup>  
<sup>1</sup>University of Konstanz, <sup>2</sup>University of Magdeburg
- 54. The Inner Voice as an Agent of Self-Control**  
Alexa M. Tullett & Michael Inzlicht  
*University of Toronto*
- 55. Illuminating Awareness: Investigating the Temporal and Spatial Neural Dynamics of Metacontrast Masking Using the Event-Related Optical Signal**  
Kyle E. Mathewson<sup>1</sup>, Diane M. Beck<sup>1</sup>, Tony Ro<sup>2</sup>, Monica Fabiani<sup>1</sup>, & Gabriele Gratton<sup>1</sup>  
<sup>1</sup>University of Illinois, Urbana-Champaign, <sup>2</sup>The City College of the City University of New York
- 56. Probing the Neural Correlates of Temporal Processing of Multimodal Stimuli: An ERP Study**  
Marek Binder & Jan Kaiser  
*Jagiellonian University*
- 57. Online Probing of Brain-States: Introducing the Console Environment**  
Thomas Hartmann & Nathan Weisz  
*University of Konstanz*
- 58. Emotion Processing Deficits in Alexithymia: A Psychophysiological Study**  
Elena Constantinou & Georgia Panayiotou  
*University of Cyprus*
- 59. Personality and the Experience of Emotion Through Mental Imagery**  
Elena Constantinou, Margarita Kapsou, Georgia Panayiotou, & Anna Kyriacou  
*University of Cyprus*
- 60. N170 Respond to Stimuli Relevance in Facial Emotional Recognition in a Go/Nogo Paradigm**  
Julieta Ramos-Loyo<sup>1</sup>, Yolanda Del-Rio-Portilla<sup>2</sup>, Andres Gonzalez-Garrido<sup>1</sup>, & Gregorio Garcia<sup>1</sup>  
<sup>1</sup>University of Guadalajara, <sup>2</sup>National Autonomous University of Mexico

- 61. Enhanced Left-Hemispheric Hippocampal Activation in PTSD Patients During the Transverse Patterning Task—An MEG Study**  
Julia Morath<sup>1</sup>, Iris T. Kolassa<sup>1</sup>, Michael Odenwald<sup>1</sup>, Vera Leirer<sup>1</sup>, Franka Glöckner<sup>1</sup>, Stephan Kolassa<sup>2</sup>, & Thomas Elbert<sup>1</sup>  
<sup>1</sup>University of Konstanz, <sup>2</sup>Research & Innovation, SAF Simulation, Analysis & Forecasting AG
- 62. Hippocampal Activity During the Transverse Patterning Task Does Not Correlate with Age**  
Vera M. Leirer<sup>1</sup>, Christian Wienbruch<sup>1</sup>, Isabella Paul<sup>1</sup>, Stephan Kolassa<sup>2</sup>, Thomas Elbert<sup>1</sup>, & Iris T. Kolassa<sup>1</sup>  
<sup>1</sup>University of Konstanz, <sup>2</sup>Research & Innovation, SAF Simulation, Analysis & Forecasting AG
- 63. Event-Related Brain Dynamics of Change Detection Versus Change Blindness Using Independent Component Analyses**  
Paula Pazo-Alvarez<sup>1</sup>, Álvaro Darriba<sup>1</sup>, Almudena Capilla<sup>2</sup>, & Elena Amenedo<sup>1</sup>  
<sup>1</sup>University of Santiago de Compostela, <sup>2</sup>University of Glasgow
- 64. Neural Processing of Mass, Count and Dual Nouns: An ERP Investigation**  
Chiara Mazzi<sup>1</sup>, Megan M. Eve<sup>2</sup>, & Brendan S. Weekes<sup>2</sup>  
<sup>1</sup>University of Verona, <sup>2</sup>University of Sussex
- 65. Cardiovascular and Skin Conductance Response to Cooperation**  
Luis Moya-Albiol, Sara de Andrés-García, David Castillo-Pelegrín, Patricia Sariñana, Maria Victoria Sanchis, Maria José Martínez-Morató, & Esperanza González-Bono  
University of Valencia
- 66. An Examination of the Effect of Alcohol Context Pre-Exposure on ERPs Elicited by Alcohol-Related Sentences**  
Ty Brumback, Siri-Maria Kamp, Mark S. Goldman, & Emanuel Donchin  
University of South Florida
- 67. Mismatch Negativity Generators in Healthy Participants: Imaging with Sloreta**  
Derek J. Fisher<sup>1</sup> & Verner J. Knott<sup>2</sup>  
<sup>1</sup>Carleton University, <sup>2</sup>University of Ottawa Institute of Mental Health Research

- 68. Enhancement of N2PC by Nicotine in Responsive Non-Smokers**  
Dhrasti K. Shah<sup>1,2</sup>, Danielle M. Impey<sup>1,3</sup>, Mario Chique-Alfonzo<sup>3</sup>, Derek J. Fisher<sup>1,2</sup>, Laura Lorenzo-López<sup>4</sup>, & Verner J. Knott<sup>1,2,3</sup>  
<sup>1</sup>*University of Ottawa Institute of Mental Health Research*, <sup>2</sup>*Carleton University*, <sup>3</sup>*University of Ottawa*, <sup>4</sup>*University of Santiago de Compostela*
- 69. Emotion as a Central Theme in Psychophysiology Research**  
Maria Isabel M. I. Viedma-del-Jesus<sup>1</sup>, Miguel Angel M. A. Muñoz<sup>1,2</sup>, Pandelis P. Perakakis<sup>1</sup>, & Jaime J. Vila<sup>1</sup>  
<sup>1</sup>*University of Granada*, <sup>2</sup>*University of Balearic Islands*
- 70. Infants Orient More Quickly to Threatening Voices**  
Cat Thrasher, Vanessa Lobue, James A. Coan, & Judy S. DeLoache  
*University of Virginia*
- 71. Relatively Greater Right Prefrontal Activity Corresponds with Higher Levels of Empathy**  
Amanda R. W. Steiner, James A. Coan, & Elizabeth A. Bendycki  
*University of Virginia*
- 72. Brain Activity Related to Positive, Negative and Neutral Feedbacks in Obsessive-Compulsive Disorder**  
Thomas S. Hiller, Alexander M. Nitsch, Wolfgang H. R. Miltner, & Thomas Straube  
*Institute for Psychology, Friedrich Schiller University of Jena*
- 73. Manipulation of Awareness Differentially Modulates Amygdala Responses to Phobic Stimuli**  
Judith Lipka, Wolfgang H. R. Miltner, & Thomas Straube  
*Friedrich Schiller University of Jena*
- 74. Somatosensory Evoked Magnetic Fields of Selectively Activated C-Fibers**  
Alexander Ritter, Marcel Franz, Wolfgang H. R. Miltner, Stefan Debener, & Thomas Weiss  
*Friedrich Schiller University of Jena*

- 75. Somatosensory Deafferentation of the Stroke-Affected Arm Improves its Motor Recovery in Stroke Patients**  
Thomas Weiss, Elisabeth Sens, Winfried Meissner, Otto W. Witte, & Wolfgang H. R. Miltner  
*Friedrich Schiller University of Jena*
- 76. Do Words Hurt? Brain Activation During the Processing of Pain Words**  
Maria Richter, Judith Eck, Thomas Straube, Wolfgang H. R. Miltner, & Thomas Weiss  
*Friedrich Schiller University of Jena*
- 77. The Moderating Role of Need for Cognitive Closure on Cardiovascular Reactions to Intercultural Encounters: A Biopsychosocial Analysis**  
Liesbet Mous<sup>1</sup>, Jakub Samochowiec<sup>1</sup>, Arnd Florack<sup>2</sup>, Michaela Wänke<sup>1</sup>, Wendy B. Mendes<sup>3</sup>, & Frank H. Wilhelm<sup>1</sup>  
<sup>1</sup>University of Basel, <sup>2</sup>Zeppelin University, <sup>3</sup>Harvard University
- 78. Vagal Control and Negative Affect: An Ambulatory Monitoring Study in Pregnant Women**  
Maren I. Müller, Sophie Lefèvre, Paul Grossman, Andrea H. Meyer, Wolfgang Holzgreve, Irene Hösli, Carolyn Troeger, Evelyn Huhn, Milena Knezevic, & Frank H. Wilhelm  
*University of Basel*
- 79. Anxiety, Vagal Control, and Regulation of Facial Expression**  
Denise Schinkoethe<sup>1</sup>, Birgit Mueller<sup>1</sup>, Sandra Kull<sup>1</sup>, Tanja Michael<sup>1</sup>, Paul Grossman<sup>2</sup>, James J. Gross<sup>3</sup>, & Frank H. Wilhelm<sup>1</sup>  
<sup>1</sup>University of Basel, <sup>2</sup>University Hospital Basel, <sup>3</sup>Stanford University

- 80. Physiologic Instability and Coherence Among Experienced Anxiety, Dyspnea, and Psychophysiological Measures in Patients with Panic Disorder: Evidence for Emotion Regulatory Deficits**  
Susan C. A. Burkhardt<sup>1</sup>, Walton T. Roth<sup>2</sup>, Alicia E. Meuret<sup>3</sup>, Jens Blechert<sup>4</sup>, & Frank H. Wilhelm<sup>1</sup>  
<sup>1</sup>University of Basel, <sup>2</sup>Stanford University & Department of Veterans Affairs Health Care System, Palo Alto, <sup>3</sup>Southern Methodist University, <sup>4</sup>University of Freiburg
- 81. Cognitive Enhancers as Adjuncts to Psychotherapy: Use of Glucocorticoids in Phobic Individuals to Facilitate Extinction of Fear**  
Frank H. Wilhelm<sup>1</sup>, Tanja Michael<sup>1</sup>, Juergen Margraf<sup>4</sup>, Dorothee Bentz<sup>1</sup>, Olivia Bolt<sup>1</sup>, Brenda K. Wiederhold<sup>2</sup>, & Dominique de Quervain<sup>3</sup>  
<sup>1</sup>University of Basel, <sup>2</sup>Interactive Media Institute, <sup>3</sup>University of Zurich
- 82. Interaction Effects of Visual and Auditory Distractions on Pain Threshold and Tolerance in Older Adults**  
Tim Wright & Bryan Raudenbush  
*Wheeling Jesuit University*
- 83. Effects of Chocolate Consumption on Pain Threshold and Tolerance**  
Scott Bonnette, Kristin McCombs, Amanda Stover, Kristen Winters, & Bryan Raudenbush  
*Wheeling Jesuit University*
- 84. Effects of Grapefruit Scent on Enhancing Cognitive Performance**  
Justin Schmitt, Kristen Koval, Ramsey Miller, & Bryan Raudenbush  
*Wheeling Jesuit University*
- 85. Sham Intoxication: Effects on Performance and Physiology During Nintendo Wii Fit Balance Games**  
Megan Foutty, Keith Fleischmann, Tim Wright, & Bryan Raudenbush  
*Wheeling Jesuit University*
- 86. Neural Mechanisms of Long-Term Preservation of Visual Perceptual Learning: An ERP Study**  
Zhe Qu<sup>1</sup>, Yan Song<sup>2</sup>, & Ding Yulong<sup>1</sup>  
<sup>1</sup>Sun Yat-Sen University, <sup>2</sup>Beijing Normal University

- 87. Role of Goal-Directed Attention on Short-Term Visual Perceptual Learning**  
Yulong Ding, You Wang, Xiaoli Chen, & Zhe Qu  
*Sun Yat-Sen University*
- 88. Neural Mechanisms of Long-Term Preservation of Visual Perceptual Learning: An ERP Study**  
Zhe Qu<sup>1</sup>, Yulong Ding<sup>1</sup>, & Yan Song<sup>2</sup>  
<sup>1</sup>*Sun Yat-Sen University*, <sup>2</sup>*Beijing Normal University*
- 89. Why is the P3 Latency During the Attentional Blink Delayed?**  
Fumihito Morimoto & Akihiro Yagi  
*Kwansei Gakuin University*
- 90. Feedback Related Negativity: Temporal Parameterization and Relations with Perceived Stress**  
Michael J. Crowley, Jia Wu, Christopher A. Bailey, & Linda C. Mayes  
*Yale Child Study Center, Yale University School of Medicine*
- 91. Visual Perception and Oculomotor Control by Developmental Dyslexics in a Parafoveally Cued Saccade Task**  
Kiyomi Yatabe<sup>1</sup>, Masumi Inagaki<sup>1</sup>, Kouta Suzuki<sup>2</sup>, Hiroko Yamasaki<sup>3</sup>, & Makiko Kaga<sup>1</sup>  
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<sup>1</sup>*University of Salzburg*, <sup>2</sup>*University Hospital Eppendorf, University of Hamburg*

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Axel Schäfer<sup>1</sup>, Dieter Vaitl<sup>2</sup>, & Anne Schienle<sup>1</sup>

<sup>1</sup>*University of Graz,* <sup>2</sup>*Bender Institute of Neuroimaging*

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<sup>1</sup>*University of Graz,* <sup>2</sup>*University of Giessen*

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<sup>1</sup>Nagoya University, <sup>2</sup>Japan Society for the Promotion of Science, <sup>3</sup>Kizawa Memorial Hospital, Chubu Medical Center for Prolonged Traumatic Brain Dysfunction
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- 178. Filters for Optimal Smoothing of the Startle Eyeblick EMG Response**  
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- 181. Physiological Consequences of Anger Rumination: An Ambulatory Study**  
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- 182. Low-Intensity Light and the Restorative Effect of Sleep**  
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<sup>1</sup>*Vrije University of Brussels*, <sup>2</sup>*Catholic University of Leuven*, <sup>3</sup>*Antwerp University Hospital*
- 183. Effects of Viewing Affective Pictures on Nighttime Sleep: Latency to Non-REM Sleep Stages**  
Toshihiko Sato  
*Tohoku Bunka Gakuen University*

**Clustered Poster Session #4***Abstract***Emotions on Our Mind: The Role of Emotion Regulation and Self-Reference for Emotional Reactivity and Emotion Processing**Chairs: Beate M. Herbert<sup>1</sup> & Olga Pollatos<sup>2</sup><sup>1</sup>Eberhard-Karls-University Tübingen and University Hospital Tübingen, <sup>2</sup>Ludwig-Maximilians-University Munich

Descriptors: emotion regulation, self-reference, alexithymia

**184. Emotional Hyper- or Hyporeactivity in Alexithymia? Clues for Altered Emotion Regulation Strategies During Emotional Picture Viewing**Beate M. Herbert<sup>1</sup> & Cornelia Herbert<sup>2</sup><sup>1</sup>Eberhard-Karls-University Tübingen and University Hospital Tübingen, <sup>2</sup>Julius-Maximilians-University of Würzburg**185. Self-Reference Modulates the Processing of Verbal Emotional Stimuli**Cornelia Herbert<sup>1</sup>, Beate M. Herbert<sup>2</sup>, & Paul Pauli<sup>1</sup><sup>1</sup>Julius-Maximilians-University Würzburg, <sup>2</sup>Eberhard-Karls-University Tübingen and University Hospital Tübingen**186. Differences in the Central Processing and Voluntary Regulation of Emotions in Alexithymia—An EEG Study**Olga Pollatos<sup>1</sup> & Klaus Gramann<sup>2</sup><sup>1</sup>Ludwig-Maximilians-University Munich, <sup>2</sup>University of California, San Diego**187. Alexithymia, Peripheral Reactivity and Emotion Regulation During a Social Stress Task**Ellen Matthias<sup>1</sup>, Beate M. Herbert<sup>2</sup>, & Olga Pollatos<sup>1</sup><sup>1</sup>Ludwig-Maximilians-University Munich, <sup>2</sup>Eberhard-Karls-University Tübingen and University Hospital Tübingen**Clustered Poster Session #5***Abstract***Emotions in Word and Face Processing**Chairs: Annekathrin Schacht & Werner Sommer  
Humboldt University, Berlin

**Descriptors:** emotions, word processing, face processing

**188. Emotions in Word and Face Processing: Recent Evidence from ERPs and Peripheral Indicators**

Annekathrin Schacht & Werner Sommer

*Humboldt University, Berlin*

**189. Effects of Emotion in Words are Localized in Post-Lexical Processing Stages**

Marina Palazova, Katharina Mantwill, Werner Sommer, & Annkathrin Schacht

*Humboldt University, Berlin*

**190. Emotion in Word Processing: Valence and Arousal in Event-Related Brain Potentials and Peripheral Indicators**

Mareike Bayer, Werner Sommer, & Annkathrin Schacht

*Humboldt University, Berlin*

**191. Between Passive Viewing and Emotion Decisions: How Automatic is Emotional Face Processing?**

Julian Rellecke, Annkathrin Schacht, & Werner Sommer

*Humboldt University, Berlin*

**192. Effect of Face Motion on Emotional Expression Recognition: An ERP Study**

Guillermo Recio, Annkathrin Schacht, & Werner Sommer

*Humboldt University, Berlin*

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# PROGRAM SCHEDULE AT-A-GLANCE

## Wednesday, October 21, 2009

- 8:30 A.M.–5:00 P.M., Room A03, Pre-Conference Workshop #1, *Heart Rate Variability*  
8:30 A.M.–5:00 P.M., Room A04, Pre-Conference Workshop #2, *Introduction to Time-Frequency Analysis*  
8:30 A.M.–5:00 P.M., Room A05, Pre-Conference Workshop #3, *Advanced fMRI Signal Processing Using Statistical Parametric Mapping (SPM)*  
12:00 noon–5:30 P.M., C03, *SPR Board of Directors Meeting*  
5:30 P.M.–9:00 P.M., B01 Foyer, *Registration Opens*  
1:00 P.M.–10:00 P.M., Level B Foyer, *Internet Station*  
6:00 P.M.–8:00 P.M., B01, *Opening Reception; Exhibits Open*—Cash bar and hors d'oeuvres. All attendees welcome!  
8:00 P.M.–10:00 P.M., A01, A02 & A08, *Poster Session I; Exhibits Open*

## Thursday, October 22, 2009

- 7:30 A.M.–6:15 P.M., B01 Foyer, *Registration*  
8:00 A.M.–8:00 P.M., Level B Foyer, *Internet Station*  
8:15 A.M.–10:00 A.M., B06, Symposium 1.1, *Levels of Meaning: Current Neural Perspectives on the N400*  
8:15 A.M.–10:00 A.M., C01, Symposium 1.2, *The Affect-Motivation Link: Central and Peripheral Nervous System Processes*  
8:15 A.M.–10:00 A.M., B08, Symposium 1.3, *Extracting Information from Complex Visual Arrays: Attention, Emotion, and Action*  
8:15 A.M.–10:00 A.M., B09, Symposium 1.4, *Using Event-Related Potentials to Investigate Affective Processes in Smokers*  
10:00 A.M.–8:00 P.M., B01, *Exhibits Open*  
10:00 A.M.–10:30 A.M., B01, *Refreshment Break*  
10:30 A.M.–11:30 A.M., C01, Invited Address, *Emotion, Value and Decision-Making*, R. J. Dolan, MB, BCh, BAO (Hons), MD  
11:30 A.M.–1:00 P.M., *Break for Lunch (on your own)*  
11:30 A.M.–1:00 P.M., A05–A06, *Education and Training Committee Roundtable Discussions*  
1:00 P.M.–2:30 P.M., C01, Presidential Symposium, *Integrating Electroencephalography and Functional Magnetic Resonance Imaging*  
2:30 P.M.–3:00 P.M., B01, *Refreshment Break*  
3:00 P.M.–4:30 P.M., B06, Symposium 2.1, *Keep the Change: New Approaches for Studying Within-Person Psychophysiological Variability in Emotion Research*  
3:00 P.M.–4:30 P.M., B08, Symposium 2.2, *Reward Expectation*  
3:00 P.M.–4:30 P.M., B09, Symposium 2.3, *Not Idle at All: Scrutinizing the Functional Relevance of Cortical Alpha Oscillations*  
3:00 P.M.–4:30 P.M., C01, Symposium 2.4, *Toward a Unified Account of Fear-Potentiated Startle Findings in the Anxiety Disorders and Affiliated Traits*  
4:30 P.M.–4:45 P.M., *Break*  
4:45 P.M.–5:45 P.M., C01, Invited Address, *The Neurobiology of Individual Differences in Emotional Traits: What Can We Learn from the Integration of Neuroimaging, Pharmacology and Genetics?* Ahmad R. Hariri, PhD  
5:45 P.M.–6:00 P.M., *Break*  
6:00 P.M.–8:00 P.M., A01, A02 & A08, *Poster Session II; Exhibits Open*  
8:00 P.M.–10:00 P.M., Park Inn Berlin-Alexanderplatz, Salon Ehrlich 1, *Early Careers Conversation Hour* (pre-registration requested)

## Friday, October 23, 2009

- 8:00 A.M.–8:30 P.M., B01 Foyer, *Registration*  
8:00 A.M.–10:30 P.M., Level B Foyer, *Internet Station*  
8:30 A.M.–10:00 A.M., B06, Symposium 3.1, *The Neuroscience of Corollary Discharge: Crickets to Schizophrenia*  
8:30 A.M.–10:00 A.M., B08, Symposium 3.2, *Neural Mechanisms of Memory Control*  
8:30 A.M.–10:00 A.M., C01, Symposium 3.3, *Once More, with Feeling: Automaticity in Emotion Regulation*  
8:30 A.M.–10:00 A.M., B09, Symposium 3.4, *Traces of Awareness: P3 and N2-Type Components in the Attentional Blink*  
10:00 A.M.–4:45 P.M., B01, *Exhibits Open*  
10:00 A.M.–10:30 A.M., B01, *Refreshment Break*  
10:30 A.M.–11:30 A.M., C01, Invited Address, *Changing Fear*, Elizabeth A. Phelps, PhD  
11:30 A.M.–1:00 P.M., *Break for Lunch (on your own)*  
11:30 A.M.–1:00 P.M., A05–A06, *Women in Science and Education (W.I.S.E.) Lunch Box Discussion* (pre-registration required)