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**Poster Session III: Saturday, October 13**

- 1. Tursky Award Winner**
- 2. Tursky Award Winner**
- 3. Tursky Award Winner**
- 4. The effects of optimism on cardiovascular responsivity**  
Leslie D. Kirby & Rex A. Wright  
*University of Alabama, Birmingham*
- 5. Prepulse inhibition as a marker for genetically-mediated smoking risk**  
David J. Drobles, F. Joseph McClernon, Patricia L. Fiero, Michael E. Saladin, & Robert J. Malcolm  
*Medical University of South Carolina*
- 6. Pathways contributing to pupillary dilation during sustained processing**  
Stuart R. Steinhauer<sup>1,2</sup>, Annette Kasparek<sup>1,2</sup>, Ruth Condray<sup>1</sup>, & Greg J. Siegle<sup>1,2</sup>  
<sup>1</sup>*University of Pittsburgh School of Medicine,*  
<sup>2</sup>*Veterans Affairs Pittsburgh Healthcare System*
- 7. Time-dependent changes in cardiac parasympathetic tone during relaxation training**  
Masahito Sakakibara  
*Tokai Gakuen University*
- 8. Greater intima-media thickness in the carotid bulb is associated with reduced baroreflex sensitivity**  
Peter J. Gianaros<sup>1</sup>, J. Richard Jennings<sup>1</sup>, G. Benedikt Olafsson<sup>2</sup>, Stephen B. Manuck<sup>1</sup>, Kim Sutton-Tyrell<sup>1</sup>, Matthew F. Muldoon<sup>1</sup>, & Andrew Steptoe<sup>3</sup>  
<sup>1</sup>*University of Pittsburgh,* <sup>2</sup>*University of Iceland,* <sup>3</sup>*University College London*
- 9. Performance feedback, warning stimulus modality, and task difficulty affect attentional blink startle modulation in a reaction time task**

Ottmar V. Lipp & Sascha A. Hardwick  
*University of Queensland, Australia*

**10. Surveying the teaching of psychophysiology**

Ottmar V. Lipp for the Committee on  
Education and Training  
*University of Queensland, Australia*

**11. Intelligence and neural conduction speed:  
A brainstem auditory evoked potential  
analysis**

Robert M. Stelmack<sup>1</sup>, Verner Knott<sup>1,2</sup>, &  
Chris Beauchamp<sup>1</sup>

<sup>1</sup>*University of Ottawa*, <sup>2</sup>*Royal Ottawa  
Hospital*

**12. Interrelationship between P300 and alpha  
rhythms in single trials of a visual selec-  
tive attention experiment**

Tzyy-Ping Jung, Erik Visser, Marissa  
Westerfield, Scott Makeig, & Terrence J.  
 Sejnowsk

*University of California, San Diego & The  
Salk Institute*

**13. The musician's brain: Balance for creativity**

N. Birbaumer<sup>1,2</sup>, G. Scheler<sup>1,3</sup>, M. Lotze<sup>1</sup>, M.  
Erb<sup>1</sup>, & Christoph Braun<sup>1</sup>

<sup>1</sup>*University of Tübingen*, <sup>2</sup>*University of  
Padova*, <sup>3</sup>*Philharmonic Orchestra of  
Nürnberg*

**14. The effect of emotionally salient sentences  
and faces on the cardiovascular responses  
of a community-based African-American  
sample**

Marcellus M. Merritt, Darrell R.  
Abernethy, Michele K. Evans, John J.  
Sollers III, Alan B. Zonderman, &  
Julian F. Thayer

*National Institute on Aging*

**15. Misallocation of variance in event-related  
potential measures revisited: Principal  
components analysis (PCA) versus baseline-  
to-peak measures**

André Beauducel & Stefan Debener  
*Dresden University of Technology*

**16. Streaming effect: Event-related potentials from implicit task within saturated memory flow**

Denis Belisle & Dominique Lorrain  
*University of Sherbrooke*

**17. Psychophysiological data acquisition software written using LabVIEW**

Theodore E. Steiner  
*San Francisco State University*

**18. Switching stimulus dimensions: Digit value vs. digit font size — an ERP study**

Peter Ullsperger, Gabriele Freude, Waltraut Dehoff, & Udo Erdmann  
*Federal Institute for Occupational Safety and Health*

**19. Attention to monocular information implies V1**

F. del Valle-Inclán<sup>1</sup>, L. J. Fuentes<sup>2</sup>, & C. de Labra<sup>1</sup>  
<sup>1</sup>*University of La Coruña*, <sup>2</sup>*University of Almeria*

**20. Detecting changes in feature conjunctions: The step between traces for individual features and stimulus representations**

Rika Takegata<sup>1</sup>, Risto Näätänen<sup>1</sup>, & Istvan Winkler<sup>1,2</sup>  
<sup>1</sup>*University of Helsinki*, <sup>2</sup>*Hungarian Academy of Sciences*

**21. Effects of CS-US contingency and trial order on differential conditioning and shock expectancy to masked stimuli**

Stefan Wiens<sup>1</sup>, Jason N. Berger<sup>2</sup>, Edward S. Katkin<sup>2</sup>, & Arne Öhman<sup>1</sup>  
<sup>1</sup>*Karolinska Institutet*, <sup>2</sup>*State University of New York, Stony Brook*

**22. Cortical plasticity, CNV and transcendent experiences: Replication with subjects reporting permanent transcendent experiences**

Fred Travis<sup>1</sup>, Joe Tecce<sup>2</sup>, H. Günes Yücel<sup>1</sup>, & Christian Durchholz<sup>1</sup>

<sup>1</sup>*Mabarishi University of Management,*

<sup>2</sup>*Boston College*

**23. Impaired fear conditioning following unilateral lesions to the amygdala and hippocampus in humans**

Almut I. Weike, Harald T. Schupp, Alfons O. Hamm, & Christof Kessler  
*University of Greifswald*

**24. Effects of mental stress on neuromuscular components of tremor: Assessment using noncontact laser doppler vibrometry**

John W. Rohrbaugh<sup>1</sup>, Erik J. Sirevaag<sup>1</sup>, Robert R. Rice<sup>2</sup>, & Andrew H. Ryan<sup>3</sup>

<sup>1</sup>*Washington University School of Medicine,*

<sup>2</sup>*The Boeing Company,* <sup>3</sup>*Department of Defense Polygraph Institute*

**25. Contribution of the nature of the material to the parietal old/new effect**

S. Blanchet, S. Belleville, M. Robert, & M. E. Lavoie

*Institut Universitaire de Gériatrie de Montréal & Université de Montréal*

**26. Differential responses in interrupted cognitive streams**

Dominique Lorrain & Denis Belisle  
*University of Sherbrooke*

**27. Costs and benefits of shifting attention differ between young and old adults: Evidence from event-related potentials and performance measures**

Durk Talsma, Jasper Hage, Sander Nieuwenhuis, & Albert Kok  
*University of Amsterdam*

**28. No sex difference in trait asymmetry of cortical activation**

Dirk Hagemann, Ewald Naumann, Johannes Hewig, & Dieter Bartussek  
*Universität Trier*

**29. Unimpaired ANS functioning in schizophrenics during differential trace conditioning**

Carsten Diener & Robert Olbrich

**30. The functional neuroanatomy of smooth pursuit and predictive saccades**

Gillian A. O'Driscoll<sup>1,2,3</sup>, Anne-Lise V. Wolff<sup>1</sup>,  
Chawki Benkelfat<sup>1,3</sup>, Samarthji Lal<sup>2</sup>, & Alan C.  
Evans<sup>3</sup>

<sup>1</sup>*McGill University*, <sup>2</sup>*Douglas Hospital  
Research Center*, <sup>3</sup>*Montreal Neurological  
Institute*

**31. Effect of information and reward on stimulus-preceding negativity prior to feedback stimuli**

Yasunori Kotani<sup>1</sup>, Sachiko Kishida<sup>2</sup>,  
Shiho Hiraku<sup>3</sup>, Kazuhiro Suda<sup>1</sup>, &  
Yasutsugu Aihara<sup>2</sup>

<sup>1</sup>*Tokyo Institute of Technology*, <sup>2</sup>*Tokyo  
Metropolitan University*, <sup>3</sup>*The University of  
Tokyo*

**32. Vasovagal reactions during volunteer blood donation: The influence of applied muscle tension on donor reactions and retention**

Douglas J. French<sup>1</sup>, Christopher R.  
France<sup>2</sup>, Marc Noel<sup>1</sup>, Michael Teed<sup>1</sup>,  
Claire Doucet<sup>1</sup>, Stephanie Austin<sup>1</sup>, &  
Natalie Cormier<sup>1</sup>

<sup>1</sup>*Universite de Moncton*, <sup>2</sup>*Ohio University*

**33. Variable ERP time course of visual spatial selection: Effect of perceptual difficulty on the posterior contralateral negativity**

Judith M. Shedden & Curtis L.  
Nordgaard

*McMaster University*

**34. Age differences in an ERP spatial Stroop Task**

Victoria A. Kazmerski, Dawn G. Blasko,  
& Banchiamlack Dessalegn  
*Penn State Erie, The Behrend College*

**35. Word emotionality, levels of processing and subsequent memory: An ERP analysis**

Ira Fischler<sup>1</sup>, Candice Mills<sup>2</sup>, Cary  
Kemp<sup>3</sup>, & Michael McKay<sup>1</sup>

<sup>1</sup>*University of Florida*, <sup>2</sup>*University of*

**36. Electrophysiological indexes of attention deficit in workers exposed to organic solvents**

Stein Andersson<sup>1</sup> & Anne-Kristin Solbakk<sup>2</sup>

*<sup>1</sup>Sunnaas Rehabilitation Hospital, <sup>2</sup>University of Oslo*

**37. Novelty P3 is highly sensitive to depression in PTSD**

Steven H. Woodward<sup>1</sup>, Matthew O. Kimble<sup>2</sup>, Danny G. Kaloupek<sup>2</sup>, Milissa Kaufman<sup>2</sup>, Alli Forti<sup>2</sup>, Wendy K. Stegman<sup>1</sup>, & Lorraine P. Stewart<sup>1</sup>

*<sup>1</sup>National Center for PTSD & Veterans Affairs Palo Alto Health Care System,*

*<sup>2</sup>National Center for PTSD & Boston Veterans Administration Medical Center*

**38. ERP correlates of the dimension of schizophrenia**

Francois Guillem<sup>1</sup>, Monica Bicu<sup>2</sup>, David Bloom<sup>2</sup>, Marc Alain Wolf<sup>2</sup>, & J. Bruno Debruille<sup>2</sup>

*<sup>1</sup>Centre de Recherche Fernand-Seguin,*

*<sup>2</sup>Douglas Hospital Research Centre*

**39. Effects of automatic and controlled processes on gap detection as a function of age**

Kelly L. McDonald<sup>1</sup>, Jodi M. Ostroff<sup>1</sup>, Claude Alain<sup>1,2</sup>, & Bruce A. Schneider<sup>2</sup>

*<sup>1</sup>The Rotman Research Institute, Baycrest Centre for Geriatric Care, <sup>2</sup>University of Toronto*

**40. Mild stress and cardiac activation of African Americans**

Jules P. Harrell, Leah J. Floyd, Ina N. Daniels, & Sonia R. Bell  
*Howard University*

**41. Effects of a human pheromone (androstadienone) on skin conductance and heart rate changes in women**

Francisco Esteves<sup>1</sup>, Susanna Jernelöv<sup>1,2</sup> & Mats Olsson<sup>2</sup>

- 42. Evidence that sympathy reduces relative left frontal activity associated with anger**  
Eddie Harmon-Jones, Kate Vaughn,  
Sheri Mohr, Jon Sigelman, & Cindy  
Harmon-Jones  
*University of Wisconsin, Madison*
- 43. Relationship between hydration status and cardiovascular reactivity: Physiological versus psychological challenge**  
Stephen M. Patterson, Laura Simons,  
Christopher R. France, & Barbara  
Tulodziecki  
*Ohio University*
- 44. Selection on the basis of two features belonging to different levels: An ERP study**  
B. Kotchoubey & S. Lang  
*University of Tübingen*
- 45. Cardiac and respiratory measures of practice effects and processing resource demand during continuous manual tracking**  
Richard W. Backs, J. Mark Knowles, &  
Tabatha Short  
*Central Michigan University*
- 46. Temporal stability of cardiovascular response in healthy older adults**  
Kristen L. Mordecai, John J. Sollers III,  
Pauline M. Maki, & Julian F. Thayer  
*National Institute on Aging*
- 47. Pretreatment differences in ERPs between SSRI antidepressant responders and nonresponders**  
Gerard Bruder, Craig Tenke, Jürgen  
Kayser, Paul Leite, Patrick McGrath, &  
Frederic Quitkin  
*New York State Psychiatric Institute*
- 48. Event-related potentials (ERPs) in depressed patients and healthy adults during hemifield presentations of emotional stimuli: A replication**  
Jürgen Kayser, Craig Tenke, Nilabja

Bhattacharya, Jonathan Stewart, Frederic  
Quitkin, & Gerard Bruder  
*New York State Psychiatric Institute*

**49. ERPs during tonal and phonetic oddball tasks in patients having depressive and anxiety disorders**

Gerard Bruder, Jürgen Kayser, Craig  
Tenke, Paul Leite, Jonathan Stewart, &  
Frederic Quitkin  
*New York State Psychiatric Institute*

**50. Automatic grammatical processing as revealed by the mismatch negativity**

Friedemann Pulvermüller & Yury  
Shtyrov  
*Medical Research Council, Cambridge*

**51. Processing of inflectional affix in the human brain as shown by mismatch negativity**

Yury Shtyrov & Friedemann  
Pulvermüller  
*Medical Research Council, Cambridge*

**52. Processing of words and pseudowords in the human brain as shown by mismatch negativity: The role of lexical status of the deviant**

Yury Shtyrov & Friedemann  
Pulvermüller  
*Medical Research Council, Cambridge*

**53. Aversive classical conditioning in social phobics and healthy controls**

Christiane Hermann<sup>1</sup>, Silvio Ziegler<sup>1</sup>,  
Niels Birbaumer<sup>2,3</sup>, & Herta Flor<sup>1</sup>  
<sup>1</sup>*Central Institute of Mental Health,  
Mannheim*, <sup>2</sup>*University of Tübingen*,  
<sup>3</sup>*University of Padua*

**54. What happens to alcohol craving and heart rate when abstinent alcoholics watch alcohol cues?**

Michèle Wessa<sup>1</sup>, Sabine M. Grüsser<sup>2</sup>, &  
Herta Flor<sup>1</sup>



<sup>1</sup>*Central Institute of Mental Health, Mannheim,*

<sup>2</sup>*Humboldt University, Berlin*

**55. ERP measures of early processing in feature and conjunction search: Increased speed with increased array size**

Margot J. Taylor<sup>1</sup>, Hélène Chevalier<sup>2</sup>, & Nancy J. Lobaugh<sup>3</sup>

<sup>1</sup>*Centre National de Recherche Scientifique, Toulouse,* <sup>2</sup>*Hospital for Sick Children, Toronto,* <sup>3</sup>*Sunnybrook and Women's Health Sciences Centre*

**56. Mismatch negativity to tones and speech stimuli in middle childhood**

Peter J. Marshall, Yair Bar-Haim, & Efrat Schorr

*University of Maryland*

**57. Measuring temporal resolution in infants with mismatch negativity**

Laurel J. Trainor, Ranil R. Sonnadara, Sherina S. Samuel, & Jennifer Hallam  
*McMaster University*

**58. Gender-related differences in ERP to detection of deviant stimuli in an auditory oddball paradigm**

Emese Nagy<sup>1</sup>, Katherine A. Loveland<sup>1</sup>, & Geoffrey F. Potts<sup>2</sup>

<sup>1</sup>*University of Texas,* <sup>2</sup>*Rice University*

**59. Moderately lowered blood pressure has consequences on psychomotor function**

Rainer Schandry & Sabine Neubert-Pellegrino

*University of Munich*

**60. Facial EMG activities associated with self-generated emotions**

Senqi Hu & Jennifer J. Conn

*Humboldt State University*

**61. The additivity of the temporal and frontal subcomponents of the mismatch negativity (MMN)**

Petri Paavilainen, Markku Kilpelainen, Reia Lehtinen, Mikko Mikkonen,

Miiamaaria Saarela, & Lauri Tapola  
*University of Helsinki*

**62. Opponent process theory: After reaction or contrast effect?**

Yat-Yan Shum, Denise Ottosen, Delphine Holmes, & William C. Williams  
*Eastern Washington University*

**63. Opponent process and acoustic startle: Anticipation and relief**

Yat-Yan Shum, Shelby Whitworth, Sean Caldwell, Denise Ottosen, & William C. Williams  
*Eastern Washington University*

**64. Opponent process theory: Lingering affective after reaction**

Shelby Whitworth, Maria-Jesus Keesee, Clare Lucas, & William C. Williams  
*Eastern Washington University*

**65. The dependence between psychological tests and the physiological costs during flight training**

Janina Maciejczyk, Jan Bazański, Anna Galińska, & Krzysztof Rożanowski  
*Polish Air Force Institute of Aviation Medicine*

**66. Allocation of attention during simulated nursing night duty: Introspective, psychophysiological, and behavioral assessments**

Isato Furumitsu<sup>1</sup>, John J. Furedy<sup>2</sup>, Hidetoshi Nagashima<sup>1</sup>, & Shinji Hira<sup>1</sup>  
<sup>1</sup>*University of East Asia*, <sup>2</sup>*University of Toronto*

**67. The validity of psychophysiological detection of deception with the Guilty Knowledge Test: A meta-analytic study**

Gershon Ben-Shakhar<sup>1</sup> & Eitan Eyal<sup>2</sup>  
<sup>1</sup>*The Hebrew University of Jerusalem*,  
<sup>2</sup>*Israel National Police*

**68. The effect of attentional instructions and leakage of relevant information on psychophysiological detection with the Guilty Knowledge Test**

Gershon Ben-Shakhar & Vered Amihai Ben-Yaacov

*The Hebrew University of Jerusalem*

**69. Event-related potential (ERP) anomalies in the auditory and visual modalities as a consequence of a severe right brain injury: An analysis of a 7-year-old child with agnosia**

Marc E. Lavoie<sup>1</sup>, Annie Lahaie<sup>2,3</sup>, Martin Arguin<sup>3</sup>, Pierre Lachapelle<sup>3,4</sup>, Sylvie Belleville<sup>3</sup>, & Laurent Mottron<sup>1,2,3</sup>

<sup>1</sup>Centre de Recherche Fernand-Seguin, Hôpital Louis-H Lafontaine, <sup>2</sup>Hôpital Rivière-des-Prairies, <sup>3</sup>Université de Montréal, <sup>4</sup>McGill University

**70. Bereitschaft potential associated with preparation for danger and safety in Obsessive Compulsive Disorder**

Kieron P. O'Connor, Marc E. Lavoie, Marc H. Freeston, & Christo Todorov  
*Centre de Recherche Fernand-Seguin & Hôpital Louis-H Lafontaine, Université de Montréal*

**71. Looking at disgust and fear inducing pictures: A fMRI study**

Rudolf Stark, Anne Schienle, & Dieter Vaitl  
*University of Giessen*

**72. Vasovagal reactions to a surgery film: Physiological and psychological concomitants**

Christopher R. France, Laura Simons, Stephen M. Patterson, & Barbara Tulodziecki  
*Ohio University*

**73. Psychophysiological profiles of batterers: The relationship between heart rate reactivity, psychopathy, and domestic violence**

Julia C. Babcock, Timothy Yerington, Charles Green, Daniela Costa, & Sarah Miller  
*University of Houston*

**74. The effects of categorization on behavioral and event-related potential (ERP) measures of visual field differences in semantic priming**

Barry Haimson

*University of Massachusetts, Dartmouth*

**75. Effect of Attention-Deficit/Hyperactivity Disorder on voluntary and reflexive saccades**

Gillian A. O'Driscoll, Tal Savion-Lemieux, Anne-Lise V. Wolff, Virginia I. Douglas, & Ronald G. Barr  
*McGill University*

**76. Acute cardiovascular exercise and executive function**

C. Hillman, E. Snook, G. Jerome, & J. Valle  
*University of Illinois, Urbana-Champaign*

**77. Event-related potentials related to facial emotion processing**

Jaime Iglesias, Ela I. Olivares, & Cristina Saavedra  
*Universidad Autonoma de Madrid*

**78. Lateralized potential studies of hand movement control in children with attention deficit and hyperactivity disorder**

Ge Yong-Liang, Robaey Philippe, & Pelletier Gilles  
*Research Center of Sainte-Justine Hospital & University of Montreal*

**79. Selective processing of emotional facial expressions**

Harald T. Schupp<sup>1</sup>, Jessica Stockburger<sup>1</sup>, Johannes Bahlmann<sup>1</sup>, Almut I. Weike<sup>1</sup>, Arne Öhman<sup>2</sup>, & Alfons O. Hamm<sup>1</sup>  
<sup>1</sup>*University of Greifswald*, <sup>2</sup>*Karolinska Institutet*

**80. Less expression of primary negative affect associated with flattened diurnal slope of cortisol**

Janine Giese-Davis<sup>1</sup>, Sandra Sephton<sup>2</sup>, & David Spiegel<sup>1</sup>  
<sup>1</sup>*Stanford University*, <sup>2</sup>*University of Louisville*

**81. Longitudinal evaluation of electromyographic reactivity to trauma-related sounds in MVA survivors: Results of a pilot study**

Anke Karl<sup>1</sup>, Loretta S. Malta<sup>2</sup>, Jeff Alexander<sup>3</sup>, & Edward B. Blanchard<sup>2</sup>

<sup>1</sup>University of Technology, <sup>2</sup>State University of New York, Albany, <sup>3</sup>Regents College

- 82. Event-related potentials from intracerebral electrodes in the human medial temporal lobe during autonomic conditioning in epilepsy patients**  
Martin Peper, Martin Herpers, Jørgen Huppertz, Andreas Schulze-Bonhage, Ansgar Quiske, & Josef Zentner  
*University of Freiburg*
- 83. Aversive learning in patients with focal brain lesions: Effects on autonomic reactivity and emotional conceptualization**  
Martin Peper, Albrecht Madlinger, & Josef Zentner  
*University of Freiburg*
- 84. Dyadic heart rate patterns during mother-infant book reading at 9-months post-partum**  
Amy Kerivan<sup>1</sup>, Jennifer Ablow<sup>2</sup>, Shirley Feldman<sup>3</sup>, & Lynne Huffman<sup>1</sup>  
<sup>1</sup>Stanford University & The Children's Health Council, <sup>2</sup>University of Oregon, <sup>3</sup>Stanford University
- 85. Personality differences affect cephalic phase salivary response: Impact on food neophobia**  
Bryan Raudenbush<sup>1</sup>, Nathan Corley<sup>1</sup>, Nicholas Flower<sup>2</sup>, Ashley Kozlowski<sup>1</sup>, & Brian Meyer<sup>3</sup>  
<sup>1</sup>Wheeling Jesuit University, <sup>2</sup>Southwood Psychiatric Facility, <sup>3</sup>Appalachian State University
- 86. Modulation of pain threshold and response through odor administration**  
Bryan Raudenbush<sup>1</sup>, Brian Meyer<sup>2</sup>, Nathan Corley<sup>1</sup>, & Nicholas Flower<sup>3</sup>  
<sup>1</sup>Wheeling Jesuit University, <sup>2</sup>Appalachian State University, <sup>3</sup>Southwood Psychiatric Facility
- 87. Facial reactions to schematic facial expressions**  
Ulf Dimberg  
*Uppsala University*
- 88. Finger arterial compliance, rather than normalized pulse volume, could be a more**

**valid index of the finger vascular tone**

Gohichi Tanaka<sup>1</sup>, Yukihiro Sawada<sup>1</sup>, Yuichiro Nagano<sup>1</sup>, & Ken-ichi Yamakoshi<sup>2</sup>

<sup>1</sup>*Sapporo Medical University*, <sup>2</sup>*Kanazawa University*

**89. Effects of word length and frequency on the human ERP**

Olaf Hauk & Friedemann Pulvermüller  
*Medical Research Council, Cambridge*

**90. Foot and mouth in the human word-evoked brain potential**

Olaf Hauk, Gabriele Holz, & Friedemann Pulvermüller  
*Medical Research Council, Cambridge*

**91. Individual differences in mismatch negativity: Effects of the extent of physical deviance**

Toshinori Sasaki<sup>1,2</sup>, Robert M. Stelmack<sup>2</sup>, & Kenneth B. Campbell<sup>2</sup>

<sup>1</sup>*Hirosaki University School of Medicine*,  
<sup>2</sup>*University of Ottawa*

**92. Neural systems of salience evaluation**

Geoffrey F. Potts, Salil H. Patel, & Pierre N. Azzam  
*Rice University*

**93. Lateralization of phonetic and pitch discrimination in speech processing: What can ERPs show that PET cannot?**

Patrick Berg<sup>1</sup>, Christian Döbel<sup>2</sup>, Elvira Zobel<sup>1</sup>, Barbara Awiszus<sup>1</sup>, & Michael Scherg<sup>3</sup>

<sup>1</sup>*University of Konstanz*, <sup>2</sup>*Max Planck Institute Nijmegen*, <sup>3</sup>*University Hospital Heidelberg*

**94. Normative affective startle modulation in schizophrenia with and without anhedonia**

Diane C. Gooding, Richard J. Davidson, Kathleen A. Tallent, Lauren N. Brush, & Meghan D. Miller  
*University of Wisconsin, Madison*

**95. The effect of long term alcohol and cannabis use on attention**

F. Martin & D. Minehan  
*University of Tasmania*

- 96. Blood pressure reactions to laboratory stress and future blood pressure: A 10-year follow-up of men in the Whitehall II study**  
Douglas Carroll<sup>1</sup>, George Davey Smith<sup>2</sup>,  
Martin J. Shipley<sup>3</sup>, Andrew Steptoe<sup>3</sup>,  
Eric J. Brunner<sup>3</sup>, & Michael G. Marmot<sup>3</sup>  
<sup>1</sup>University of Birmingham, <sup>2</sup>University of  
Bristol, <sup>3</sup>University College London
- 97. Faking errors and losing the ERN (error-related-negativity)**  
Brigitte Stemmer<sup>1,2,3</sup>, Wolfgang Witzke<sup>2</sup>,  
Tobias A. Leim<sup>2</sup>, & Paul Walter Schoenle<sup>1,2</sup>  
<sup>1</sup>Kliniken Schmieder, <sup>2</sup>University of Konstanz,  
<sup>3</sup>Institut Universitaire de Geriatrie de Montreal
- 98. ERPs and introverted/extraverted personality type: Some evidence for different cognitive styles**  
Takashi Matsuda<sup>1</sup>, Minoru Sasaki<sup>1</sup>, &  
Yasuhiro Nageishi<sup>2</sup>  
<sup>1</sup>Hiroshima Shudo University, <sup>2</sup>Asabi  
University
- 99. Stereospecificity of electrophysiological and subjective responses of nicotine**  
F. P. Gullotta & C. S. Hayes  
*Philip Morris*
- 100. Examining the auditory T-complex N1 in 8-month-old infants**  
Elizabeth W. Pang  
*Hospital for Sick Children*
- 101. Auditory evoked potentials' augmenting/reducing as an indicator of serotonergic neurotransmission: Effects of acute tryptophan depletion**  
Burkhard Brocke, Katharina Kuerschner,  
Joerg Hebenstreit, & Anja Naumann  
*Dresden University of Technology*
- 102. Prepulse inhibition of the startle response, attentional performance, and schizotypal characteristics**  
Joel Ellwanger, Adrienne N. Grillo,  
Gwendolyn M. Kluegel, & Gary M. Sellers  
*University of Missouri, St. Louis*
- 103. Prenatal maternal psychopathology and**

**infant stress reactivity**

Patricia A. Brennan, Kelley Calhoun,  
Emily R. Grekin, Elaine F. Walker, &  
Zachary N. Stowe  
*Emory University*

**104. Physical activity, EEG frontal asymmetry, and affect in elderly adults**

C. Hillman<sup>1</sup>, E. Snook<sup>1</sup>, P. Mahlow<sup>2</sup>, A. Haufler<sup>2</sup>, T. Spalding<sup>2</sup>, S. Petruzzello<sup>1</sup>, & B. Hatfield<sup>2</sup>

<sup>1</sup>*University of Illinois, Urbana-Champaign,*

<sup>2</sup>*University of Maryland, College Park*

**105. Regional brain changes in response to rectal balloon inflation in Irritable Bowel Syndrome**

Steven M. Berman<sup>1,2</sup>, Stuart W. Derbyshire<sup>1,2</sup>, Bruce D. Naliboff<sup>1,2</sup>, Mark Mandelkern<sup>2,3</sup>, & Emeran A. Mayer<sup>1</sup>

<sup>1</sup>*University of California, Los Angeles,*

<sup>2</sup>*Veterans Affairs Greater Los Angeles*

*Healthcare System,* <sup>3</sup>*University of California, Irvine*

**106. Lateralized brain activations for word and accent detection**

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**107. Evaluative conditioning needs contingency verbalization**

Anne Schienle, Rudolf Stark, & Dieter Vaitl

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**108. Intact fear conditioning to a visual cue in a cortically blind patient**

Alfons O. Hamm, Almut I. Weike, Harald T. Schupp, Alexander Dressel, & Christof Kessler

*University of Greifswald*

**109. Psychopathy and emotional response to specific contents from the International Affective Picture System**

Javier Moltó, Rosario Poy, M. Carmen Pastor, Pilar Segarra, Susana Montañés, M. Pilar Tormo, & Maria Herrero



- 110. Real-time analyzer for ERP associated with terminations of saccades**  
Akihiro Yagi  
*Kwansei Gakuin University*
- 111. Brain activation (in fMRI) during classical ANS conditioning in normals and schizophrenics**  
Robert Olbrich  
*Central Institute of Mental Health*
- 112. Temporal and frontal contribution to mismatch negativity — not two faces of the same coin?**  
Leon Y. Deouell, Lindsay T. Mico, Tamara Harrison, & Robert T. Knight  
*University of California, Berkeley*
- 113. Separating emotion and motivational direction in fear and anger: Effects on frontal asymmetry**  
Gerhard Stemmler, Marcus Heldmann, & Jan Wacker  
*Philipps-University Marburg*
- 114. Skin conductance responses, prestimulus levels, and prestimulus digital skin temperature levels in a cross-modal repetition-to-change orienting reaction paradigm: Differentiation of clinical groups, sex, and laterality influences**  
James W. Morrison<sup>1</sup>, John J. Furedy<sup>2</sup>, & Pierre Flor-Henry<sup>1</sup>  
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