

**POSTERS PRESENTATIONS
SCIENCE FAIR SESSION 1**

TUESDAY, JULY 30, 2002

7:30 PM – 9:00 PM

[P1]

The CNV : A Functional Exploration of The Brain

M. Dongier*, B. Dubrovsky, J. B. Debrulle and I. Lepadatu
McGill University, Montreal, Quebec, Canada

[P2]

Brain activations of subjects with differences in Verbal Fluency performances: a fMRI study

Saintpierre^{1*}, S., Zanca², M., Morrot³, G., Duyme⁴, M. & Capron¹, C. ¹ Department of psychology, E.A. 1977 - Montpellier III, ² Nuclear medicine – Montpellier I, ³ INRA – Montpellier, ⁴ Biostatistics – Montpellier I, France

[P3]

Developmental changes in the auditory M100 measured by magnetoencephalography

Elizabeth W. Pang*, Roy Sharma, Amrita Hunjan, Stephanie Holowka, Hiroshi Otsubo
Hospital for Sick Children, Toronto, Canada

[P4]

Natural language representations in the brain: An MEG study

A. Shestakova*, E. Brattico, M. Huotilainen, V. Galunov, A. Soloviev, M. Sams, et al.
Cognitive Brain Research Unit, Department of Psychology, University of Helsinki, Finland

[P5]

Single Word Processing: Synthetic Aperture Magnetometry (SAM) techniques applied to Magnetoencephalography data

Fiona McNab^{1*}, Krish Singh², Gina Rippon²,

Stephen Swithenby¹, Sven Braeutigam¹, Arjan Hillebrand².

¹ The Open University, Physics Department, Walton Hall, Milton Keynes, MK7 6AA, England, UK

² The Wellcome Trust Laboratory for MEG studies, Neurosciences Research Institute, Aston University, Aston Triangle, Birmingham, B4 7ET, UK

[P6]

Concrete word dyslexia and lexical-analogy model of reading aloud

Yannick Marchand

Cognitive/Clinical Neuroscience Unit, Department of Psychology, Dalhousie University, Halifax, NS, Canada

[P7]

Improvements in Phonological Processing Skills as measured by Event-Related Brain Potentials

Newman, RL*, Connolly, JF, McIvor, K, MacDonald, GW, & Arnold, S

Cognitive/Clinical Neuroscience Unit, Dalhousie University, Halifax, Nova Scotia, Canada

[P8]

Event-Related Potential evidence from phonological treatment

Tania Tremblay*, Laura Monetta & Yves Joanette

Institut Universitaire de Gériatrie de Montréal, Canada & École d'orthophonie et d'audiologie, & GRENE, Université de Montréal, Canada

[P9]

Newborn ERPs predict later language skills in children with and without familial risk for dyslexia

Tomi K. Guttorm*, Paavo H. T. Leppänen, & H. Lyytinen

Department of Psychology, University of Jyväskylä, Finland

[P10]

Psychophysiological indices of dyslexia

Giuseppe A. Chiarenza*, Giulia Frasson, Igor De Marchi

Department of Child and Adolescent Neuropsychiatry, Rho Hospital, Rho, Milan, Italy

[P11]

Automatic measurement of ERPs in normal and dyslexic children by means of a non-linear alignment based on Dynamic Time Warping (DTW)

Silvia Casarotto¹, Anna M. Bianchi¹, Sergio Cerutti¹ and Giuseppe A. Chiarenza^{2*}

¹ Department of Biomedical Engineering, Polytechnic University, Milano, Italy

² Dept. of Child and Adolescent Neuropsychiatry, Az. Osp. G. Salvini, Rho Hospital, Rho, Milan Italy

[P12]

Principal Component Analysis (PCA) for reduction of ocular artefacts in ERPs from normal and dyslexic children

Silvia Casarotto¹, Anna Bianchi¹, Sergio Cerutti¹ and Giuseppe A. Chiarenza^{2*}

¹ Department of Biomedical Engineering, Polytechnic University, Milano Italy

² Dept. of child and adolescent Neuropsychiatry, Az. Osp. G. Salvini, Rho Hospital, Rho, Milan Italy

[P13]

Applications of the “Mangina-Test” in the clinical investigation of Children and Adolescents with Neuropsychiatric Pathologies as compared to Normal Controls

G. A. Chiarenza* and V. Benvenuti

Department of Child and Adolescent Neuropsychiatry, Rho Hospital, Rho, Milan, Italy

[P14]

Lexical Integration Differences Between Normal And Reading-Disabled (Rd) Children: An Event-Related Potentials (ERP) Study

M. Rodríguez*, J. Bernal, B. Prieto, G. Yáñez, E. Marosi, L. Luviano, V. Guerrero

Neurociencias, FS-Iztacala, UNAM, México

[P15]

Auditory event-related potentials (ERPs) to rhyming and non-rhyming words in reading disabled children

G. Yáñez*, J. Bernal, A. Favila, E. Marosi, M. Rodríguez, L. Luviano, B. Prieto, V. Guerrero, Neurociencias. FESI. Universidad Nacional Autónoma de México.

[P16]

Event-related brain potentials in reading disabled children during detection of inverse serial digits

Gonzalez-Garrido AA^{1,2*}, Gomez-Velazquez FR², Zarabozo D²

¹Unidad de Neurociencias (Hospital Civil de Guadalajara);

²Instituto de Neurociencias (Universidad de Guadalajara).

[P17]

Cognitive Maturation: An Electrophysiological Investigation In Gifted Children

M.n. Magnie^{1,2*}, k. Kahlaoui^{2,3}, b. Bailet³, and c. Richelme⁴

¹Department of Clinical Neurophysiology, University Hospital of Nice ,²Laboratory of

Physiology, University of Nice, ³Laboratory of Experimental Psychology, University of Nice

⁴Department of Pediatrics, University Hospital of Nice

[P18]

Reduced and unreduced mismatch negativity in persons with mental retardation

Kazunari Ikeda*, Akiko Hayashi, Souichi Hashimoto, Atsushi Kanno

Research Institute for Education of Exceptional Children, Tokyo Gakugei University, Tokyo, Japan

[P19]

Syntax And Event-Related Potentials (Erp): Study In Normal And Reading-Disabled (Rd) Children

B. Prieto*, M. Rodríguez, G. Yáñez, J. Bernal, E. Marosi, V. Guerrero, L. Luviano.
Neurociencias.FES-Iztacala.UNAM.México.

[P20]

Attention Impairment in Electrooculographic Control of Computer Functions

Joseph J. Tecce*¹ Linen J. Pok² Michael Consiglio³ and Jennifer L. O'Neil⁴

¹Psychology Department, Boston College, Chestnut Hill, MA, ²Ohio State University College of Optometry, Columbus, OH, ³Biopharmaceutical Contract Manufacturing Services, The Dow Chemical Company, Smithfield, RI, ⁴Investor Services, State Street Corporation, North Quincy, MA USA

[P21]

Pupillary Response And Attention

D.Fotiou¹, I. Kourtis², L. Kourtis², A. Tzambazakis¹, A. Goulas², F. Fotiou¹

¹Lab of Clinical Neurophysiology, AUTH, Thessaloniki, Greece

²Lab of Fluid Mechanics, AUTH Thessaloniki, Greece

[P22]

Differences in the activation of the prefrontal cortex: Attention vs. higher cognitive processing

Motomi Toichi^{a,b}, M.D., Ph.D., Yasutaka Kubota^c, M.D., Robert L. Findling^a, M.D., Joseph R. Calabrese^c, M.D.

^a Division of Child & Adolescent Psychiatry, Case Western Reserve University/ University Hospitals of Cleveland, Cleveland, OH

^b Health and Medical Services Center, Shiga University, Shiga, Japan

^c Department of Psychiatry, Case Western Reserve University/ University Hospitals of Cleveland, Cleveland, OH

[P23]

Electrophysiological index of pre-attentive extraction and retention abstract attributes of an acoustic continuum

Oleg Korzyukov^{1*}, István Winkler^{1,2}, Valentina Gumenyuk¹, Kimmo Alho³, & Risto Näätänen¹

¹Cognitive Brain Research Unit, Department of Psychology, University of Helsinki, Finland

²Institute for Psychology, Budapest, Hungary

³General Psychology Division, Department of Psychology, University of Helsinki, Finland

[P24]

Processing of novel sounds in attention-deficit disorder children: An event-related brain potential and behavioral study

Valentina Gumenyuk^{1*}, Oleg Korzyukov¹, Kimmo Alho², Carles Escera³, Mirja Hämäläinen⁴ and Risto Näätänen¹

¹Cognitive Brain Research Unit, University of Helsinki, Finland,

²General Psychology Division, Department of Psychology, University of Helsinki, Finland,

³Neurodynamics Laboratory, Department of Psychiatry and Clinical Psychology, University of Barcelona, Catalonia, Spain,

⁴Helsinki University Central Hospital for Children and Adolescents, Finland

[P25]

An Accurate Dynamic Pupillometry Method: Evaluation In Normal Subjects

D.Fotiou¹, I. Kourtis², L. Kourtis², G.Rizos¹, A. Goulas², F. Fotiou¹

¹Lab of Clinical Neurophysiology, AUTH, Thessaloniki, Greece

²Lab of Fluid Mechanics, AUTH Thessaloniki, Greece

[P26]

Pupillometry In Alzheimer's Disease Patients

D.Fotiou¹, I. Kourtis², J. Tsiftsis², K. Sitzoglou², A. Goulas², F. Fotiou¹

¹Lab of Clinical Neurophysiology, AUTH, Thessaloniki, Greece

²Lab of Fluid Mechanics, AUTH Thessaloniki, Greece

[P27]

Tropicamide Effects on Pupil Size and the Pupillary Light Reflex in Alzheimer's and Parkinson's Disease

E. Granholm,* S. Morris, E. Rogers, B. Vukov, C. Shults, D. Galasko

VA San Diego Healthcare System and University of California, San Diego, USA

[P28]

Cognitive Event-Related Potentials in Early Alzheimer's Disease

Antolin, T., Wen, J., Berman, S., and Mitrushina, M.

Department of Psychology, California State University, Northridge, USA

[P29]

Chronic administration of inhibitors of Acetylcholinesterase does not modify Mismatch Negativity to frequency changes in Alzheimer Disease

N. Agarwal*, B. Lanuzza, F.I.I. Cosentino, I. Iero, R.S. Spada, G. Toscano, R. Ferri

Department of Neurology, Oasi Institute for Research on Mental Retardation and Brain Aging (IRCCS), Troina, Italy

[P30]

Mismatch Negativity (MMN) is not correlated with neuroendocrine indicators of catecholaminergic activity in healthy subjects

Michel Hansenne *, Emmanuel Pinto, Gabrielle Scantamburlo, Jean Reggers, William

Pitchot, and Marc Anseau, Department of Psychiatry, University of Liège, CHU Sart Tilman (B35), B-4000 Liège

[P31]

Harm avoidance is related to Mismatch Negativity (MMN) amplitude in healthy subjects

Michel Hansenne *, Emmanuel Pinto, Gabrielle Scantamburlo, Jean Reggers, William

Pitchot, and Marc Anseau, Department of Psychiatry, University of Liège, Belgium

[P32]

Diagnostic value of Somatosensory Evoked Potentials (SEPs) in Vascular dementia.

I.Tsiptsios, K.Sitzoglou, G.Rizos, K.Fountoulakis, A.Papanikolaou, D. Fotiou

Lab.of clinical neurophysiology, A Neurological Clinic, Aristotle University of Thessaloniki, Greece

[P33]

EEG coherence is modulated by the irrelevant speech effect

¹Franziska Kopp *, ¹Erich Schröger, and ²Sigrid Lipka

¹ Institute of General Psychology, University of Leipzig, Germany

² Institute of Behavioural Sciences, University of Derby, UK

[P34]

Heritability and “environmentability” of electroencephalogram during infancy: the twin study

Stroganova T.A. *, Orekhova E.V., Posikera I.N., Malikh S.B.

Brain Research Institute RAMS, Moscow, Russia

[P35]

The probabilistic forecasting and the cognitive disorder mechanisms in children with learning disabilities

Rozhkova L.A.

Institute of Special Education, Russian Academy of Education, Moscow, Russia

[P36]

An ERPs study of differential brain maturation in children treated for Congenital Hypothyroidism (CH)

Marti S*, Robaey P, Simoneau-Roy J, Leroux S, Alvarez M, VanVliet G.

Cognitive Psychophysiology and Neuropsychiatry laboratory, Research Centre of Sainte-Justine Hospital, University of Montreal, Quebec, Canada

[P37]

Childhood cancer has no adverse effects on MMN or neuropsychological parameters at diagnosis

Lähteenmäki PM¹, Myllykoski AM², Lähteenmäki L¹, *Martynova O², Salmi TT¹, Cheour M².

¹ Department of Pediatrics, ² Department of Psychology and Centre for Cognitive Neuroscience, University of Turku, Finland.

[P38]

Early Somatosensory Evoked Potentials Changes In Patients With Sensorimotor Deficit

Elena V. Damianovitch*, Tatiana V. Orlova

Laboratory of Neurocybernetics, Brain Research Institute, Russian Academy of Medical Sciences, Moscow, Russia

[P39]

Intermittent short-lasting hypofrontality in schizophrenic patients during task performance

JA González-Hernández *, I Cedeño, C Pita-Alcorta, L. Días-Comas, L. Galán, Figueredo-Rodriguez .Department of Clinical Neurophysiology, and Department of Psychiatry, "Hermanos Ameijeiras" Hospital, Havana, Cuba.

[P40]

Harmonic Profile and Topography of the EEG Photic Driving in Children and Adolescents

V.V.Lazarev*, L.C.deAzevedo

Fernandes Figueira Institute, FIOCRUZ, Rio de Janeiro, Brazil

[P41]

Importance of Emotional Adjustment of Children with Insulin- Dependent Diabetes

Budimir Popovic¹*, Danka Filipovic¹, Katanic Dragan¹, Maja Vukadinovic²

Medical Faculty of Novi Sad, University of Novi Sad¹, Department of Psychology, Faculty of Philosophy, University of Novi Sad² Yugoslavia

[P42]

EXG (electroexpectogram) curve in patients with chronic schizophrenia

L.Bozinovska *, S. Mancevska *, J. Pluncevic, B. Sivevska

Department of Physiology, School of Medicine, University Ss. Cyril and Methodius, Skopje, Macedonia

[P43]

CNV and PINV during EXG paradigm in patients with chronic schizophrenia

S. Mancevska,* L.Bozinovska,* J. Pluncevic, B. Sivevska, V. Ortakov

Department of Physiology, School of Medicine, University Ss. Cyril and Methodius, Skopje, Psychiatric Hospital "Skopje", Skopje, Macedonia

[P44]

Distorted perception of face in dismorphophobia and event-related potentials

Bringas, M.L.*, Martin, M., Cedeño I., De la Osa M., Hernández F.

International Center for Neurological Restoration Havana Cuba

[P45]

Restless legs in Tourette syndrome are linked to maternal symptoms

P. Lesperance, N. Djerroud*, S. Chouinard, G. Rouleau, F. Richer and the

Montreal Tourette Study Group

Movement Disorders Unit, Montreal, Quebec, Canada

[P46]

Event-related potentials and life events in subjects at high risk for alcohol dependence

S.I. Lepadatu*, M.-P. Milcent, M. Dongier, M.-A. Bouchard and J.B. Debruille

McGill University and Douglas Hospital Research Centre, Montreal, Canada

[P47]

The vocabulary structure of prematurely born children

Jocic, V & Golubovic, S *

Institute for Experimental Phonetics and Speech and Language Pathology, Belgrade/Pirot

& Faculty of Defectology University of Belgrade, Belgrade,* Yugoslavia

[P48]

Relation between spontaneous alpha activity and ERPs in subjects with high and low performance in a selective attention task

Ramos, J.*, Guevara, M.A., Amezcua, C. Instituto de Neurociencias, Univ. de

Guadalajara, México.

[P49]

The NoGo-antriorization in healthy children and patients with attention-deficit hyperactivity disorder

*Ch. Klein & N. Toens

Research Group Psychophysiology, University of Freiburg, Germany

[P50]

Development of ocular motor functions in children and adolescents: A longitudinal study

*Ch. Klein

Research Group Psychophysiology, University of Freiburg, Germany

[P51]

Topographic EEG mapping study and psychiatric evaluation of patients with sleep apnea syndrome

Athanasios Xiromeritis^{1*}, Haido Pastaka^{2*}, Apostolia A. Hatziefthimiou³, Konstantinos Gourgoulis^{2,3} and Nikiforos V. Angelopoulos¹

¹Department of Psychiatry, ²Department of Pneumonology, ³Department of Physiology School of Medicine, University of Thessalia, Greece

[P52]

Magnetic Resonance, ictal EEG and Neuropsychological deficits in refractory epilepsy

M.E. García, L. Morales, R. Palmero, I. Sarduy, M. Tacoronte

International Center of Neurological Restoration, City of Havana, Cuba.

(Presented by M. Baez*, International Centre for Neurological Restoration (CIREN), Cuba)

[P53]

Compensation for the disorders of visual perception in children

L.P. Grigorieva

Neuropsychophysiology Laboratory, Institution of Special Education, Moscow, Russia

[P54]

Forms of dysgraphia in children

Golubovic, S., * Markovic, M., & Jovanovic-Simic, N.,

Faculty of Defectology University of Belgrade * & Institute for Experimental Phonetics and Speech Pathology, Belgrade, Yugoslavia

[P55]

Opiate addiction among youth and teenagers in Novosibirsk

Korolenko T.A.^{1*}, Anterejkina L.I.², Goncharova I.A.¹, Levina O.A.¹, Sakharova E.A.², Korolenko C.P.¹

¹Institute of Physiology RAMS; ²Municipal Drug Addiction Center for Treatment of Children and Adolescents; Novosibirsk, Russia

[P56]

The psychological mechanisms of addictive disorders

Korolenko C.P.*, Korolenko T.A., Novosibirsk Medical Academy, Novosibirsk, Russia

[P57]

Neurophysiological assessment in alcohol dependent patients

K. Sitzoglou*, I. Tsiptsios, A. Papanikolaou, Ch. Tsonidis, P. Koios

Dept. of Clinical Neurophysiology, Mental Hospital of Thessaloniki, Greece

[P58]

ADD/ADHD and alcohol: a subclinical fetal alcohol syndrome?

K. Natani*, S. Chand, Bi-State Neuropsychiatric Services, P.C., Alton, Illinois, USA

[P59]

ADD/ADHD & seizure disorders diagnostic specificity with the integrated variables of attention (IVA) continuous performance test (CPT)

K. Natani*, S. Chand, Bi-State Neuropsychiatric Services, P.C., Alton, Illinois, USA

[P60]

The Bender Gestalt test: a neurometric for impaired frontal lobe function?

K. Natani*, S. Chand, Bi-State Neuropsychiatric Services, P.C., Alton, Illinois, USA

[P61]

Pediatric anemia: a biomarker for maternal deprivation and neglect?

K. Natani*, S. Chand, Bi-State Neuropsychiatric Services, P.C., Alton, Illinois, USA

[P62]

QEEG and PTSD

K. Natani*, S. Chand, Bi-State Neuropsychiatric Services, P.C., Alton, Illinois, USA

[P63]

Learning disability conditioned by magnetic factor

K. A. Nikolskaya

Biology Faculty, Moscow State University, Moscow, Russia

[P64]

Episodic memory evaluation in alzheimer disease using the Von Restorff effect

Paolo Vitali, Giuseppe Chiarenza*, Nicola Girtler, Flavio Nobili, Aurora Cerri, Moreno Saturno, Paola Rosati, Caterina De Leo, Guido Rodriguez

Clinical Neurophysiology, Di.M.I, Genova University and Dept. of Child and Adolescent Neuropsychiatry, Az. Osp. G. Salvini, Rho Hospital, Rho, Milan, Italy

[P65]

Comparison of the Classical and Leponex Treatment on Schizophrenia: Using Positive And Negative Scale of SCL (PANSS)

Sharafi M., Vahabzadeh. A., Sharafi R., Golbaghi A*., Afkham Ebrahimi A., Sharafi E. Seifollahi Asle S.

The Neuroscience Division, Tehran Psychiatric Institute and WHO cc, Iran University of Medical Sciences (IUMS), Tehran-Iran

[P66]

Profiles of Violent Mentally Ill Incarcerated Males: Neuropsychology and Psychophysiology

*Myla H. Young, *Jerald Justice, California Department of Mental Health Psychiatric Program-Vacaville, California, USA

[P67]

Effects Of Procyclidine On Antisaccade And Smooth Pursuit Eye Movements

Ettinger U*, Kumari V, Corr PJ, Zachariah E, Galea A, Das M, et al

Section of Cognitive Psychopharmacology, Institute of Psychiatry, De Crespigny Park, London SE5 8AF, UK

[P68]

Encoding and Retrieval of Visual Images in Alzheimer's Disease: A Functional MRI Study

Mitterschiffthaler MT*, Kumari V, Kukkastenevemas R, O'Mahony H, Soni W, Thapa S, et al

Neuroimaging Research, Department of Neurology; and Section of Cognitive Psychopharmacology, Department of Psychological Medicine, Institute of Psychiatry, De Crespigny Park, London SE5 8AF, UK

**POSTERS PRESENTATIONS
SCIENCE FAIR SESSION 2**

**WEDNESDAY, JULY 31, 2002
5:30 PM – 7:00 PM**

[P69]

Feedforward/Feedback Components of MEG Visual/Auditory Cortical Response Profile

Aine, CJ^{1,2,3,4} Stephen, J^{1,2}

¹VAMC, Departments of ²Radiology, ³Neurology, ⁴Neuroscience UNM School of Medicine, Albuquerque, NM

[P70]

Inter-individual variability of fMRI activations in phonological and semantic judgement tasks

M.L. Seghier^{1,2}, F. Lazeyras², J.M. Annoni³, A. Khateb*³

¹Plurifaculty Program of Cognitive Neuroscience, Geneva University, ²Dept. Radiology and ³Neurology, Geneva University Hospital, Switzerland

[P71]

Semantic processing of categorical and associative relationships: A brain mapping study

A. Khateb*, J.M. Annoni, A.J. Pegna, S.D. O'Dochartaigh, T. Landis, C.M. Michel
Neurology Clinic, Geneva University Hospitals, Switzerland

[P72]

From linguistic theory to psychophysiology: Electrophysiological and behavioral correlates

*Tsapkini Kyra^{1,2}, Jarema Gonia^{1,2}, & Anne-Marie DiSciullo³

1. Centre de recherche, Institut universitaire de gériatrie de Montréal; 2. Department of Linguistics, Université de Montréal; 3. Department of Linguistics, Université de Québec à Montréal

[P73]

Study of tonal impression by tonal organization

¹Yuki Mito, ²Shinichi Terada, ³Hiroshi Kawakami, Yasuyoshi Okura

¹Graduate School of Art, Nihon University, ²National Defense Medical College

³College of Art, Nihon University, Tokyo, Japan

[P74]

An Event-Related Brain Potential (ERP) Study of Working Memory

Celeste Lefebvre^{1*}, Yannick Marchand¹, Gail Eskes^{1,2,3} and John F. Connolly^{1,2,4}

¹Department of Psychology, Dalhousie University Halifax, NS; ²Department of Psychiatry, Dalhousie University Halifax, NS; ³QEII Health Sciences Center, Halifax, NS; ⁴Pediatrics (Neurology), IWK Grace Health Center, Halifax, NS

[P75]

ERPs correlate with Digit Span Performance

Yannick Marchand¹, Celeste D. Lefebvre¹, & John F. Connolly^{1,2,3}

¹Cognitive/Clinical Neuroscience Unit, Department of Psychology, Dalhousie University, Halifax, NS, Canada; ²Department of Psychiatry, Dalhousie University, Halifax, NS, Canada; ³Paediatrics (Neurology), IWK Grace Health Centre, Dalhousie University, Halifax, Canada

[P76]

Stimulus Preceding Negativity and Oscillatory Changes of the EEG in a Non-Motor Anticipation Paradigm

Krausz, G.¹, Brunia, C.H.M., Neuper, C.¹, Pfurtscheller, G.

¹Department of Medical Informatics, Institute for Biomedical Engineering, University of Technology Graz, Austria

[P77]

Spatiotemporal patterns of event-related low-frequency brain oscillations in recognition memory

H.K.M. Meeren*, F.H. Lopes da Silva, J.C. de Munck, B.W. Van Dijk, C.J. Stam
MEG Centre, Vrije Universiteit Medical Centre, Amsterdam, The Netherlands

[P78]

Neural substrates of sadness in schizophrenia: an fMRI study

Fahim C.*, Mancini A., Boualem M., Ait Bentaleb L., Gendron A., Stip E.,
Centre de Recherche Fernand-Seguin, CHUM Notre-Dame

[P79]

Auditory middle latency responses of a patient with unilateral cerebral lesions: specific right-left differences

Tsuneo Harashima*¹, Chie Yoshikawa², Kaho Hougetsu³, Tadashi Ichikawa⁴, Akiyoshi Katada⁵, Hisaki Ozaki⁶

¹Institute of Disability Sciences, University of Tsukuba; ²Department of speech/language pathology and Audiology, International University of Health and Welfare; ³Asahi General Hospital 12; ⁴Department of neurology, Saitama General Rehabilitation Center; ⁵Department of Social Work, Kinjo University; ⁶Laboratory of Physiology, Ibaraki University

[P80]

Sound Localization and Auditory ERPs in Blind Subjects

Charles Leclerc¹, Frédéric Gougoux¹, Maryse Lassonde^{1,2} and Franco Lepore^{1,2} *

¹Groupe de Recherche en Neuropsychologie Expérimentale, Université de Montréal, Montréal, Québec, Canada; ²Institut Universitaire de Gériatrie de l'Université de Montréal, Montréal, Canada.

[P81]

Effects of musical schema on EEG activation while listening to music

Hiroshi Kawakami¹, Noriko Metoku², Shinichi Terada³

¹ Dept. of Music, College of Art, Nihon University, Tokyo, Japan ² School of Medicine, Kinki University, Osaka, Japan ³ National Defense Medical College, Saitama, Japan

[P82]

Audio-visual sensory integration and Mismatch Negativity

Ullsperger*, P.; Erdmann, U.; Freude, G. and Dehoff, W.

Federal Institute for Occupational Safety and Health, Berlin, Germany

[P83]

Temporal dynamics of auditory what and where processing in humans

CY.Ducommun^{1*}, I.Viaud-Delmon¹, MM.Murray¹, S.Clarke³, CM.Michel^{1,2}.

¹Functional Brain Mapping Laboratory, University Hospital of Geneva; ²Plurifaculty Program of Cognitive Neuroscience, University of Geneva; ³Neuropsychology, CHUV Lausanne, Switzerland

[P84]

Intelligence and event-related potentials: an auditory oddball backward masking analysis

Beauchamp, C.M.* & Stelmack, R.M.

School of Psychology, University of Ottawa, Canada

[P85]

Extraversion and accessory stimulation: Effects on the time course of sensory and motor information processing

Jutta Stahl and Thomas H. Rammsayer*

Georg Elias Mueller Institute for Psychology, University of Goettingen, Germany

[P86]

ERP correlates of temporal generalization: Evidence for duration processing during presentation of very brief stimuli

Henning Gibbons, Susanne Brandler, and Thomas H. Rammsayer*, Georg Elias Mueller Institute for Psychology, University of Goettingen, Germany

[P87]

The highs and lows of sustained attention: An ERP study

N. Porter*, I.H. Robertson

Department of Psychology, Trinity College Dublin, Ireland

[P88]

Event-related potentials (ERPs) in a CPT paradigm in children

J. Bernal*, M. Rodríguez, G. Yáñez, E. Marosi, V. Guerrero, B. Prieto, L. Luviano Neurociencias. FESI. Universidad Nacional Autónoma de México

[P89]

The Late Nd Attention Waveform is Sensitive to Short-term Memory, but not Long-term Memory

Singhal, A.*, & Fowler, B., Departments of Psychology*, and Kinesiology and Health Science, York University, Ontario, Canada

[P90]

Vector coding of color differences expressed in neuronal activity of rabbit's visual cortex

Evtikhin D.V., Polyansky V.B., Sokolov E.N.

Moscow State University, Moscow, Russia

[P91]

Differential acetylcholine release elicited by pattern visual stimulation in visual cortex in rats

F. Laplante¹, R. Quirion¹ and E. Vaucher^{2*}. 1. Douglas Hospital Research Center, McGill Univ., 2. Optometry School, Univ. de Montréal, Canada

[P92]

Electrocortical correlates of smooth pursuit eye movements

*Ch. Klein¹ & B. Feige

¹ Research Group Psychophysiology, University of Freiburg. ² Psychiatric University Hospital, University of Freiburg, Germany

[P93]

Selectively distributed oscillations following stimulations in shape of faces

Murat Özgören^{1,2}, Erol Başar^{1,2}, and Canan Başar-Eroğlu³

¹ Department of Biophysics, Medical School, Dokuz Eylül University, Balçova, Izmir, Turkey; ² Brain Dynamics Multidisciplinary Research Network, TÜBİTAK Ankara,

³ Institute of Psychology and Cognition Research, University Bremen, Germany

[P94]

Mid-ventrolateral prefrontal cortex: a region important for visual spatial and visual non spatial retrieval mechanisms

P. Kostopoulos* and M. Petrides

Montreal Neurological Institute, McGill University, Quebec, Canada

[P95]

Seeing the world through rose-colored glasses: peripheral red color vision, cheerfulness, and appreciation of visual experience

T. Ben-Jacob, R. Bruckner, and V. Utermohlen*

Division of Nutritional Sciences, Cornell University, Ithaca, NY, USA

[P96]

Event-Related Potentials Elicited by Self-Initiated Auditory and Visual Events

Hiroshi Nittono*

Faculty of Integrated Arts and Sciences, Hiroshima University

1-7-1 Kagamiyama, Higashi-Hiroshima, Japan 739-8521

[P97]

Electrophysiological Correlates of the Mechanisms Generating Illusory Contours in the Kanizsa Triangle

M. Brodeur, F. Lepore, & J. B. Debruille

Douglas Hospital Research Centre, McGill University, Montreal, Canada

[P98]

Analysis of EEG relating to subjective preference of visual motion stimuli

Yosuke Okamoto*, Yoshiharu Soeta, and Yoichi Ando

Graduate School of Science and Technology, Kobe University, Rokkodai, Nada, Kobe, 657-8501, Japan

[P99]

Influence of the Completeness of the Inducers on the Perception of Global Illusory Form: a VEP Experiment

M. Brodeur, & J. B. Debruille

Douglas Hospital Research Centre, McGill University, Montreal, Canada

[P100]

Maturation of the topographical distribution of visual evoked potentials in infants

Sarah Lippé,* Caroline Perchet, Marie-Sylvie Roy, Maryse Lassonde

Research Center, University of Montreal, Montreal, Quebec, Canada

[P101]

Relationship between magnetoencephalographic alpha waves and subjective preference for a flickering light

Y. Soeta^{1*}, Y. Okamoto¹, S. Nakagawa², M. Tonoike² and Y. Ando¹

¹Graduate School of Science and Technology, Kobe University, Rokkodai, Nada, Kobe, 657-8501, Japan, ²Life Electronics Laboratory, National Institute of Advanced Industrial Science and Technology (AIST), Midorigaoka, Ikeda, Osaka, 563-8577, Japan

[P102]

The effect of ketanserin and pirenperone injection into the ca1 region on spatial discrimination

Omid Sabzevari^{1*}, Nasser Naghdi², Nahid Majlessi², Fahshideh Broofar²

¹Department of Toxicology and Pharmacology, Faculty of Pharmacy, Tehran University of Medical Sciences and ²Department of Physiology & Pharmacology, Pasteur Institute of Iran, Pasteur Ave., Tehran, I.R. Iran

[P103]

Blood flow in the eye and the brain in patients with recurrent herpetic keratitis

T.B.Gaidamaka, V. S. Ponomarchuk, N. I. Khramenko*

Institute of Eye Diseases and Tissue Therapy, Odessa, Ukraine

[P104]

The state of visual functions in patients with high myopia after automatic lamellar keratoplasty

Slobodyanik S.*, Ponomarchuk V., Usov V.

Filatov Institute of Eye Diseases and Tissue Therapy, Odessa, Ukraine

[P105]

ERP's confirm clinical impressions in Prader Willi Syndrome (PWS)

Marjo J.R. Brinkman¹ Johannes E.A. Stauder*¹, Leopold M.G. Curfs²

¹Faculty of Psychology, Universiteit Maastricht, Maastricht, The Netherlands

²Clinical Genetics Department, Academic Hospital/Universiteit Maastricht, Maastricht, The Netherlands

[P106]

Mental rotation used to test the "two visual systems" account of object recognition

Andrew Irving¹, Robert J. Barry^{1*}, Stuart Johnstone¹ & William Hayward²

¹Department of Psychology, University of Wollongong, Wollongong, Australia

²Department of Psychology, Chinese University of Hong Kong, Hong Kong

[P107]

The olfactory evoked potentials in man

Myshkin I.Yu.

The Yaroslavl State University, Yaroslavl, Russia

[P108]

Topographical display of ERP in real time

Akihiro Yagi¹, Koji Kazai, Hirokazu Ogawa, Atsushi Noritake & Masumi Iwai²

¹Kwansei Gakuin University and ²Melon Technos, Japan

[P109]

EEG waves as chaotic self-oscillations

Skarman E., Saab AB, Institute of Computer Science

Linköping University, Sweden

[P110]

Infringement of nervous - muscle conducting of excitation and neurasthenia

A.G. Remnev, M.V. Sidor*, Altai Diagnostic Center, Barnaul, Russia

[P111]

Condition of afferent ways of cerebrum stem in patients with circulation disorders in pool of vertebral arteries

M.V. Sidor*, A.G. Remnev, The Altai Diagnostic Center, Barnaul, Russia

[P112]

Infringements of brain functional state in children with pathological kinking of internal carotid arteries

J.V. Smirnova*, K.V. Smirnov, M.V. Sidor, The Altai Diagnostic Center, Barnaul, Russia

[P113]

Functional condition of the trigeminal and facial nerves in patients with brain circulation disorders

A.G. Remnev, M.V. Sidor, The Altai Diagnostic Center, Barnaul, Russia

**POSTERS PRESENTATIONS
SCIENCE FAIR SESSION 3**

**THURSDAY AUGUST 1, 2002
6:30PM-8:00PM**

[P114]

Neuromagnetic imaging of somatosensory cortex using a minimum-variance beamformer

Gaetz W* & Cheyne D.

Neuromagnetic Imaging Laboratory, Hospital for Sick Children Research Institute, Toronto, ON, Canada

[P115]

Functional Brain Activation Linked To Precision Movements In Huntington's Disease

Lafrance, C*^{1,2}, Boulet, C^{1,2}, Mensour, B.¹, Leroux, Jm¹, Chouinard, S¹ & Richer, F^{1,2}

Centre Hospitalier de l'Université de Montréal & Université du Québec à Montréal, Canada

[P116]

Differential Influence of Covert Spatial Attention and n-Back Tasks on Early and Late Nd and P300

Bomba, M, Ramirez, J., Singhal, A.*, Fowler, B. Departments of Kinesiology and Health Science and *Psychology, York University, Ontario, Canada.

[P117]

Sympathetic responses in spelling task as an alternative communication channel for individuals with severe motor disability

Tsukahara, R* and Aoki, H

Institute for developmental research, Aichi human service center, Kasugai, Aichi, Japan

[P118]

Kinematic 3-D Finger Movement Time Analysis

*B. Barnes, M. Camarena, M.A., R.S. Pozos

San Diego State University, California, USA

[P119]

Role of the ponto-cerebellar pathway in motor skills and motor learning in the rat

A. Gasbarri*¹, A. Pompili¹, C. Pacitti¹, and F. Cicirata²

¹Department of Sciences and Biomedical Technologies, University of L'Aquila; ²Department of Physiological Sciences, University of Catania (Italy)

[P120]

Possible role of serotonin (5-ht) in the antidepressant-like properties of neuropeptide Y (NPY) in mice

J.P. Redrobe^{1*}, A. Fournier², G.B. Baker³, R. Quirion¹.

¹ Douglas Hospital Research Centre, McGill University, ² INRS Santé, Université du Québec,

³ Dept. Psychiatry, University of Alberta, Edmonton, Alberta, Canada

[P121]

Study of spatial memory in adult male rats with injection of testosterone enanthate and flutamide into ventrolateral nucleus of amygdala in Morris water maze

Oryan, S.*; Parivar, K. and Naghdi, N

Dept. of Biology, Teachers' Training University, Tehran-Iran

[P122]

Beta-amyloid peptide - a calcium antagonist?

Andras Palotas*, Janos Kalman, Miklos Palotas, Anna Juhasz, Zoltan Janka and Botond Penke Department of Medical Chemistry, University of Szeged, Szeged, Hungary

[P123]

Selectivity Of The States Of Anxiety (Exemplifying Isolation In An Early Ontogenesis In Rats)

N.M. Khonicheva,^{1*} M. G. Airapetyanc, R. Czabak-Garbacz² N.V. Guliaeva, M. Yu. Stepanichev, N.A. Krupina,¹ Institute of Higher Nervous Activity and Neurophysiology, Russian Academy of Sciences, Moscow;² Academy of Medicine - University, Lublin, Poland

[P124]

A Device To Study The Haptic Exploration Of Shape

J. Voisin*, L. Ten Bokum and C.E. Chapman.

Centre de Recherche en Sciences Neurologiques, Université de Montréal, Canada

[P125]

Sequential Finger Force Associated with Fatigue

*M. Camarena, M.A.; J. L. Agraz, M.EE.; B. Barnes; R.S. Pozos, San Diego State University, USA

[P126]

Different Types Of Proprioceptive Input Activate Different Brain Areas: A PET Study

Radovanovic S*, Korotkov A, Kataeva G, Ljubisavljevic M, Medvedev S, Johansson H, et al.

Center for Musculoskeletal Research, National Institute for Working Life, Umea, Sweden;

Institute of Human Brain, Russian Academy of Sciences, S-Petersburg, Russia

[P127]

Acceleration/Deceleration Profiles Associated with the Bat Swing

J. Millan; B. Barnes; M. Camarena, MA.; *R.S. Pozos

San Diego State University, USA

[P128]

The Impact of Attentional Focus on Endurance

A. Szabo^{1*}, C.K. Tsang^{2*}, L.P.Y. Chow^{2*}, J-A. Lennard¹, & I. Soos³

¹The Nottingham Trent University, UK, ²Hong Kong Institute of Education, HK, and

³University of Sunderland, UK

[P129]

Psychophysiological regularity of switching of attention

E. Tambiev*, S. D. Medvedev

B. Kogan Research Institute for Neurocybernetics, The Rostov State University, Russia

[P130]

Ultradian variations in emotional brain potentials

Hot, P.¹, Delplanque, S.¹, Lavoie, M.E.^{2,*} and Sequeira, H.^{1,*}

¹Laboratoire de Neurosciences du Comportement, Université de Lille I, 59655 Villeneuve d'Ascq, France, ²Centre de Recherche Fernand-Seguin, Hôpital Louis-H Lafontaine, Université de Montréal, Montréal, Canada

[P131]

Diurnal variations in emotional responses

Hot, P.¹, Leconte, P.², and Sequeira, H.^{1,*}

¹Laboratoire de Neurosciences du Comportement, Université de Lille I, 59655 Villeneuve d'Ascq, France, ²Laboratoire Travail et Cognition, UMR 5551, Université de Toulouse-le-Mirail, France

[P132]

The effect of facial-affect recognition on the visual P300 in schizophrenic patients; comparison with healthy subjects

Yoshifumi Waseda^{*1,2}, Kiichiro Morita¹, Takefumi Ueno¹, Keiichiro Mori^{1,3}, Hiroko Yamamoto¹, Hisao Maeda¹

¹Kurume University School of Medicine Department of Neuropsychiatry

²Fukuoka prefectural psychiatric medical center Dazaifu Hospital

³Kokura Gamou Hospital

[P133]

The role of the hippocampus in the organization of psycho-emotional pattern

V. Kostenkova

Dept. of High Nervous Activity, Moscow State University, Moscow, Russia

[P134]

The modulatory influences of alexithymia on affective processing: high resolution EEG investigation

Aftanas L.I.*, Varlamov A.A., Pavlov S.V.

Psychophysiology Laboratory, State-Research Institute of Physiology SB RAMS, Novosibirsk, Russia

[P135]

Rapid & distinct processing of emotional words revealed by high-density electrical mapping

S. Ortigue*, C.M. Michel, M.M. Murray, T. Landis

Functional Brain Mapping Laboratory, Neurology Department, University Hospital of Geneva, Switzerland

[P136]

Comparison of cerebral activation patterns in identifying affective prosody, semantic prosody, and phoneme differences

Didier Grandjean¹, Christine Ducommun², Pierre-Jean Bernard¹ & Klaus Scherer¹
University of Geneva¹, University Hospital of Geneva², Switzerland

[P137]

Temporal and topographical dynamics of emotional reactions as indexed by event-related synchronization and desynchronization

Aftanas L.I.*, Reva N.V., Varlamov A.A., Pavlov S.V.,
Psychophysiology Laboratory, State-Research Institute of Physiology SB RAMS,
Novosibirsk, Russia

[P138]

A new diagnostic and therapeutic approach to the General Adaptation Syndrome (GAS)

Rinaldi S., Fontani V., Aravagli L., Saragò G.
Istituto Rinaldi Fontani – Via Nazionale 23 Florence

[P139]

Psychophysiology of stress and mental disorders: hardware and software

Vahabzadeh, A.
The Neuroscience Division, Tehran Psychiatric Institute and WHO cc, Iran
University of Medical Sciences (IUMS), Tehran -Iran

[P140]

Personality, stressful life, events and suicide

Vahabzadeh, A., Bolhari, J., and Niroomand, B.
The Neuroscience Division, Tehran Psychiatric Institute and WHO cc, Iran University of
Medical Sciences (IUMS), Tehran -Iran

[P141]

Abnormal slow potential generators in schizophrenia in multiple cortical areas

Luis FH Basile*, Marcus V Baldo, Juliana Yacubian, Branca L.C. Ferreira, André C. Valim,
Claudio C Castro, Wagner F Gattaz
University of São Paulo, Brazil

[P142]

EEG lateralization in high functioning autism

Christianne Bolduc^{1,3} Anne-Marie Daoust^{1,4} Élyse Limoges^{1,3} Laurent Mottron^{1,2} Claude
M. J. Braun^{1,4} Roger Godbout^{1,2*}

¹Centre de Recherche Fernand-Seguin, Hôpital Louis-H.-Lafontaine & Hôpital Rivière-des-Prairies, ² Département de psychiatrie, Université de Montréal, ³ Département de Psychologie, Université de Montréal, ⁴ Département de psychologie, UQAM, Montréal, Canada

[P143]

Tissue Iron Depletion Is Associated With Decreased Taste Sensitivity To 6-N-Propylthiouracil (Prop)

T. Brownlie IV, V. Utermohlen*
Division of Nutritional Sciences, Cornell University, Ithaca, NY USA

[P144]

Chronic estrogen treatment produces opposite effects on alcohol consumption in the short and in the long-term in male rats

*Juárez Jorge and Vázquez-Cortés Cristina. Instituto de Neurociencias, Universidad de Guadalajara, Guadalajara, Jal., México

[P145]

Effect of oral magnesium and or carbohydrate rich diet on the mental manifestations in cases of premenstrual dysphoric disorder

Aly E. Kholeif, Hoda M. Salama* and Ehsan M. Hassan, departments of Obstetrics& Gynecology, Neuropsychiatry and Medical Biochemistry, Faculty of Medicine , Alexandria University, Egypt

[P146]

The Effects of Anisomycin (a Protein Synthesis Inhibitor) on Spatial Learning and Memory in CA1 Region of Rats Hippocampus

Nasser Naghdi*, Nahid Majlessi and Tahereh Bozorgmehr
Department of Physiology & Pharmacology, Pasteur Institute of Iran,

[P147]

Impaired spatial learning in the Morris water maze induced by serotonin reuptake inhibitors in rats

Nahid Majlessi*, Nasser Naghdi, Department of Physiology & Pharmacology, Pasteur Institute of Iran, Pasteur Ave., Tehran 13164, IRAN

[P148]

Are the State DST Non-Suppression and the Thyroid Dysfunction Related to a Family History of Dementia in Patients with Major Depression?

KN. Fountoulakis*, St G Kaprinis, A. Iacovides, K. Phokas, G. Kaprinis
Laboratory of Psychophysiology, 3rd Department of Psychiatry, Thessaloniki, Greece

[P149]

Successful but Temporary Response of an Extremely Refractory Depressed Patient with the Co-administration of Venlafaxine per os and Intravenous Clomipramine-A Case Report

K. N. Fountoulakis*, St. G. Kaprinis, A. Iacovides, G. St Kaprinis
Laboratory of Psychophysiology, 3rd Department of Psychiatry, Aristotle University of Thessaloniki, Greece

[P150]

Biological Markers and Psychophysiological Methods as Long-Term Response Predictors to Fluoxetine Treatment

Fountoulakis KN*, Kaprinis St. , Kaprinis G, Iacovides A., Fotiou F.
Laboratory of Psychophysiology, 3rd Department of Psychiatry,
Laboratory of Neurophysiology, 1st Department of Neurology, Aristotle University of Thessaloniki

[P151]

Electrooculographic and Electroretinographic Findings in Major Depressive Patients from Greece (Latitude 40-40.1° North)

Fotiou F, Fountoulakis KN, Iacovides A, Kaprinis G.

Laboratory of Psychophysiology, 3rd Department of Psychiatry, and Laboratory of Clinical Neurophysiology, 1st Department of Neurology, Aristotle University of Thessaloniki, Greece

[P152]

The P2 visual evoked potential and the diagnosis of probable Alzheimer's dementia: A psychometric study

J.E. Arruda*, R.T. Amoss, L.D. Kizer, K.L. Coburn, Mercer University, USA

[P153]

Study of interaction between histaminergic and cholinergic systems on memory retention in adult male rats

Eidi, M., Eidi, A., Oryan, S.

Dept. of Physiology, Univ. of Azad Islamic, Tehran, Iran

[P154]

Mood stabilizers increase TRH receptor levels in rat brain

A.E. Pekary*, A. Sattin, J.L. Meyerhoff and M. Chilingar

Research and Psychiatry Services, VA Greater Los Angeles Healthcare System, and Departments of Medicine, Psychiatry, and Biobehavioral Sciences and Brain Research Institute, UCLA School of Medicine, Los Angeles, CA , USA

[P155]

Psychological and Psychophysiological Responses to Self-Poisoning

Rooke, N.J., Williams, C.L., & Haines, J.

School of Psychology, University of Tasmania, Australia

[P156]

Stress Recovery is Improved by Relaxing Music

Khalfa S.¹, Dalla Bella S.¹, Roy M.¹, Lupien S.², Peretz I.¹

Department of Psychology, University of Montreal¹, Department of Psychiatry², McGill University, Montreal, Quebec, Canada

[P157]

Neuroanatomical change by Musical Sound Stimuli during fetal development

Siamak Sheikhi*, Nader Pashapour, Shahla Amini, Rahim Alilzadeh, Faculty of Medicine, University of Medical Sciences, Urmia, IRAN.

[P158]

Quantitative EEG abnormalities related to the absorbed dose in patients who had Acute Radiation Sickness following the Chernobyl accident

K. Loganovsky, K. Yuryev

Research Centre for Radiation Medicine, Kiev, Ukraine

(Presented by P. Flor-Henry*, University of Alberta, Canada)

[P159]

Subcortical mechanisms of learning processes in the aspect of the phylogenetic transformations of the brain

G.T. Sargisov, Laboratory of Physiology Animal's Behavior, Zoology Institute National Academy of Sciences, Yerevan, Armenia

[P160]

Influence of psychoemotional factors on the state of the autonomic nervous and immune systems in patients with retina dystrophy

Chaura A.*, Degtjarenko T.

Filatov Institute Of Eye Diseases (Odessa,Ukraine)

[P161]

Neuromorphologic evidence for c-fos-immunoreactive neurons in forebrain, diencephalon and brainstem structures involved in the elaboration of panic and fear in golden hamster after aggressive encounter with South American coral snake

Weltson, A.^{1*}, Pippa-Gadioli, L.¹; Koji-Narazaki, F.¹, Paschoalin-Maurin, T.¹, Del Bel, E.A.², Coimbra, N.C.¹ Lab.of Neuroanatomy and Neuropsychobiology, FMRP-USP, ²Dep. of Physiology, FORP-USP, Brazil.

[P162]

Emotional stimuli in rapid serial visual presentation

Silvert, L.^a, Naveteur, J.^a, Honoré, J.^a, Boucart, M.^b and Sequeira, H.^{*a}

^aLaboratoire de Neurosciences du Comportement, Université de Lille I, France,^bCHRU de Lille, Hôpital Roger Salengro, Service Exploration Fonctionnelle de la Vision, France.

[P163]

Automatic processing in traumatic head-injury at different levels of consciousness

Dr Jacinthe Baribeau¹, Chantale Labbé^{2*},

Université Laval¹, Centre de recherches, Hopital Charles-LeMoyne²

[P164]

Mid-latency AEPs in closed head injury (CHI) during emergence from coma

Jacinthe Baribeau¹⁻²⁻³, Ph.D., G. Clossey, B.A.²⁻³

¹ Université Laval, Dir. LANNH Centre de recherches, Hopital Charles-LeMoyne², Centre Fernand Séguin³

(Presented by Chantale Labbee*, Hopital Charles-LeMoyne)

[P165]

A conditional testing approach to unorthodox forms of interaction

Rainer Schneider^{1*}, Julius Kuhl² and Harald Walach¹

¹Institute for Environmental Medicine and Hospital Epidemiology, University Hospital Freiburg, Germany; ² Department of Personality Psychology, University of Osnabrück, Germany

[P166]

Linear and non-linear concomitants of altered state of consciousness during meditation: high resolution EEG investigation

Aftanas L.I.*, Golocheikine S.A.

Psychophysiology Laboratory, State-Research Institute of Physiology SB RAMS, Novosibirsk, Russia

[P167]

A study on central auditory processing of a patient with brain damage in dichotic listening using prosodic features of emotional stimuli

Chie Yoshikawa*¹, Tsuneo Harashima², Akiyoshi Katada³, Nobuo Sanjo⁴, Tadashi Ichikawa⁴, Shinichi Terada⁵

¹Department of Speech/language pathology and Audiology, International University of Health and Welfare, ²Department of Disability Sciences, University of Tsukuba, ³Kinjo University, ⁴Department of Neurology, Saitama General Rehabilitation Center, ⁵Kouchi University, Japan

[P168]

Preliminary Evidence for Non-Locally Correlated EEGs of Spatially Separated

Subjects: A Pilot-Study

Christian Seiter¹, Holger Keibel², Harald Walach¹, Jiri Wackermann*³

¹University Hospital Freiburg, Institute of Environmental Medicine; ²University of Freiburg, Postgraduate Program of Cognitive Sciences; ³Institute for Frontier Areas of Psychology - IGPP, Freiburg, Germany

[P169]

Professionalism and early childhood education

Bowa Auandes, The University, Bedworthparke, South Africa

[P170]

Evaluation of basic emotions in flamenco music

Maja Vukadinovic¹, Jelena Sakotic¹, Budimir Popovic^{2*}, Danka Filipovic²

¹Department of Psychology, Faculty of Philosophy, University of Novi Sad

²Department of Physiology, Faculty of Medicine, University of Novi Sad

**POSTERS PRESENTATIONS
SCIENCE FAIR SESSION 4**

FRIDAY AUGUST 2, 2002

5:30 PM –7:00 PM

[P171]

Effects of Workload and Auditory Stimulation on Cardiovascular Reactivity: A Pilot Study

E. Alikakou and J.L. Andreassi*, Psychophysiology Laboratory, Department of Psychology, City University of New York, USA

[P172]

Cardiac Concomitants of Risky Choices

Eveline A. Crone & Maurits W. van der Molen*
Department of Psychology, University of Amsterdam, The Netherlands

[P173]

Fractal characteristics of heart rate variability in adolescents at verbal testing

V.G.Kamenskaya, V.M.Uritsky, N.I.Muzalevskaya, S.V.Zvereva, and L.V.Tomanov
Russian State Pedagogical University by A.I.Herzen, St.Petersburg, Russia

[P174]

Cardiac autonomic correlates of higher cognitive processing: indices of attention intensity and processing level

Yasutaka Kubota^{1*}, Motomi Toichi^{2,3}, Mitsue Shimizu^{1,4}, Robert L. Findling², Joseph R. Calabrese¹, ¹Mood disorder research program, Department of psychiatry, Case Western Reserve University/ University Hospitals of Cleveland, Cleveland, OH

²Division of Child & Adolescent Psychiatry, Case Western Reserve University/ University Hospitals of Cleveland, Cleveland, OH

³Health and Medical Services Center, Shiga University, Shiga, Japan

⁴Department of psychiatry, Jichi Medical school, Tochigi, Japan

[P175]

Neural correlates of cardiac vagal tone and the conscious emotional experience: nine case reports

Makiko Yamada*, Toshio Moritani, Yoshitaka Ohigashi
Neuropsychology Laboratories, Graduate School of Human and Environmental Studies, Kyoto University, Kyoto, Japan

[P176]

Effects of Violent Content in Video Games on Anxiety Level and Cardiovascular Reactivity in African-American Males

*Christi N. Moore, Jules P. Harrell, Ometha Lewis-Jack, and Lucile L. Adams-Campbell
Howard University, Washington DC, USA

[P177]

Effects of Standing Posture on Heart Rate Dynamics Between Virtual Environment and Reality

I.H. Song¹, H.G. Kim², I.Y. Kim², D.S. Lee¹, and Sun.I. Kim².

¹Dept. of Electrical and Computer Engineering, Hanyang University, Korea. ²Dept. of Biomedical Engineering, Hanyang University, Korea.

[P178]

Skin conductance responses and heart rate changes to food-related stimuli

Francisco Esteves^{1*}, Paula Carneiro¹, Patrícia Arriaga Ferreira¹, & Anders Flykt²

¹ Universidade Lusófona de Humanidades e Tecnologias, Lisboa, Portugal

² Mid Sweden University, Östersund, Sweden

[P179]

Impact of computer game playing on heart rate and skin conductance level

Patrícia Arriaga Ferreira^{1*}, Francisco Esteves¹, & Benedicta Monteiro²

¹ Universidade Lusófona de Humanidades e Tecnologias, Lisboa, Portugal

² Instituto Superior de Ciências do Trabalho e da Empresa, Lisboa, Portugal.

[P180]

Relationship among the need for control, clinical state and autonomic heart rate control in male coronary artery disease patients

Arvydas Būta, Danguolė Žemaitytė, Giedrius Varoneckas*

Institute Psychophysiology & Rehabilitation c/o Kaunas University of Medicine, Palanga, Lithuania

[P181]

Psychophysiological Analysis of Disruptive Behaviour in an Autistic Teenager with Mental Retardation

Chevrette T*., Rolland M*., Caouette M*., Verret C*., Bertrand L*., Baron M*.,

Psychophysiology Evaluation, Department of Physical Education, Hôpital Rivière des Prairies, Montreal, Canada

[P182]

Comparison of the effectiveness of two psychophysiological techniques on stress management

Vahabzadeh , A., Amir-Afshar ,A., and Asghar- Nejad, A.

The Neuroscience Division , Tehran Psychiatric Institute and WHO cc, Iran University of Medical sciences (IUMS) ,Tehran-Iran

[P183]

Psycho-stimulative effects of small doze heparin

Kondashevskaya M. V¹, Nikolskaya K. A.

¹Human Morphology Institute RAMS, and Biology Faculty, Moscow State University, Russia

[P184]

Novelty, intensity and vigilance effects on central and peripheral measures of the orienting reflex

Jacqueline A. Rushby* and Robert J. Barry

Brain & Behaviour Research Institute and Department of Psychology, University of Wollongong, Wollongong, Australia.

[P185]

The validity of psychophysiological detection of information with the Guilty Knowledge Test: A meta-analytic review

Gershon Ben-Shakhar¹ and Eitan Elaad^{2*}

¹The Hebrew University of Jerusalem, Israel, ²The Academic College of Judea and Samaria, Israel

[P186]

Baroreflex and central heart rate control during wakefulness and sleep

D.Žemaitytė*, V.Gelžinienė, G.Varoneckas, R.Kėsaitė, Institute of Psychophysiology and Rehabilitation of Kaunas University of Medicine, Palanga, Lithuania

[P187]

First night effect (FNE) as a sign of the adaptation to the New environment

V.S. Rotenberg, Tel-Aviv University, Tel-Aviv, Israel

[P188]

Effects of pleasant, unpleasant and neutral pictures on cataplectic subjects

V. Tucci*, L. Stegagno¹, S. Vandi², F. Ferrillo, D. Palomba¹, G Plazzi² et al.

Sleep disorders Center, DISMR, University of Genova, Genova,

¹Department of Psychology, University of Padua, Padua,

²Department of Neurological Sciences, University of Bologna, Bologna, Italy.

[P189]

Obstructive Sleep Apnea/Hypopnea Syndrome: long-term effects of CPAP treatment on polysomnographic and neurocognitive variables

Medinas M¹, Vallejo E, López B, Olmedo G, Alorda C*, Boshoff R, García-Mas A.

University of the Balearic Islands. ¹Joan March Hospital, Spain

[P190]

Neuropsychological functioning and sleep quality in patients with Obstructive Sleep Apnea/Hypopnea Syndrome

Alorda C*, Medinas M¹, López B, Vallejo E, Olmedo G, Boshoff R, Garcia-Mas A.

University of Balearic Islands. Cra.Valldemosa km.7,5. Palma de Mallorca.

¹Joan March Hospital. Palma de Mallorca. Baleares. Spain

[P191]

Cognitive Processing during Sleep Onset

*F. Casini, *M.J. Esposito, M. Occhionero, V. Natale, P.C. Cicogna, M. Bosinelli

Psychology Department, University of Bologna, Italy

[P192]

Effects of Frequency and Salience of Auditory Stimuli on N300-N550 Components of the K-complex

Tadao Hori*, Ayako Matsuzaki, and Hiroshi Nittono
Faculty of Integrated Arts and Sciences, Hiroshima University
1-7-1 Kagamiyama, Higashi-Hiroshima, Japan

[P193]

Correlation of sleep parameters to immunological variables in Chronic Fatigue Syndrome

E. Van Hoof*; D. Coomans; R. Cluydts; K. De Meirleir
Department of Human Physiology, Vrije Universiteit Brussels, Belgium.

[P194]

Mismatch Negativity and Late Discriminative Negativity during Sleep in Newborns

Olga Martynova*, Jarkko Kirjavainen, Risto Erkkola, Marie Cheour
Language and the Developing Brain Laboratory, Centre for Cognitive Neuroscience, Department of Psychology, University of Turku, Finland.

[P195]

Dynamics of human brain biopotentials in postcomatous unconscious states in various cerebral nosologies

Sharova E.V., Dobronravova I.S., Sazonova O.B., Obratsova E.R., Oknina L.B., Zaitsev O.S., The Institute of Higher Nervous Activity and Neurophysiology of the RAS, The Burdenko Neurosurgical Institute of the RAMS, Russia, Moscow

[P196]

Reciprocation of EEG changes is reflection of compensatory cerebral activity

Galina Boldyreva
Institute of Higher Nervous Activity and Neurophysiology, Russian Academy of Sciences, Moscow, Russia

[P197]

EEG mapping and cognitive disorders in remote terms after radiation

L. Zhavoronkova, B. Ryzhov, A. Barmakova, N.Gogitidze, N.Kholodova
Institute of Higher Nervous Activity & Neurophysiology RAS, Moscow, Russia

[P198]

Sleep quality and psychoemotional status in cardiovascular pathology

Giedrius Varoneckas
Institute of Psychophysiology and Rehabilitation, Palanga, Lithuania

[P199]

Waking EEG lateralization in young adults: gender effects

Marie-Eve Brière & Roger Godbout*
Université de Montréal and Centre de Recherche Fernand-Seguin,
Hôpital Louis-H. Lafontaine, Montréal (Québec) Canada

[P200]

Sleep Can Be Used for On-line Training of Speech Sound Discrimination in Human Newborns

Marie Cheour, Olga Martynova*, Risto Näätänen, Risto Erkkola, Matti Sillanpää, Pentti Kero et al., Language and the Developing Brain Laboratory, Centre for Cognitive Neuroscience, Department of Psychology, University of Turku, Finland.

[P201]

Anxiolytic effect of melatonin in premenstrual dysphoric disorder

Santo JB, Lo S, L'Espérance P, Boivin DB*

Douglas Hospital Research Center, McGill University, Montreal, Quebec, Canada

[P202]

Gender differences in ERPs during visual-spatial attention

E. Vaquero, M.J. Cardoso, M. Vázquez, C.M. Gómez*

Lab. de Psicobiología. Dpto. de Psicología Experimental. Universidad de Sevilla. Spain

[P203]

Gender effect on the relationship between personality and P300 in a three stimuli paradigm

Michel Hansenne *, Michel Nopp, Department of Psychiatry, University of Liège, Belgium

[P204]

Gender differences in hemispheric interaction during divergent thinking

O.M.Razoumnikova

Institute of Physiology, Novosibirsk, Russia

[P205]

Middle-latency auditory evoked potential: variations related to sex and age

Báez-Martín M.M*, Cabrera-Abreu I.

Evoked Potentials Laboratory, International Centre for Neurological Restoration, Havana, Cuba.

[P206]

Gender differences on evoked and emitted auditory P300 during a concurrent visual task

Vilfredo De Pascalis*, Simona Di Fusco, Monica Greggio, Maria A. Nasello

Department of Psychology, University of Rome "La Sapienza", Italy

[P207]

Pain, Temperament and Individual Differences in Autonomic Activity

Vilfredo De Pascalis*, Klaudia Jeger, Carmela Chiaradia, Eleonora Carotenuto

Department of Psychology, University of Rome "La Sapienza", Italy

[P208]

Influence of family relationships on anxiety levels in women

Juana M^a Navarro-Ruiz*, María Guerrero, Juani Sánchez, Carlos Barcia, María Rufaza, M^a J. Ruiz, Josefa Jiménez, Matilde Campos, María-Trinidad Herrero
Experimental Neurology & Neurosurgery Group, School of Medicine, Univ. of Murcia, Campus Espinardo. 30071, Murcia, Spain

[P209]

Fears/anxieties in boys and girls: a south african experience

Bowa Auandes, The University, Bedworthparke, South Africa

[P210]

Psychological Time and Functional Brain Laterality

Boris M. Vladimirovski, Maksim N. Gorbachev*, Pavel N. Ermakov
Rostov State University, Russia

[P211]

Error-Related Brain Activity in Anxious College Students

*Greg Hajcak, Nicole McDonald, and Robert F. Simons
Department of Psychology, University of Delaware, Newark, Delaware, USA

[P212]

EEG in subjects with decreased and increased trait anxiety: spectral analysis and “change-point” synchrony analysis

A.N.Savostyanov*, S.L.Shishkin, D.A.Savostyanova, S.V.Borisov, E.V.Levichkina, A.Ya.Kaplan
Institute of Physiology, Russian Academy of Medical Sciences (Siberian Branch), Novosibirsk, Russia

[P213]

Enhancement of latent inhibition of a conditioned taste aversion by prenatal stress

Ingrid Bethus*, Valérie Lemaire, Bernard Claverie, Alain Rougier et Glyn Goodall
Laboratoire de Sciences Cognitives, Université Victor Ségalen Bordeaux 2, Bordeaux Cedex, France

[P214]

Evaluation of basic emotions in flamenco dance figures

Maja Vukadinovic¹, Jelena Sakotic¹, Budimir Popovic^{2*}, Danka Filipovic²
Department of Psychology, Faculty of Philosophy, University of Novi Sad¹ Yugoslavia
Department of Physiology, Faculty of Medicine, University of Novi Sad² Yugoslavia

[P215]

Understanding the impact of the environment on South African children

Bowa Auandes, The University, Bedworthparke, South Africa