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**Poster Session II: Friday, October 8**

1. **EEG Coherence of 40 Hz electrical oscillations during a visual perception task**  
Berenice Valdés<sup>1,2</sup>, José A. Hinojosa<sup>1</sup>, & Manuel Martin-Loeches<sup>1</sup>  
<sup>1</sup>*Universidad Complutense de Madrid*,  
<sup>2</sup>*Universidad de Granada*
2. **Interrelation of gamma and beta oscillations in the EEG**  
Corinna Haenschel, Torsten Baldeweg, Miles Whittington, & John Gruzelier  
*Imperial College School of Medicine*
3. **Phase-locked alpha oscillations during cognitive processing**  
Vasil Kolev & Juliana Yordanova  
*Bulgarian Academy of Sciences*
4. **Functional association of P300 and alpha event-related alpha desynchronization**  
Juliana Yordanova & Vasil Kolev  
*Bulgarian Academy of Sciences*
5. **Differential changes in the alpha rhythm to 'R' and 'K' Responses: An event-related desynchronisation study**  
Adrian P. Burgess, Sarah Bailey, Rose Forster, & Ruth Moont  
*Imperial College of Science, Technology and Medicine*
6. **The functional significance of the theta synchronisation effect: The role of visual complexity and task difficulty**  
Adrian P. Burgess & Simon Hazeldine  
*Imperial College of Science, Technology and Medicine*
7. **Modulation of induced gamma band response in a perceptual learning task in human EEG**  
Thomas Gruber, Matthias M. Müller, Andreas Keil, & Thomas Elbert  
*University of Konstanz*
8. **Oscillatory brain activity is modulated by affective properties of visual stimuli**  
Andreas Keil, Matthias M. Mueller, Thomas Gruber, & Thomas Elbert  
*University of Konstanz*

9. **Association between apoE genotype and cognitive functioning in adult twins**  
Danielle Posthuma, G. Caroline M. van Baal, Eco J.C. de Geus, & Dorret I. Boomsma  
*Vrije Universiteit, Amsterdam*
10. **Individual differences in frontal brain asymmetry and dimensions of personality**  
Anita D. Keener<sup>1</sup>, Valerie Monaco<sup>1</sup>, Jeffrey F. Cohn<sup>1</sup>, Nathan A. Fox<sup>2</sup>, & Maria Kovacs<sup>1</sup>  
<sup>1</sup>University of Pittsburgh, <sup>2</sup>University of Maryland
11. **Personality, affect and EEG: Predicting patterns of regional brain activity related to extraversion and neuroticism**  
Jennifer Isom Schmidtke & Wendy Heller  
*University of Illinois at Urbana-Champaign*
12. **Asymmetric EEG activity and temperament in children**  
Mark H. McManis, Jerome Kagan, Melissa Lewis, & Nancy Snidman  
*Harvard University*
13. **Relation between four-month infant reactivity classification and brain stem auditory evoked potentials at ten years**  
Sue A. Woodward, Mark H. McManis, Nancy Snidman, Patricia J. Deldin, Melissa Lewis, Vali Kahn, & Jerome Kagan  
*Harvard University*
14. **Reducers inspect, augmenters respond: Evidence from psychophysiological indicators of mental chronometry**  
Ruediger Baltissen, Stephan Getzmann, & Andreas Schwerdtfeger  
*University of Wuppertal*
15. **Cortical and autonomic reactivity in Augmenters and Reducers**  
Andreas Schwerdtfeger & Ruediger Baltissen  
*University of Wuppertal, Germany*
16. **Stimulus analysis and response organisation in a CNV-paradigm: Effects of extraversion**  
G. Becker, C. Schneider, D. Bartussek, & E. Naumann  
*University of Trier*

17. **Involuntary processing of novel sounds in individuals with high and low scores on the novelty-seeking temperament scale**  
Kimmo Alho<sup>1</sup>, Heli Pesonen<sup>1</sup>, Liisa Keltikangas-Järvinen<sup>1</sup>, Niklas Ravaja<sup>1</sup>, Carles Escera<sup>2</sup>, Istvan Winkler<sup>1,3</sup>, & Risto Näätänen<sup>1</sup>  
*<sup>1</sup>University of Helsinki, <sup>2</sup>University of Barcelona, <sup>3</sup>Hungarian Academy of Sciences*
18. **Abstract feature conjunctions are preattentively extracted from auditory stimulus sequences**  
Petri Paavilainen<sup>1</sup>, Jaana Simola<sup>1</sup>, Maria Jaramillo<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*
19. **Is the length of sequential tonal patterns pre-attentively encoded by the brain?**  
Titia L. van Zuijen<sup>1</sup>, Elyse Sussman<sup>2</sup>, Risto Naatanen<sup>1</sup>, & Mari Tervaniemi<sup>1</sup>  
*<sup>1</sup>University of Helsinki, <sup>2</sup>Albert Einstein College of Medicine*
20. **Retest stability of mismatch negativity (MMN) and negative difference (Nd) in a four condition novelty oddball task**  
Bernhard W. Müller, Robert D. Oades, & Ulrich Schall  
*University Psychiatry Clinics, Essen*
21. **The accuracy of sound duration representation in the human brain determines the accuracy of behavioral perception**  
Elena Amenedo<sup>1</sup> & Carles Escera<sup>2</sup>  
*<sup>1</sup>University of Santiago de Compostela, <sup>2</sup>University of Barcelona*
22. **The automatic sensory processing during human REM sleep**  
Mercedes Atienza<sup>1,2</sup>, Jose Luis Cantero<sup>1,2</sup>, Rosa M. Salas<sup>1,2</sup>, & Carlos M. Gomez<sup>2</sup>  
*<sup>1</sup>Sleep Laboratory, Sevilla, <sup>2</sup>University of Sevilla*
23. **Mismatch negativity to repeated stimuli**  
Boris Kotchoubey  
*University of Tübingen*

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24. **Auditory processing assessed by the mismatch field in dyslexic children**  
Sabine Heim, Carsten Eulitz, Christian Wienbruch, & Thomas Elbert  
*University of Konstanz*
25. **Mismatch negativity elicited by words and pseudowords**  
Friedemann Pulvermueller<sup>1</sup>, Teija Kujala<sup>2</sup>, Yury Shtyrov<sup>2</sup>, Jaana Simola<sup>2</sup>, Paavo Alku<sup>2</sup>, Kimmo Alho<sup>2</sup>, & Risto Näätänen<sup>2</sup>  
<sup>1</sup>*University of Konstanz*, <sup>2</sup>*University of Helsinki*
26. **Critical band cross-channel processing delays mismatch reaction in vowel perception: A whole-head MEG-study**  
K. Mathiak, I. Hertrich, W. Lutzenberger, & H. Ackermann  
*Universität of Tübingen*
27. **Psychophysiological correlates of attentive and preattentive target detection**  
Indra Rosendahl, Markus Baumann, & Edmund Wascher  
*Universität Tübingen*
28. **Separate memory-related processing for auditory object location and identity**  
Stephen Arnott, Claude Alain, Fil Cortese, & Cheryl Grady  
*Rotman Research Institute, Baycrest Centre, and University of Toronto*
29. **Integration of non-redundant auditory-visual information during object recognition in humans: A behavioral and ERP study**  
Alexandra Fort & Marie-Helene Giard  
*INSERM*
30. **Prefrontal activity in oddball paradigms as measured by scalp current density**  
Kevin M. Spencer<sup>1</sup>, Ranjith Wijesinghe<sup>1</sup>, Joseph Dien<sup>2</sup>, & Emanuel Donchin<sup>1</sup>  
<sup>1</sup>*University of Illinois at Urbana-Champaign*, <sup>2</sup>*University of California, Davis*
31. **What is novel about “novel” stimuli? The effects of event probability on P300 and Novelty P3**  
Kevin M. Spencer, Abraham Goldstein, & Emanuel Donchin  
*University of Illinois at Urbana-Champaign*

- 32. "P300a" in an attend condition paradigm**  
J. Lagopoulos, E. Gordon, H. Barhamali, C.L. Lim, W.M. Li, D. Melkonian, P. Clouston, & J.G.L. Morris  
*Westmead Hospital and The University of Sydney*
- 33. Modeling the genetic and environmental influences on P3 amplitude and latency among 17-year-old boys and girls**  
Stephen M. Malone<sup>1</sup>, Brian S. Mustanski<sup>2</sup>, Micah A. Hammer<sup>1</sup>, Trent N. Toepper<sup>1</sup>, Scott R. Carlson<sup>1</sup>, & William G. Iacono<sup>1</sup>  
<sup>1</sup>University of Minnesota, <sup>2</sup>Northwestern University
- 34. Enhanced P3-amplitudes in amputees with phantom pain in a visual oddball paradigm**  
Anke Karl<sup>1</sup>, Niels Birbaumer<sup>2</sup>, & Herta Flor<sup>3</sup>  
<sup>1</sup>Technical University Dresden, <sup>2</sup>University of Tübingen, <sup>3</sup>Humboldt University, Berlin
- 35. Electromagnetic brain activity in patients with homonymous hemianopia**  
Christoph Braun, Traugott Dietrich, Martin Skalej, & Ulrich Schiefer  
*University of Tübingen*
- 36. The organization of the primary somatosensory cortex depends on sequence of tactile stimuli**  
Anne Wilms, Renate Schweizer, Christoph Braun, & Niels Birbaumer  
*University of Tübingen*
- 37. Locked-in patients operate a communication device without external assistance**  
Jochen Kaiser<sup>1</sup>, Nimr Ghanayim<sup>1</sup>, Jouri Perelmouter<sup>1</sup>, Thilo Hinterberger<sup>1</sup>, & Niels Birbaumer<sup>1,2</sup>  
<sup>1</sup>University of Tübingen, <sup>2</sup>University of Padova
- 38. Predictors of the acquisition of self-control over the SCP in epileptic patients**  
Susanne Holzapfel<sup>1</sup>, Ute Strehl<sup>2</sup>, Boris Kotchoubey<sup>2</sup>, & Niels Birbaumer<sup>2</sup>  
<sup>1</sup>State University of New York at Albany, <sup>2</sup>University of Tübingen

- 39. Sound localization in the right hemisphere: A MEG study**  
H. Preissl, H. Ackermann, & W. Lutzenberger  
*University of Tübingen*
- 40. Integration of magnetoencephalographic source localization and MRI in a neuronavigational system for neurosurgery**  
Hubert Preissl<sup>1</sup>, W. Lutzenberger<sup>1</sup>, R. Boldt<sup>1</sup>, F. Duffner<sup>1</sup>, D. Freudenstein<sup>1</sup>, E.H. Grote<sup>1</sup>, & N. Birbaumer<sup>1,2</sup>  
<sup>1</sup>*University of Tübingen*, <sup>2</sup>*Univertita degli Studi, Padua*
- 41. Effects of somatosensory, affective, and neutral semantic primes on event-related potentials and pain reports to painful laser stimuli in healthy subjects and chronic pain patients**  
Wolfgang H. R. Miltner, Jennifer Dillmann, & Thomas Weiss  
*Friedrich-Schiller-University of Jena*
- 42. Event-related desynchronization in the processing of noxious stimuli during hypnotic analgesia, distraction and wakefulness**  
R. H. Trippe, M. Friederich, M. Özcan, T. Weiss, & W.H.R. Miltner  
*Friedrich-Schiller-University of Jena*
- 43. Effect of CI Therapy on movement-related brain potentials**  
H. Bauder<sup>1</sup>, M. Sommer<sup>1</sup>, E. Taub<sup>2</sup>, & W.H.R. Miltner<sup>1</sup>  
<sup>1</sup>*Friedrich-Schiller-University of Jena, Germany*,  
<sup>2</sup>*University of Alabama at Birmingham*
- 44. Functional maps of the primary somatosensory cortex show rapid changes after finger amputation**  
Thomas Weiss & Wolfgang H.R. Miltner  
*Friedrich Schiller University of Jena*
- 45. Scalp-recorded optical signals elicited by sound processing in the auditory cortex**  
Teemu Rinne<sup>1</sup>, Gabriele Gratton<sup>2</sup>, Monica Fabiani<sup>2</sup>, Nelson Cowan<sup>2</sup>, Edward Maclin<sup>2</sup>, Alex Stinard<sup>2</sup>, Janne Sinkkonen<sup>1</sup>, Kimmo Alho<sup>1</sup>, & Risto Näätänen<sup>1</sup>  
<sup>1</sup>*University of Helsinki*, <sup>2</sup>*University of Missouri - Columbia*

- 46. Comparison of the event-related optical signal obtained from the surface of the head and the exposed cortex**  
Edward Maclin<sup>1</sup>, Peter Wessels<sup>1</sup>, A.K. Prassant<sup>2</sup>, Dan Samber<sup>2</sup>, Ehud Kaplan<sup>2</sup>, Monica Fabiani<sup>1</sup>, Marsha R. Goodman-Wood<sup>1</sup>, & Gabriele Gratton<sup>1</sup>  
<sup>1</sup>University of Missouri-Columbia, <sup>2</sup>Mount Sinai Hospital, NYC
- 47. Dynamic and localized brain imaging: The event-related optical signal (EROS) localizes neuronal activity in 3-D**  
A.J. Sarno, M. Goodman-Wood, E. Maclin, M. Fabiani, & G. Gratton  
*University of Missouri - Columbia*
- 48. Signal detection in fMRI data: A comparison of multitaper and cross-correlation estimators**  
Wayne M. King, Dean Sabatinelli, Murali Rao, Margaret M. Bradley, & Peter J. Lang  
*University of Florida*
- 49. Localizing brain regions active in spatial and nonspatial working memory using fMRI**  
Norbert Kathmann, Eva Meisenzahl, Thomas Zetzsche, Dirk Heiss, Gerda Leinsinger, Klaus Hahn, & Hans-Jürgen Möller  
*Ludwig-Maximilians-University of Muenchen*
- 50. Cerebral blood flow and neuropsychological alterations in chronic migraine**  
Judit Bembibre, Marisa Arnedo, Elena Pita, & Diego Becerra  
*Hospital Clínico, Granada*
- 51. Control over task resolution and psychophysiological responses to social stressors in different means of communication**  
Jorge Ricarte, Alicia Salvador, Raquel Costa, Maria José Torres, & Montserrat Subirats  
*University of Valencia*
- 52. Effects of coping skills on heart rate and electrodermal reactivity to a threatening evaluative social stressor**  
Jorge Ricarte<sup>1</sup>, Eduvigis Carrillo<sup>2</sup>, Alicia Salvador<sup>1</sup>, Esperanza González-Bono<sup>1</sup>, & Jesús Gómez-Amor<sup>2</sup>  
<sup>1</sup>University of Valencia, <sup>2</sup>University of Murcia

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53. **Relationship between hormonal and electrophysiological responses to two different laboratory stressors in elite sportsmen**  
Luis Moya-Albiol, Alicia Salvador, Esperanza González-Bono, Jorge Ricarte, Sonia Martínez-Sanchis, & Raquel Costa  
*University of Valencia*
54. **Heart period reactivity and heart period variability in response to psychological stress in three racial/ethnic groups**  
Carlotta Arthur, Robert M. Kelsey, Stefan Wiens, & Edward S. Katkin  
*State University of New York at Stony Brook*
55. **What will I say? Effects of speech preparation on autonomic cardiac control and gastric myoelectric activity**  
Peter J. Gianaros, Karen S. Quigley, & Robert M. Stern  
*The Pennsylvania State University*
56. **The effects of changes in the rotation of an optokinetic drum on gastric tachyarrhythmia and the symptoms of motion sickness**  
Max E. Levine & Robert M. Stern  
*The Pennsylvania State University*
57. **Challenge and threat during inter-ethnic interactions: Effects of expectancy violations on cardiovascular reactivity**  
Wendy Berry Mendes, Sarah B. Hunter, Brian Lickel, & Jim Blascovich  
*University of California, Santa Barbara*
58. **Cardiovascular reactions to emotional images in young and old adults**  
Jamie L. Sicard & Richard W. Backs  
*Central Michigan University*
59. **Vagal tone varies with emotion valence and depression**  
David Liu<sup>1</sup>, Jeffrey F. Cohn<sup>1</sup>, Erika E. Forbes<sup>1</sup>, Jill Balik<sup>1</sup>, & Nathan A. Fox<sup>2</sup>  
<sup>1</sup>*University of Pittsburgh*, <sup>2</sup>*University of Maryland*



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60. **The impact of perceived control on cardiovascular reactivity**  
Suzanne E. Weinstein, Karen S. Quigley,  
& J. Toby Mordkoff  
*The Pennsylvania State University*
61. **Cardiac vagal tone, anxiety, and selective attention to masked fearful faces**  
Erno Hermans, Jack van Honk, Mike  
Bachman, Adriaan Tuiten, Peter Putman,  
Edward de Haan, & Lorenz van Doornen  
*Utrecht University*
62. **Exogenous testosterone elevates defensive heart rate reflexes to angry faces**  
Jack van Honk<sup>1</sup>, Adriaan Tuiten<sup>1</sup>, Erno  
Hermans<sup>1</sup>, Peter Putman<sup>1</sup>, Hans  
Koppeschaar<sup>2</sup>, Jos Thijssen<sup>2</sup>, Rien  
Verbaten<sup>1</sup>, & Lorenz van Doornen<sup>1</sup>  
<sup>1</sup>*Utrecht University*, <sup>2</sup>*University Hospital  
Utrecht*
63. **Transcranial magnetic stimulation and cardiac vagal tone**  
Alfredo d'Alfonso, Jack van Honk, Erno  
Hermans, Edward de Haan, & Lorenz  
van Doornen  
*Utrecht University*
64. **The quantification and convergent validity of instant heart rate variability**  
Joni Kettunen & Liisa Keltikangas-Järvinen  
*University of Helsinki*
65. **Alcohol's effects on cortisol, heart rate, and subjective euphoria**  
John McGeary  
*University of Colorado at Boulder*
66. **Quantification of attentional effects on prepulse inhibition: Methodological considerations**  
Kent E. Hutchison<sup>1</sup>, Terry  
Blumenthal<sup>2</sup>, Tiffany Ito<sup>1</sup>, John  
McGeary<sup>1</sup>, & Angela Wooden<sup>1</sup>  
<sup>1</sup>*University of Colorado*, <sup>2</sup>*Wake Forest  
University*

- 67. Conditioned startle modulation to social stimuli in participants high or low in social anxiety**  
Andreas Karlsson, Fredrik Larsson, Raija Kjell-Lipasti, Pernilla Juth, & Arne Öhman  
*Karolinska Institutet*
- 68. The effects of exogenous cortisol on the acoustic startle reflex**  
Anette Brechtel<sup>1</sup>, Tony W. Buchanan<sup>2</sup>, John J. Sollers<sup>3</sup>, & William R. Lovallo<sup>2</sup>  
<sup>1</sup>*Heinrich Heine University Duesseldorf*  
<sup>2</sup>*University of Oklahoma*, <sup>3</sup>*National Institute on Aging, Baltimore, Maryland*
- 69. Effects of automatic and controlled processing on short lead interval startle modification**  
Aake Elden<sup>1</sup> & Magne Arve Flaten<sup>2</sup>  
<sup>1</sup>*University of Tromsø*, <sup>2</sup>*Norwegian University of Science and Technology, Trondheim*
- 70. Fear potentiation of the acoustic startle response is preserved after lorazepam administration to human subjects**  
J. Riba<sup>1</sup>, A. Rodríguez-Fornells<sup>2</sup>, G. Urbano<sup>1</sup>, R. Antonijoan<sup>1</sup>, & M.J. Barbanoj<sup>1</sup>  
<sup>1</sup>*Universitat Autònoma de Barcelona*,  
<sup>2</sup>*Medizinische Hochschule Hannover*
- 71. Opponent process theory, SCR orienting, and ANS arousal during the after-reaction**  
Sommer L. Kraft, William C. Williams, Yat Yan Shum, & Ayako Katsuda  
*Eastern Washington University*
- 72. Opponent process theory and emotion: Startle reflex confirms habituated pattern of affective dynamics using IAPS stimuli**  
Kristi Bronson, William C. Williams, & Ginger L. Solomon  
*Eastern Washington University*
- 73. Opponent process theory of emotion: Replication confirms standard pattern of affective dynamics with IAPS stimuli and startle blink measure**  
Jamie McGill, William C. Williams, Delphine Holmes, & Yat Yan Shum  
*Eastern Washington University*

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74. **How do evaluations of stimulus relevance become automatic in the absence of classical conditioning? A supraliminal/subliminal probing paradigm in a conceptual learning task**  
François Bherer, Arvid Kappas, & François Y. Doré  
*Université Laval*
75. **The wizard of Oz: Appraisals and emotions in a voice-controlled video game**  
Arvid Kappas, Anna Pecchinenda, & François Bherer  
*Université Laval*
76. **Gender differences on subjective rating and startle reflex to nude, unpleasant and neutral affective pictures**  
Marco Costa & Pio Enrico Ricci Bitti  
*University of Bologna*
77. **Gender differences in viewing time to affective pictures measured by EOG**  
Marco Costa & Pio Enrico Ricci Bitti  
*University of Bologna*
78. **Effects of foreground content and intensity on affective startle modulation**  
Edelyn Verona<sup>1</sup>, Christopher J. Patrick<sup>1</sup>, Margaret M. Bradley<sup>2</sup>, & Peter J. Lang<sup>2</sup>  
<sup>1</sup>Florida State University, <sup>2</sup>University of Florida
79. **Effect of lead interval upon magnitude of startle eyeblink reflex with olfactory stimulation**  
Fumio Yamada<sup>1</sup>, Hiroshi Asada<sup>2</sup>, & Hajime Nagai<sup>3</sup>  
<sup>1</sup>Osaka Prefectural College of Nursing, <sup>2</sup>Osaka Prefectural University, <sup>3</sup>Suntory Limited
80. **Characterizing the inhibition of anxiety: An emotion-modulated startle study**  
Alexander J. Shackman & Richard J. Davidson  
*University of Wisconsin, Madison*
81. **Indicators of the emotional experience of anhedonia: Emotion-modulated startle and resting EEG**  
Katherine M. Putnam, Diane C. Gooding, Chris L. Larson, Daren C. Jackson, & Richard J. Davidson  
*University of Wisconsin, Madison*

- 82. Positive and negative modulation of startle with a lottery paradigm**  
Alexander J. Skolnick, Christine L. Larson, & Richard J. Davidson  
*University of Wisconsin, Madison*
- 83. Stability of the emotion-modulated startle response during short versus long picture presentation**  
Christine L. Larson, Jennifer Y. Nietert, Dante Ruffalo, & Richard J. Davidson  
*University of Wisconsin, Madison*
- 84. Don't look! Affective responses during instructed meditation**  
Michael N. Bears, Margaret M. Bradley, Denise M. Sloan, & Peter J. Lang  
*University of Florida*
- 85. Reflex modulation during text processing: Emotion and context**  
Margaret M. Bradley, Reinoud de Jongh, Jason Kanov, Dean Sabatinelli, & Peter J. Lang  
*University of Florida*
- 86. Associative learning in non-criminal psychopaths: Cognitive and emotional deficits**  
Herta Flor<sup>1</sup>, Niels Birbaumer<sup>2</sup>, Christiane Hermann<sup>1</sup>, Silvio Ziegler<sup>1</sup>, & Christopher J. Patrick<sup>3</sup>  
<sup>1</sup>Humboldt-University, Berlin, <sup>2</sup>University of Tübingen, <sup>3</sup>Florida State University
- 87. Valence, arousal, and startle reflex modulation in subjects reporting PTSD symptoms**  
Richard O. Temple, Melanie Campbell, & Edwin W. Cook III  
*University of Alabama at Birmingham*
- 88. Spontaneous eyeblinking while viewing pleasant-unpleasant visual stimulus**  
Yasuko Omori & Yo Miyata  
*Kwansei Gakuin University*
- 89. Affective startle modulation during internally generated affective states: Different patterns for stimulus-oriented versus response-oriented imagery?**  
Nicholas B. Allen  
*University of Melbourne*

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90. **What are they thinking? Cognitive and emotional modulation of the startle reflex**  
Debra A. Sorensen, Mark McManis, & Jerome Kagan  
*Harvard University*
91. **Attentional requirements of emotional visual stimuli**  
Michela Mazzetti, Michela Sarlo, Daniela Palomba, Maurizio Codispoti, & Giovanni Tuozi  
*University of Padova*
92. **Stability of emotional perception**  
Maurizio Codispoti<sup>1</sup>, Michela Mazzetti<sup>1</sup>, Daniela Palomba<sup>2</sup>, & Margaret M. Bradley<sup>3</sup>  
<sup>1</sup>*University of Bologna*, <sup>2</sup>*University of Padova*, <sup>3</sup>*University of Florida*
93. **Treatment of fear of flying with exposure in virtual reality**  
Andreas Muehlberger<sup>1</sup>, Martin Herrmann<sup>2</sup>, Paul Pauli<sup>1</sup>, Georg Wiedemann<sup>1</sup>, & Heiner Ellgring<sup>2</sup>  
<sup>1</sup>*University of Tübingen*, <sup>2</sup>*University of Würzburg*
94. **The relationship between self-reported anxiety and visceral perception as measured by the MCS and Schandry heart-beat counting task**  
Jeffrey B. Snell, Gary E. Jones, Laura A. Pawlow, & Carol L. O'Brien  
*University of Southern Mississippi*
95. **Heartbeat perception during and between headaches in chronic migraine sufferers and normals**  
Sharyl M. Rigby, Gary E. Jones, Laura A. Pawlow, Carol L. O'Brien, & Jeffrey B. Snell  
*University of Southern Mississippi*
96. **Bias detected by facial electromyography can predict racial discrimination**  
Eric J. Vanman & Jessica L. Saltz  
*Emory University*

- 97. The relationship of amygdala volume and affective modification of the startle reflex in humans**  
Eric J. Vanman<sup>1</sup>, Veronica Y. Mejia<sup>2</sup>, Michael E. Dawson<sup>2</sup>, Anne M. Schell<sup>3</sup>, & Todd Lencz<sup>4</sup>  
*<sup>1</sup>Emory University, <sup>2</sup>University of Southern California, <sup>3</sup>Occidental College, <sup>4</sup>The Long Island Jewish Center Hillside Hospital*
- 98. More than a blink: Facial electromyography activity as a function of valence, arousal, and affect intensity**  
Eric J. Vanman<sup>1</sup>, Patricia A. Brennan<sup>1</sup>, Renee M. Tobin<sup>2</sup>, & Louis G. Tassinary<sup>2</sup>  
*<sup>1</sup>Emory University, <sup>2</sup>Texas A&M University*
- 99. Addressing the specificity of affective startle modulation: Fear versus disgust**  
Andrew R. Yartz, Joshua S. Redford, Emily Ng, & Larry W. Hawk Jr.  
*State University of New York at Buffalo*
- 100. The acute effects of cigarette smoking on startle eyeblink modification**  
Joseph S. Baschnagel, Emily Ng, Joshua S. Redford, & Larry W. Hawk Jr.  
*State University of New York at Buffalo*
- 101. Early and late attentional modification of startle in preadolescent boys**  
Larry W. Hawk Jr., Andrew R. Yartz, William E. Pelham III, Alyssa M. Johnson, & Joshua R. Redford  
*State University of New York at Buffalo*
- 102. Early and late attentional modification of startle in preadolescent boys with ADHD: Comparison to controls and effects of methylphenidate**  
Larry W. Hawk Jr., William E. Pelham III, Thomas M. Lock, Andrew R. Yartz, Alyssa M. Johnson, & Joshua R. Redford  
*State University of New York at Buffalo*
- 103. Psychophysiology and the "Suspension of Disbelief"**  
Kerri Lawson, Louis G. Tassinary, & Scott P. Johnson  
*Texas A&M University*

- 104. An experimental examination of Prospect-refuge theory**  
Louis G. Tassinary<sup>1</sup>, Scott P. Johnson<sup>1</sup>,  
Kerri Lawson<sup>1</sup>, & Russ Parsons<sup>2</sup>  
*<sup>1</sup>Texas A&M University, <sup>2</sup>University of Illinois*
- 105. Phasic and tonic psychological reactivity to auditory stimulation with automobile horns**  
Estate M. Sokhadze, Imgap Yi, Yoon-Ki Min, & Jin-Hun Sohn  
*Chungnam National University*
- 106. Abnormal activation of cerebral networks of orienting to novelty in chronic alcoholics**  
M D. Polo<sup>1</sup>, E. Yago<sup>1</sup>, A. Gual<sup>2</sup>, C. Grau<sup>1</sup>, K. Alho<sup>1,3</sup>, & C. Escera<sup>1</sup>  
*<sup>1</sup>University of Barcelona, <sup>2</sup>Alcoholology Unit of Generalitat de Catalunya, <sup>3</sup>University of Helsinki*
- 107. Electrophysiological and behavioral evidence of attentional reorientation to auditory stimulus change and novelty**  
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*<sup>1</sup>University of Barcelona, <sup>2</sup>University of Helsinki*
- 108. Duration- but not novelty-elicited mismatch negativity increases with attention: A test/retest study**  
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- 109. Do lateralized visual stimuli exogenously orient auditory attention?**  
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- 110. Reorienting negativity (RON) can be elicited in the visual modality**  
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*<sup>1</sup>Harvard University, <sup>2</sup>University of Maryland*

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<sup>1</sup>Wright State University, <sup>2</sup>A.F.R.L.,  
<sup>3</sup>Central Michigan University
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<sup>1</sup>University of Kansas, <sup>2</sup>University of Kansas Medical Center
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- 120. Food cue reactivity and regulation of food intake**  
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<sup>1</sup>University of Padova, <sup>2</sup>Centro Gruber, Bologna



- 122. Emotional and behavioral consequences of alcohol-impaired cognitive processing**  
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*<sup>1</sup>Florida State University, <sup>2</sup>Ohio State University, <sup>3</sup>University of Tübingen*
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*<sup>1</sup>Stanford University and VAPA Health Care System, <sup>2</sup>Philipps-Universität Marburg*
- 124. Assessing instability in physiological systems using complex demodulation**  
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*<sup>1</sup>VAPAHCS and Stanford University, <sup>2</sup>Klinik Garmisch GmbH*
- 125. Voluntary hyperventilation in panic disorder and social phobia**  
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*<sup>1</sup>VAPAHCS and Stanford University, <sup>2</sup>Westfälische Wilhelms-Universität*
- 126. ERPs elicited by emotional words and dependent on processing level in panic- and pain-patients**  
Paul Pauli<sup>1</sup>, Georg Wiedemann<sup>1</sup>, Wilhelm Dengler<sup>1</sup>, Michael Traudt<sup>1</sup>, & Lyle Bourne<sup>2</sup>  
*<sup>1</sup>University of Tübingen, <sup>2</sup>University of Colorado at Boulder*
- 127. Slow cortical potentials during the Continuous Performance Test in Attention Deficit/Hyperactivity Disorder**  
Gudrun Sartory<sup>1</sup>, Arnfried Heine<sup>2</sup>, Bernhard Müller<sup>3</sup>, & Angela Elvermann<sup>1</sup>  
*<sup>1</sup>University of Wuppertal, <sup>2</sup>Joint Medical Practice Heiligenstadt, <sup>3</sup>University of Essen*
- 128. Development and tomography of cue P300 in ADHD**  
Daniel Brandeis, Katrin Imhof, Roberto D. Pascual-Marqui, & Hans-Christoph Steinhausen  
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Huijbregts<sup>1</sup>, & K. Richard Ridderinkhof<sup>2</sup>  
*<sup>1</sup>Free University, Amsterdam, <sup>2</sup>University  
of Amsterdam*
- 130. Heart rate responses to rule shifting in young children**  
Riek Somsen  
*University of Amsterdam*
- 131. Children's and adults' use of fixed foreperiod planning for the Tower of London task: Behavioral and heart rate indices**  
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- 133. Tales from the heart: Parasympathetic/sympathetic balance and temperament in children**  
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- 134. The effect of central and peripheral cueing on saccadic eye movements in dyslexia**  
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*<sup>1</sup>Nencki Institute of Experimental Biology,  
<sup>2</sup>University of Warsaw*
- 135. EEG index of motor inhibition in 11-months-old infants**  
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- 136. Age and sex effects in the EEG of normal children and children with attention-deficit/hyperactivity disorder**  
Adam R. Clarke<sup>1</sup>, Robert J. Barry<sup>1</sup>, Rory  
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*<sup>1</sup>University of Wollongong, <sup>2</sup>Private  
Paediatric Practice, Sydney*

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- 138. Secretory immunoglobulin A and cellular immune responses to mental arithmetic, cold pressor, and exercise stress**  
Gonneke Willemsen, Christopher Ring, Douglas Carroll, & Mark Drayson  
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- 139. Baseline salivary cortisol levels and occupational fatigue**  
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- 140. Secretion of salivary proteins (S-IgA, alpha-Amylase, Cystatin S, MUC5B, MUC7, total protein) in response to laboratory stressors that evoke distinct patterns of autonomic cardiac activity**  
Jos A. Bosch<sup>1</sup>, Eco J.C. de Geus<sup>2</sup>, Angele Kelder<sup>1</sup>, Jonhan Hoogstraten<sup>3</sup>, & Arie V. Nieuw Amerongen<sup>1</sup>  
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- 141. Salivary MUC5B-mediated adherence (ex vivo) of Helicobacter pylori during acute psychological stress**  
Jos A. Bosch<sup>1</sup>, Eco J.C. de Geus<sup>2</sup>, Toon J.M. Ligtenberg<sup>1</sup>, Enno C.I. Veerman<sup>1</sup>, Johan Hoogstraten<sup>3</sup>, & Arie V. Nieuw Amerongen<sup>1</sup>  
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