47TH ANNUAL CONFERENCE
OF THE INTERNATIONAL SOCIETY OF
PSYCHONEUROENDOCRINOLOGY
ZURICH, SEPTEMBER 7–9, 2017
GENES AND HORMONES: KEY FACTORS OF
WELLBEING THROUGHOUT THE LIFESPAN
Sponsors

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Universität Zürich

Philosophische Fakultät

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ELSEVIER

Exhibitors: IBL International (part of Tecan group); Max Zeller Söhne AG
Grüezi

On behalf of the entire conference team, I welcome you to the 47th Annual conference of the International Society of Psychoneuroendocrinology. We are very happy to host the ISPNE community here in Zurich, Switzerland.

The highlights of the conference will include the welcome reception and poster session with more than 110 presentations, 7 outstanding keynote lectures, and 28 symposia addressing a diverse range of highly interesting topics in the field of Psychoneuroendocrinology. Last but not least, we are very much looking forward to the conference dinner and party, which will take place at an exquisite and unique lakeside location in Zurich.

Zurich is called the little big city. It is located at the foot of the Swiss Alps, by the shore of the beautiful lake of Zurich. Hopefully, you will also find some time to become acquainted with this charming and vibrant Swiss city. For this purpose, we have provided some information about Zurich in this brochure and on the conference website.

As the organizers of this conference, we are ready to offer you any support possible with your scientific presentations, and we sincerely hope that this conference stay will be a most pleasant and positively memorable event for all of you. We look forward to your outstanding scientific presentations, to numerous fruitful discussions, and to cherishing old and new friendships during the social events!

Ulrike Ehlert, PhD
On behalf of the Organizing Committee

Local Organizing Committee
Ulrike Ehlert, PhD, Jens Gaab, PhD, Rita Amiel Castro, PhD, Susanne Fischer, PhD, Antoinette Kuriger, Roberto La Marca, PhD, Pearl La Marca-Ghaemmaghami, PhD
The University of Zurich (UZH) was founded in 1833 and is Switzerland’s largest university with over 26'000 students. Moreover, it belongs to Europe’s most prestigious research institutions.

The ISPNE conference will take place at the UZH Central Campus, in the University’s main building. Situated at the top of Zurich’s old town and easily reached, the university’s main building was founded in 1914 and has recently celebrated its 100th anniversary.

**You can easily reach the conference venue by public transportation:**

- Take tram line 3 (direction «Klusplatz») or bus line 31 (direction «Hegibachplatz») from the tram or bus stop «Bahnhofplatz/HB» to the stop «Neumarkt».

**Other alternative connections**

- Take tram line 6 (direction «Zürich Zoo») or line 10 (direction «Zürich Flughafen») from tram stops around the main station to the tram stop »ETH/Universitätsspital«. From there, it is a 5-minute walk to the University’s main building.
- Take tram line 5 (direction «Kantonsschule») or 9 (direction «Hirzenbach») from the tram stop «Bellevue» to the tram stop «Kantonsschule». From there, it is a 5-minute walk to the University’s main building.
**Registration**

**Desk location:** Main building of the University of Zurich, entrance from the street «Künstlergasse»

**Thursday, September 7:** 12:00 pm – 7:00 pm  
**Friday, September 8:** 8:00 am – 6:30 pm  
**Saturday, September 9:** 8:00 am – 6:00 pm

If you have any urgent questions please do not hesitate to contact us: +41 / 44 / 635'73'52

**Conference Homepage and Online Program**

All information provided in this booklet as well as a PDF-version of this booklet can be retrieved from our conference website:

www.ispne2017.ch

**Wireless Access**

WIFI is available all around the conference venue. For WIFI-access please see the information included in your conference briefcase.

**Opening Ceremony & Welcome Reception**

The ISPNE 2017 conference will be officially opened with a welcoming address on September 7, 2017 in the Aula of the University of Zurich. Following the ceremony, a reception with drinks, an Alphorn concert – a traditional Alpine wind instrument made of wood –, and Swiss typical food will take place allowing all delegates to relax and get to know one another.
Conference Dinner and Party
The Conference Dinner and Party will take place on September 8, 2017 in the beautiful surrounds of Lake Zurich at the restaurant Quai 61. The dinner restaurant is located right on the lake with a nice maritime flair and an atmosphere of lively good fun.

The delegates will be able to enjoy freshly prepared, cosmopolitan dishes and drinks while admiring the stunning view of the lakeside and the Swiss Alps. Vegan and Vegetarian options will be provided. The conference party will be held on the restaurant’s terrace and will allow our delegates to enjoy the summer breeze while listening to a live band and DJ. We invite you to join us for a unique riverside evening of fun.

Address
Quai 61, Mythenquai 61, 8001 Zurich

Directions (from the University of Zurich)
The Quai 61 can be reached in approximately 15 minutes from the conference venue. Take tram line 5 (direction “Laubegg”) from the tram stop “Kantonsschule” to the tram stop „Rentenanstalt“. Then, from the tram stop “Rentenanstalt”, there are two options:
- You can walk to the Quai 61; it is a 7-minute walk to the restaurant.
- You can take a 1-minute bus ride with the bus line 161 (direction “Kilchberg ZH, Kirche“) or with the bus line 165 (direction “Rüschlikon, Park im Grüene“) to the bus stop “Schweizer Rück”, which is next to the restaurant.
PROGRAM OVERVIEW
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<th>Time</th>
<th>Topic</th>
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<tr>
<td>12:00 pm–7:00 pm</td>
<td>Registration Desk Open (Entrance Künstlergasse)</td>
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<tr>
<td>2:00 pm–3:30 pm</td>
<td><strong>Symposia</strong></td>
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<tr>
<td></td>
<td>S1: Women’s health and its association with acute and chronic stress</td>
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<tr>
<td></td>
<td>Chair: B. Ditzen</td>
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<td></td>
<td>KOL-G-221</td>
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<td>S2: Now you can look back! Ten years of PNE research using hair</td>
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<td></td>
<td>cortisol as an endocrine readout for past events and chronic stress</td>
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<td>Chair: C. Kirschbaum</td>
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<td>KO2-F-152</td>
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<td></td>
<td>S3: Epigenetic mechanisms underlying early life adversity leading</td>
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<td>to long-lasting behavioral responses</td>
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<td>Chairs: N. Meiri &amp; A. Weller</td>
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<td>KOL-E-18</td>
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<td>S4: Consequences of early life stress on the developing brain</td>
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<td>– new insights from prospective longitudinal studies of pre-</td>
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<td>and postnatal stress exposure</td>
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<td></td>
<td>Chairs: C. Buss &amp; C. Heim</td>
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<td>KOL-F-118</td>
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<td>3:30 pm–3:45 pm</td>
<td>Coffee Break</td>
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<td>Foyer West</td>
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<tr>
<td>3:45 pm–4:00 pm</td>
<td>Welcome address to the 47th ISPNE Annual Conference, Travel Awards</td>
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<td>Aula, KOL-G-201</td>
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<tr>
<td>4:00 pm–5:30 pm</td>
<td><strong>Awards Ceremony</strong></td>
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<td>Presidential Address (Prof. Clemens Kirschbaum)</td>
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<td>Curt Richter Award</td>
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<td>Aula, KOL-G-201</td>
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<tr>
<td>5:30 pm–7:00 pm</td>
<td>Poster Session accompanied with Swiss music, wine and Apéro riche</td>
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<td>Foyer West</td>
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<td>8:00 am – 6:30 pm</td>
<td>Registration Desk Open (Entrance Künstlergasse)</td>
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<td>8:30 am – 10:00 am</td>
<td><strong>Key Notes</strong></td>
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<td>Genome guided drug discovery in neuropsychiatry (Prof. Andreas Papassotiropoulos)</td>
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<td>Revisiting suicide risk: experience, development and psychopathology (Prof. Gustavo Turecki)</td>
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<td>10:00 am– 10:30 am</td>
<td>Coffee Break</td>
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<td>Lichthof, NORD</td>
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<tr>
<td>10:30 am – 12:00 pm</td>
<td><strong>Symposia</strong></td>
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<td>S5: How attachment, anxiety and context influence the effects of oxytocin on social cognition and social behavior Chair: W.-G. Lange KO2-F-174</td>
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<td>S6: Proceedings in ambulant corticosteroid assessment: relevance &amp; opportunities Chair: V. Kallen KO2-F-175</td>
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<td>S7: Stress and cellular aging Chair: S. Entringer KOL-E-18</td>
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<td>S8: Neuropeptides in the CNS: Regulation of chemosensory perception, food intake and metabolism Chair: U. Stockhorst KOL-E-21</td>
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<td>12:00 pm – 1:00 pm</td>
<td>Lunch (lunchbox offered at Lichthof, NORD)</td>
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<td>PNEC Editorial Board Meeting (on invitation only) KO2-F-156</td>
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<td>1:00 pm – 2:30 pm</td>
<td><strong>Key Notes</strong></td>
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<td></td>
<td>Brain neuropeptide (inter)actions for the sake of socio-emotional balance (Prof. Inga Neumann)</td>
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<td>Neural risk mechanisms of mental disorders (Prof. Andreas Meyer-Lindenberg) Aula, KOL-G-201</td>
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<tr>
<td>2:30 pm – 3:15 pm</td>
<td>Business Meeting (ISPNE Members)</td>
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<td>3:15 pm – 3:30 pm</td>
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<td>Lichthof, NORD</td>
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<td>3:30 pm – 5:00 pm</td>
<td><strong>Symposia</strong></td>
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<td></td>
<td>S9: Social functioning &amp; emotional wellbeing - sex hormones and neuropeptides as contributors to intra- and interindividual variation Chairs: C. Anderl &amp; F. Chen KO2-F-174</td>
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<td>S10: The Swiss Preschoolers’ Health Study (SPLASHY): A prospective multi-site cohort study assessing the impact of stress and physical activity on psychological and physical health Chair: J. Puder, S. Munsch, O. G. Jenni KO2-F-175</td>
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<td>S11: The allostatic load concept in psychiatry Chair: Z. Sarnyai KOL-E-18</td>
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<td>S12: Novel immune targets in depression Chair: A. Pillai KOL-E-21</td>
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<td>5:05 pm – 6:35 pm</td>
<td><strong>Symposia</strong></td>
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<td>S13: Interactions between sex steroids and stress across the lifespan Chair: G. N. Neigh KO2-F-174</td>
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<td>S14: Sexual behaviors and biological mechanisms Chairs: J. Jokinen &amp; R.-P. Juster KO2-F-175</td>
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<td>S15: Maternal and infant HPA axis functioning in prenatal and early life stress Chair: L. Karlsson KOL-E-18</td>
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<td>7:30 pm</td>
<td>Conference Dinner and Party at Quai 61 at the Lake Zurich</td>
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<td>Brain-gut-microbiota axis: implications for psychoneuroendocrinology (Prof. Ted Dinan)</td>
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<td>Reproductive hormone variability and stressful life events: A transdiagnostic mechanism of risk? (Prof. Susan Girdler)</td>
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<td>10:30 am – 12:00 pm</td>
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<td>S17: Organizational and activational hormone effects and the development and arousal of implicit motives throughout the life span Chair: M. G. Köllner</td>
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<td>S18: Effects of acute stress on social cognition and behavior from health to psychopathology Chair: B. von Dawans</td>
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<td>S19: The impact of prenatal and postnatal stress in childhood on hypothalamic-pituitary-adrenal function, proinflammatory markers, and mental health in adolescence and adulthood Chair: M. A. Ellenbogen KOL-E-18</td>
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<td>S20: Mechanisms of physiological stress reactivity and subsequent processes Chair: P. H. Wirtz, J. C. Pruessner</td>
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<td>12:00 pm – 1:30 pm</td>
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<td>12:00 pm - 1:00 pm: STRESS Editorial Board Meeting (on invitation only) KO2-F-156</td>
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<td><strong>Key Note</strong></td>
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<td>The resilient brain: epigenetics, stress and the lifecourse (Prof. Bruce McEwen)</td>
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<td>2:30 pm – 4:00 pm</td>
<td><strong>Symposia</strong></td>
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<td>S21: Fitness, exercise and psychobiological stress responsivity Chair: J. Strahler</td>
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<td>S22: Animal models of prenatal and adolescent stress Chair: A. Overgaard</td>
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<td>S23: Genetic approaches to psychobiological stress research in humans Chairs: S. Wüst &amp; R. Kumsta KOL-E-18</td>
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<td>S25: Singing, dancing, playing and listening for better health: Neurohumoral responses to musical activities Chair: G. Kreutz</td>
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<td>S26: Environmental and genetic factors influencing stress responses in emerging adults Chairs: S. Lupien &amp; E. K. Adam</td>
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<td>S27: How does water fuel the fire? Molecular and clinical determinants of glucocorticoid sensitivity in stress trauma and mental disorder Chairs: C. M. Pariante, N. Rohleder KOL-E-18</td>
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<td>S28: Adaptation to repeated stress: genes, plasticity and developmental influences Chair: S. Bhatnagar</td>
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<td>KOL-E-21</td>
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<td>5:45 pm – 6:00 pm</td>
<td>Closing of Conference</td>
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PLENARY SPEAKERS
FRIDAY, SEPTEMBER 8, 8:30AM – 10:00AM, AULA

Plenary Lecture 1: Genome-guided drug discovery in neuropsychiatry

Prof. Andreas Papassotiropoulos

Transfaculty Research Platform
Division of Molecular Neurosciences
University of Basel (Switzerland)

Plenary Lecture 2: Revisiting suicide risk: experience, development and psychopathology

Prof. Gustavo Turecki

Co-Director, Douglas - Bell Canada Brain Bank
Head, Depressive Disorders Program, Douglas Institute
Director, RQSHA
Director, McGill Group for Suicide Studies
Department of Psychiatry
McGill University (Canada)

FRIDAY, SEPTEMBER 8, 1:00PM – 2:30PM, AULA

Plenary Lecture 3: Brain neuropeptide (inter)actions for the sake of socio-emotional balance

Prof. Inga Neumann

Behavioural Neuroendocrinology
University of Regensburg (Germany)

Plenary Lecture 4: Neural risk mechanisms of mental disorders

Prof. Andreas Meyer-Lindenberg

Director of the Zentralinstitut für Seelische Gesundheit
Department of Psychiatry and Psychotherapy
University of Mannheim (Germany)
SATURDAY, SEPTEMBER 9, 8:30AM – 10:00AM, AULA

Plenary Lecture 5: Brain-gut-microbiota axis: implications for psychoneuroendocrinology

Prof. Ted Dinan
Professor/Head of Department Psychiatry
University College Cork (Ireland)

Plenary Lecture 6: Reproductive hormone variability and stressful life events: A transdiagnostic mechanism of risk?

Prof. Susan Girdler
Professor and Director
Menstrual Mood Disorders Research
Department of Psychiatry
University of North Carolina at Chapel Hill (USA)

SATURDAY, SEPTEMBER 9, 1:30PM – 2:30PM, AULA

Plenary Lecture 7: The resilient brain: epigenetics, stress and the lifecourse

Prof. Bruce McEwen
Alfred E. Mirsky Professor
Harold and Margaret Milliken Hatch Laboratory of Neuroendocrinology
The Rockefeller University (USA)
SYMPOSIA
Symposium 1
Women’s health and its association with acute and chronic stress
Chair: Beate Ditzen
Location: KOL-G-221

Cortisol Stress Resonance in the Laboratory is Associated with Inter-Couple
Diurnal Cortisol Covariation in Daily Life
Veronika Engert, Amy M. Ragsdale, Tania Singer
Max Planck Institute for Human Cognitive and Brain Sciences, Germany
E-mail address: veronika_engert@yahoo.de

Correlation of self-reported stress and mood disorders with hair cortisol and
cortisone in women in the first year postpartum – the Ulm SPATZ Health Study
Stefanie Braig1, Tobias Stalder2, Clemens Kirschbaum3, Dietrich Rothenbacher1, Jon Genuméit1
1Institute of Epidemiology and Medical Biometry, Ulm University, Germany; 2Department of Psychology, TU Dresden, Germany, Clinical Psychology, University of Siegen, Germany; 3Department of Psychology, TU Dresden, Germany
E-mail address: stefanie.braig@uni-ulm.de

Hormone Modulation: A Novel Approach to Managing Psychosis in Women
Jayashri Kulkarni1,2,3
1Monash Alfred Psychiatry research centre, Australia; 2Monash University, Central Clinical School; 3Alfred Hospital
E-mail address: jayashri.kulkarni@monash.edu

Hormones and cognition across the lifespan in women with chronic
schizophrenia
Caroline Gurvich, Emorfia Gavrilidis, Jasmin Grigg, Roisin Worsely, Natalie Thomas, Jayashri Kulkarni
Monash Alfred Psychiatry research centre, Central Clinical School Monash University and The Alfred Hospital, Melbourne, Australia
E-mail address: caroline.gurvich@monash.edu

Symposium 2
Now you can look back! Ten years of PNE research using hair cortisol as an endocrine
readout for past events and chronic stress
Chair: Clemens Kirschbaum
Location: KO2-F-152

Application of Hair Cortisol Methodology to Animal Models: Assessment of
Long-Term HPA Activity and Chronic Stress
Jerrold S. Meyer, Melinda A. Novak
University of Massachusetts, United States of America
E-mail address: jmeyer@psych.umass.edu

Incorporation and elimination pathways of cortisol in hair: experimental evidence
concerning the role of cortisol in sweat and light exposure
Juliane Graß1, Robert Miller1, Esther H.D. Carlitz2, Fabian Patrovsky1, Clemens Kirschbaum1,
Tobias Stalder3
1TU Dresden, Germany; 2University of Zurich, Switzerland; 3University of Siegen, Germany
E-mail address: juliane.grass@tu-dresden.de
Large-scale studies on the relationships between hair corticosteroids and depression, anxiety and cardiometabolic diseases in humans
Elisabeth F.C. van Rossum¹, Sabine M. Staufenbiel¹, Vincent L. Wester¹, Gerard Noppe¹, Jenny A. Visser¹, Brenda W.J.H. Penninx¹, Lotte Gerritsen¹, Vincent W. Jaddoe¹, Bert van Hemert³, Erica L.T. van den Akker¹, Yolanda B. de Rijjke¹
¹Erasmus University Medical Center Rotterdam, Rotterdam, the Netherlands; ²VU University Medical Center, Amsterdam, the Netherlands; ³Leiden University Medical Center, Leiden, the Netherlands
E-mail address: e.vanrossum@erasmusmc.nl

Hair cortisol in caregivers and their patients receiving allogeneic stem cell transplants – a clinical trial application
Mark L. Laudenslager
University of Colorado Denver Anschutz Medical Campus, United States of America
E-mail address: mark.laudenslager@ucdenver.edu

Hair cortisol concentration as a stress marker in internationally adopted children – preliminary results from the Finnish Adoption (FinAdo) Study
Helena Leila Lapinleimu¹, ², Krista Liskola³, ⁴, Hanna Raaska³, ⁴, Jouni Lapinleimu¹, ², Anna-Riitta Heikkilä³, ⁴, Hanni Rönnlund¹, ², Marko Elovinuo²
¹Department of Pediatrics and Adolescent Medicine, University of Turku, Turku, Finland; ²Department of Pediatrics and Adolescent Medicine, University Hospital of Turku, Turku, Finland; ³Department of Child Psychiatry, University of Helsinki, Helsinki, Finland; ⁴Department of Child Psychiatry, University Hospital of Helsinki, Helsinki, Finland; ⁵Department of Internal Medicine, University of Turku, Turku, Finland; ⁶Division of Medicine, Turku University Hospital, Salo Hospital, Finland; ⁷Department of Pediatrics and Adolescent Medicine, University of Helsinki, Helsinki, Finland; ⁸Department of Pediatrics and Adolescent Medicine, University Hospital of Helsinki, Helsinki, Finland; ⁹Health Care Center of Kaarina, Kaarina, Finland; ¹⁰Department of Psychology and Logopedics, University of Helsinki, Helsinki, Finland; ¹¹National Institute for Health and Welfare, Helsinki, Finland
E-mail address: lehela@utu.fi

Symposium 3
Epigenetic mechanisms underlying early life adversity leading to long-lasting behavioral responses
Chairs: Noam Meiri, Aron Weller
Location: KOL-E-18

Transgenerational effects of early life trauma: Epigenetic mechanisms involving the germline
Isabelle M. Mansuy
UZH/ETHZ, Switzerland
E-mail address: mansuy@hifo.uzh.ch

Epigenetic regulatory mechanisms of thermal stress response and memory
Noam Meiri, Tatiana Kisliouk, Tomer Cramer, Tali Rosenberg
ARO, The Volcani Center, Israel;
E-mail address: noam.meiri@mail.huji.ac.il

Thyroid hormone mediates epigenetic regulation of PVN melanocortin 4 receptor levels in female offspring of obese rats
Aron Weller¹, ², Tzili Tabachnik³, ², Tatiana Kisliouk¹, Asaf Marco², ³, Noam Meiri¹
¹Department of Psychology, Bar-Ilan University; ²Gonda Brain Research Center, Bar-Ilan University, Israel; ³Faculty of Life Sciences, Bar-Ilan University; ⁴Institute of Animal Science, ARO, The Volcani Center, Israel
E-mail address: aron.weller@biu.ac.il
In vitro and in vivo evidence for influences of corticotropin-releasing hormone haplotypes on stress responses
Ting Li-Tempel¹, Tobias Suer¹, Tobias Tempel¹, Mauro F. Larra³, Ulrike Winnikes¹, Hartmut Schächinger³, Jobst Meyer¹, Andrea Schote-Frese¹
¹Institute of Psychobiology, Department of Neurobehavioral Genetics, University of Trier, Trier, Germany; ²Department of Psychology, University of Trier, Trier, Germany; ³Institute of Psychobiology, Division of Clinical Psychophysiology, University of Trier, Trier, Germany
E-mail address: schotefrese@uni-trier.de

Symposium 4
Consequences of early life stress on the developing brain – new insights from prospective longitudinal studies of pre- and postnatal stress exposure
Chairs: Claudia Buss, Christine Heim
Location: KOL-F-118

Sex Specific Effects of Maternal Cortisol Concentrations During Pregnancy on the Functional Connectivity of the Newborn Limbic System
Alice Graham¹, Jerod Rasmussen², Sonja Entringer²,³, Marc Rudolph¹, Martin Styner⁴, John Gilmore⁴, Steven Potkin¹, Pathik Wadhwa², Damien Fair¹, Claudia Buss¹,²
¹Oregon Health & Science University, United States of America; ²University of California, Irvine; ³University of North Carolina; ⁴University of North Carolina at Chapel Hill, United States of America
E-mail address: grahaal@ohsu.edu

Maternal Cortisol During Gestation and Sex Specific Prenatal Programming of Stress Brain Circuitry Examined Using Diffusion Tensor Imaging
Jerod Michael Rasmussen¹, Sonja Entringer²,³, Martin Styner⁴, John H. Gilmore⁴, Damien Fair¹, Steven G. Potkin¹, Pathik Wadhwa¹, Claudia Buss¹,²
¹University of California Irvine, United States of America; ²Charité University Medicine Berlin, Germany; ³University of North Carolina at Chapel Hill, United States of America; ⁴Oregon Health and Science University, United States of America
E-mail address: rasmussj@uci.edu

Immediate Biological Embedding of Maltreatment in Children: Berlin Longitudinal Children Study (BerlinLCS)
Judith Overfeld¹, Karin de Punder¹, Gergana Karaboycheva¹, Peggy Doerr¹, Katja Dittrich¹, Elisabeth Binder³, Claudia Buss¹, Sibylle Winter¹, Christine Heim¹,²
¹Charité Universitätsmedizin Berlin, Berlin, Germany; ²Department of Biobehavioral Health, College of Health & Human Development, Pennsylvania State University, University Park, PA, USA; ³Max Planck Institute of Psychiatry, Munich, Germany
E-mail address: christine.heim@charite.de

Altered HPA axis regulation in young adults exposed to early institutional deprivation
Robert Kumsta¹, Wolff Schlotz², Dirk Moser³, Dennis Golm³, Mark Kennedy⁴, Jana Kreppner⁴, Barbara Maughan⁵, Michael Rutter⁴, Edmund Sonuga-Barke⁶
¹Ruhr-University Bochum, Germany; ²Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany; ³University of Southampton, UK; ⁴SCEP Centre, Institute of Psychiatry, King’s College London, UK; ⁵Department of Child & Adolescent Psychiatry, Institute of Psychiatry, King’s College London, UK
E-mail address: robert.kumsta@rub.de

The Origins of Cognitive Deficits in Victimized Children
Andrea Danese
King’s College London, United Kingdom
E-mail address: andrea.danese@kcl.ac.uk
Symposium 5
How attachment, anxiety and context influence the effects of oxytocin on social cognition and social behavior
Chair: Wolf-Gero Lange
Location: KO2-F-174

Mistakes that matter: Oxytocin affects social performance monitoring
Sina Radke1, Margit Ruissen2, Ellen de Bruijn2
1Uni klinik RWTH Aachen, Germany; 2Leiden University, The Netherlands
E-mail address: sradke@ukaachen.de

The role of oxytocin in human social memory formation
Ullrich Wagner, Gerald Echterhoff
University of Münster, Germany
E-mail address: ullrich.wagner@uni-muenster.de

Social emotional leaning and behavioral tendencies in high and low socially anxious men and women
Katja Bertsch1, Inge Volman2, Karen Roelofs3, Sabine C. Herpertz1, Laura E. Müller1
1Heidelberg University, Germany; 2UCL Institute of Neurology, London, United Kingdom of Great Britain and Northern Ireland; 3Donders Institute for Brain, Cognition and Behaviour, Nijmegen, the Netherlands
E-mail address: katja.bertsch@med.uni-heidelberg.de

Virtually Anxious: Oxytocin, Social Anxiety and Interpersonal Space
Wolf-Gero Lange1,2, Eni S. Becker1,2, Karin Roelofs3, Markus Heinrichs4
1Behavioural Science Institute, Radboud University Nijmegen, The Netherlands; 2Dept. Clinical Psychology, Radboud University Nijmegen, The Netherlands; 3Donders Institute for Brain Cognition and Behaviour, Nijmegen, The Netherlands; 4Dept. Biological and Differential Psychology, Albert-Ludwigs-University, Freiburg, Germany
E-mail address: g.lange@psych.ru.nl

Do depressive symptoms moderate social buffering of the HPA and oxytocin systems in children and adolescents? A comparison of parent vs. peer buffering
Jenal ee R. Doom1, Colleen M. Doyle1, Megan R. Gunnar2
1University of Michigan, United States of America; 2University of Minnesota, United States of America
E-mail address: jrdoom@umich.edu

Symposium 6
Proceedings in ambulant corticosteroid assessment: relevance & opportunities
Chair: Victor Kallen
Location: KO2-F-175

Salivary cortisol, Alzheimer’s disease biomarkers and cognition among memory clinic patients
Shireen Sindi1, Jasper Holleman1, Sofia Enstedt1, Ingemar Kåreholt1,2, Miia Kivipelto3,4, Alina Solomon3,4
1Karolinska Institutet, Department of Neurobiology, Care Sciences and Society, Stockholm, Sweden; 2Institute of Gerontology, School of Health and Welfare, Aging Research Network – Jönköping (ARN-J), Jönköping University, Jönköping, Sweden; 3Institute of Clinical Medicine, Neurology, University of Eastern Finland, Kuopio, Finland; 4Department of Geriatrics, Karolinska University Hospital, Huddinge, Sweden
E-mail address: shireen.sindi@ki.se
Developmental aspects of HPA-axis activity and Autonomic Nervous System activity in relation to juvenile antisocial behaviour

Arne Popma, Lucreas Nauta-Jansen, Helena Oldenhof
VUmc/De Bascule, The Netherlands
E-mail address: a.popma@vumc.nl

Ambulatory measurement of endocrine parameters: where do we stand, and which way to follow?

Koen Hogenelst, Marieke Soeter, Victor Kallen
TNO, Dutch Applied Research Organisation, The Netherlands
E-mail address: koen.hogenelst@tno.nl

Applying corticosteroid assessments to screen for adverse neuropsychological development

Victor Kallen, Koen Hogenelst, Marieke Soeter, Marjan van Erk
TNO The Netherlands Organization for Applied Sciences, The Netherlands
E-mail address: victor.kallen@tno.nl

Symposium 7
Stress and cellular aging
Chair: Sonja Entringer
Location: KOL-E-18

Characterization of in vitro leukocyte maximal telomerase activity capacity (mTAC) as a stress-related measure for human studies

Karin de Punder¹, Christine Heim¹²⁴, Ingo Przesdzing³, Pathik D. Wadhwa⁴, Sonja Entringer³⁴
¹Charité – Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BiH), Institute of Medical Psychology, Berlin, Germany; ²Department of Biobehavioral Health, College of Health and Human Development, Pennslyvania State University, Pennsylvania, USA; ³Charité – Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BiH), Department of Experimental Neurology and Center for Stroke Research Berlin (CSB), Berlin, Germany; ⁴Development, Health and Disease Research Program, University of California, Irvine, School of Medicine, Irvine, CA, USA
E-mail address: karin.de-punder@charite.de

Life stress and epigenetic aging

Anthony Zannas
Max Planck Institute of Psychiatry, Germany
E-mail address: aszannas@gmail.com

Aerobic training increases telomere length in family caregivers: A randomized trial

Eli Puterman
University of British Columbia, Canada
E-mail address: eli.puterman@ubc.ca

Epigenetic clock at birth and psychiatric problems during early childhood

Anna Suarez¹, Jari Lahti¹, Darina Czamara², Marius Lahti¹, Anna K. Knight³, Polina Girchenko¹, Esa Hämäläinen⁴⁵, Eero Kajantie⁵⁶⁷, Hannele Laivuori⁵⁷⁸, Pia M. Villa⁵⁷, Rebecca M. Reynolds⁹, Alicia K. Smith¹⁰, Elisabeth B. Binder¹¹⁰, Katri Räikkönen¹
¹University of Helsinki, Finland; ²Max-Planck Institute of Psychiatry, Germany; ³Genetics and Molecular Biology Program, Emory University, USA; ⁴HUSLAB, Finland; ⁵Helsinki University Central Hospital, Finland; ⁶Oulu University Hospital and University of Oulu, Finland; ⁷National Institute for Health and Welfare, Finland; ⁸Institute for Molecular Medicine, Finland; ⁹British Heart Foundation Centre for Cardiovascular Science, Queen’s Medical Research Institute, University of Edinburgh, UK; ¹⁰Emory University School of Medicine, USA
E-mail address: anna.suarez@helsinki.fi
Epigenetic age acceleration in outpatients with common mental disorders and its relation to stress

Gunther Meinlschmidt1,2, Eva Unternaehrer3, Kieran O’Donnell4,5, Dominic Vogt6, Michael S. Kobor7,8, Julia L. MacIsaac7, Lisa M. McEwen7, Michael J. Meaney3,9, Dirk H. Hellhammer6,10
1Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; 2Faculty of Medicine, Ruhr-University Bochum, Germany; 3Ludmer Centre for Neuroinformatics and Mental Health, Department of Psychiatry, McGill University, Montreal, Canada; 4Douglas Hospital Research Centre, McGill University, Montreal, Canada; 5Canadian Institute For Advanced Research, Child and Brain Development Program, Ontario, Canada; 6Department of Clinical and Physiological Psychology, University of Trier, Trier, Germany; 7Department of Medical Genetics, Centre for Molecular Medicine & Therapeutics, British Columbia Children’s Hospital Research Institute, University of British Columbia, Vancouver, British Columbia, Canada; 8Human Early Learning Partnership, University of British Columbia, Vancouver, British Columbia, Canada; 9Sackler Program for Epigenetics and Psychobiology, McGill University, Montreal, Canada; 10Institute for Stress-Medicine, Trier, Germany
E-mail address: gunther.meinlschmidt@unibas.ch

Symposium 8
Neuropeptides in the CNS: Regulation of chemosensory perception, food intake and metabolism
Chair: Ursula Stockhorst
Location: KOL-E-21

Targeting the brain through the nose: effects of an intranasal insulin application on human chemosensory perception and memory processes

Jessica Freiherr
RWTH Aachen University, Germany
E-mail address: jfreiherr@ukaachen.de

Effects of nutrient-specific food intake on olfactory and gustatory perception and of intranasal insulin on nutrient intake

Ursula Stockhorst
Institute of Psychology, University of Osnabrück, Germany
E-mail address: ursula.stockhorst@uni-osnabrueck.de

Oxytocin and insulin in the regulation of eating behavior and metabolism

Manfred Hallschmid1,2,3
1University of Tuebingen, Germany; 2German Center for Diabetes Research (DZD), Tuebingen, Germany; 3Institute for Diabetes Research and Metabolic Diseases of the Helmholtz Center Munich at the Eberhard Karls University Tuebingen, Germany
E-mail address: manfred.hallschmid@uni-tuebingen.de

Eating behavior and associated brain networks: Role of glucagon-like peptide 1 (GLP-1) and leptin in healthy individuals and patients

Annette Horstmann1,2, Haiko Schlögl1,3, Konstanze Miehle1, Karsten Müller1, Arno Villringer1,2, Michael Stumvoll1,2, Mathias Faßhauer1,3
1Max Planck Institute for Human Cognitive and Brain Sciences, Germany; 2FB AdiposityDiseases, University of Leipzig, Germany; 3Department of Medicine, University Hospital Leipzig, Leipzig, Germany
E-mail address: horstmann@cbs.mpg.de
**Symposium 9**

Social Functioning & emotional wellbeing – sex hormones and neuropeptides as contributors to intra- and interindividual variation  
Chairs: Christine Anderl, Frances Chen  
Location: KO2-F-174

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**The effects of social exclusion on wellbeing, hormone levels and brain activation**  
Sina Radke¹, Eva-Maria Seidel², Roland Boubela³, Hanna Thaler³, Hannah Metzler², Ilse Kryspin-Exner², Ewald Moser³, Ute Habel¹, Birgit Derntl⁴  
¹Uniklinik RWTH Aachen, Germany; ²University of Vienna, Austria; ³Medical University of Vienna, Austria; ⁴University of Tübingen, Germany  
E-mail address: sradke@ukaachen.de

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**Effects of intranasal oxytocin and early life stress on neural correlates of caregiving and social sensitivity**  
Estrella Montoya, Hannah Spencer, Peter Bos  
Utrecht University, The Netherlands  
E-mail address: e.r.montoya@uu.nl

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**Testosterone and androgen receptor gene polymorphism are associated with competitiveness in men**  
Robert Kumsta¹, Christoph Eisenegger², Michael Naef³, Markus Heinrichs⁴  
¹Ruhr-University Bochum, Germany; ²University of Vienna, Austria; ³Department of Economics, Royal Holloway, University of London; ⁴University of Freiburg, Germany  
E-mail address: robert.kumsta@rub.de

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**Hormonal contraceptive use and risk for mood and anxiety disorders – evidence from two large epidemiological datasets**  
Christine Anderl, Frances S. Chen  
University of British Columbia, Canada  
E-mail address: anderl@psych.ubc.ca

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**Reactive aggression tracks within-participant changes in women’s salivary testosterone**  
Fabian Probst¹, Jessika Golle¹, Vanda Lory¹, Janek S. Lobmaier¹  
¹Institute of Psychology, University of Bern, Switzerland; ²Kinder- und Jugendpsychiatrie Graubünden, Switzerland; ³Hector Research Institute of Education Sciences and Psychology, University of Tübingen, Germany  
E-mail address: fabianprobst@bluewin.ch
Symposium 10
The Swiss Preschoolers’ Health Study (SPLASHY): A prospective multi-site cohort study assessing the impact of stress and physical activity on psychological and physical health
Chairs: Jardena Puder, Simone Munsch, Oskar G. Jenni
Location: KO2-F-175

The relationship of physiological stress measures, behavioral problems and body composition in preschool children
Nadine Messerli-Bürgy1, Amar Arhab2, Kerstin Stülb3, Tanja H. Kakebeeke1, Annina E. Zysset4, Claudia S. Leeger-Aschmann5, Einat A. Schmutz6, Andrea H. Meyer3, Ulrike Ehler7, Susi Kriemler4, Oskar G. Jenni8, Simone Munsch1, Jardena J. Puder2
1University of Fribourg, Switzerland; 2Centre Hospitalier Universitaire Vaudois (CHUV), Switzerland; 3University Children’s Hospital Zurich, Switzerland; 4University of Zurich, Switzerland; 5University of Basel, Switzerland
E-mail address: nadine.messerli@unifr.ch

Associations between Physical Activity and Psychological Health in Swiss Preschool Children
Einat A. Schmutz1, L. Sägesser1, Claudia Leeger-Aschmann1, Tanja Heleen Kakebeeke2, Annina E. Zysset3, Nadine Messerli-Bürgi2, Andrea H. Meyer3, Kerstin Stülb1, Amar Arhab5, Jardena J. Puder5,6, Simone Munsch1, Oskar G. Jenni2,7, Susi Kriemler1
1Epidemiology, Biostatistics and Prevention Institute, University of Zurich, Zurich, Switzerland; 2Child Development Centre, University Children’s Hospital Zurich, Switzerland; 3Department of Clinical Psychology and Psychotherapy, University of Fribourg, Switzerland; 4Department of Psychology, University of Basel, Switzerland; 5Endocrinology, Diabetes and Metabolism Service, Centre Hospitalier Universitaire Vaudois, Switzerland; 6Division of Pediatric Endocrinology, Diabetology and Obesity, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne, Switzerland; 7Children’s Research Center, University Children’s Hospital Zurich, Switzerland
E-mail address: susi.kriemlerwiget@uzh.ch

Physiological stress response to an age-adapted stress task in preschoolers and its potential determinants
Kerstin Stülb1, Nadine Messerli-Bürgi2,3, Tanja H. Kakebeeke4, Amar Arhab5, Annina E. Zysset4, Claudia S. Leeger-Aschmann4, Einat A. Schmutz4, Andrea H. Meyer3, David Garcia-Burgos1, Susi Kriemler4, Oskar G. Jenni4,5, Jardena J. Puder5,6
1Department of Clinical Psychology and Psychotherapy, University of Fribourg, Rue P.A. de Faucigny 2, 1700 Fribourg, Switzerland; 2Institute for Family Research and Counseling, University of Fribourg, Rue P.A. de Faucigny 2, 1700 Fribourg, Switzerland; 3Endocrinology, Diabetes & Metabolism Service, Centre Hospitalier Universitaire Vaudois (CHUV), Avenue Pierre Decker 2, 1011 Lausanne, Switzerland; 4Child Development Center, University Children’s Hospital Zurich, Steinwiesstrasse 75, 8032 Zurich, Switzerland; 5Children’s Research Center, University Children’s Hospital Zurich, Steinwiesstrasse 75, 8032 Zurich, Switzerland; 6Epidemiology, Biostatistics and Prevention Institute, University of Zurich, Hirschengraben 84, 8001 Zurich, Switzerland; 7Department for Psychology, University of Basel, Missionsstrasse 62A, 4055 Basel, Switzerland; 8Division of Pediatric Endocrinology, Diabetology and Obesity, Centre Hospitalier Universitaire Vaudois (CHUV), Rue du Bugnon 46 , 1011 Lausanne, Switzerland
E-mail address: kerstin.stuelb@unifr.ch

Associated movements and inhibitory control in children between 2 and 6 years are related
Tanja Heleen Kakebeeke1,7, Nadine Messerli-Bürgi2,3, Andrea H. Meyer1, Annina E. Zysset1, Kerstin Stülb2, Claudia Leeger-Aschmann4, Einat A. Schmutz4, Amar Arhab5, Jardena J. Puder2,6, Susi Kriemler4, Simone Munsch2, Oskar G. Jenni1,3
1Child Development Centre, University Children’s Hospital Zurich, Switzerland; 2Department of Clinical Psychology and Psychotherapy, University of Fribourg, Switzerland; 3Department of Psychology, University of Basel, Switzerland; 4Epidemiology, Biostatistics and Prevention Institute, University of Zurich, Zurich; 5Endocrinology, Diabetes and Metabolism Service, Centre Hospitalier Universitaire Vaudois, Switzerland; 6Division of Pediatric Endocrinology, Diabetology and Obesity, Centre Hospitalier Universitaire Vaudois (CHUV), Lausanne; 7Children’s Research Center, University Children’s Hospital Zurich, Switzerland
E-mail address: tanja.kakebeeke@kispi.uzh.ch
Symposium 11
The allostatic load concept in psychiatry
Chair: Zoltan Sarnyai
Location: KOL-E-18

Measuring allostatic load to monitor mental illness and multimorbidity
Robert-Paul Juster
Columbia University, United States of America
E-mail address: rpj2108@cumc.columbia.edu

Allostatic load and symptom dimensions in mood and psychotic disorders
Maximus Berger
James Cook University, Australia
E-mail address: maximus.berger@jcu.edu.au

Allostatic Load in the Dysfunctional System – Brain Relationship in Schizophrenia
Elliot Hong
University of Maryland Baltimore, Department of Psychiatry, United States of America
E-mail address: ehong@mprc.umaryland.edu

Allostatic Load: Reward Deficiency and Anti-Reward Processes in Pain and in Addictive Disorders
Igor Elman
Wright State University, United States of America
E-mail address: igor.elman@wright.edu

Symposium 12
Novel immune targets in depression
Chair: Anilkumar Pillai
Location: KOL-E-21

New Targets in Depression: A view from the Immune-to-Brain Communication Pathways
Robert Dantzer
University of Texas MD Anderson Cancer Center, United States of America
E-mail address: rdantzer@mdanderson.org

A complex epigenetic switching is critical for TNF-α upregulation in prefrontal cortex of suicide subjects
Yogesh Dwivedi
University of Alabama at Birmingham, United States of America
E-mail address: ydwivedi@uab.edu

Complement component 3 in PFC mediates depressive-like behavior
Amanda Crider1, Chirayu Pandya1, Talisha Davis1, Anthony Ahmed2, Gustavo Turecki2, Anilkumar Pillai1
1Department of Psychiatry and Health Behavior, Medical College of Georgia, Augusta University, Augusta, GA, USA; 2Department of Psychiatry, Weill Cornell Medical College, NY, USA; 3Douglas Mental Health University Institute, McGill University, Montreal, Quebec, Canada
E-mail address: apillai@augusta.edu
Epigenetic Signatures of Early Life Adversities and the risk for psychopathology
Marco Andrea Riva
University of Milan, Italy
E-mail address: m.riva@unimi.it

Childhood Victimization and Inflammation in Young Adulthood: A Genetically Sensitive Cohort Study
Jessie R. Baldwin¹, Louise Arseneault¹, Andrea Danese¹²³
¹Social, Genetic and Developmental Psychiatry Centre, King’s College London, London, UK; ²Department of Child and Adolescent Psychiatry, Institute of Psychiatry, Psychology and Neuroscience, King’s College London, London, UK; ³National and Specialist CAMHS Trauma and Anxiety Clinic, South London and Maudsley NHS Foundation Trust, London, UK
E-mail address: jessie.baldwin@kcl.ac.uk

FRIDAY, SEPTEMBER 8, 2017, 5:05PM – 6:35PM

Symposium 13
Interactions between sex steroids and stress across the lifespan
Chair: Gretchen N. Neigh
Location: KO2-F-174

Sex-specific epigenetic programming by gestational stress
Tracy L. Bale
University of Pennsylvania, United States of America
E-mail address: tbale@vet.upenn.edu

Chronic adolescent stress impairs memory and exaggerates hippocampal inflammatory gene expression in adult female rats
Gretchen N. Neigh¹², Molly H. Hyer¹, Mandakh Bekhbat²
¹Virginia Commonwealth University, United States of America; ²Emory University
E-mail address: gretchen.mccandless@vcuhealth.org

Traumatic stress and estradiol effects on fear neurobiology and psychopathology
Tanja Jovanovic
Emory University, United States of America
E-mail address: tjovano@emory.edu

How the Past Catches Up With You: Childhood Adversity and Changes in Cognition and Mood Across the Menopause Transition
C. Neill Epperson
Penn PROMOTES Research on Sex and Gender in Health, United States of America
E-mail address: cepp@mail.med.upenn.edu

Testosterone-Cortisol Dissociation in Children Exposed to Prenatal Maternal Stress, and Relationship with Aggression: Project Ice Storm
Suzanne King¹², Tuong-Vi Nguyen¹, Sherri Lee Jones¹², Guillaume Elgbeili², Patricia Monnier¹, Chunbo Yu³, David P. Laplante²
¹McGill University, Canada; ²Douglas Mental Health University Institute, Canada; ³Government of Alberta, Canada
E-mail address: suzanne.king@mcgill.ca
Symposium 14
Sexual behaviors and biological mechanisms
Chairs: Jussi Jokinen, Robert-Paul Juster
Location: KO2-F-175

Gonads and strife: Sex hormones vary according to sexual orientation for women and stress indices for both sexes
Robert-Paul Juster¹, Daniel Almeida², Christopher Cardoso³, Catherine Raymond⁴, Philip Jai Johnson¹,
James Pfaus¹, Adrianna Mendrek⁵, Annie Duchesne⁶, Jens C. Pruessner⁷²⁸, Sonia Lupien¹
¹Dept. of Psychiatry, Columbia University, United States of America; ²Dept. of Neurology and Neurosurgery, McGill University, Canada;
³Dept. of Psychology, Concordia University, Canada; ⁴Dept. of Neuroscience, Université de Montréal, Canada; ⁵Dept. of Psychiatry, Université de Montréal, Canada;
⁶Dept. of Psychology, Bishop’s University, Canada; ⁷Dept. of Psychiatry, McGill University, Canada;
⁸Dept. of Psychology, McGill University, Canada
E-mail address: rpj2108@cumc.columbia.edu

Distractibility by sexual stimuli – a biological marker of hypersexuality?
Jana Strahler¹, Onno Kruse¹, Sina Wehrum-Osinsky¹, Tim Klucken², Rudolf Stark¹
¹Justus Liebig University Giessen, Germany; ²University of Siegen, Germany
E-mail address: jana.strahler@psychol.uni-giessen.de

A methylome-wide study of hypersexual disorder: Identification of differential expression of micro RNA driven by epigenetic shifts involved in the oxytocin signaling pathway
Jussi Jokinen¹³, Adrian Boström¹, Andreas Chatzittofis¹, Katarina Öberg¹, Stefan Arver¹, Helgi Schiöth²
¹Uméå University, Sweden; ²Uppsala University; ³Karolinska Institutet
E-mail address: jussi.jokinen@ki.se

Testosterone, LH levels and methylation status in hypersexual men
Andreas Chatzittofis¹², Adrian Boström¹, Katarina Öberg¹, John Flanagan¹, Helgi Schiöth³, Stefan Arver¹,
Jussi Jokinen¹⁵
¹Department of Clinical Neuroscience/Psychiatry, Karolinska Institutet, Sweden; ²University of Cyprus, Medical School, Cyprus;
³Department of Neuroscience, Uppsala University, Uppsala, Sweden; ⁴Department of Medicine, Karolinska Institutet, Karolinska University Hospital, Sweden;
⁵Department of Clinical Sciences/Psychiatry, Uméå University, Umeå, Sweden
E-mail address: andreas.chatzittofis@ki.se

Symposium 15
Maternal and infant HPA axis functioning in prenatal and early life stress
Chair: Linnea Karlsson
Location: KOL-E-18

Stress and hair cortisol concentration in pregnant women
Paula Maarit Mustonen¹³, Linnea Karlsson¹³, Ana João Rodrigues⁴, Noora Mikaela Scheinin¹³,
Susanna Kortesluoma¹, Bábara Guimarães Salazar Coimbra⁵, Nuno Jorge Carvalho de Sousa⁴,
Hasse Karlsson¹³
¹FinnBrain Birth Cohort Study, Turku Brain and Mind Center, Institute of Clinical Medicine, University of Turku, Finland; ²Department of Child Psychiatry, University of Turku and Turku University Hospital, Turku, Finland; ³Department of Psychiatry, University of Turku and Turku University Hospital, Turku, Finland;
⁴Neurosciences Research Domain, Life and Health Sciences Research Institute (ICVS), School of Medicine, University of Minho, Portugal
E-mail address: pmmust@utu.fi
Does infant sex moderate the association between breast milk cortisol concentration and maternal psychological distress?
Saara Nolvi1, Henna-Maria Uusitupa1, Anna Aatsinki1, Noora Maria Scheinin1, Linnea Karlsson1,2,
Hasse Karlsson1,3
1University of Turku, Institute of Clinical Medicine, Turku Brain and Mind Center, the FinnBrain Birth Cohort Study, Finland; 2University of Turku and Turku University Hospital, Department of Child Psychiatry, Finland; 3University of Turku and Turku University Hospital, Department of Psychiatry, Finland
E-mail address: saara.nolvi@utu.fi

Infant temperament and gut microbiota composition
Anna-Katariina Aatsinki1, Henna-Maria Uusitupa1, Saara Nolvi1, Eveliina Munukka4, Riikka Heikkinen1,
Hasse Karlsson1,3, Linnea Karlsson1,2
1University of Turku, Institute of Clinical Medicine, Turku Brain and Mind Center, FinnBrain Birth Cohort Study; 2University of Turku and Turku University Hospital, Department of Child Psychiatry; 3University of Turku and Turku University Hospital, Department of Psychiatry; 4University of Turku, Institute of Biomedicine
E-mail address: ankaaa@utu.fi

Maternal Prenatal Stress Predicts Altered HPA Axis Reactivity in Presence of Rhinovirus among 10-Week-Old Infants
Laura Susanna Korhonen1,3, Susanna Kortesluoma1,2, Henri Pesonen1, Ville Peltola1,3, Heikki Lukkarinen1,3,
Tytti Vuorinen6, Linnea Karlsson1,4, Hasse Karlsson1,2,5
1FinnBrain Birth Cohort Study, Department of Clinical Medicine, University of Turku, Turku, Finland; 2Turku Brain and Mind Center, Department of Clinical Medicine, University of Turku; 3Department of Pediatrics and Adolescent Medicine, Turku University Hospital, University of Turku; 4Department of Psychiatry, Turku University Hospital, University of Turku; 5Department of Clinical Virology, Turku University Hospital and Department of Virology, University of Turku
E-mail address: lasula@utu.fi

Breastfeeding - some regulating factors and some consequences
Wibke Jonas1,2,6, Rossana Bisceglia2, Viara Mileva2, Aya Dundin1, James Kennedy3, Michael Meaney4,
Leslie Atkinson5, Meir Steiner6, Ashley Wazana1, Alison Fleming2
1Department of Women’s and Children’s Health, Karolinska Institutet, Sweden; 2Department of Psychology, University of Toronto, ON, Canada; 3Centre for Addiction and Mental Health (CAMH), Toronto, ON, Canada; 4Ludmer Centre for Neuroinformatics and Mental Health, Douglas Institute, McGill University, Montreal, QC, Canada; 5Department of Psychology, University of Toronto, ON, Canada; 6Departments of Psychiatry & Behavioral Neurosciences and Obstetrics & Gynecology, McMaster University, Hamilton, ON, Canada; 7Department of Psychiatry, McGill University, Montreal, QC, Canada
E-mail address: wibke.jonas@ki.se

Symposium 16
Stress and emotional memories in humans: In search for neuroendocrine mechanisms and their neural correlates
Chairs: Oliver T. Wolf, Katja Wingenfeld
Location: KOL-E-21

Association between cortisol diurnal rhythm and emotional memory in healthy young volunteers
Mitsue Nagamine1,4, Hiroko Noguchi2, Nobuaki Takahashi3, Yoshiharu Kim4, Yutaka Matsuoka5
1Tokyo Institute of Technology, Japan; 2Musashino University, Japan; 3Bukkyo University, Japan; 4National Center of Neurology and Psychiatry, Japan; 5National Cancer Center, Japan
E-mail address: nagamine.mitsue@ila.kit.ac.jp

Consolidation and alteration of memories for stressful experiences in humans
Linda de Voogd
Donders Institute, The Netherlands
E-mail address: l.devoogd@donders.ru.nl
Symposium 17
Organizational and activational hormone effects and the development and arousal of implicit motives throughout the lifespan
Chair: Martin G. Köllner
Location: KO2-F-174

Evidence for prenatal organizational effects of steroids on the motivational brain
Oliver C. Schultheiss
Friedrich-Alexander U, Germany
E-mail address: oliver.schultheiss@fau.de

The implicit power motive and the facial width-to-height ratio as possible marker of organizational hormone effects during puberty
Kevin T. Janson, Kira Bleck, Julia Fenkl, Lea T. Rieg¡, Franziska Jägel, Martin G. Köllner
Friedrich-Alexander University, Erlangen, Germany; University of Freiburg, Freiburg, Germany; University of Mannheim, Mannheim, Germany
E-mail address: kevin.janson@fau.de

Not just a game – examining the «Social Death Penalty» and its effects on affiliation motivation and hormonal parameters
Dorothea Lorenz, Helena Dlugasch, Oliver C. Schultheiss
Friedrich-Alexander-University, Erlangen, Germany
E-mail address: dorothea.lorenz@hotmail.de

The sociobiological development and arousal of implicit motives: The emergence of a growth-and-prune model of motive development and the continued linkage of hormones and motives throughout the life span
Martin G. Köllner, Kevin T. Janson
Friedrich-Alexander University, Germany
E-mail address: martin.koellner@fau.de
Symposium 18
Effects of acute stress on social cognition and behavior — from health to psychopathology
Chair: Bernadette von Dawans
Location: KO2-F-175

Effects of stress on in-group favoritism and out-group discrimination are moderated by self-control
Bastian Schiller, Bernadette von Dawans, Johanna Brustkern, Markus Heinrichs
Department of Psychology, Laboratory for Biological and Personality Psychology, University of Freiburg, Germany
E-mail address: bastian.schiller@psychologie.uni-freiburg.de

Effects of acute stress on neural indicators of empathy for pain
Livia Tomova1, Jasminka Majdandžic1, Alan Hummer1, Christian Windischberger2, Markus Heinrichs3, Claus Lamm1
1University of Vienna, Austria; 2Medical University of Vienna, Austria; 3University of Freiburg, Germany
E-mail address: livia.tomova@univie.ac.at

Effects of social and non-social stress on social behavior in health and social anxiety disorder
Bernadette von Dawans1, Amalie Trüg1, Clemens Kirschbaum2, Isabel Dziobek3, Urs Fischbacher4, Markus Heinrichs1
1Albert-Ludwigs-University of Freiburg, Germany; 2TU Dresden, Germany; 3Humboldt-Universität zu Berlin, Germany; 4University of Konstanz, Germany
E-mail address: vondawans@psychologie.uni-freiburg.de

Effects of Stress on Empathy in Borderline Personality
Katja Wingenfeld, Stefan Roepke, Moritz Duesenberg, Christian Otte
Charité University Berlin, Germany
E-mail address: katja.wingenfeld@charite.de

Acute psychosocial stress and everyday moral decision-making in young healthy men: The impact of cortisol
Nina Singer1, Monika Sommer2, Katrin Döhnel3, Sandra Zänkert1, Stefan Wüst1, Brigitte M. Kudielka3
1Department of Medical Psychology, Psychological Diagnostics and Research Methodology, University of Regensburg, Universitätsstrasse 31, 93053 Regensburg, Germany; 2Department of Psychiatry and Psychotherapy, University of Regensburg, Universitätsstrasse 84, 93053 Regensburg, Germany
E-mail address: brigitte.kudielka@ur.de

Symposium 19
The impact of prenatal and postnatal stress in childhood on hypothalamic-pituitary-adrenal function, proinflammatory markers, and mental health in adolescence and adulthood
Chair: Mark A. Ellenbogen
Location: KOL-E-18

A 10-year longitudinal study of cumulative stress in childhood, the cortisol response at awakening, and depressive symptoms in the offspring of parents with bipolar disorder
Mark A. Ellenbogen1, Claire-Dominique Walker2, Sheilagh Hodgins3
1Centre for Research in Human Development, Concordia University, Canada; 2Douglas Mental Health University Institute and McGill University, Canada; 3Department of Psychiatry, Université de Montréal, Canada
E-mail address: mark.ellenbogen@concordia.ca
Prenatal Maternal Stress Predicts Cortisol Stress Response and Child Behavior Problems at Ages 4 and 13: Project Ice Storm
Suzanne King1,2, Erin Yong Ping1, Guillaume Elgbeili3, David P. Laplante3
1McGill University, Canada; 2Douglas Mental Health University Institute, Canada; 3Concordia University, Canada
E-mail address: suzanne.king@mcgill.ca

Interaction of Childhood Maltreatment and Polymorphisms of the FKBP5 Gene on the Cortisol Response to Stress in Adolescents
Raegan Mazurka1, Katherine E. Wynne-Edwards2, Kate L. Harkness1
1Queen’s University, Canada; 2University of Calgary, Canada
E-mail address: r.mazurka@queensu.ca

Childhood Maltreatment and Markers of Neuroinflammation Predict Response to Anti-Depressant Treatment in Adults with Major Depressive Disorder
Kate Leslie Harkness1, Jane Foster1, Madeline Li3, Glenda MacQueen1, Roumen Milev1, Benicio Frey4, Sidney Kennedy2
1Queen’s University, Canada; 2University Health Network, University of Toronto, Canada; 3University of Calgary; 4McMaster University
E-mail address: harkness@queensu.ca

Associations between antenatal glucocorticoid treatment and offspring early childhood developmental milestones
Elina Wolford1, Marius Lahti1, Soile Tuovinen1, Jari Lahti1, Kati Heinonen1, Esa Hämäläinen2, Eero Kajantie3, Anu-Katriina Pesonen1, Pia M. Villa2, Hannele Laivuori2, Rebecca M. Reynolds1, Katri Räikkönen1
1University of Helsinki, Finland; 2University of Helsinki and Helsinki University Hospital, Finland; 3National Institute for Health and Welfare, Finland; 4University of Edinburgh, UK; elina.wolford@helsinki.fi

Symposium 20
Mechanisms of physiological stress reactivity and subsequent processes
Chairs: Petra H. Wirtz, Jens C. Pruessner
Location: KOL-E-21

Suppressing the endocrine and autonomic stress systems does not impact the emotional stress experience after psychosocial stress
Nida Ali1, Jonas P. Nitschke1, Cory Cooperman1, Jens C. Pruessner1,2
1McGill University, Canada; 2University of Constance, Constance, Germany
E-mail address: nida.ali@mail.mcgill.ca

Mechanisms underlying acute stress induced increases in innate immune cell numbers include norepinephrine and alpha-adrenergic receptors
Petra H. Wirtz1, Roland von Känel1, Claudia Zuccarella-Hackl2, Nadja Heimgartner3, Ulrike Ehlers4, Daniel Beis1
1University of Konstanz, Germany; 2University of Bern, Switzerland; 3University of Zurich, Switzerland
E-mail address: petra.wirtz@uni-konstanz.de

Mechanisms of habituation versus sensitization of inflammatory responses to repeated acute stress
Nicolas Rohleder, Johanna Janson, Sarah Sturmbauer
Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
E-mail address: nicolas.rohleder@fau.de

Stigma, social support, and diurnal stress biomarkers among race/ethnic diverse gay and lesbian elders
Robert-Paul Juster, Walter Bockting
Columbia University, United States of America
E-mail address: rpj2108@cumc.columbia.edu
Relation of sleep disturbances to neuroendocrine and coagulation activity in patients with acute myocardial infarction
Roland von Känel1,2, Mary Princip1,2,4, Jean-Paul Schmid1, Jürgen Barth6, Hansjörg Znoj7, Ulrich Schnyder8, Rebecca E. Meister-Langraf1,2,9
1Department of Neurology, Inselspital, Bern University Hospital, and University of Bern, Switzerland; 2Department of Clinical Research, University of Bern, Switzerland; 3Department of Psychosomatic Medicine, Clinic Barmelweid, Switzerland; 4Division of Cardiovascular Prevention, Rehabilitation and Sports Medicine, Department of Cardiology, Inselspital, Bern University Hospital, and University of Bern, Switzerland; 5Department of Cardiology, Clinic Barmelweid, Switzerland; 6Complementary and Integrative Medicine, University of Zurich, Zurich, Switzerland; 7Department of Clinical Psychology and Psychotherapy, University of Bern, Switzerland; 8Department of Psychiatry and Psychotherapy, Universiy Hospital Zurich, University of Zurich, Zurich, Switzerland; 9Clinia Schloessli AG, Oetwil am See, Zurich, Switzerland;
E-mail address: roland.vonkaenel@barmelweid.ch

SATURDAY, SEPTEMBER 9, 2017, 2:30PM – 4:00PM

Symposium 21
Fitness, exercise and psychobiological stress responsivity
Chair: Jana Strahler
Location: KO2-F-174

Do children behave the way adults do when it comes to stress?
Flora Koutsandréou1,2, Mirko Wegner1, Henning Budde1,3,4
1Medical School Hamburg, Germany; 2University of Bern, Switzerland; 3Reykjavik University, Iceland; 4Lithuanian Sport University, Lithuania
E-mail address: FloraKouts@gmail.com

Youth elite athletes’ cortisol responses to a power vs. achievement stress in a rifle shooting experiment
Mirko Wegner, Denise Hofstetter, Pia Endtner, Rebecca Suter
University of Bern, Switzerland
E-mail address: mirko.wegner@ispw.unibe.ch

The influence of habitual and acute exercise on SNS and HPA axis responses to psychosocial stress – a randomized, controlled trial
Kathrin Wunsch1, Ramona Wurst1, Nadine Kasten1, Bernadette von Dawans2, Jana Strahler3, Reinhard Fuchs1
1Department of Sport Science, Albert Ludwigs University Freiburg, Germany; 2Department of Psychology, Albert Ludwigs University Freiburg, Germany; 3Department of Psychotherapy and Systems Neuroscience, Justus Liebig University Giessen, Germany
E-mail address: kathrin.wunsch@sport.uni-freiburg.de

Active coping during competition and regular exercise: Impact on psychobiological stress responses
Jana Strahler1, Urs M. Nater1, Alexander Haussmann1
1Justus Liebig University Giessen, Germany; 2Philipps University Marburg, Germany; 3German Cancer Research Center Heidelberg, Germany
E-mail address: jana.strahler@psychol.uni-giessen.de

Fitter women do not have attenuated hemodynamic responses to psychological stress
Sisitha Jayasinghe1,3, Susan Torres1, Mais Hussain3, Steve Fraser1, Gavin Lambert1,4, Anne Turner1
1Institute for Physical Activity and Nutrition, School of Exercise and Nutrition Sciences, Deakin University, Geelong, VIC, Australia.; 2Biomedical Sciences, College of Veterinary Medicine, Cornell University, Ithaca, NY, USA.; 3Baker IDI Heart and Diabetes Institute,Melbourne, VIC, Australia.; 4Central Clinical School, Monash University, Melbourne, VIC, Australia.
E-mail address: sisitha.jay@gmail.com
Brain serotonin receptor 4 is decreased after paroxetine treatment in a rat model of perinatal depression

Agnete Overgaard¹, Beatrice L. E. Henriksen¹, Liisa A. M. Galea², Vibe G. Frokjaer¹,³
¹Copenhagen University Hospital, Rigshospitalet, Denmark; ²Deptartment of Psychology, University of British Columbia, Canada;
³Mental Health Services, Copenhagen, Denmark
E-mail address: agnete.overgaard@nru.dk

Constitutive serotonin transporter deficiency resembles maternal separation with regard to hippocampal-prefrontal gene expression

Erika Comasco¹, Dick Schijven¹, Hanne de Maeyer¹, Maria Vrettou¹, Ingrid Nylander¹,
Inger Sundström-Poromaa¹, Jocelien Olivier²
¹Uppsala University, Sweden; ²University of Groningen, The Netherlands
E-mail address: erika.comasco@neuro.uu.se

Early restoration of gut barrier function abrogates the long-term neurobehavioral effects of early-life stress in rats

Marion Rincel¹, Amandine Minni¹, Maïwenn Olier³, Camille Monchaux de Oliveira¹, Yann Matime¹,
Julie Thomas¹, Eric Gauthier¹, Isabelle Grit³, Anna-Maria Costa¹, Amandine Lépinay¹, Sophie Layé¹,
Laurent Ferrier¹, Patricia Parnet³, Vassilia Théodorou², Muriel Darnaudéry¹
¹Laboratoire NutriNeuro, Université de Bordeaux, INRA UMR 1286, Bordeaux, France; ²Laboratoire Toxalim, Université Toulouse III (UPS), INP-EMPIR-Sopha, INRA UMR 1331, Toulouse, France; ³Institut des maladies de l’appareil digestif, PhAN, INRA UMR 1280, Université de Nantes, Nantes, France
E-mail address: marion.rincel@inra.fr

Glucocorticoid Receptor Inhibition Prevents Lasting Endocrine but not Behavioral Effects of Adolescent Stress

Evelin M. Cotella, Rachel L. Morano, Aynara C. Wulsin, Susan E. Martelle, James P. Herman
Department of Psychiatry and Behavioral Neuroscience, UC Neurobiology Research Center, University of Cincinnati, OH, USA
E-mail address: cotellem@ucmail.uc.edu
Symposium 23
Genetic approaches to psychobiological stress research in humans
Chairs: Stefan Wüst, Robert Kumsta
Location: KOL-E-18

Heritability of Hair Cortisol and Genetic Overlap with Psychological Variables
Fabian Streit1, Liz Rietschel1, Gu Zhu1, Kerrie McAloney1, Josef Frank1, Baptiste Couvy-Duchesne3,4,
Stephanie H. Witt1, Tina Binz1, CORtisolNETwork (CORNET) Consortium, Major Depressive Disorder Working Group of the Psychiatric GWAS Consortium, John McGrath3,6,7, Ian B. Hickie8, Narelle K. Hansell4,
Margaret J. Wright4,9, Nathan Gillespie10,11, Andreas J. Forstner11,12,13,14, Thomas G. Schulze11,15,16,17,18,
Stefan Wüst1,19, Markus M. Nöthen1,2, Markus Baumgartner1, Brian R. Walker20, Andrew A. Crawford20,21,
Lucia Colodro Conde1, Sarah E. Medland3, Nicholas G. Martin3, Marcella Rietschel1
1Department of Genetic Epidemiology in Psychiatry, Central Institute of Mental Health, Medical Faculty Mannheim, University of Heidelberg, Mannheim, Germany; 2University Hospital of Child and Adolescent Psychiatry and Psychotherapy, Research Department, University of Bern, Bern, Switzerland; 3Genetics & Computational Biology Department, QIMR Berghofer Medical Research Institute, Brisbane, Australia; 4Queensland Brain Institute, University of Queensland, Brisbane, Australia; 5Institute of Forensic Medicine, Centre for Forensic Hair Analysis, University of Zurich, Zurich, Switzerland; 6Queensland Centre for Mental Health Research, The Park Centre for Mental Health, Wacol, Australia; 7National Centre for Register-Based Research, Aarhus University, Aarhus, Denmark; 8Brain and Mind Centre, University of Sydney, Sydney, AU; 9Centre for Advanced Imaging, University of Queensland, Brisbane, Australia; 10Virginia Institute for Psychiatric and Behavioral Genetics, Virginia Commonwealth University, Richmond, VA, USA; 11Institute of Human Genetics, University of Bonn, Bonn, Germany; 12Life&Brain Center, Department of Genomics, University of Bonn, Bonn, Germany; 13Department of Psychiatry (UPK), University of Basel, Basel, Switzerland; 14Human Genomics Research Group, Department of Biomedicine, University of Basel, Basel, Switzerland; 15Department of Psychiatry and Behavioral Sciences, Johns Hopkins University, Baltimore, US; 16Institute of Psychiatric Phenomics and Genomics (IPPG), Medical Center of the University of Munich, Campus Innenstadt, Munich, DE; 17Human Genetics Branch, NIMH Division of Intramural Research Programs, Bethesda, US; 18Department of Psychiatry and Psychotherapy, University Medical Center Göttingen, Göttingen, DE; 19Institute of Experimental Psychology, University of Regensburg, Germany; 20British Heart Foundation Centre for Cardiovascular Science, Queen's Medical Research Institute, University of Edinburgh, Edinburgh, UK; 21Medical Research Council Integrative Epidemiology Unit, School of Social and Community Medicine, University of Bristol, Bristol, United Kingdom
E-mail address: liz.rietschel@kjp.unibe.ch

Examination of immediate gene-environment interplay by means of experience sampling
Robert Kumsta1, Maurizio Sicorello1, Maike Luhmann1, Wolff Schlotz2
1Ruhr-University Bochum, Germany; 2Max Planck Institute for Empirical Aesthetics
E-mail address: robert.kumsta@rub.de

The brain neuropeptide S system as modulator of central stress regulation – insights from human genetic studies
Stefan Wüst1, Fabian Streit2
1University of Regensburg, Germany; 2Central Institute of Mental Health, Mannheim, Germany
E-mail address: stefan.wuest@ur.de

Lower glucocorticoid receptor gene expression and glucocorticoid receptor variants are associated with cocaine use and addiction
Andrea B. Schote1, Kristina Jäger1, Sara L. Kroll1, Matthias Vonmoos2, Lea M. Hulka1, Katrin H. Preller3,
Jobst Meyer1, Edna Gruenblatt1,4, Boris Quednow2,4
1Department of Neurobehavioral Genetics, Institute of Psychobiology, University of Trier, Trier, Germany; 2Experimental and Clinical Pharmacopsychology, Department of Psychiatry, Psychotherapy, and Psychosomatics, Psychiatric Hospital, University of Zurich, Zurich, Switzerland; 3University Clinic for Child and Adolescent Psychiatry, University of Zurich, Switzerland; 4Neuroscience Center Zurich, University of ETH Zurich, Switzerland
E-mail address: schotefrese@uni-trier.de
Symposium 24
Neuroendocrine, genetic and epigenetic factors of fear
Chairs: Inga D. Neumann, Carsten T. Wotjak
Location: KOL-E-21

Septal HDAC1 regulates social fear in mice
Rohit Menon, Inga Neumann
Department of Behavioral and Molecular Neurobiology, University of Regensburg, Germany
E-mail address: Rohit.Menon@ur.de

Role of (epi)genetic mechanisms in enhancing fear inhibitory function
Nicolas Singewald, V. Maurer, M. Oberhauser, A. Wille, A. Lusser, S. B. Sartori, A. Sah, R. Gstir,
A. Hütttenhofer, F. Sananbenesi, A. Fischer, T. Bredy, N. Whittle, C. Murphy
Univ Innsbruck, Austria, Department of Pharmacology and Toxicology, Institute of Pharmacy and CMBI
E-mail address: nicolas.singewald@uibk.ac.at

Role of endocannabinoids in innate fear
Carsten T. Wotjak
Max-Planck Institute for Psychiatry, Munich
E-mail address: wotjak@psych.mpg.de

Hormonal influences on memory dimensions of Post Traumatic Stress Disorder
Brian George Dias
Yerkes National Primate Research Center, Department of Psychiatry & Behavioral Sciences, Emory University School of Medicine,
United States of America
E-mail address: bdias@emory.edu

Adrenal insufficiency in rats after prolonged exposure to the predator cue: a new animal model of post-traumatic stress disorder
Olga B. Tseilikman1, Maxim S. Lapshin1, Mariya V. Komekova1,8, Marina V. Kondashevskaya2,
Eliyahu V. Dremencov5,4,6, Eugenia B. Manukhina5,6, H. Fred Downey6, Svetlana S. Lazuko7, Olga P. Kuzhel6,
Vadim E. Tseylikman1,8, Denis A. Kozochkin1
1South Ural State University Biomedical School; 2Federal State Budjetary Scientific Institution of Human Morphology, Moscow,
Russian Federation; 3Institute of Molecular Physiology and Genetics, Centre for Biosciences, Slovak Academy of Sciences, Bratislava,
Slovakia; 4Institute of Experimental Endocrinology, Biomedical Research Center, Slovak Academy of Sciences, Bratislava, Slovakia; 5Institute of General Pathology and Pathophysiology, Moscow, Russian Federation; 6Department of Physiology and Anatomy, University of North Texas Health Science Center; 7Vitebsk State Medical University, Vitebsk, Republic of Belarus; 8South Ural State Medical University, Chelyabinsk, Russian federation
E-mail address: vadimed@yandex.ru
Symposium 25
Singing, dancing, playing and listening for better health: Neurohumoral responses to musical activities
Chair: Gunter Kreutz
Location: KO2-F-174

The impact of maternal singing on glucocorticoids, cytokines, anxiety, affect and mother-infant bonding
Daisy Fancourt1,2, Rosie Perkins1
1Faculty of Medicine, Imperial College London, United Kingdom; 2Psychobiology Group, Department of Behavioural Science and Health, University College London, United Kingdom; 1Centre for Performance Science, Royal College of Music, United Kingdom
E-mail address: daisy.fancourt@rcm.ac.uk

Psychobiological Responses to Musical Activities in Children and Adolescents with Mental Disorders: Results of a Pilot Study
Katarzyna Grebosz-Haring1, Leonhard Thun-Hohenstein2
1Department of Musicology and Dance Studies, Focus Area Science and Art, Paris-Lodron-University of Salzburg, Austria; 2University Department of Child and Adolescent Psychiatry, Christian-Doppler-Klinik Salzburg, Paracelsus Medical University Salzburg, Austria
E-mail address: kgrebosz@hotmail.com

Psychobiological responses to choral singing: Influences of singing activity and time course
Gunter Kreutz, Antje Bullack, Carolin Gass
Carl von Ossietzky University Oldenburg, Germany
E-mail address: gunter.kreutz@uol.de

The effects of music listening on stress in everyday life
Alexandra Linnemann1, Jana Strahler2, Urs Nater1
1University of Marburg, Germany; 2Justus Liebig University Gießen, Germany
E-mail address: alexandra.linnemann@posteo.de

Symposium 26
Environmental and genetic factors influencing stress responses in emerging adults
Chairs: Sonia Lupien, Emma Kristine Adam
Location: KO2-F-175

Adolescent Cortisol Responses to High-Stakes Testing in School-based Settings
Emma Kristine Adam1, Jennifer A. Heissel1, Emily F. Hittner1, Jennifer L. Doleac2, Jonathan Meer3, David Figlio1
1Northwestern University, United States of America; 2University of Virginia, United States of America; 3Texas A&M University, United States of America
E-mail address: ek-adam@northwestern.edu

Genetic and environment etiology of antisocial behavior: twisting in the wind or blue skies ahead?
Isabelle Ouellet-Morin1, Stephanie Langevin1, Sara Mascheretti2
1Université de Montréal, Research Center of the Montréal Mental Health University Institute and the Research Group on Child Maladjustment, Canada; 2Child Psychopathology Unit, Scientific Institute, IRCCS Eugenio Medea, Bosisio Parini, Italy
E-mail address: isabelle.ouellet-morin@umontreal.ca
Gene-environment interactions on cortisol awakening response in emerging adults
Elif Aysimi Duman
Bogazici University, Turkey
E-mail address elif.duman@boun.edu.tr

Impact of parental depression or cancer on offspring's cortisol levels
Sonia Lupien1,2,4, Isabelle Ouellet-Morin1,3,4, Catherine Raymond1,2,4, Sarah Lecaire1,2,4, Nadia Durand1,4, Nathalie Wan1,4, Denis-Claude Roy1,4
1Centre for Studies on Human Stress, Montreal Mental Health University Institute; 2Faculty of Medicine, University of Montreal; 3Department of Criminology, University of Montreal; 4Research Centre, CIUSSS de l’Est
E-mail address: sonia.lupien@umontreal.ca

The psychoneuroendocrinological response to standardized attachment stimuli: Oxytocin, vasopressin and cortisol
Lukas Oberschneider1, Ludwig Ebeling1, Julia Quehenberger1, Swinde Landers1, Catherina Hilmer1, Karl Heinz Brisch1,2
1Medical center of the university of Munich, Dr. von Hauner Children’s Hospital, Germany; 2Paracelsus Medical University Salzburg, Research institute in Early Life Care, Austria
E-mail address: Lukas.Oberschneider@med.uni-muenchen.de

Symposium 27
How does water fuel the fire? Molecular and clinical determinants of glucocorticoid sensitivity in stress trauma and mental disorders
Chairs: Carmine M. Pariante, Nicolas Rohleder
Location: KOL-E-18

Determinants of altered intracellular endocrine-immune interplay in Bosnian war refugees suffering from PTSD
Jutta Wolf1, Ljiljana Joksimovic2, Nicolas Rohleder3
1Brandeis University, United States of America; 2LVR-Klinikum Düsseldorf, Germany; 3FAU Nürnberg-Erlangen, Erlangen, Germany
E-mail address: jmw@brandeis.edu

Sociality and neuroimmune processes: Insights from rhesus monkey models of loneliness and depressive behavior
John Philip Capitanio
University of California, Davis, United States of America
E-mail address: jpcapitanio@ucdavis.edu

A Randomized Clinical Trial of a Glucocorticoid Receptor Antagonist in PTSD
Julia A. Golier1,2, Rachel Yehuda1,2, Dewleen Baker1,3
1Department of Veterans Affairs; 2Mount Sinai School of Medicine, USA; 3University of California at San Diego
E-mail address: julia.golier@va.gov

Clinical and molecular mechanisms underlying glucocorticoid resistance in depression: the unsolved chicken-and-egg conundrum
Carmine M. Pariante
Institute of Psychiatry, Psychology and Neuroscience, King’s College London, United Kingdom
E-mail address: carmine.pariante@kcl.ac.uk

Hypocortisolism and hypercortisolism in bipolar disorder – A lifetime perspective
Martin Maripuu, Mikael Wikgren, Pontus Karling, Rolf Adolfsson, Karl-Fredrik Norrback
Umeå University, Sweden
E-mail address: martin.maripuu@umu.se
**Symposium 28**  
Adaption to repeated stress: genes, plasticity and developmental influences  
Chair: Seema Bhatnagar  
Location: KOL-E-21

**Medial prefrontal cortex involvement in adaptive and maladaptive responses to stress**  
Jason J. Radley  
University of Iowa, United States of America  
E-mail address: jason-radley@uiowa.edu

**Sex-dependent effects of adolescent social stress on depressive behavior and stress-related neurocircuitry**  
Jodi L. Lukkes, Andrei I. Molosh, Anantha Shekhar  
Department of Psychiatry, Indiana University School of Medicine, United States of America  
E-mail address: jodiburk@iu.edu

**Sex differences in the hypothalamic-pituitary adrenal (HPA) axis and stress habituation**  
Victor Viau  
University of British Columbia, Canada  
E-mail address: viau@mail.ubc.ca

**Development of paraventricular thalamic regulation of habituation to stress: adolescence to adulthood**  
Seema Bhatnagar, Laura Grafe, Brian Corbett  
University of Pennsylvania School of Medicine and Children's Hospital of Philadelphia, United States of America  
E-mail address: bhatnagars@email.chop.edu

**Chronic stress and suboptimal nutrition is associated with chromosome instability in dementia family carers**  
Caroline Bull1,2, Theodora Almond1, Helen Christensen3, Michael Fenech1  
1CSIRO Health & Biosecurity, Australia; 2Molecular & Biomedical Sciences, University of Adelaide, Australia; 3Black Dog Institute, Australia  
E-mail address: caroline.bull@csiro.au
P001: Non-obese type 2 diabetes impairs emotional behavior and leads to medial prefrontal cortex alterations
Muriel Darnaudéry¹, Marina Romani-Pérez¹, Amandine Lépinay¹, Marion Rincel¹, Danielle Bailbé¹,
Marine Rande¹, Sophie Layé¹, Lucile Capuron¹, Bernard Portha², Jamileh Movassat²
¹University Bordeaux, Lab NUTRINEURO, INRA UMR1286, France; ²University Paris-Diderot, Sorbonne Paris Cité, Unit of Functional and Adaptive Biology - CNRS UMR 8251, France
E-mail address: muriel.darnaudery@u-bordeaux.fr

P002: Behavioral activity and immune effects of the stress exposures and susceptibility to glucocorticoid drug in inherited stress-induced arterial hypertension rat strain with stress-sensitive arterial hypertension
Vadim E. Tseylikman¹,³, Arkady L. Markel², Olga B. Tseilikman¹, Denis A. Kozochkin¹
¹South Ural State University, Biomedical School, Chelyabinsk, Russian Federation; ²Institute of Cytology and Genetics, Novosibirsk, Russian Federation; ³South Ural State Medical University
E-mail address: vadimed@yandex.ru

P003: MAO activity in the brain in PTSD susceptible and resilient rats
Vadim E. Tseylikman¹,³, Olga B. Tseilikman¹, Maxim S. Lapshin¹, Mariya M. Komelkova¹,², Inna V. Feklicheva¹
¹South Ural State University, Biomedical School Russian Federation; ²South Ural State Medical University
E-mail address: vadimed@yandex.ru

P004: Estradiol Contributes to Aggressive Behaviors in a Mouse Model of Pathological Aggression
Laura Jean Mosher¹,², Sean C Godar², Marco Bortolato³
¹University of Kansas, United States of America; ²University of Utah, United States of America
E-mail address: laura.mosher@utah.edu

P005: Multiple exposures of predator stress alter neurotransmitters level in the rats’ hippocampus
Vadim E. Tseylikman¹,³, Maxim S. Lapshin¹, Mariya V. Komelkova¹,², Olga B. Tseilikman¹,
Anatoly V. Alliluev⁴, Eugenia B. Manukhina³,⁴, H. Fred Downey⁴, Marina N. Karpenko⁴, Denis A. Kozochkin¹
¹South Ural State University, Chelyabinsk, Russian Federation; ²South Ural State Medical University, Chelyabinsk, Russian Federation; ³Institute of General Pathology and Pathophisiology, Moscow, Russian Federation; ⁴Department of Physiology and Anatomy, Universi-verse of North Texas Health Science Center, Texas, USA; ⁵Institute of Experimental Medicine, Saint Petersburg, Russian Federation
E-mail address: vadimed@yandex.ru

P006: Chronic adolescent stress alters adult regulation of the glucocorticoid receptor
Sydney A. Rowson¹, Mandakh Bekhbat², Sean D. Kelly³, Gretchen N. Neigh¹,³
¹Molecular and Systems Pharmacology Graduate Program, Emory University, Atlanta, GA, United States of America; ²Neuroscience Graduate Program, Emory University, Atlanta, GA, United States of America; ³Department of Physiology, Emory University, Atlanta, GA, United States of America; ⁴Department of Anatomy and Neurobiology, Virginia Commonwealth University, Richmond, VA, United States of America
E-mail address: sydney.anne.rowson@emory.edu
P007: Mating-induced release of OT reverses social fear in mice  
Cindy Grossmann, Christopher Sommer, Rohit Menon, Inga Neumann  
University of Regensburg, Germany  
E-mail address: Cindy.Grossmann@ur.de

P008: High-fat diet enhances action of prenatal stress on mineralocorticoid receptor concentration in the hippocampus  
Anna Kurek, Jan Detka, Katarzyna Głombik, Bogusława Budziszewska  
Department of Experimental Neuroendocrinology, Institute of Pharmacology, Polish Academy of Sciences, Cracow, Poland  
E-mail address: kurek@if-pan.krakow.pl

P009: The involvement of SREBP system in the pathogenesis of depression and obesity  
Katarzyna Głombik, Anna Kurek, Jan Detka, Bogusława Budziszewska  
Department of Experimental Neuroendocrinology, Institute of Pharmacology, Polish Academy of Sciences, Cracow, Poland  
E-mail address: glombik@if-pan.krakow.pl

P010: Genetic and hormonal modulation of androstadienone-effects on emotional interference control and visuo-spatial cueing  
Jonas Hornung1, Lydia Kogler1, Stephan Wulpert1, Jessica Freiherr3, Birgit Derntl1  
1Department of Psychiatry and Psychotherapy, Medical School, University of Tübingen, Tübingen, Germany; 2Department of Otolaryngology, Head and Neck Surgery, Medical School, University of Tübingen, Tübingen, Germany; 3Diagnostic and Interventional Neuroradiology, Universitätsklinikum RWTH Aachen, Aachen, Germany  
E-mail address: jonas.hornung@med.uni-tuebingen.de

P011: Facebook Buffers the Acute Stress Response  
Jitske Tiemensma, Holly M. Rus  
University of California, Merced, United States of America  
E-mail address: jtiemensma@ucmerced.edu

P012: Stress and pain perception across modalities: Hydrocortisone has no effects on pain thresholds or ratings in healthy men  
Carsten Siebert1, Laura Ricarda Koenen1, Mara Lisa Beuster1, Sven Benson2, Harald Engler2, Ulrike Bingel2, Sigrid Elsenbruch1  
1Institute of Medical Psychology & Behavioral Immunobiology, University Hospital Essen, Germany; 2Clinic for Neurology, University Hospital Essen, Germany  
E-mail address: carsten.siebert@uk-essen.de

P013: Greater testosterone reactivity associated with lower subjective anxiety in response to social stressor  
Ellie Shuo Jin, Robert Alan Josephs  
The University of Texas at Austin, United States of America  
E-mail address: ellieshuojin@utexas.edu
P014: Effects of Acute Stress and Placebo Intervention on Subjective and Objective Nausea Measures
Carmen Jacob1, Verena Hoffmann1, Elisabeth Olliges1, Anja Haile1, Benjamin Jacob1, Leander Steinkopf1, Marina Lanz1, Matthias Tschoep3,4, Karin Meissner1,2
1Institute of Medical Psychology, LMU Munich, Germany; 2Division of Health Promotion, University of Applied Sciences Coburg, Germany; 3Institute for Diabetes and Obesity, Helmholtz Diabetes Center, Helmholtz Zentrum München, Munich, Germany; 4Division of Metabolic Diseases, Technische Universität München, Munich, Germany
E-mail address: carmenjacob@web.de

P015: Do you need a hand? The detrimental effects of rumination on helping behaviours after psychosocial stress
Jonas P. Nitschke1, Emma Galarneau1, Jens C. Pruessner2, Jennifer A. Bartz1
1McGill University, Canada; 2Universität Konstanz, Germany
E-mail address: jonas.nitschke@mail.mcgill.ca

P016: Stress Changes How We Think – Psychophysiological Evidence for the Stress-Induced Deliberation To Intuition (SIDI)-Model
Carmen Jacob1, Verena Hoffmann1, Elisabeth Olliges1, Anja Haile1, Benjamin Jacob1, Leander Steinkopf1, Marina Lanz1, Matthias Tschoep1,4, Karin Meissner1,2
1Institute of Medical Psychology, LMU Munich, Germany; 2Division of Health Promotion, University of Applied Sciences Coburg, Germany; 3Institute for Diabetes and Obesity, Helmholtz Diabetes Center, Helmholtz Zentrum München, Munich, Germany; 4Division of Metabolic Diseases, Technische Universität München, Munich, Germany
E-mail address: carmenjacob@web.de

P017: Modulation of HPA axis response to social stress in schizophrenia by childhood trauma
Claudia Lange, Christian G. Huber, Daniela Fröhlich, Stefan Borgwardt, Undine E. Lang, Marc Walter
University of Basel, Switzerland
E-mail address: claudia.lange@upkbs.ch

P018: State and Trait Coping is differentially linked to Cortisol and Alpha Amylase Recovery from acute Psychosocial Stress
Johanna Janson, Nicolas Rohleder
FAU Erlangen-Nürnberg, Germany
E-mail address: johanna.janson@fau.de

P019: Characterizing the dynamic stress response on neuroendocrine and neural network level
Magdalena Sandner, Giannis Lois, Michèle Wessa
Johannes Gutenberg University Mainz, Germany
E-mail address: m.sandner@uni-mainz.de

P020: Is perceived long term stress related to the acute stress reaction?
Elin Arvidson1,2, Anna Sjörs1, Ingibjörg H. Jonsdottir1,2
1The Institute of Stress Medicine, Gothenburg, Sweden; 2The Department of Food and Nutrition, and Sport Science, University of Gothenburg, Sweden
E-mail address: elin.arvidson@vgregion.se

P021: Perceived stress and physiological reactions to repeated TSST in healthy individuals
Elin Arvidson1,2, Anna Sjörs1, Ingibjörg H. Jonsdottir1,2
1The Institute of Stress Medicine, Gothenburg, Sweden; 2The Department of Food and Nutrition, and Sport Science, University of Gothenburg, Sweden
E-mail address: elin.arvidson@vgregion.se
P022: Decision making under risk in response to psychophysiological stress
Jan Nowacki¹, Hauke Heekeren¹, Katja Wingenfeld¹, Christian Otte¹
¹Charité Universitätsmedizin Berlin, Department of Psychiatry and Psychotherapy - Campus Benjamin Franklin, Berlin, Germany;
²Freie Universität Berlin, Department of Education and Psychology, Berlin, Germany
E-mail address: jan.nowacki@charite.de

P023: Inverse effects of optimism and resilience on the acute stress reactivity of the autonomic nervous system
Roberto La Marca¹, Maria Böschi¹, Sandra Sefidan¹², Hubert Annen², Thomas Wyss³, Ulrike Ehlert¹
¹Clinical Psychology and Psychotherapy, University of Zurich, Zurich, Switzerland; ²Military Academy, Swiss Federal Institute of Technology ETH Zurich, Zurich, Switzerland; ³Swiss Federal Institute of Sports Magglingen SFISM, Magglingen, Switzerland
E-Mail address: r.lamarca@psychologie.uzh.ch

P024: Mind over matter - The association between mindfulness, acute stress and the immune response
Serena Fiacco¹, Nicolò Lozza¹, Ulrike Kübler¹, Ulrike Ehlert¹, Monika Scheiwiller¹, Corinne Rüttimann¹,
Tim Lacker¹, Firozeh Farahmand¹, Roberto La Marca¹
¹Clinical Psychology and Psychotherapy, University of Zurich, Switzerland
E-mail address: s.fiacco@psychologie.uzh.ch

P025: How to convert cortisol concentrations into normative z-values and percentile ranks using reference data
Robert Miller¹², Clemens Kirschbaum¹
¹TU Dresden, Germany; ²Karolinska Institutet, Stockholm, Sweden
E-mail address: robert.miller@tu-dresden.de

P026: Picture yourself here: A novel method for determine sampling protocol adherence in ecological settings
Samantha Dockray¹, Nina Smyth¹, Maria Flynn¹, Ian Kearney¹, Kevin Cusack¹, AnnMichelle Mulally¹, Margaret R.M. Collins¹
¹University College Cork, Ireland; ²Westminster University, United Kingdom
E-mail address: s.dockray@ucc.ie

P027: When your daily mental content resonates in your stress-system: Evidence for the association of stress-related thought patterns and cortisol levels in an everyday experience sampling study
Roman Linz, Veronika Engert, Tania Singer
Max Planck Institute for Human Cognitive and Brain Sciences, Department of Social Neuroscience, Germany
E-mail address: linz@cbs.mpg.de

P028: Examining the “Undoing Hypothesis” in a Community Sample via Multilevel Moderation Analyses
Brandy Sky Martinez, Cindy Bergeman, Michelle Wirth
University of Notre Dame, United States of America
E-mail address: bmarti10@nd.edu
P029: Loneliness and Diurnal Salivary Cortisol in Chinese Undergraduates
Julian Chuk-ling Lai, Yun Wah Lam, Karsten Berning, Monique Leung, Yu Heng Daryl Lee
City University of Hong Kong, Hong Kong S.A.R. (China)
E-mail address: ssjulwin@cityu.edu.hk

P030: The Longitudinal Implications of Stress Dissipation on Pathophysiological Mechanisms
Marissa Catherine Koscielski, Cindy S. Bergeman, Brandy Sky Martinez, Raquael J. Joiner,
Michelle M. Wirth
1University of Notre Dame Emotion and Stress Physiology Laboratory, United States of America; 2University of Notre Dame Adult Development & Aging Laboratory
E-mail address: mkosciel@nd.edu

P031: The effect of genotype, chronotype and sleep behaviours on diurnal patterns of salivary cortisol in adolescents
Samantha Dockray, Nadine Messerli-Bürgy, Siobhan O’Neill
1University College Cork, Ireland; 2University of Fribourg, Switzerland
E-mail address: s.dockray@ucc.ie

P032: The effect of working on-call from home on salivary cortisol in fire and emergency service personnel
Sarah J. Hall, Brad Aisbett, Sam J. Robertson, Sally A. Ferguson, Anne I. Turner
1Institute for Physical Activity and Nutrition, School of Exercise and Nutrition Sciences, Deakin University, Burwood, Victoria, Australia; 2Bushfire and Natural Hazards Cooperative Research Centre, East Melbourne, Victoria, Australia; 3Institute of Sport, Exercise & Active Living (ISEAL), Victoria University, Footscray, Victoria, Australia; 4Appleton Institute, School of Health, Medical and Applied Sciences, Central Queensland University, Adelaide, South Australia, Australia.
E-mail address: sarahjah@deakin.edu.au

P033: Chronic stress load in air rescue teams: CAR and HRV at different assignments
Katja Petrowski, Christian Schöniger, Mark Frank, Jaroslaw Pyrc, Benedict Herhaus
1Department of Psychology and Psychotherapy, University Witten/Herdecke, Germany; 2Department of Psychotherapy and Psychosomatic Medicine, University Hospital Carl Gustav Carus Dresden, Germany; 3Department of Emergency Medicine, City Hospital Görlitz, Germany; 4ORF Stiftung Luftrettung gemeinnützige AG, Air Rescue Base Dresden, Germany; 5University Center for Orthopaedics and Traumatology, University Medicine Carl Gustav Carus Dresden, Germany
E-mail address: katja.petrowski@uni-wh.de

P034: Dissociation of biological and psychological stress measures in vitally exhausted men
Susanne Fischer, Emilou Noser, Jessica Ruppen, Ulrike Ehlert
1University of Zurich, Institute of Psychology, Clinical Psychology and Psychotherapy, Zurich, Switzerland; 2University of Zurich, University Research Priority Program (URPP), Dynamics of Healthy Aging
E-mail address: s.fischer@psychologie.uzh.ch

P035: The moderating effect of salivary cortisol on the link between personality and vital exhaustion in men 40+
Laura Mernone, Emilou Noser, Jessica Ruppen, Ulrike Ehlert
1University Research Priority Program Dynamics of Healthy Aging, University of Zurich, Switzerland; 2Clinical Psychology and Psychotherapy, Institute of Psychology, University of Zurich, Switzerland
E-mail address: l.mernone@psychologie.uzh.ch
P036: The results of the quality of life measurement in families with children born with the help of assisted reproductive technologies
Anna Plaxina, Helena Chernaya, Olga Luova, Sergey Kiselev
1Ural Federal University named after the First President of Russia B.N. Yeltsin, Russian Federation; 2Science-Practical Center “Bonnam”, Department of Rehabilitation, Russian Federation
E-mail address: olvova@bk.ru

P037: German Translation and Evaluation of the Stress and Adversity Inventory for Adults (Adult STRAIN)
Sarah Sturmbauer, Eva-Luca Hetzel, Grant S. Shields, George M. Slavich, Nicolas Rohleder
1FAU Erlangen, Germany; 2University of California, Los Angeles
E-mail address: sarah.sturmbauer@fau.de

P038: Social Desirability in Police’s Health Study: More Than a Bias, a Health Problem!
Stéphanie Habersaat, Sid Abdellaoui, Ashley M. Geiger, Jutta M. Wolf
1University Hospital of Lausanne (CHUV), Switzerland; 2Laboratoire INTERPSY, Université de Lorraine, France; 3Laboratory for Biological Health Psychology, Brandeis University, Waltham MA, USA
E-mail address: Stephanie.Habersaat@chuv.ch

P039: All stressed out? Introducing a German Version of the Perceived Stress Scale: Validation, Psychometric Properties and Sample Differences in Healthy and Clinical Populations
Eva Elisa Schneider, Sandra Schönfelder, Mila Wolf, Michèle Wessa
Department of Clinical Psychology and Neuropsychology, Institute for Psychology, Johannes Gutenberg-University Mainz, Germany
E-mail address: eschnei@uni-mainz.de

P040: Coping with medical procedures: Introduction of a new inventory
Sarah Christina Sturmbauer, Andreas Schwerdtfeger, Eva-Maria Rathner, Nicolas Rohleder, Michael Hock
1FAU Erlangen; 2Universität of Wuppertal; 3Ulm University; 4University of Bamberg
E-mail address: sarah.sturmbauer@fau.de

P041: Differential effects of hair cortisol and cumulative risk for chronic stress on reward anticipation-mediated memory enhancement in children
Laura Meine, Attila Keresztes, Julia Binder, Christine Heim, Yee Lee Shing
1Center for Lifespan Psychology, Max Planck Institute for Human Development, Berlin, Germany; 2Department of Clinical Psychology and Neuropsychology, Institute for Psychology, Johannes Gutenberg-University Mainz, Germany; 3Institute of Medical Psychology, Charité-University Medicine, Medical Centre, Berlin, Germany; 4Department of Biobehavioral Health, Pennsylvania State University, University Park, PA, USA; 5Division of Psychology, School of Natural Sciences, University of Stirling, UK
E-mail address: laura.meine@uni-mainz.de
P042: Phonological Loop and Central Executive in Hypothyroidism
Vatsal Priyadarshi Pandey1, Tara Singh1, S.K. Singh2
1Cognitive Science Lab, Department of Psychology, Banaras Hindu University; 2Department of Endocrinology and Metabolism, Institute of Medical Sciences, Banaras Hindu University
E-mail address: vatsal.priyadarshi1989@gmail.com

P043: Characterizing the relation between stress, cognition, and brain health on population level in the Rhineland Study
Sadia E. Oumohand, Monique M.B. Breteler
German Center for Neurodegenerative Diseases (DZNE e.V.), Bonn, Germany
E-mail address: sadia.oumohand@dzne.de

P044: The role of cortisol reactivity and gray matter structure in income disparities of children’s memory performance
Laurel Raffington1,2, Julia Binder1, Attila Keresztes1, Christine Heim1,4, Yee Lee Shing1,5
1Center for Lifespan Psychology, Max Planck Institute for Human Development, Germany; 2Berlin School of Mind and Brain, Humboldt-Universität zu Berlin, Germany; 3Institute of Medical Psychology, Charité-University Medicine, Medical Centre, Berlin, Germany; 4Department of Biobehavioral Health, Pennsylvania State University, University Park, PA, USA; 5Division of Psychology, Faculty of Natural Sciences, University of Stirling, UK
E-mail address: raffington@mpib-berlin.mpg.de

P045: Dopamine genes, sex and cognition in schizophrenia
Caroline Gurvich1, Elizabeth Thomas1, Jessica Myles1, Sean Carruthers1,2, Eric Tan1, Susan Rossell1,2
1Monash Alfred Psychiatry research centre, Central Clinical School Monash University and the Alfred Hospital, Melbourne Australia; 2Brain and Psychological Sciences Centre and Centre for Mental Health, Swinburne University, Melbourne, Australia
E-mail address: caroline.gurvich@monash.edu

P046: Does adjunctive raloxifene improve cognition in schizophrenia?
Caroline Gurvich, Emorfia Gavrilidis, Jasmin Grigg, Natalie Thomas, Roisin Worsely, Jayashri Kulkarni
Monash Alfred Psychiatry research centre, Central Clinical School, Monash University and The Alfred Hospital, Melbourne, Australia
E-mail address: caroline.gurvich@monash.edu

P047: Prenatal testosterone, oxytocin and cortisol levels in relation to prenatal and postnatal paternal involvement
Willemijn M. Meijer, Anna E. van t Veer, Marinus H. van IJzendoorn, Marian J. Bakermans-Kranenburg
Child and Family Studies, Leiden University, The Netherlands
E-mail: w.m.meijer@fsw.leidenuniv.nl

P048: Plasma c-reactive protein levels during pregnancy are associated with self-reported diagnoses of depression
Soili Marianne Lehto, Kati Heinonen, Elena Toffol, Esa Hämäläinen, Marius Lahti, Jari Lahti, Soile Tuovinen, Alfredo Ortega-Alonso, Jari Lipsanen, Eero Kajantie, Helena Laivuori, Anu-Katriina Pesonen, Pia Villa, Katri Räikkönen
University of Helsinki, Finland
E-mail address: soili.lehto@helsinki.fi
P049: Dynamic DNA methylation changes in the oxytocin locus (OXT) during pregnancy are associated with maternal parenting behavior

Philipp Toepfer1, Kieran J. O’Donnell2,3, Christine M. Heim1,4, David T. S. Lin1, Julia L. Macsac4, Michael S. Kober2, Michael J. Meaney2,3,4, Nadine Provencal2,3, Elisabeth B. Binder2,9, Sonja Entringer1,10, Pathik D. Wadhwa10, Claudia Buss5,10
1Department of Medical Psychology, Charité–Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BIH), Berlin Germany; 2Ludmer Centre for Neuroinformatics and Mental Health, Douglas Mental Health University Institute, McGill University, Montreal, QC, Canada; 3Sackler Program for Epigenetics and Psychobiology at McGill University, Montreal, QC, Canada; 4Department of Biobehavioral Health, Pennsylvania State University, University Park, PA, USA; 5Centre for Molecular Medicine and Therapeutics, Department of Medical Genetics, University of British Columbia, Vancouver, BC, Canada; 6Singapore Institute for Clinical Sciences, Singapore; 7Department of Translational Research in Psychiatry, Max-Planck Institute of Psychiatry, Munich, Germany; 8Simon Fraser University, Faculty of Health Sciences, Vancouver, BC, Canada; 9Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, CA, USA; 10University of California, Irvine, Development, Health, and Disease Research Program, Orange, CA, USA; 11Departments of Psychiatry and Human Behavior, Obstetrics and Gynecology, and Epidemiology, University of California, Irvine, School of Medicine, Irvine, CA, USA
E-mail address: philipp.toepfer@charite.de

P050: Vitamin D and depressive symptoms during pregnancy

Kati Heinonen1, Jari Lipsanen1, Marius Lahti1, Jari Lahti1, Soile Tuovinen1, Anu-Katriina Pesonen1, Soili Lehto1, Sari Linden2, Esa Hämäläinen2, Hannele Laivuori2, Pia M. Villa2, Eero Kajantie3, Sture Andersson2, Katri Räikkönen1
1University of Helsinki, Finland; 2University of Helsinki and Helsinki University Hospital, Finland; 3National Institute for Health and Welfare, Finland
E-mail address: kati.heinonen@helsinki.fi

P051: Interaction between maternal cortisol in pregnancy and infant FKBP5 genotype on newborn hippocampal volume and infant stress reactivity at 12 months

Nora K. Moog1, Sonja Entringer1,2, Martin Styner2, Kieran J. O’Donnell1, John H. Gilmore2, Michael J. Meaney3, Elisabeth B. Binder4, Christine M. Heim1, Pathik D. Wadhwa5, Claudia Buss5,15
1Charité - Universitätsmedizin Berlin, Germany; 2University of North Carolina at Chapel Hill, USA; 3McGill University, Canada; 4Max Planck Institute for Psychiatry, Germany; 5University of California Irvine, USA
E-mail address: nora.moog@charite.de

P052: Maternal fatty acids contribute to prenatal programming of temperament

Elena Toffoli1, Alfredo Ortega-Alonso1, Esa Hämäläinen1,2, Eero Kajantie1,2,3, Jari Lahti1, Marius Lahti1, Hannele Laivuori1,2,4, Anu-Katriina Pesonen1, Pia Maria Villa1,2, Soili Marianne Lehto1,5,6, Katri Räikkönen1
1University of Helsinki, Finland; 2Helsinki University Hospital; 3National Institute for Health and Welfare; 4Institute for Molecular Medicine Finland; 5University of Eastern Finland; 6Kuopio University Hospital
E-mail address: elena.toffoli@helsinki.fi

P053: Prospective association between maternal pro-inflammatory state during pregnancy and newborn telomere length

Claudia Lazarides1, Elissa S. Epel1, Jue Lin4, Elizabeth H. Blackburn4, Claudia Buss1,2, Hyagriv N. Simhan5, Pathik D. Wadhwa2, Sonja Entringer1,2
1Charité – Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BIH), Institute of Psychological Medicine, Germany; 2Development, Health and Disease Research Program, University of California, Irvine, California, USA; 3Departments of Psychiatry, University of California, San Francisco; 4Departments of Biochemistry & Biophysics, University of California, San Francisco; 5Departments of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh
E-mail address: claudia.lazarides@charite.de
P054: Acculturation is associated with interleukin-6 concentrations among Hispanic pregnant women
Laura Scholaske1, Claudia Buss1,2, Annette Brose1, Pathik Wadhwa2, Sonja Entringer1,2
1Charité – Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BIH), Germany; 2Development, Health and Disease Research Program, University of California, Irvine, California, USA; 3Institute of Psychology, Humboldt University Berlin, Germany
E-mail address: laura.scholaske@charite.de

P055: FinnBrain Birth Cohort Study: Effects of Prenatal Maternal Stress and Neonatal Intensive Care on Stress Reactivity of the 10-Week-Old Infants
Susanna Kortesluoma1, Kalle Korhonen1,2, Laura Korhonen1,2, Linnea Karlsson1,3, Hasse Karlsson1,4
1FinnBrain Birth Cohort Study, Turku Brain and Mind Center, Institute of Clinical Medicine, University of Turku, Finland; 2Department of Paediatrics and Adolescent Medicine, Turku University Hospital, Turku, Finland; 3Department of Child Psychiatry, Turku University Hospital, University of Turku, Finland; 4Department of Psychiatry, Turku University Hospital, University of Turku, Finland
E-mail address: sukort@utu.fi

P056: Associations between maternal stress during pregnancy and obstetric and neonatal outcomes
Antje Horsch1,2, Leah Gilbert1, Stefano Lanzi2,3, Ji Seon Kang4, Yvan Vial1, Jardena Puder2
1Department Woman-Mother-Child, University Hospital Lausanne, Lausanne, Switzerland; 2Department of Endocrinology, Diabetes and Metabolism, University Hospital Lausanne, Lausanne, Switzerland; 3Division of Angiology, Heart and Vessel Department, Lausanne University Hospital, Switzerland; 4Institute of Nursing Education and Research, University Hospital Lausanne, Lausanne, Switzerland
E-mail address: leah.gilbert@chuv.ch

P057: Prenatal androgen exposure associated with greater trait anxiety in men but not in women
Bridget Lee Burris, Ellie Shuo Jin
University of Texas, Austin, USA
E-mail address: bridgetburris@utexas.edu

P058: Cognitive, neural and endocrine functioning during late pregnancy: an ERP study
Sivan Raz1, Ora Fiterman2
1Yezreel Valley College, Tel-Hai College, Israel; 2Yezreel Valley College, Israel
E-mail address: sivanr@yvc.ac.il

P059: Positive effect of parent-child interaction on language development in preterm infants
Sergey Kiselev, Maria Lavrova, Ekaterina Suleymanova, Olga Lovo, Inna Tuktareva
Ural Federal University named by the First President of Russia B.N. Yelsin, Russian Federation
E-mail address: s.j.kiselev@urfu.ru

P060: Sodium intake was positively associated with cortisol excretion in a cross-sectional sample of Australian school children
Anne Isabella Turner1, Carley Grimes1, Caryl Anne Nowson1, Sisitha Udara Jayasinghe1,2, Clinton Bruce1, Shaun Mason1, Fengjun He1, Susan Jane Torres1
1Institute for Physical Activity and Nutrition, School of Exercise and Nutrition Sciences, Deakin University, Victoria, Australia; 2Biomedical Sciences, Cornell University, Ithaca, NY, USA; 3Centre for Environmental and Preventative Medicine, Wolfson Institute of Preventative Medicine, Queen Mary University of London, London EC1M 6BQ, UK
E-mail address: anne.turner@deakin.edu.au
P061: Exploring the Emotional Memory Bias in Children: The Role of Adrenergic Activation
Regula Neuenschwander¹, Clancy Blair²
¹University of British Columbia, Canada; ²New York University, USA
E-mail address: rneuenschwander@bcchr.ca

P062: Influence of body-oriented therapy on executive abilities in ADHD children
Sergey Kiselev, Aleksandra Parshakova
Ural Federal University named by the First President of Russia B.N. Yeltsin., Russian Federation
E-mail address: s.j.kiselev@urfu.ru

P063: Multi-trajectory modeling of salivary cortisol and alpha-amylase responses to psychosocial stress: Links to preadolescent behavioral functioning and coping
Jason Bendezu, Martha Wadsworth
Pennsylvania State University, United States of America
E-mail address: jjb490@psu.edu

P064: Specific diurnal cortisol profiles in early childhood
Felix Deichmann, Bernhard Piskernik, Lieselotte Ahnert
University of Vienna, Austria
E-mail address: felix.deichmann@univie.ac.at

P065: Systematic review of interventions to address biological outcomes among children exposed to adversity
Sukhdip K. Purewal, Monica Bucci, Kadiatou Koita, Debora L. Oh
Center for Youth Wellness
E-mail address: spurewal@centerforyouthwellness.org

P066: Interparental conflict and the child HPA-axis: Insight from an intensive repeated measures study
Kate Ryan Kuhlman¹, Rena L. Repetti¹, Bridget M. Reynolds², Theodore F. Robles¹
¹UCLA, United States of America; ²National Center for Health Statistics, Centers for Disease Control and Prevention, USA
E-mail address: kkuhlman@ucla.edu

P067: Assessing the infant hypothalamic-pituitary-adrenal axis in SPRING, a large community-based cluster randomised controlled trial in rural India assessing the impact of a home visits intervention on early child growth and development (The SPRING-ELS sub-study)
Sunil Bhopal¹, Deepali Verma¹, Reetabrata Roy¹, Divya Kumar², Gauri Divan², Betty Kirkwood¹
¹London School of Hygiene & Tropical Medicine, United Kingdom; ²Sangath, Goa, India
E-mail address: sunil.bhopal@lshtm.ac.uk

WOMEN’S HEALTH

P068: Associations between physical activity motivations and physical activity in middle to older aged women after a 12-week walking intervention
William K. Goodman, Ashley M. Geiger, Claire Elling, Jutta M. Wolf
Brandeis University, United States of America
E-mail address: wgoodman@brandeis.edu
P069: Cortisol reactivity correlates with subjective stress in women in their luteal phase but not in women using oral contraceptives or men
Catherine Raymond1,2, Marie-France Marin1,3, Robert-Paul Juster2,3, Sonia Lupien1,3
1Université de Montréal, Canada; 2Centre for studies on human stress; 3Columbia University, New-York
E-mail address: catherine.raymond.2@umontreal.ca

P070: Exploring the Optional Criterion of Cyclical Impairment in DSM-5 Premenstrual Dysphoric Disorder: A Marker of Symptom Severity?
Katja M. Schmalenberger1, Tory A. Eisenlohr-Moul2, Susan S. Girdler2
1Institute of Medical Psychology, Heidelberg University, Germany; 2Department of Psychiatry, University of North Carolina at Chapel Hill, USA
E-mail address: schmalenbergerkatja@gmail.com

P071: Positive opinions of one’s body functions, but not body image, are linked to physical activity in middle to older-aged women
Claire E. Elling1, William K. Goodman1, Ashley M. Geiger1, Idelle Vaynberg1, Dahiana Loaiza1, Natalie Sabik2, Jutta M. Wolf1
1Brandeis University, United States of America; 2University of Rhode Island, United States of America
E-mail address: celling@brandeis.edu

P072: Double-Blind Randomised Investigation of Tibolone Alone or in Adjunct to Standard Antidepressant Treatment for Depression in Perimenopausal Women
Jayashri Kulkarni1,2,3, Emorfia Gavrilidis1, Eldho Paul1, Stuart Lee1, Natalie Thomas1, Caroline Gurvich1, Rosie Worsley2
1Monash Alfred Psychiatry research centre, Melbourne Australia; 2Monash University, Australia; 3Alfred Hospital, Australia
E-mail address: jayashri.kulkarni@monash.edu

P073: The Role of an Endocrinologist in a Women’s Mental Health Clinic
Caroline Thew1,2,3, Cindy Yu1,2,3, Michaela Corr1,2,3, Jayashri Kulkarni1,2,3
1Monash Alfred Psychiatry research centre (MAPrc), Melbourne Australia; 2Monash University, Australia; 3Alfred Hospital, Australia
E-mail address: caroline.thew@gmail.com

P074: Effects of different doses of vitamin D3 supplementation in young premenopausal women on depression and hormonal status
Julia Fedotova1,2,3, Tatayna Dudnichenko4
1I.P. Pavlov Institute of Physiology of RASci, Russian Federation; 2I.M. sechenov Institute of Evolutionary Physiology and Biochemistry of RASci, Russian Federation; 3ITMO University, Russian Federation; 4North-Western State Medical University named after I.I. Mechnikov, Russian Federation
E-mail address: julia.fedotova@mail.ru

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Manar fayiz Atoum, Arwa Alaqueel
Hashemite university, Jordan
E-mail address: manar@hu.edu.jo
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Olga Lvova¹, Vadim Gusev¹,³, Anastasia Dron²
¹Ural Federal University named after the first President of Russia B.N. Yeltsin, Russian Federation; ²Paediatric City Clinic Hospital 9, Neurological Unit, Russian Federation; ³City Clinic Hospital 23, Stroke Unit, Russian Federation
E-mail address: olvova@bk.ru

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Ju-Wan Kim, Dong-Ho Choi, Jae-Min Kim
Chonnam National University Medical School, Gwangju, Korea, Republic of (South Korea)
E-mail address: tarot383@naver.com

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Nicole Rothe, Marlene Penz, Magdalena Kanthak, Andreas Walther, Robert Miller, Katja Beesdo-Baum, Clemens Kirschbaum
Technische Universität Dresden, Germany
E-mail address: nicole.rothe@tu-dresden.de

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Wei Gao
Technische Universität Dresden, Germany
E-mail address: gaoweicristiano@gmail.com

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Technische Universität Dresden, Germany
E-mail address: andreas.walther@tu-dresden.de

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Andreas Menke¹,³, Carolin Leistner¹, Yasmin Busch¹, Saskia Stonawski¹, Catherina Wurst¹, Amelie Sauter¹, Karin Lechner¹, Dominik Lehrieder¹, Rudolf Werner², Takahiro Higuchi¹,², Jürgen Deckert¹, Stefan Störk³
¹University Hospital Würzburg, Department of Psychiatry, Psychosomatics and Psychotherapy, Würzburg, Germany; ²University Hospital Würzburg, Department of Nuclear Medicine, Würzburg, Germany; ³University Hospital Würzburg, Comprehensive Heart Failure Center, Würzburg, Germany
E-mail address: Menke_A@ukw.de

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Marlene Penz¹, Robert Miller¹,², Andreas Walther¹, Magdalena Kanthak¹, Clemens Kirschbaum¹
¹Technische Universität Dresden, Germany; ²Karolinska Institute, Stockholm, Schweden
E-mail address: marlene.penz@tu-dresden.de

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Jae-Min Kim, Sung-Wan Kim
Chonnam National University Medical School, Gwangju, Korea, Republic of (South Korea)
E-mail address: jmkim@chonnam.ac.kr
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Tim Lacker1,2, Andreas Walther1,2, Ulrike Ehlert1,2
1University of Zurich, Clinical Psychology and Psychotherapy, 2University Research Priority Program, “Dynamics of healthy aging”, University of Zurich, Switzerland
E-mail address: t.lacker@psychologie.uzh.ch

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Sarah Schumacher1, Helen Niemeyer1, Sinha Engel1, Jan Cwik1, Christine Knaevelsrud1
1Freie Universität Berlin, Germany; 2Ruhr-Universität Bochum, Germany
E-mail address: sarah.schumacher@fu-berlin.de

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Max Planck Institute of Psychiatry, Germany
E-mail address: uschmidt@psych.mpg.de

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1South Ural State University, Biomedical School, Chelyabinsk, Russian Federation; 2Bashkirian State Medical University, Ufa, Russian Federation; 3South Ural State Medical University, Chelyabinsk, Russian Federation
E-mail address: vadimmed@yandex.ru

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Sabrina Golde1, Katja Wingenfeld1, Christian Otte1
Charité - Universitätsmedizin Berlin, Campus Benjamin Franklin, Department of Psychiatry and Psychotherapy, Germany
E-mail address: sabrina.golde@charite.de

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Aleksandra Kaurin1, Pablo Vidal-Ribas Belli1, Michèle Wessa1, Emily Simonoff2, Argyris Stringaris3
1Johannes Gutenberg University, Germany; 2King’s College London, UK; 3National Institute of Health, USA
E-mail address: alkaurin@uni-mainz.de

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Jakub Rajcani, Petra Solarikova, Igor Brezina
Faculty of Arts, Comenius University, Slovak Republic
E-mail address: rajcani.jakub@gmail.com

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Ekaterina Schneider1, Laura Elisa Müller2, Beate Ditzen1, Sabine Christiane Herpertz1, Katja Bertsch2
1University Hospital Heidelberg, Institute of Medical Psychology, Germany; 2University Hospital Heidelberg, Department of General Psychiatry, Germany
E-mail address: ekaterina.schneider@med.uni-heidelberg.de
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Sandra Foertsch, Stefan O. Reber
Laboratory for Molecular Psychosomatics, Clinic for Psychosomatic Medicine and Psychotherapy, University Clinic Ulm, Germany
E-mail address: sandra.foertsch@uni-ulm.de

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Leila Maria Soravia1, Simon Schwab1,2, Masahito Nakataki3, Roland Wiest4, Markus Heinrichs4, Dominique J.-F. de Quervain5, Andrea Federspiel1
1University Hospital of Psychiatry Bern, Switzerland; 2Institute of Digital Healthcare (IDH), University of Warwick, Coventry, CV4 7AL, United Kingdom; 3Department of Psychiatry, University of Tokushima, 3-18-15, Kuramoto-cho, Tokushima 770-8503, Japan; 4Department of Diagnostic and Interventional Neuroradiology, Inselspital, University Hospital of Bern, Freiburgstrasse 4, 3010 Bern, Switzerland; 5Department of Psychology, University of Freiburg, Freiburg, Germany; 6Division of Cognitive Neuroscience, Department of Psychology, University of Basel, Switzerland
E-mail address: soravia@puk.unibe.ch

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Michael Kaczmarczyk1, Katja Wingenfeld1, Linn Kuehl1, Christian Otte1, Kim Hinkelmann2
1Charité – Universitätsmedizin Berlin, Germany, Department of Psychiatry and Psychotherapy; 2Charité – Universitätsmedizin Berlin, Germany, Department of Psychosomatic Medicine
E-mail address: michael.kaczmarczyk@charite.de

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Fabrice Duval, Marie-Claude Mokran, Alexis Erb, Felix Gonzalez, Cécile Calleja, Chourouk Allouche
Centre Hospitalier APF2R, France
E-mail address: f.duval@ch-rouffach.fr

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Demelza Smeeth1, Alish Palmos2, Thomas Bridge1, Cathryn M Lewis2, Timothy R Powell2, Sandrine Thuret3
1Department of Basic and Clinical Neuroscience, King’s College London, United Kingdom; 2Social, Genetic and Developmental Psychiatry, King’s College London, United Kingdom
E-mail address: demelza.smeeth@kcl.ac.uk

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Silja Bellingrath1, Marijke Bisping1, Oliver Ambrée1, Volker Arolt1
1University Duisburg-Essen, Germany; 2University of Osnabrueck, Germany; 3University Hospital Muenster, Germany
E-mail address: silja.bellingrath@uni-due.de

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Natalie R. Pottscheidt, Tony J. Cunningham, Michelle M. Wirth
University of Notre Dame, United States of America
E-mail address: npottscheidt@nd.edu
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Medical University of Graz, Austria
E-mail address: tanja.macheiner@medunigraz.at

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Cornelia E. Schwarze¹, Dirk H. Hellhammer², Helge Frieling¹, Arian Mobascher³, Klaus Lieb³
¹University of Heidelberg, Germany; ²University of Trier, Germany; ³University Medical School Hannover, Germany; ⁴University Medical Center Mainz, Germany; ⁵University Medical Center Mainz, Germany
E-mail address: cornelia.schwarze@psychologie.uni-heidelberg.de

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University of Minnesota, United States of America
E-mail address: klimes@umn.edu

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Andrés Herane Vives¹,², Toby Wise¹, Valeria De Angel³, Danilo Arnone¹, Dimosthenis Tsapekos¹, Andrew Papadopoulos¹, Allan Young¹, Anthony Cleare¹
¹Centre for Affective Disorders, Department of Psychological Medicine, Institute of Psychiatry, Psychology & Neuroscience, King’s College London, London, UK; ²Departamento de Clínicas, Facultad de Medicina, Universidad Católica del Norte, Coquimbo, Chile; ³Facultad de Medicina, Universidad de Chile, Santiago, Chile
E-mail address: andres.herane@kcl.ac.uk

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Martin Stoffel¹, Elena Gardini², Ulrike Ehlert³, Beate Ditzen³
¹University Hospital Heidelberg, Germany; ²Universität Zürich, Switzerland
E-mail address: martin.stoffel@med.uni-heidelberg.de

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Sergey Kiselev, Inna Volik
Ural Federal University named by the First President of Russia B.N. Yelsin, Russian Federation
E-mail address: s.j.kiselev@urfu.ru

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Sergey Kiselev, Inna Volik
Ural Federal University named by the First President of Russia B.N. Yelsin, Russian Federation
E-mail address: s.j.kiselev@urfu.ru
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Kheng Siang (Ted) Ng1, Johnson Fam1,2, Lei Feng1, Irwin Kee-Mun Cheah1, Crystal Tze-Ying Tan4, Fadzillah Nur1, Sin Tho Wee5, Lee Gan Goh1, Wei Ling Chow7, Roger Chun-Man Ho1,2, Anis Larbi4, Ee Heok Kua1,2, Rathi Mahendran1,2

1Department of Psychological Medicine, National University of Singapore; 2Department of Psychological Medicine, National University Hospital; 3Department of Biochemistry, National University of Singapore; 4Singapore Immunology Network, Agency for Science, Technology and Research; 5Office of the President, National University of Singapore; 6Department of Family Medicine, National University of Singapore; 7Development Office, National University of Singapore

E-mail address: a0047115@u.nus.edu

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Susanne Fischer1,2, Sinéad King2, Andrew Papadopoulos3, Matthew Hotopf2, Allan H. Young2, Anthony J. Cleare1

1University of Zurich, Clinical Psychology and Psychotherapy, Switzerland; 2King’s College London, Institute of Psychiatry, Psychology & Neuroscience, United Kingdom

E-mail address: s.fischer@psychologie.uzh.ch

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Diana S. Ferreira de Sá, Tanja Michael

Division of Clinical Psychology and Psychotherapy, Department of Psychology, Saarland University, Saarbrucken, Germany

E-mail address: diana.ferreira@uni-saarland.de

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Sibylle Meier1, Manuel Haschke2, Catherine Zahner3, Esther Kruttschnitt3, Simon Nicolussi1, Jürgen Drewe1, Evangelia Liakoni2, Felix Hammann2, Jens Gaab1

1Division of Clinical Psychology and Psychotherapy, Faculty of Psychology, University of Basel, Switzerland; 2Division of Clinical Pharmacology and Toxicology, University Hospital Basel, Switzerland; 3Max Zeller Söhne AG, Romanshorn, Switzerland

E-mail address: simon.nicolussi@zellerag.ch

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Fabrice Duval, Marie-Claude Mokrani, Felix Gonzalez, Than Son Diep, Alexis Erb, Chourouk Allouche, Cécile Calleja

Centre Hospitalier APF2R, France

E-mail address: f.duval@ch-rouffach.fr

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Fabrice Duval, Marie-Sabine Guillot, Marie-Claude Mokrani, Marc-Antoine Crocq

Centre Hospitalier APF2R, France

E-mail address: f.duval@ch-rouffach.fr
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Editors
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Editorial Office
Dr. Roberto La Marca
University of Zurich
Department of Psychology
Clinical Psychology and Psychotherapy
Binzmuehlestrasse 14 / 26
CH-8050 Zurich
Switzerland
E-Mail: secretariat@ispne2017.ch
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