On behalf of the entire conference organizing committee, we want to welcome you to the 49th Annual Conference of the International Society of Psychoneuroendocrinology. We are very happy to host the ISPNE community here in Milan, Italy, on a very special and unique moment since the society was founded here in Milan exactly 50 years ago. It was on September 1st 1969 when a group of pioneer scientists decided to create ISPNE that could represent an important society in promoting and facilitating basic and clinical research in the field of Psychoneuroendocrinology. During these 50 years our society and science have undergone huge changes, although the essence of ISPNE has remained unchanged. In order to celebrate this special anniversary, we have chosen to organize the congress in the prestigious 5-star Principe di Savoia Hotel, one of the most exclusive hotels in Milano.

On the first day of the conference, we will have a welcome ceremony with two lectures for the Curt Richter Award and for the Lifetime Achievement Award, which will be followed by the first keynote lecture. Next, we will have the poster session with more than 120 presentations, a key moment for meeting people and interacting with young scientists. The poster session will be followed by an amazing opening reception with gourmet food and drinks.

In the following two days, we will have two keynote lectures and 22 symposia, including the Memorial Symposium for Dirk Hellhammer and the Presidential Symposium, with more than 80 presentations from scientists coming from all over the world. The congress will end with a gala dinner that has been organized in the historical Palazzo Bovara, where you will have the possibility to taste and enjoy freshly prepared, gourmet Italian dishes and drinks while surrounded by the stunning historical environment.

Being in Milano, you will of course also have the possibility to visit the most European city of Italy, an amazing place with history and fashion mixed together in a charming setting.

As organizers we are very excited to have you here, back Where It All Began, for a most memorable meeting and also for a remarkable experience in a great city. We are looking forward to your scientific contributions and to fruitful discussions and interactions! This will hopefully reach many younger scientists who step into Psychoneuroendocrinology and who will contribute to the growth of ISPNE for the next 50 years to come.

On behalf of the Organizing Committee,
Marco Riva & Clemens Kirschbaum
LOCAL ORGANIZING COMMITTEE

Paola Brivio, PhD
Francesca Marchisella, PhD
Veronica Begni, PhD
Francesca Calabrese, PhD

Raffaella Molteni, PhD
Giulia Sbrini, MSc
Alice Sanson MSc
CONFERENCE VENUE

The ISPNE conference will take place at “Principe di Savoia Hotel”, located right in the heart of Milan, five minutes away from the main train station and ten minutes walking distance from the city centre.

Address: Piazza della Repubblica, 17, Milano

How to reach the congress venue

You can easily reach the conference venue by public transportation:

• Take Metro line 3 (Yellow line), Stop “Repubblica”. From there it is a 2-minute walk to the Principe di Savoia Hotel

• Take Metro line 2 (Green line), Stop “Centrale”. From there it is a 10-minute walk to the Principe di Savoia Hotel

Other alternative connections

• Take tram line 1, line 9 or 33. From there, it is a 3-minute walk to the Principe di Savoia Hotel

• Take tram line 10. From there, it is a 4-minute walk to the Principe di Savoia Hotel

Disclaimer: Please note that Uber app for transportation is not legal in Italy. You can download the “Free-Now” app and get a taxi from there. Alternatively, you can book a taxi by calling +39 024040.
1  Entrance
2  Registration desk room  Marconi
3a Conference/poster room  Cristalli
3b Conference/poster room  Galilei ABC
3c Conference room  Cartesio
4  Coffee/lunch break rooms  Marco Polo and Veranda
REGISTRATION & SOCIAL PROGRAM

Registration

Desk location: Room Marconi

Thursday, August 29th  12:00 – 19:00
Friday, August 30th  8:00 – 18:00
Saturday, August 31st  8:00 – 12:30

If you have any urgent question, please do not hesitate to contact us: +39 3498328795

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:

http://www.ispne.net/annual-conference/program

Wireless Access

WIFI is available all around the conference venue.

Opening Ceremony & Welcome Reception

The ISPNE 2019 conference will be officially opened with a welcome address on August 29th 2019 in the room Galilei ABC of the Principe di Savoia Hotel. On the day of the opening of the conference, there will be a Welcome Reception Dinner, starting at 20:00 at “Marco Polo/Veranda”.
REGISTRATION & SOCIAL PROGRAM

Conference Gala Dinner

The Conference Gala Dinner will take place on **August 31st, 2019** in the historical and picturesque **Palazzo Bovara**, starting at 19:30. The welcome cocktail will be served in the lush garden walkways of Palazzo Bovara, followed by the dinner in the elegant Main Hall.

The attendees will be able to enjoy freshly prepared, gourmet Italian dishes and drinks while surrounded by the stunning historical environment. Vegan and vegetarian options will be provided.

We invite you to join us for an exclusive evening of fun.

Address: Corso Venezia, 51, 20121 Milano
HOW TO REACH PALAZZO BOVARA FOR THE GALA DINNER

Directions from the Principe di Savoia Hotel

The Palazzo Bovara can be reached in approximately 15-minute walk from the conference venue.

Other alternative connections

• Take Metro 3 (Yellow line, direction “San Donato”) from the Metro stop “Repubblica” to the Metro stop “Duomo” (3 stops). Then, change Metro 1 (Red line, direction “Sesto San Giovanni”) and arrive to “Palestro” (2 stops).

• You can take the tram line 9 (direction “Porta Genova Mm”) from “Repubblica” for two stops and arrive to “Oberdan”). Then walk for 6 min to Palazzo Bovara.

A “Principe di Savoia Hotel”
B “Palazzo Bovara”
Thursday, 29/Aug/2019

12:00
Marconi

Registration Open

14:00 - 14:45
Galilei ABC

Welcome Address: Opening & Travel Awards
CHAIR: Sonia Lupien

14:45 - 15:30
Galilei ABC

Curt Richter Award: Shannon Gourley | Atlanta, USA
A glucocorticoid-sensitive ventral hippocampus-orbitofrontal cortical projection coordinates goal-directed action
CHAIR: Sonia Lupien

15:30 - 16:15
Galilei ABC

Lifetime Achievement Award: Marian Joëls | Utrecht, The Netherlands
Stress and the brain: Found in translation
CHAIR: Sonia Lupien

16:15 - 16:45
Marco Polo and Veranda

Coffee Break

16:45 - 17:45
Galilei ABC

Keynote Lecture 1: Carmen Sandi | Lausanne, Switzerland
Brain mitochondria in anxiety and stress-coping behaviors
CHAIR: Marco A. Riva

17:45 - 20:00
Cristalli
Posters 1 - 64 and
Cartesio
Posters 65 - 128

Poster Session

20:00
Marco Polo and Veranda

Reception and Dinner
Friday, 30/Aug/2019

7:00 - 8:30
PNEC Editorial Board Meeting | participation by invitation only
Club Principe

8:00
Registration Open
Marconi

8:30 - 10:00
Symposium 1
How early adversities get under the skin:
A behavioral epigenetics perspective across human development
CHAIR: Livio Provenzi
Galilei ABC

Symposium 2
Nutrition and inflammation in psychiatry
CHAIRS: Kuan-Pin Su & Carmine M Pariante
Cristalli

Symposium 3
Cortisol measures in saliva and hair:
What is their biological meaning and scientific utility?
CHAIR: James L Abelson
Cartesio

10:00 - 10:30
Coffee Break
Marco Polo and Veranda

10:30 - 12:00
Symposium 4
Early life adversity's impact on brain and body:
understanding disrupted circuits to identify preventive strategies
CHAIR: Andreas Menke
Galilei ABC

Symposium 5
Neuroendocrine patterns in a social world:
Oxytocin and interpersonal relationships in health and disease
CHAIR: Mark A Ellenbogen
Cristalli

Symposium 6
Social support and cortisol regulation in younger populations:
Implications and potential for intervention
CHAIRS: Samantha Dockray & Julie Turner-Cobb
Cartesio

12:00 - 13:30
Lunch Break
Marco Polo and Veranda

12:45 - 13:30
ISPNE Business Meeting | all attendees encouraged to participate
Galilei ABC

13:30 - 14:30
Keynote Lecture 2: Christine Heim | Berlin, Germany
Understanding and mitigating the impact of early life stress on disease risk:
Towards developmental programing of lifelong health
CHAIR: Clemens Kirschbaum
Galilei ABC

14:30 - 16:00
Presidential Symposium
CHAIR: Sonia Lupien
Galilei ABC

16:00 - 16:30
Coffee Break
Marco Polo and Veranda
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30 - 18:00</td>
<td><strong>Symposium 7</strong>&lt;br&gt;The impact of perinatal health on hormonal, immune, metabolic and psychiatry regulation of the offspring&lt;br&gt;CHAIRS: Carmine M Pariante &amp; Katri Räikkönen</td>
</tr>
<tr>
<td>Cristalli</td>
<td></td>
</tr>
<tr>
<td>18:15-19:30</td>
<td><strong>„Young Investigator Meeting“</strong>&lt;br&gt;CHAIR: Sonia Lupien</td>
</tr>
<tr>
<td>Cristalli</td>
<td></td>
</tr>
</tbody>
</table>

**Saturday, 31/Aug/2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td><strong>Registration Open</strong></td>
</tr>
<tr>
<td>Marconi</td>
<td></td>
</tr>
<tr>
<td>8:30 - 10:00</td>
<td><strong>Memorial Symposium</strong>: Dirk Hellhammer&lt;br&gt;CHAIR: Isabella Heuser</td>
</tr>
<tr>
<td>Galilei ABC</td>
<td></td>
</tr>
<tr>
<td>Cristalli</td>
<td><strong>Symposium 10</strong>&lt;br&gt;Too stressed or not stressed enough?&lt;br&gt;Disentangling cortisol blunting from non-response&lt;br&gt;CHAIRS: Holly Pham &amp; Martha Wadsworth</td>
</tr>
<tr>
<td>Cartesio</td>
<td></td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td>Marco Polo</td>
<td></td>
</tr>
<tr>
<td>10:30 - 12:00</td>
<td><strong>Symposium 12</strong>&lt;br&gt;Stress and the cognitive regulation of emotions: Characterizing the bidirectional interaction&lt;br&gt;CHAIR: Oliver T. Wolf</td>
</tr>
<tr>
<td>Galilei ABC</td>
<td></td>
</tr>
<tr>
<td>Cristalli</td>
<td><strong>Symposium 13</strong>&lt;br&gt;Sexual steroids during the course of female life&lt;br&gt;CHAIR: Ulrike Ehlert</td>
</tr>
<tr>
<td>Cartesio</td>
<td><strong>Symposium 14</strong>&lt;br&gt;Biomarkers of stress and care in the preterm infant: Evidence from animal models and human studies&lt;br&gt;CHAIR: Livio Provenzi</td>
</tr>
<tr>
<td>12:00 - 13:30</td>
<td><strong>Lunch Break – Speed Mentoring Event</strong></td>
</tr>
<tr>
<td>Marco Polo</td>
<td></td>
</tr>
<tr>
<td>and Veranda</td>
<td></td>
</tr>
</tbody>
</table>
13:30 - 14:30
**Keynote Lecture 3:** Larry Young | Atlanta, USA
Neural mechanisms of social bonding: Implications for autism
*CHAIR: Carmine Pariante*

14:30 - 16:00
**Symposium 15**
Stress effects on cognition: New insights from basic and applied research
*CHAIRS: Christian Merz
Katja Wingenfeld*

**Symposium 16**
The role of hormone-regulated molecular modulators in traumatic responses
*CHAIRS: Hermona Soreq
Marla Sokolowski*

**Symposium 17**
Highlights from the PNEC special issue on stress and cellular aging related processes
*CHAIR: Sonja Entringer*

16:00 - 16:30
**Coffee Break**

16:30 - 18:00
**Symposium 18**
Identifying stress adaptive neural systems: Implications for understanding maladaptation and disease susceptibility
*CHAIR: Jason J Radley*

**Symposium 19**
Where it all begins: Women’s health and psychoendocrinology during pregnancy and after childbirth
*CHAIR: Pearl La Marca-Ghaemmaghami*

**Symposium 20**
Closing in on mechanisms associated with the onset of psychiatric disorders and related endophenotypes: New findings emerging from biologically and developmentally-informed approaches
*CHAIR: Isabelle Ouellet-Morin*

18:00
**Closing Ceremony**

19:30
**ISPNE Gala Dinner**
Dr. Gourley was born in Arizona, in the southwestern United States. She trained at Tufts and Yale Universities, then joined the faculty at Emory University in 2011. Her team focuses on the mechanisms by which prefrontal cortical neurons develop during adolescence, and how these processes are impacted by stress hormones, social adversities, or drugs of abuse. Relatedly, the team asks: How do experiences during adolescence impact prefrontal cortical functions later in life (such as prospectively evaluating the consequences of one’s behaviors or adapting to an ever-changing world)? New lines of research concern how social interactions influence reward-related decision-making.

**Thursday, 29/Aug/2019: 14:45 - 15:30, Room Galilei ABC**

**Curt Richter Award**

A glucocorticoid-sensitive ventral hippocampus-orbitofrontal cortical projection coordinates goal-directed action

Marian Joëls studies the effects of stress on the brain, in health and disease, both in humans and rodent models. Her work is described in more than 300 articles. She obtained her PhD degree in Utrecht with David de Wied. Between 2009 and 2016 she was scientific director of Brain Center Rudolf Magnus. Since September 2016, she is Dean of the Medical Faculty and member of the Board of Directors of the University Medical Center Groningen. Marian Joëls is member of the Royal Netherlands Academy of Arts and Sciences. She served as President of the Federation of European Neuroscience Societies (2012-2014).

**Thursday, 29/Aug/2019: 15:30 - 16:15, Room Galilei ABC**

**Lifetime Achievement Award**

Stress and the brain: Found in translation
Carmen Sandi is Full Professor at the EPFL in Lausanne, Switzerland, where she leads the Laboratory of Behavioral Genetics. She did her PhD at the Cajal Institute (Madrid) and postdocs in France and UK. Her lab studies the mechanisms whereby stress affects brain and behavior. She was Director of the Brain Mind Institute at EPFL and President of the European Brain and Behavior Society. Currently, she is co-Director of the Swiss National Center of Competence in Research SYNAPSY, founder and co-President of the Swiss Stress Network, and President of the Federation of European Neuroscience Societies (FENS).

Thursday, 29/Aug/2019: 16:45 - 17:45, Room Galilei ABC
Plenary Lecture 1
Brain mitochondria in anxiety and stress-coping behaviors

Professor and Head of Institute of Medical Psychology, Charité, Berlin, Germany. Prof. Heim obtained her Ph. D. in Psychology from the University of Trier, in Germany in 1996, after which she moved, as a postdoc, at Emory University, Atlanta, GA, USA. She returned to Trier and she moved back to Emory where she was Professor of Psychiatry from 2001 to 2011. She was then appointed Professor at Charité University in Berlin. Prof. Heim is interested elucidating the mechanisms involved in the developmental programming of health and disease as a function of early experience, in order to derive novel pathophysiology-driven targets for the prevention and intervention of disorders related to early life stress.

Friday, 30/Aug/2019: 13:30 - 14:30, Room Galilei ABC
Plenary Lecture 2
Understanding and mitigating the impact of early life stress on disease risk: Towards developmental programing of lifelong health

Larry J. Young, PhD is Director of the Center for Translational Social Neuroscience and of the Conte Center for Oxytocin and Social Cognition at Emory University. He is also William P. Timmie Professor of Psychiatry at Emory. Dr. Young earned his B. S. in Biochemistry at the University of Georgia, and his PhD from the University of Texas at Austin. Dr. Young's research examines the neural mechanisms underlying social bonding in monogamous prairie voles, with a focus on the oxytocin system, and its potential as a pharmacological target for treating autism.

Saturday, 31/Aug/2019: 13:30 - 14:30, Room Galilei ABC
Plenary Lecture 3
Neural mechanisms of social bonding: Implications for autism
The reproducibility crisis in research: Methodological issues and proposed remedies

At the turn of 2010, some disappointing results began to emerge from large scale reproducibility projects in various medical, life and behavioural sciences. In 2016, the Journal Nature conducted a survey of researchers and results showed that 52% of scientists believed science was facing a “reproducibility crisis”. This ‘reproducibility crisis’ seemed to emerge from 5 major factors: 1) the absence of replication studies; 2) an incapacity to replicate published studies when replication projects are performed; 3) some evidence of publication bias; 4) a high prevalence of ‘questionable research practices’ that result in an inflation of false positives (p-hacking) and 5) a lack of transparency in a large number of publications in the reporting of methods, data and statistical analysis. This crisis led to various ‘open science reforms’ aiming at modifying the scientific approach to prevent the reproducibility crisis. These reforms can be grouped into four categories: (a) methods and training, (b) reporting and dissemination, (c) peer review processes, and (d) evaluating new incentive structures. In this first ISPNE Presidential Symposium, Dr. Daniel Lakens from Eindhoven University of Technology, who has contributed to the open science reform, will provide a historical background of the reproducibility crisis and the various remedies proposed to deal with it. In the second part of the symposium, Agnieszka Freda from Elsevier/Psychoneuroendocrinology will discuss the importance of data sharing in research publications. The symposium will end with a period of discussion with the audience to discuss these important issues.

For more information, visit Nature’s website on this issue: https://www.nature.com/collections/prbfkmwvz

14:30 - 15:15
The reproducibility crisis in research: Methodological issues and proposed remedies
Dr. Daniel Lakens
1Human-Technology interaction group at Eindhoven University of Technology

15:15 - 15:35
“Can I share my data? You SHOULD share your data”: Insights into background, principles and copyright
Dr. Agnieszka Freda
1Elsevier/Psychoneuroendocrinology Journal

15:35 - 16:00
General discussion with the audience
Our dear colleague, mentor, close friend to many of us, and president of ISPNE (2002-2005), Dirk Hellhammer, died on December 1, 2018. The 2019 meeting of ISPNE in Milan will be the first that Dirk Hellhammer has not attended or has been involved in the planning and organization of.

His seminal importance and profound influence for the field of psychoneuroendocrinology can be seen in the papers contributed by his former students and colleagues that together constitute a Festschrift in his honor. The Hellhammer Festschrift was published recently as a special issue of PNEC.

In this Memorial Symposium for Dirk Hellhammer, two of his life-long colleagues and collaborators, Ron de Kloet and Jonathan Seckl, will give presentations about their own scientific work in honor of their friend. They will be introduced by Sonia Lupien, the current president of ISPNE. Robert Dantzer, the co-editor-in-chief of PNEC, worked for many years on ISPNE and PNEC issues together with Dirk. He will conclude the Symposium with personal remarks in honor of our friend and colleague who will be deeply missed.
POSTER SESSION

TIME

Thursday, 29/Aug/2019: 17:45 - 20:00
Stress and health: Early life adversities

LOCATION: Cristalli

P 001  Adverse childhood experiences and adult inflammation: Single adversity, cumulative risk and latent class approaches

Rebecca Lacey¹, Snehal Pinto Pereira¹, Leah Li², Andrea Danese³,⁴
¹University College London, London, United Kingdom; ²Great Ormond Street Institute for Child Health, University College London, London, United Kingdom; ³Social, Genetic & Developmental Psychiatry (SGDP) Centre, King's College London, London, United Kingdom; ⁴Department of Child & Adolescent Psychiatry, King's College London, London, United Kingdom

P 002  Does Maternal Antenatal Depression Impact Offspring Stress Reactivity Aged 7 to 9 Years?

Kristi Sawyer, Rebecca H. Bind, Beatrice Allegri, Katie Hazelgrove, Sarah Osborne, Anna McLaughlin, Naghmeh Nikkheslat, Susan Conroy, Vaheshta Sethna, Carmine M. Pariante
IoPPN, King's College London, United Kingdom

P 003  The long-term effects of adverse childhood experiences on c-reactive protein and hair cortisol: Findings from the English Longitudinal Study of Ageing

Eleonora Iob, Andrew Steptoe
Department of Behavioural Science and Health, University College London, United Kingdom

P 004  Adverse childhood experiences and depressive symptoms in later life: Longitudinal mediation effects of inflammation

Eleonora Iob, Andrew Steptoe
Department of Behavioural Science and Health, University College London, United Kingdom

P 005  The Neurobiology of Postpartum Psychosis: The Role of Maternal Antenatal Stress

Katie Hazelgrove, Alessandra Biaggi, Frederique Waites, Susan Conroy, Sarah Osborne, Carmine M Pariante, Susan Pawlby, Paola Dazzan
King's College London, United Kingdom

P 006  FinnBrain Birth Cohort Study: Maternal prenatal psychological distress exposure associates with less steep cortisol recovery in girls but steeper recovery in boys at the age of 10 weeks

Susanna Kortesluoma¹,², Laura Korhonen¹,³, Juho Pelto¹, Linnea Karlsson¹,⁴, Hasse Karlsson¹,⁵
¹FinnBrain Birth Cohort Study, Turku Brain and Mind Center, Department of Clinical Medicine, University of Turku, Turku, Finland; ²Institute of Biomedicine, University of Turku, Turku, Finland; ³Department of Paediatrics and Adolescent Medicine, Turku University Hospital, Turku, Finland; ⁴Department of Child Psychiatry, Turku University Hospital, University of Turku, Turku, Finland; ⁵Department of Psychiatry, Turku University Hospital, University of Turku, Turku, Finland
Intestinal dysbiosis in maltreated children is associated with concentrations of salivary cortisol, C-reactive protein and with depressive symptoms

Gergana Dimitrova Karaboycheva\textsuperscript{1,2}, Karin de Punder\textsuperscript{1}, Judith Overfeld\textsuperscript{1}, Peggy Dörr\textsuperscript{2}, Katja Dittrich\textsuperscript{2}, Elena Murray\textsuperscript{2}, Elisabeth Binder\textsuperscript{2}, Sibylle-Maria Winter\textsuperscript{2}, Sonja Entringer\textsuperscript{1,4}, Christine Heim\textsuperscript{1,5}

\textsuperscript{1}Charité – Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BIH), Institute of Medical Psychology, Berlin, Germany; \textsuperscript{2}Charité – Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BIH), Department of Child & Adolescent Psychiatry, Berlin, Germany; \textsuperscript{3}Max-Planck Institute of Psychiatry, Munich, Germany; \textsuperscript{4}Department of Pediatrics and the Development, Health and Disease Research Program, University of California Irvine, Irvine, CA, USA; \textsuperscript{5}Department of Biobehavioral Health, College of Health and Human Development, Pennsylvania State University, Pennsylvania, USA

Investigating cognitive emotion regulation in the face of stress

Magdalena Sandner\textsuperscript{1}, Peter Zeier\textsuperscript{1}, Giannis Lois\textsuperscript{1}, Michèle Wessa\textsuperscript{1,2}

\textsuperscript{1}Johannes Gutenberg University Mainz, Germany; \textsuperscript{2}German Resilience Center Mainz, Germany

Effects of acute yohimbine administration on interoception in major depression and childhood adversity

Linn Kristina Kuehl\textsuperscript{1}, Christian Eric Deuter\textsuperscript{1}, Ion-Hideo Breden\textsuperscript{2}, Claus Vögele\textsuperscript{2}, Katja Wingenfeld\textsuperscript{1}, Christian Otte\textsuperscript{1}, André Schulz\textsuperscript{2}

\textsuperscript{1}Charité - Universitätsmedizin Berlin, Germany; \textsuperscript{2}University of Luxembourg, Esch-sur-Alzette, Luxembourg

Exposure to prenatal stress increases susceptibility to the adverse effects of a high fat diet experienced during postnatal development in rats: A role for inflammation

Monica Mazzelli\textsuperscript{1}, Nicola Lopizzo\textsuperscript{1}, Nadia Cattanei\textsuperscript{1}, Cristina Mora\textsuperscript{1}, Veronica Begni\textsuperscript{2}, Alessandra Berry\textsuperscript{3}, Marco A. Riva\textsuperscript{2}, Francesca Cirulli\textsuperscript{2}, Annamaria Cattaneo\textsuperscript{1,4}

\textsuperscript{1}Biological Psychiatry Unit, IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli, Brescia, Italy; \textsuperscript{2}Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy; \textsuperscript{3}Center for Behavioral Sciences and Mental Health, Istituto Superiore di Sanità, Rome, Italy; \textsuperscript{4}Department of Psychological Medicine, Stress, Psychiatry and Immunology Laboratory, Institute of Psychiatry, King's College London, London, UK

Enduring effects induced by brief and repeated periods of social isolation stress during early adolescence

Giulia Federica Mancini\textsuperscript{1,2}, Enrico Marchetta\textsuperscript{1,2}, Marta Splendori\textsuperscript{2}, Patrizia Campolongo\textsuperscript{1,2}

\textsuperscript{1}Department of Physiology and Pharmacology, Sapienza University of Rome, Rome, Italy; \textsuperscript{2}Neurobiology of Behavior Laboratory, Santa Lucia Foundation, 00143 Rome, Italy
P 012 Childhood maltreatment severity is associated with smaller total brain size in preschool age children

Judith Overfeld1, Claudia Buss1,2, Karin de Punder1, Sibylle-Maria Winter2, John-Dylan Haynes4,5, Elisabeth Binder6,7, Christine Heim1,8
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; 2Charité - Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BIH), Department of Child & Adolescent Psychiatry; 3University of California, Irvine, Development, Health, and Disease Research Program, Orange, CA, USA; 4Charité - Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BIH), Bernstein Center for Computational Neuroscience, Berlin Center for Advanced Neuroimaging, Department of Neurology, Berlin, Germany; 5Department of Psychology, Humboldt-Universität zu Berlin, Berlin, Germany; 6Department of Translational Research in Psychiatry, Max Planck Institute of Psychiatry, Munich, Germany; 7Dept. of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, GA, USA; 8Department of Biobehavioral Health, College of Health & Human Development, The Pennsylvania State University, University Park, PA, USA

P 013 The association between childhood stressors and histone deacetylase density in the brain of adults followed since childhood: A positron emission tomography study

Julian Chiarella1,2, Mari Sild1,2, Kevin F. Casey1,2, Gassan Massarweh3, Jean-Paul Soucy2, Marco Leyton4, Naomi Azar1,2, Richard E. Tremblay5, Jacob Hooker6, Chawki Benkelfat7, Linda Booij1,2,4
1Concordia University; 2CHU Sainte-Justine Hospital; 3Montreal Neurological Institute; 4McGill University; 5Martinos Center for Biomedical Imaging at Massachusetts General Hospital, Harvard University

P 014 The effect of childhood maltreatment on the promoter methylation of DNTM1 in immune cells of mother-infant dyads

Rezan Nehir Mavioglu, Laura Ramo-Fernández, Alexandra Koenig, Anja Gumpp, Iris-Tatjana Kolassa, Alexander Karabatsiakis
Clinical and Biological Psychology, Institute of Psychology and Education, Ulm University, Ulm, Germany

P 015 Maternal stress during pregnancy and stress reactivity in children: A meta-analysis

Ioana Maria Bunea, Andrei C. Miu
Babeș-Bolyai University, Romania

Acute-chronic stress

LOCATION: Cristalli

P 016 The affective neuroscience personality traits predict the temporoparietal junction activity when making decisions for unfair offers under acute stress

Shijia Li1,2, Jun Tang2, Gaihua Nie1
1Key Laboratory of Brain Functional Genomics (MOE&STCSM), Shanghai Changning-ECNU Mental Health Center, School of Psychology and Cognitive Science, East China Normal University, Shanghai, China; 2Shanghai Key Laboratory of Magnetic Resonance, East China Normal University, Shanghai, China
P 017 Blunted endocrine and neural activity during acute psychological stress response in young healthy individuals reporting a high daily stress

Juan Yang, Xi Ren
Southwest University, Chongqing, China

P 018 Exposure to a maternal n-3 fatty acid-deficient diet during the brain development enhance the activity and dysregulation of hypothalamic-pituitary-adrenal axis responses to stress in rat offspring later in life

Yu-Ju Hsieh, Hui-Min Su
National Taiwan University, Taiwan

P 019 Effects of acute stress on the hypothalamic-pituitary-thyroid (HPT) axis

Susanne Fischer¹, Jana Strahler², Charlotte Markert², Nadine Skoluda³, Johanna M. Doerr⁴, Urs M. Nater³
¹University of Zurich, Institute of Psychology, Clinical Psychology and Psychotherapy, Switzerland; ²University of Giessen, Department of Psychology and Sport Sciences, Psychotherapy and Systems Neuroscience, Germany; ³University of Vienna, Faculty of Psychology, Clinical Psychology, Austria; ⁴University Hospital Giessen and Marburg, Department of Neurology, Germany

P 020 Acute stress improves the effectivity of cognitive emotion regulation

Katja Langer, Bianca Hagedorn, Lisa-Marie Stock, Oliver T. Wolf, Valerie L. Jentsch
Ruhr University Bochum, Germany

P 021 Stress and bone health

Pia-Maria Wippert
University Potsdam, Germany

P 022 Same same but different? Replicating the real surroundings in a virtual Trier Social Stress Test does not affect psychophysiological stress response

Patrick Zimmer, Gregor Domes
Department of Biological and Clinical Psychology, University of Trier, Germany

P 023 The effect of chronic stress on executive functioning: A cross-sectional perspective

Kornelius Schmidt¹, Soeren Enge¹², Clemens Kirschbaum¹, Robert Miller¹
¹Faculty of Psychology, TU Dresden; ²MSB Medical School Berlin
P 024 Associations between short-term stress regulation, long-term stress, and behavioral styles among Finnish children aged 3 to 6 years

Katri Sääksjärvi1, Elviira Lehto1, Eira Suohon1, Carola Ray2, Marja Leppänen2,3, Anu Heiman-Lindh3, Nathalie Michels4, Mari Nislin5, Taina Sainio5, Henna Vepsäläinen6, Maijaliisa Erkkola5, Eva Roos2, Nina Sajaniemi1

1Department of Teacher Education, University of Helsinki, Finland; 2Folkhälsan Research Center, Helsinki, Finland; 3Department of Food and Nutrition, University of Helsinki, Finland; 4Department of Public Health and Primary Care, Ghent University, Belgium; 5Department of Early Childhood Education, The Education University of Hong Kong; 6Philosophical Faculty, School of Applied Educational Science and Teacher Education, University of Eastern Finland, Finland

P 025 Late-phase effects of acute stress on emotional decision-making

Kaori Yamakawa

Tokai Gakuen University, Japan

P 026 Chronic stress exposure and altered leukocyte subsets: A shift model towards increased disease vulnerability

Marlene Sophie Penz1, Robert Miller2, Magdalena Wekenborg2, Andreas Walther2, Nicole Rothe2, Angelika Buske-Kirschbaum2, Clemens Kirschbaum2

1Universitätsklinikum Carl Gustav Carus, Dresden, Germany; 2Department of Psychology, Technische Universität Dresden, Germany

Molecular mechanisms

LOCATION: Cristalli

P 027 Cellular aging markers of telomere length and mitochondrial DNA copy number in obsessive-compulsive disorder

Jee In Kang, Chun Il Park, Se Joo Kim

Yonsei University College of Medicine, Korea, Republic of (South Korea)

P 028 Association of FKBP5 intron 7 methylation with diurnal cortisol patterns in healthy subjects

Martin Stoffel1, Elena Gardini2, Elvira Abbruzzese2, Markus Moessner1, Ulrike Ehlert2, Beate Ditzen1

1University Hospital Heidelberg, Center for Psychosocial Medicine, Germany; 2University of Zürich, Department of Psychology, Switzerland

P 029 Mitochondrial respiratory capacity regulates acute LPS-stimulated inflammatory signatures in human blood

Kalpita Rashmi Karan1, Caroline Trumpff1, Marlon A. McGill1, Jacob E. Thomas1, Gabriel Sturm1, Vincenzo Lauriola1, Nicolas Rohleder2, Richard P. Sloan1, Martin Picard1,3,4

1Department of Psychiatry, Division of Behavioral Medicine, Columbia University Irving Medical Center, New York, NY, United States; 2Institute of Psychology, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany; 3Department of Neurology, H. Houston Merritt Center, Columbia Translational Neuroscience Initiative, Columbia University Irving Medical Center, New York, NY, United States; 4Columbia Aging Center, Columbia University Mailman School of Public Health, New York, NY, United States
P 030  Predator stress – vulnerable rats displayed reduction of steroidogenesis in adrenal glands

Maxim Lapshin¹, Olga Tseilikman¹, Maria Komelkova¹, Vadim Tseilikman¹, Eugenia Manukhina¹,²,³, H. Fred Downey¹,²,⁴, Marina Kondashevskaya⁴
¹South Ural State University, Russia; ²Institute of General Pathology and Pathophysiology, Moscow, Russia; ³University of North Texas Health Science Center, Fort Worth, USA; ⁴Research Institute of Human Morphology, Moscow, Russia

P 031  Stress regulates glucocorticoid-responsive genes expression in prefrontal cortex by altering DNA methylation: implication for lurasidone treatment

Paola Brivio¹, Giulia Sbrini¹, Letizia Tarantini², Chiara Favero², Mariusz Papp³, Marco Andrea Riva¹, Valentina Bollati², Francesca Calabrese¹
¹Department of Pharmacological and Biomolecular Sciences, Università degli Studi di Milano, Milan, Italy; ²EPIGET-Epidemiology, Epigenetics and Toxicology Lab, Department of Clinical Sciences and Community Health, Università degli Studi di Milano, Milan, Italy; ³Institute of Pharmacology, Polish Academy of Sciences, Krakow, Poland

P 032  Effects of Nx4 on reduced stress responsibility reflected by heart rate variability

Tara Chand¹,², Hamidreza Jamalabadi²,³, Sarah Alizadeh²,³, Zmurut Duygu Sen²,³, Luisa Fensky²,³, Martin Walter¹,²,³
¹MPI for Biological Cybernetics, Tübingen, Germany; ²Clinical Affective Neuroimaging Laboratory, Magdeburg, Germany; ³Department of Psychiatry and Psychotherapy, University Tübingen, Tübingen, Germany

P 033  Stress and impulsivity: The effects of the variant Bcll (rs41423247) of the glucocorticoid receptor gene on impulsivity action and impulsivity choice

Andrea B Schote¹, Clara Sayk¹, Ulrike Winnikes¹, Matthias Vonmoos², Lea M Hulka², Katrin H Preller², Boris Quednow², Joost Meyer¹
¹Department of Neurobehavioral Genetics, Institute of Psychobiology, University of Trier, Germany; ²Experimental and Clinical Pharmacopsychology, Department of Psychiatry, Psychotherapy, and Psychosomatics, Psychiatric Hospital, University of Zurich, Switzerland

P 034  Nx4 influences association of EEG with amygdala activation and connectivity after stress

Melanni Nanni¹,², Marina Krylova¹,², Yan Fan²,³, Sarah Alizadeh¹,², Hamidreza Jamalabadi¹,², Luisa Hermann¹,², Anne Kühnel²,³, Lena Danyeli²,³, Tibor Tar⁴, Myron Schultz⁴, Martin Walter¹,²,³,⁴
¹University of Tübingen, Germany; ²Clinical Affective Neuroimaging Laboratory; ³Leibniz Institute for Neurobiology, Magdeburg, Germany; ⁴Biologische Heilmittel Heel GmbH, Baden-Baden, Germany

P 035  Coping with the Forced Swim Stressor

E. Ronald de Kloet, Marc Molendijk
Leiden University, The Netherlands
P 036 The role of estrogens in anxiety-like behavior and memory of female rats

Emese Renczés¹, Veronika Borbélyová¹, Daniela Ostatníková², Peter Celec¹,³,⁴
¹Institute of Molecular Biomedicine, Faculty of Medicine, Comenius University in Bratislava, Slovakia; ²Institute of Physiology, Faculty of Medicine, Comenius University in Bratislava, Slovakia; ³Institute of Pathophysiology, Faculty of Medicine, Comenius University in Bratislava, Slovakia; ⁴Department of Molecular Biology, Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia

Cognition

P 037 Effects of glucocorticoid and noradrenergic activity on spatial learning and spatial memory performance in healthy young adults

Woo Ri Chae¹, Sophie Metz¹, Jeanette Weise², Jan Nowacki¹, Dominique Piber¹,³, Sven C. Mueller⁴, Katja Wingenfeld¹, Christian Otte¹
¹Charité – Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health, Klinik für Psychiatrie und Psychotherapie, Campus Benjamin Franklin, Berlin, Germany; ²Department of Psychology, University of Potsdam, Germany; ³Cousins Center for Psychoneuroimmunology, Semel Institute for Neuroscience and Human Behavior, Department of Psychiatry and Biobehavioral Sciences, David Geffen School of Medicine, University of California, Los Angeles; ⁴Department of Experimental Clinical and Health Psychology, Ghent University, Belgium

P 038 Endocannabinoid modulation of short-term recognition memory in rats: Influence of stress and circadian rhythm

Alessia Santori¹,², Marta Splendori¹,², Maria Morena³, Matthew N. Hill³, Patrizia Campolongo¹,²
¹Department of Physiology and Pharmacology, Sapienza University of Rome, Rome, Italy; ²Neurobiology of Behavior Laboratory, Santa Lucia Foundation, 00143 Rome, Italy; ³Hotchkiss Brain Institute, Departments of Cell Biology and Anatomy & Psychiatry, University of Calgary, Calgary, Alberta, Canada

P 039 Cognitive distortions are positively related to plasma cortisol concentrations and negatively related to oxytocin in major depressive disorder

Susan Jennifer Thomas, Theresa Larkin
University of Wollongong, Australia

P 040 Cognitive flexibility after yohimbine intake in patients with major depression

Christian Eric Deuter, Katja Wingenfeld, Christian Otte, Linn Kristina Kühl
Charité Universitätsmedizin Berlin, Germany

P 041 Stability of latent trait cortisol (ltc) and associations with cognitive restructuring among adolescent girls

Chrystal Vergara-Lopez¹,², Nadia Mercado²,³, Hannah Ziobrowski³, Laura Stroud¹,²
¹Alpert Medical School, Brown University; ²Centers for Preventative and Behavioral Medicine, The Miriam Hospital; ³School of Public Health, Brown University
Cortisol

P 043 Hair Cortisol Concentration and Quality of Life in Children with Mental Illness
M. Claire Buchan, John G. Mielke, Scott T. Leatherdale, Mark A. Ferro
University of Waterloo, Canada

P 044 The Role of Hair Cortisol Concentration in the Association Between Parent and Child Psychopathology: A Sex-Based Analysis
Mark A. Ferro¹, M. Claire Buchan¹, Andrea Gonzalez²
¹University of Waterloo, Canada; ²McMaster University, Canada

Judith Andersen¹, Jennifer Chan¹, Paula Di Nota³, Kyle Planche¹, Evelyn Boychuk¹, Peter Collins²
¹University of Toronto Mississauga, Canada; ²Centre for Addiction and Mental Health Toronto Ontario Canada

P 046 Circadian cycle of cortisol and psychophysiological responses in families of different sociocultural groups
Claudia Vega-Michel, Everardo Camacho Gutiérrez, Bárbara Doddoli Valencia, Sugei Gónzalez Rincón, Demian Ortega Lara, Aranza de la Brena León
ITESO AC, México

P 047 HPA Axis, Hair Cortisol, Eating Disorder, Emotional Regulation and Mindfulness.
Helen Patricia Gaete, Wafaa Gadelkarim, Murali Sekar
NHS, United Kingdom

P 048 Age-related changes of cortisol and testosterone secretion are not related to changes in psychosocial measures – Findings from the Men's Health 40+ longitudinal study
Tim Jonas Lacker¹,², Andreas Walther²,³, Ulrike Ehler¹,²
¹Department of Psychology, Clinical Psychology & Psychotherapy Unit, University of Zurich; ²University Research Priority Program “Dynamics of healthy aging”, University of Zurich, Switzerland; ³Department of Psychology, Biopsychology Unit, Technical University of Dresden, Germany
P 049 Diurnal cortisol levels, temperament and social competence in out-of-home childcare and at home: Longitudinal study of 2 and 3.5-year-old children – The FinnBrain Birth Cohort Study

Katja Tervahartiala1, Linnea Karlsson1,2, Susanna Kortesluoma1,3, Annarilla Ahtola4, Niina Junttila2,4, Juho Pelto2, Saara Nolvi1,7, Hasse Karlsson1,8

1The FinnBrain Birth Cohort Study, Turku Brain and Mind Center, Department of Clinical Medicine, University of Turku, Finland; 2Turku University Hospital and University of Turku, Department of Child Psychiatry, Finland; 3Institute of Biomedicine, University of Turku, Finland; 4Department of Psychology and Speech-Language Pathology, University of Turku, Finland; 5Department for Teacher Education, University of Turku, Finland; 6Finnish National Agency for Education, Helsinki, Finland; 7Charité Universitätsmedizin – Berlin, Department of Medical Psychology, Berlin, Germany; 8Turku University Hospital and University of Turku, Department of Psychiatry, Finland

P 050 Using hair cortisol to examine the role of maternal parenting in the transmission of stress in mother-child dyads experiencing adversity

Hannah Bryson1,2,3, Fiona Mensah1,3,4, Sharon Goldfeld1,2,3, Anna Price1,2,3, Rebecca Giallo1,3

1Murdoch Children’s Research Institute, Australia; 2Centre for Community Child Health, Royal Children’s Hospital, Australia; 3Department of Paediatrics, The University of Melbourne, Australia; 4Clinical Epidemiology and Biostatistics Unit, Murdoch Children’s Research Institute, Australia

P 051 Hair cortisol and self-reported depression, anxiety and stress symptoms among mothers of young children

Hannah Bryson1,2,3, Melissa Middleton4,5, Hamidul Huque3,4, Fiona Mensah3,4, Sharon Goldfeld1,2,3, Anna Price1,2,3

1Murdoch Children’s Research Institute, Australia; 2Centre for Community Child Health, Royal Children’s Hospital, Australia; 3Department of Paediatrics, The University of Melbourne, Australia; 4Clinical Epidemiology and Biostatistics Unit, Murdoch Children’s Research Institute, Australia; 5Centre for Epidemiology and Biostatistics, The University of Melbourne, Australia

P 052 Daily experienced stress and cortisol awakening response in atopic patients

Jakub Rajcani1, Petra Solarikova1, Daniela Turonova1, Silvia Blahunkova1, Daniela Jezova2, Igor Brezina1

1Faculty of Arts, Comenius University, Bratislava, Slovakia; 2Laboratory of Pharmacological Neuroendocrinology, Institute of Experimental Endocrinology, Biomedical Research Center, Slovak Academy of Sciences, Bratislava, Slovakia

P 053 Negative Temperament, Hair Cortisol, and Sleep in Toddlers Reared in Poverty

Randi Bates, Abel Koury

The Ohio State University, United States of America

P 054 How are Maternal Second Trimester Hair Cortisol Concentration and Depressive Symptoms Related to the Risk of Gestational Diabetes Mellitus?

Inka Mattila1, Paula Mustonen1,2, Susanna Kortesluoma1,3, Eeva Ekholm1,4, Risto Kaaja1,5, Hasse Karlsson1,6, Linnea Karlsson1,2

1FinnBrain Birth Cohort Study, Turku Brain and Mind Center, Department of Clinical Medicine, University of Turku, Turku, Finland.; 2Department of Child Psychiatry, Turku University Hospital, University of Turku, Turku, Finland.; 3Institute of Biomedicine, University of Turku, Turku, Finland.; 4Department of Obstetrics and Gynecology, Turku University Hospital, University of Turku, Turku, Finland.; 5Department of Internal Medicine, Turku University Hospital, University of Turku, Turku, Finland.; 6Department of Psychiatry, Turku University Hospital, University of Turku, Turku, Finland.
P 055  Salivary alpha amylase over cortisol ratio in response to psychosocial stress in overweight/obese and lean men aged 50 to 70 years

Sisitha Udara Jayasinghe¹, Sarah Janet Hall¹, Susan Jane Torres¹, Anne Isabella Turner¹
¹Institute for Physical Activity and Nutrition, Deakin University, Australia; ²College of Health and Medicine, University of Tasmania, Australia

P 056  An attenuated cortisol awakening response in healthy participants visually dependent in postural control

Nina Smyth, Maria Flynn, Monica Milani, Frank Hucklebridge, Lisa Thorn, Phil Evans, Angela Clow
University of Westminster, London, United Kingdom

P 057  The cortisol awakening response predicts a same-day index of executive function in healthy young adults

Robin Law, Phil Evans, Lisa Thorn, Frank Hucklebridge, Catherine Loveday, Angela Clow
University of Westminster, United Kingdom

P 058  Lifetime exposure to violence and other life stressors and hair cortisol concentration in women

Rebekka Lynch¹, Matthias Kormaksson¹, Thor Aspelund¹, Arna Hauksdottir¹, Clemens Kirschbaum², Unnur Valdimarsdottir³,⁴
¹University of Iceland, Iceland; ²Technische Universität Dresden, Germany; ³Karolinska Institutet, Sweden; ⁴Harvard T. H. Chan School of Public Health, United States

P 059  Exploring subjective experience in daily life: mind-wandering and thinking patterns as predictors of subjective stress and salivary cortisol levels.

Roman Linz¹, Tania Singer², Veronika Engert¹
¹Max Planck Institute for Human Cognitive and Brain Sciences, Research Group “Social Stress and Family Health”, Leipzig, Germany; ²Forschungsgruppe Soziale Neurowissenschaften, Max-Planck-Gesellschaft, Berlin, Germany

P 060  Higher hair cortisol is associated with reduced cerebral oxygenation in a population-based study of older adults

Joanne Feeney¹, Louise Newman¹, Rose Anne Kenny¹,²
¹Trinity College Dublin, Ireland; ²Mercer’s Institute for Successful Ageing, St. James’s Hospital, Dublin, Ireland

P 061  Different types of mental practice unspecifically reduce cortisol and cortisone exposure in hair

Lara Marie Christine Puhlmann¹,², Pascal Vrticka¹,², Roman Linz¹,², Tobias Stalder³,⁴, Clemens Kirschbaum³, Veronika Engert¹,², Tania Singer¹,⁵
¹Independent Research Group “Social Stress and Family Health”, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany; ²Department of Social Neuroscience, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany; ³Biological Psychology, TU Dresden, Dresden, Germany; ⁴Clinical Psychology, University of Siegen, Siegen, Germany; ⁵Social Neuroscience Lab, Max Planck Society, Berlin, Germany
P 062 An optimized LC-MS/MS method for cortisol and cortisone in human hair

Rudo Odijk, Sjoerd van den Berg, Kristien Dorst, Yolanda de Rijke
Erasmus MC, University Medical Center Rotterdam, the Netherlands

P 063 Human Nail Cortisol as a Retrospective Biomarker of Chronic Stress: A Systematic Review

Riana Phillips1,2, Ann-Katrin Kraeuter1, Brett McDermott2, Sonia Lupien3, Zoltan Sarnyai1
1Laboratory of Psychiatric Neuroscience, Australian Institute of Tropical Health and Medicine, James Cook University, Townsville, Queensland, Australia; 2College of Medicine and Dentistry, James Cook University, Townsville, Queensland, Australia; 3Psychiatry Department, University of Montreal, Canada

P 064 Diurnal cortisol and cortisol reactivity in twins: Genetic and environmental contributions as a function of childhood adversity

Yamiley Christina Cantave1, Isabelle Ouellet-Morin1, Stephanie Langevin1, Michel Boivin2, Mara Brendgen3
1University of Montreal, Canada; 2Université Laval; 3University of Quebec at Montreal

P 065 Effects of mineralocorticoid receptor and NMDA receptor stimulation on empathy in depressed patients and healthy individuals

Jan Nowacki, Michael Kaczmarczyk, Woo Ri Chae, Katja Wingenfeld, Christian Otte
Charité – Universitätsmedizin Berlin, Germany

P 066 Study Protocol of a Pregnancy Cohort from Turkey: Bogazici Mother-Baby Relationship Project

Elif Aysimi Duman1,2,3, Nilay Atesyakar1, Alev Ecevitoglu1
1Department of Psychology, Bogazici University, Turkey; 2Center for Life Sciences and Technologies, Bogazici University, Turkey; 3Department of Public Health, BTU Cottbus-Senftenberg, Germany

P 067 Children’s stress regulation in integrated kindergarten groups

Jonna Kesäläinen1, Eira Suhonen1, Mari Nislin2, Alisa Alijoki1, Nina Sajaniemi1
1University of Helsinki, Finland; 2The Education University of Hong Kong

Others

LOCATION: Cartesio
P 068 Burnout patients' metabolic responses to acute stress

Anna Sjors Dahlman1,2, Ingibjorg H Jonsdottir1,3, Jenny Hadrevi4
1Institute of stress medicine, Region Vastra Gotaland, Sweden; 2Swedish National Road and Transport Research Institute, Sweden; 3Department of Community Medicine and Public Health, Institute of Medicine, The Sahlgrenska Academy, University of Gothenburg, Sweden; 4Section of Sustainable Health, Department of Public Health and Clinical Medicine, Umeå University, Sweden

P 069 Stress contagion and performance under pressure

Stephanie Dimitroff, Jana Feidel, Johanna Digeser, Jens Pruessner
University of Konstanz, Germany

P 070 Changes of cardiac vagal tone during a stress task in preschoolers

Nadine Messerli-Bürgy1, Andrea H Meyer1,2, Julian F Thayer3, Oskar G Jenni4, Susi Kriemler5, Jardena J Puder6, Simone Munsch1
1University of Fribourg, Fribourg, Switzerland; 2University of Basel, Basel, Switzerland; 3University of California, Irvine, U.S.A.; 4University Children’s Hospital Zurich, Zurich, Switzerland; 5University of Zurich, Zurich, Switzerland; 6Lausanne University Hospital, Lausanne, Switzerland

P 071 Social exclusion, facial mimicry and the menstrual cycle: Evidence for increased affiliation motivation during the luteal phase

Fabian Probst1, Janek Lobmaier2
1University of Zurich, Switzerland; 2University of Bern, Switzerland

P 072 Like Parent, Like Child: The Real-Time Psychological and Biological Synchrony of Stress in Families in Naturalistic Settings

Christine Hotaru Naya1, Nanette Virginia Lopez2, Darby Saxbe1, Chih-Hsiang Yang1, Britni Ryan Belcher1, Genevieve Fridlund Dunton1
1University of Southern California, United States of America; 2Northern Arizona University, United States of America

P 073 Inflammation associated with coronary heart disease predicts onset of depression in a three-year prospective follow-up study

Luca Sforzini1,2, Naghmeh Nikkheslat1, Jorge E. Palacios3, Andre Tylee4, Livia A. Carvalho5, Caterina A. Viganò2, Carmine M. Pariante1
1Department of Psychological Medicine, Institute of Psychiatry, Psychology and Neuroscience, King’s College London, London, UK.; 2Psychiatry Unit, Department of Biomedical and Clinical Sciences, Luigi Sacco Hospital, Università degli Studi di Milano, Milan, Italy.; 3E-mental Health Research Group, School of Psychology, University of Dublin, Trinity College Dublin, Dublin, Ireland.; 4Health Service and Population Research Department, Institute of Psychiatry, Psychology and Neuroscience, King’s College London, London, UK.; 5Department of Clinical Pharmacology, William Harvey Research Institute, Queen Mary University of London, London, UK.
P 074 Neuroticism modulates HPA axis reactivity during the first trimester of pregnancy

Águeda Castro-Quintas1,2, Maria Daura-Corral1,2, Lorena de la Fuente-Tomás2,3, Helena Palma-Gudiel1,2, Laia Marques-Feixa1,2, Maria Paz García-Portilla2,3, Lourdes Fañanás1,2
1University of Barcelona, Spain; 2CIBERSAM, Spain; 3University of Oviedo, Spain

P 075 RAGE-Associated s100A8/A9 Levels Associated with Serum Cortisol and Cancer-Related Hyperarousal in Patients with Breast Cancer

Chloe Taub, Hannah Fisher, Molly Ream, Erica Nahin, Bonnie Blomberg, Marc Lippman, Barry Hudson, Alain Diaz, Suzanne Lechner, Taekyoung Kwak, Gyong Ha Hwang, Michael Antoni
University of Miami, United States of America

P 076 Differences in anxiety levels between adolescents attending private and public schools

Audrey-Ann Journault1,2,3, Charlotte Longpré1,2,3, Sandrine Charbonneau1,2,3, Laurence Dumont1,2,3, Sonia J. Lupien1,2,3
1Université de Montréal, Canada; 2Centre for studies on human stress (CSHS); 3Centre de recherche de l’Institut universitaire en santé mentale de Montréal

P 077 Frontal resting-state asymmetry is associated with C-reactive protein levels

Linda Becker, Nicolas Rohleder
Friedrich-Alexander University Erlangen-Nürnberg, Germany

P 078 Aging and allostatics: Evaluating the applicability of allostatic markers in elderly

Victor Kallen1, Muhammad Rizwan Tahir1, Andrew Bedard1, Bart Bongers2, Hannah Eggink1, Nico van Meeteren2,3
1The Dutch Organization for Applied Sciences, TNO, The Netherlands; 2Faculty of Health, Medicine and Life Sciences, Maastricht University, Maastricht, The Netherlands; 3Health-Holland, Topsector Life Sciences and Health, The Hague, The Netherlands

P 079 Real sweating in a virtual stress environment: Investigation of the stress reactivity in people with primary hyperhidrosis.

Adrian E Linden1, Katharina Dietrich1, Ulrike Winnikes1, Gregor Domes2, Jobst Meyer1, Patrick Zimmer2, Andrea B Schote1
1Departement of Neurobehavioral Genetics, Institute of Psychobiology, University of Trier, Germany; 2Department of Biological and Clinical Psychology, University of Trier, Germany

P 080 Cardiac vagal adaptation to a recurrent laboratory stressor is exhausted in women with major depressive disorder

Carmen Schiweck1, Ali Gholamrezaei2, Thomas Vaessen1, Stephan Claes1, Elske Vrieze1
1KU Leuven, Department of Psychiatry and Neurosciences, Leuven, Belgium; 2KU Leuven, Faculty of Psychology and Educational Sciences, Leuven, Belgium.
P 081 The Impact of Hedione on the Human Stress Response

Anika Pützer1,2, Dennis Pomrehn1, Oliver T. Wolf1,2
1Department of Cognitive Psychology, Ruhr University Bochum, Germany; 2International Graduate School of Neuroscience, Ruhr University Bochum, Germany

P 082 Developmental Properties of Pro- and Anti-inflammatory Cytokines During Late Adolescence

Laura Bechtiger1, Lilly Shanahan1, Annekatrin Steinhoff1, Jessica M. Dollar2, Zachary Kincaid2, Susan D. Calkins2, Susan P. Keane2, Lenka Shriver2, Laurie Wideman2
1Jacobs Center for Productive Youth Development, University of Zurich, Switzerland; 2University of North Carolina at Greensboro

P 083 Psychiatric symptom severity mediates the effect of adversity on epigenetic aging in children aged 3 to 5 years

Felix Dammering1, Jade Martins2, Ferdinand Hoffmann1, Nadine Provencal1, Karin de Punder1, Judith Overfeld1, Darina Czamara2, Monika Rex-Haffner2, Lisa McEwen3, Michael Kobor3, Sybille Winter1,4, Claudia Buss1,5, Sonja Entringer1,5, Elisabeth Binder2, Christine Heim1,6
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 Translational Research in Psychiatry, Max-Planck Institute of Psychiatry, Munich, Germany; 3Department of Medical Genetics, Centre for Molecular Medicine and Therapeutics, BC Children’s Hospital Research Institute, University of British Columbia, Vancouver, Canada; 4Charité - Universitätsmedizin Berlin, corporate member of Freie Universität Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health (BIH), Department of Child & Adolescent Psychiatry, Berlin, Germany; 5University of California, Irvine, Development, Health, and Disease Research Program, Orange, CA, USA; 6Department of Biobehavioral Health, College of Health & Human Development, The Pennsylvania State University, University Park, PA, USA

P 084 Social isolation in adolescence and Gut microbiota: long-lasting alterations during adulthood

Nicola Lopizzo1, Stefania Provasi1, Elisa Mombelli1, Veronica Begni2, Matteo Carrara3, Clarissa Ferrari3, Marco Andrea Riva4, Annamaria Cattaneo1,4
1Biological Psychiatry Unit, IRCCS Fatebenefratelli San Giovanni di Dio, Brescia, Italy; 2Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy; 3Statistics Unit, IRCCS Fatebenefratelli San Giovanni di Dio, Brescia, Italy; 4Department of Psychological Medicine, Stress, Psychiatry and Immunology Laboratory, Institute of Psychiatry, King’s College London, London, UK

P 085 Hypothalamic-pituitary-adrenal axis functioning in the offspring of parents with bipolar disorder following the Reducing Unwanted Stress in the Home (RUSH) prevention program

Erin Yong Ping, Heather Herriot, Vanessa Iacono, Mark Ellenbogen
Concordia University, Canada

P 086 Plasma brain-derived neurotrophic factor (BDNF) levels in inpatients with a stress-related adjustment or depressive disorder increase after multimodal inpatient treatment

Roberto La Marca1, Monika Scheiwiller1,3, Heinz Böker2,3
1University of Zurich, Zurich, Switzerland; 2Psychiatric University Clinic Zurich, Zurich, Switzerland; 3Clinica Holistica Engiadina SA, Susch, Switzerland
P 087  Linking Energy Metabolism to Hypothalamic-Pituitary-Adrenal Functioning – Comparing Different Plausible Mediation Models

Maria Meier¹, Sonia Lupien², Jens C. Pruessner¹, Eva Unternaehrer¹, Robert-Paul Juster²
¹University of Constance, Germany; ²University of Montreal, Canada

P 088  Relationship quality and depressive symptoms in pregnant women: Associations and changes during and after pregnancy

Cornelia E. Schwarze¹, Tanja Hauser¹, Stephanie Wallwiener²
¹Heidelberg University, Germany; ²Heidelberg University Gynaecological Hospital, Germany

P 089  More stressed or less calm? Adolescent affective experiences and their implications for sleep and depression

Sarah Collier Villaume, Jacquelyn E. Stephens, Emma K. Adam
Northwestern University, United States of America

P 090  Sleep quality and salivary melatonin and cortisol secretion: a pilot study testing the feasibility of a user-friendly ambulant design

Anne Dubberke, Emilia Ellsiepen, Felix Nisius, Juliane Hellhammer
daacro GmbH & Co. KG, Germany

P 091  Daily and weekly within-person stability of neuroendocrine, metabolic, and immune biomarkers: An intensive longitudinal exploratory study

Caroline Trumpff¹, Shannon Rausser¹, Robert-Paul Juster², Anika Mitchell¹, Sameer Ahmad¹, Kalpita Karan¹, Gabriel Sturm¹, Marlon McGill¹, Clemens Kirschbaum³, Martin Picard¹,4,5
¹Columbia University, United States of America; ²Department of Psychiatry and Addiction, University of Montreal; ³Department of Psychology, TU Dresden, Germany; ⁴Department of Neurology, H. Houston Merritt Center, Columbia Translational Neuroscience Initiative, Columbia University Medical Center; ⁵Columbia Aging Center, Columbia University Mailman School of Public Health

P 092  The impact of neuroeducational methods on telomere length

Danielius Serapinas¹,2,3, Anna Serapiniene², Paulina Simaityte¹, Inga Daugirdaite¹, Kristine Martinsonė⁴, Marija Mendele Leliugiene⁵
¹Lithuanian University of Health Sciences, Lithuania; ²Mykolas Romeris University, Lithuania; ³InMedica clinics, Lithuania; ⁴Riga Stradiņš University, Latvia; ⁵Institute for personality development „Rafaelis“, Lithuania

P 093  Investigating the oxytocinergic system: Plasma measures of free vs. total oxytocin fractions in two animal models

Cécile Bienboire-Frosini¹, Camille Chabaud¹, Tiago Mendonça¹,2, Manuel Mengoli¹,2, Sana Arroub¹, Jessica Lee Oliva¹, Alessandro Cozzi¹, Patrick Pageat¹,2
¹IRSEA, Research Institute in Semiochemistry and Applied Ethology, France; ²CECBA, Clinical Ethology and Animal Welfare Centre, France
P 094  Positive life events during pregnancy and cellular aging in infants

Claudia Lazarides1, Elissa S. Epel2,5,6,7,8, Kieran J. O'Donnell11,12, Michael S. Kobor3,4,6,8, Steven MacIsaac9, Claudia Buss1,2,9, Hyagriv N. Simhan1, Pathik D. Wadhwa2,10,11, 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, CA, USA; 3Departments of Psychiatry, University of California, San Francisco, CA, USA; 4Biochemistry & Biophysics, University of California, San Francisco, CA, USA; 5Ludmer Centre for Neuroinformatics and Mental Health, Douglas Mental Health University Institute, McGill University, Montreal, QC, Canada; 6Sackler Program for Epigenetics and Psychobiology at McGill University, Montreal, QC, Canada; 7Singapore Institute for Clinical Sciences, Singapore; 8Centre for Molecular Medicine and Therapeutics, Department of Medical Genetics, University of British Columbia, Vancouver, BC, Canada; 9Departments of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh, PA, USA; 10Departments of Psychiatry and Human Behavior, Obstetrics and Gynecology, and Epidemiology, School of Medicine, University of California, Irvine, CA, USA

P 095  The relation between metabolic resilience and long-term cortisol levels

Koen Hogenelst1, Suzan Wopereis1, Yolanda de Rijke2, Liesbeth van Rossum3

1Department of Microbiology and Systems Biology, The Netherlands Organisation for Applied Scientific Research, TNO, Zeist, the Netherlands; 2Department of Clinical Chemistry, Erasmus MC, University Medical Center Rotterdam, the Netherlands; 3Department of Internal Medicine, Erasmus MC, University Medical Center Rotterdam, the Netherlands

P 096  Maternal psychological resilience during pregnancy and fetal cellular aging

Glenn Helen Verner1, Elissa Epel2, Marius Lahti-Pulkkinen3, Eero Kajantie4, Claudia Buss1,5,6, Jue Lin7, Elizabeth Blackburn4,7,8, Katri Räikkönen3, Pathik Wadhwa2,5,6,8,9,10, Sonja Entringer1,5,6

1Charité - Universitätsmedizin Berlin, Germany; 2Department of Psychiatry, San Francisco School of Medicine, University of California, San Francisco, California, USA; 3Department of Psychology and Logopedics, University of Helsinki, Finland; 4Hospital for Children and Adolescents, Helsinki University Central Hospital, University of Helsinki, Helsinki, Finland; 5Department of Pediatrics, University of California, Irvine, California; 6Development, Health and Disease Research Program, University of California, Irvine, California; 7Department of Biochemistry and Biophysics, University of California, San Francisco, California, USA; 8Department of Microbiology and Immunology, University of California, San Francisco, California, USA; 9Development, Health and Disease Research Program, University of California, Irvine, School of Medicine, Irvine, California, USA; 10Department of Obstetrics & Gynecology, University of California, Irvine, School of Medicine, Irvine, California, USA

P 097  Exposure to stress early in life and BDNF modulation: role of miRNAs

Valentina Zonca1,2, Nadia Cattaneo2, Elona Ndoj2, Carmine Pariante1, Annamaria Cattaneo1,2

1King's College London, Institute of Psychiatry, Psychology and Neuroscience; 2IRCCS Fatebenefratelli San Giovanni di Dio, Biological Psychiatry Laboratory

P 098  Vulnerability and resilience to chronic stress exposure: basal changes and responsiveness to a dexamethasone challenge

Veronica Begni1, Giulia Longoni1, Alice Sanson1, Mariusz Papp2, Marco Andrea Riva1

1Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy; 2Institute of Pharmacology, Polish Academy of Sciences, Krakow, Poland
P 099 Convergent effects of religion/spirituality- or mindfulness-based cognitive reappraisals on affective and physiological functioning

**Brandy Sky Martinez, Cindy Bergeman, Jessica Payne**

*University of Notre Dame, United States of America*

P 100 Preliminary data on the Influence of Transcutaneous Vagus Nerve Stimulation on Memory

**Veronika Vasendova¹, Julian Koenig²,³, Marta Jackowska⁴, Vera K Jandackova¹**

¹Dept of Epidemiology & Public Health, Faculty of Medicine, University of Ostrava, Czech Republic; ²Section for Experimental Child and Adolescent Psychiatry, Department of Child and Adolescent Psychiatry, Centre for Psychosocial Medicine, University of Heidelberg, Heidelberg, Germany; ³University Hospital of Child and Adolescent Psychiatry and Psychotherapy, University of Bern, Bern, Switzerland; ⁴Psychology Department, Roehampton University, UK.

P 101 Testosterone administration increases social discounting in healthy males

**Yin Wu**

*Shenzhen University, China, People’s Republic of China*

P 102 The Psychoneuroimmunological Effects of Heart Rate Variability Biofeedback in Prediabetes Individuals: A Randomized Controlled Trial

**Yu-Ju Chen¹, Chieh-Hua Lu², Chien-Hsing Lee², Chang-Hsun Hsieh², Wen-Hui Fang², Shi-Yu Chen²**

¹National Defense Medical Center, Taiwan; ²Tri-Service General Hospital, Taiwan

P 103 Reduced cortisol secretion in Parkinson’s disease with mild cognitive impairment in response to endurance exercise

**Nina Smyth¹, Elizabeth Skender², Miranda Munoz², Fabian David², Giamila Fantuzzi¹, Angela Clow¹, Jennifer Goldman², Daniel Corcos²**

¹University of Westminster, London, United Kingdom; ²Northwestern University Feinberg School of Medicine, Chicago USA; ³University of Illinois, Chicago USA

P 104 The effects of stress on exposure-based therapy outcome

**Friederike Raeder, Franziska Heidemann, Christian Merz, Oliver Wolf, Jürgen MARGraf, Armin Zlomuzica**

*Ruhr University Bochum, Germany*

P 105 A comparison of emotional memory recognition following a religion/spirituality- or mindfulness-based reappraisal intervention

**Brandy Sky Martinez, Sara Yunha Kim, Jessica Payne, Cindy Bergeman**

*University of Notre Dame, United States of America*
Awakening cortisol response and perceived stress decrease after quick massage intervention in nursing professionals

Talita Pavarini Borges Souza, Juliana Nery Souza-Talarico, Gisele Kuba, Ruth Turrini
School of Nursing, University of São Paulo, Brazil

Socioeconomic status is linked to daily cortisol through social activities in older African-American adults

Samuele Zilioli, Heather Fritz, Wassim Tarraf, Susan Lawrence, Malcolm Cutchin
Wayne State University, United States of America

Physiologic correlates of culture-bound dissociation: A comparative study of Brazilian spiritist mediums and controls

Marco Aurélio Vinhosa Bastos Jr., Paulo Roberto Haidamus de Oliveira Bastos, Igraine Helena Scholz Osório, Sérgio Augusto Monteiro Pinheiro, Décio Iandoli Jr., Giancarlo Lucchetti
1 Federal University of Mato Grosso do Sul, Brazil; 2 Hospital of the Armed Forces, Brazil; 3 Anhanguera- Uniderp University, Brazil; 4 Federal University of Juiz de Fora, Brazil

Comparing the detection of endogenous psychedelics in individuals with and without alleged mediumistic experiences

Marco Aurélio Vinhosa Bastos Jr., Paulo Roberto Haidamus de Oliveira Bastos, Maria Lucília dos Santos, Décio Iandoli Jr., Renata Boschi Portella, Giancarlo Lucchetti
1 Federal University of Mato Grosso do Sul, Brazil; 2 University of Brasilia - Institute of Chemistry, Brazil; 3 Anhanguera- Uniderp University, Brazil; 4 Federal University of Juiz de Fora, Brazil

Emotional Pathways to the Biological Embodiment of Racial Discrimination Experiences

Emily F. Hittner, Emma K. Adam
1 School of Education and Social Policy, Northwestern University, United States; 2 Institute for Policy Research, Northwestern University, United States

Investigating the moderating influence of childhood adversity on the relationship between acute stress and reward learning

Cindy Tao, Suzanne Erb
University of Toronto, Canada
Erenumab safety and efficacy in migraine: a systematic review and meta-analysis of randomized clinical trials

Changyu Zhu1,2, Rongsheng Tong1,2, Jianmei Guan3, Hua Xiao1,2, Weinan Luo1,2
1University of Electronic Science and Technology of China, China, People’s Republic of; 2Department of Pharmacy, Sichuan Academy of Medical Sciences & Sichuan Provincial People’s Hospital; 3Sichuan Academy of Medical Sciences and Sichuan Provincial People’s Hospital

Relationship between melatonergic and thyroid systems in depression

Fabrice Duval1, Marie-Claude Mokrani2, Alexis Erb1, Felix Gonzalez1, Cecile Calleja1, Veronique Raverot2, Paul Pevet3
1APF2R, France; 2Service d’hormonologie, groupement Est, Hospices civils de Lyon, France; 3UPR 312 CNRS, Strasbourg University, France

Neuroendocrine Assessment of Dopaminergic Function during Antidepressant Treatment in Major Depressed Patients

Fabrice Duval, Marie-Claude Mokrani, Alexis Erb, Felix Gonzalez, Vlad Danila
APF2R, France

Anhedonia and dopamine activity in depression

Fabrice Duval, Marie-Claude Mokrani, Alexis Erb, Felix Gonzalez, Vlad Danila
APF2R, France

Cocaine use disorder is associated with changes in th1/th2/th17 cytokines and lymphocyte subsets – role of withdrawal symptoms

Rodrigo Grassi-Oliveira1,2, Thiago W. Viola1,2, Jaqueline Schuch2, Breno Sanvicente-Vieira1,2, Moises Bauer2, Carine Hartmann Prado2, Aline Zaparte1,2
1Brain Institute, Brazil; 2Pontifical Catholic University of Rio Grande do Sul, Brazil

Momentary Associations between Positive and Negative Emotions and Salivary Cortisol among Healthy Adults: A Quantitative Systematic Review and Recommendations

Natariya Tennille Joseph
Pepperdine University, United States of America

Testosterone, Cortisol, and Competitive Will in Men and Women

Kathleen Casto1, David Edwards2
1New College of Florida, USA; 2Emory University, USA
P 119  Differential washout effect of five steroid hormones incorporated into hair: Can we compute a retrospective stress hormone calendar?

Wei Gao¹, Eglė Mazgelytė², Liz Leutner¹, Clemens Kirschbaum¹
¹Faculty of Psychology, Technische Universität Dresden, Germany; ²Institute of Biomedical Sciences, Faculty of Medicine, Vilnius University, Lithuania

P 120  Sex hormones and the perception of attractiveness in middle-aged and elderly women – findings from the Women 40+ Healthy Aging Study

Laura Mernone¹², Serena Fiacco¹², Ulrike Ehlert¹²
¹Clinical Psychology and Psychotherapy, Institute of Psychology, University of Zurich, Switzerland; ²University Research Priority Program Dynamics of Healthy Aging, University of Zurich, Switzerland

P 121  How does the perception of time change after a mild stressful event?

Anna Tonon Appiani¹, Brent Parsons¹, Michele Furlan¹, Oliver T. Wolf², Domenica Bueti¹
¹International School for Advanced Studies (SISSA), Trieste, Italy; ²Ruhr University Bochum (RUB), Bochum, Germany

P 122  Relationship between personality and hypothalamic-pituitary-adrenocortical axis: are there gender differences?

José Antonio Monreal¹², Neus Salvat-Pujol¹³⁴, Alex González-Rodríguez¹, Mikel Urretavizcaya²³⁴, José Manuel Crespo²³⁴, Roser Nadal¹₂, Mikel Etxandi⁴, Diego Palao¹², José Manuel Menchón²³⁴, Javier Labad¹², Virginia Soria²³⁴
¹Department of Mental Health, Parc Taulí Hospital Universitari, I3PT, Universitat Autònoma de Barcelona, Sabadell, Spain; ²Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), Carlos III Health Institute, Spain; ³Department of Clinical Sciences, School of Medicine, Universitat de Barcelona, Barcelona, Spain; ⁴Department of Psychiatry, Bellvitge University Hospital, Bellvitge Biomedical Research Inst(RIDIBELL), Neurosciences Group - Psychiatry and Mental Health. Barcelona, Spain; ⁵Institut de Neurociències, Universitat Autònoma de Barcelona, Cerdanyola del Vallès, Spain

P 123  Applying biomarkers in psychiatry: paving the way towards precision psychiatry

Victor Kallen¹, Brisa Fernandes²
¹The Dutch Organization for Applied Sciences, TNO, Netherlands, The; ²University of Toronto, School of Medicine, Department of Psychiatry, Canada.

P 124  Deficiency of serotonin at central or peripheral level alters neuroplastic and epigenetic mechanisms in adult rats

Giulia Sbrini¹, Paola Brivio¹, Natalia Alenina²³, Judith Homberg⁴, Francesca Calabrese¹
¹Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy; ²Cardiovascular and Metabolic Diseases, Max-Delbrück-Center for Molecular Medicine (MDC), Berlin, Germany; ³Charité-University Medicine, Berlin, Germany; ⁴Institute of Translational Biomedicine, St. Petersburg State University, St. Petersburg, Russia; ⁵Department of Cognitive Neuroscience, Centre for Neuroscience, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center, Nijmegen, The Netherlands
P 125    Adverse effects of chemotherapy for testicular cancer on mouse behavior

Veronika Borbélyová¹, Emese Renczés¹, Michal Chovanec²,³,⁴, Michal Mego²,³,⁴, Peter Celec¹,⁵,⁶
¹Institute of Molecular Biomedicine, Faculty of Medicine, Comenius University, Bratislava, Slovakia; ²2nd Department of Oncology, Comenius University, Faculty of Medicine & National Cancer Institute, Bratislava, Slovakia; ³Translational Research Unit, 2nd Department of Oncology, Comenius University, Faculty of Medicine & National Cancer Institute, Bratislava, Slovakia; ⁴Department of Medical Oncology, National Cancer Institute, Bratislava, Slovakia; ⁵Institute of Pathophysiology, Faculty of Medicine, Comenius University, Bratislava, Slovakia; ⁶Department of Molecular Biology, Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia

P 126    Epigenetic alterations of the oxytocin receptor gene in obsessive-compulsive disorder

Chun Il Park¹,², Hae Won Kim¹,³, Jee In Kang¹,², Se Joo Kim¹,²
¹Institute of Behavioral Science in Medicine, Yonsei University College of Medicine, Seoul, Republic of Korea; ²Department of Psychiatry, Yonsei University College of Medicine, Seoul, Republic of Korea; ³Department of Medical Education, Yonsei University College of Medicine, Seoul, Republic of Korea

P 127    Sex-specific effects of intranasal oxytocin on intergroup competition

Salomon Israel¹, Boaz Cherki¹, Eyal Winter¹, David Mankuta²
¹Hebrew University, Israel; ²Hadassah Ein-Kerem University Hospital, Israel

P 128    Memory function and levels of cortisol during late pregnancy

Sivan Raz¹,²
¹Tel-Hai College, Psychology Department, Israel; ²Yezreel Valley College, The Center for Psychobiological Research, Israel

NOTES
How early adversities get under the skin: A behavioral epigenetics perspective across human development
CHAIR: Livio Provenzi | Italy
DISCUSSANT: Lourdes Fañanás | University of Barcelona, Spain
LOCATION: Room Galilei ABC

Environmental-sensitive methylation in preterm infants: Early pain-related stress contributes to socio-emotional programming in infancy and childhood
Livio Provenzi\textsuperscript{1}, Monica Fumagalli\textsuperscript{2}, Roberto Giorda\textsuperscript{1}, Francesco Morandi\textsuperscript{3}, Fabio Mosca\textsuperscript{2}, Rosario Montirosso\textsuperscript{1}, Renato Borgatti\textsuperscript{1}
\textsuperscript{1}Scientific Institute IRCCS E. Medea, Italy, \textsuperscript{2}Università degli Studi di Milano, Italy, \textsuperscript{3}Ospedale Fatebenefratelli, Erba, Italy

The impact of puberty in HPA axis deregulation after exposure to childhood maltreatment
Helena Palma-Gudiel\textsuperscript{1}, Laia Marques-Feixa\textsuperscript{2}, Agueda Castro-Quitas\textsuperscript{2}, Lourdes Fañanás\textsuperscript{2}
\textsuperscript{1}University of Barcelona, Spain, \textsuperscript{2}University of Barcelona, Spain

Oxidative stress in the stress-health relationship: A pilot study in high-risk adolescents
Sarah R. Horn\textsuperscript{1}, Leslie D. Leve\textsuperscript{1}, Pat Levitt\textsuperscript{2}, Philip A. Fisher\textsuperscript{1}
\textsuperscript{1}University of Oregon, USA, \textsuperscript{2}University of Southern California, USA

Parental caregiving and the epigenome: Opportunities and challenges
Eva Unternaehrer\textsuperscript{1}, Shantala Hari Dass\textsuperscript{2}
\textsuperscript{1}University of Constance, Germany, \textsuperscript{2}McGill University, Canada

NOTES
Nutrition and inflammation in psychiatry

CHAIR
Kuan-Pin Su | College of Medicine China Medical University Taiwan
DISCUSSANT
Carmine M Pariante | King's College London
LOCATION
Cristalli

Omega-3 fatty acids in the treatment of inflammation-related depression

Kuan-Pin Su¹
¹College of Medicine China Medical University Taiwan, Taiwan

Enriched brain omega-3 polyunsaturated fatty acids confer neuroprotection against microinfarction

Huanxing Su¹
¹University of Macau

Cortisol, inflammatory biomarkers and neurotrophins in children and adolescents with attention deficit hyperactivity disorder (ADHD)

Carmine M. Pariante¹
¹King's College London

Rescue of cytokines-induced reduction of human neurogenesis and increase in apoptosis by omega-3 fatty acids

Alessandra Borsini¹
¹King's College London, UK

NOTES
SYMPOSIUM 3

TIME  Friday, 30/Aug/2019: 8:30 - 10:00

Cortisol measures in saliva and hair: What is their biological meaning and scientific utility?

CHAIR  James L Abelson | University of Michigan, United States of America
DISCUSSANTS  Clemens Kirschbaum | Technische Universität Dresden
James Herman | University of Cincinnati
LOCATION  Cartesio

Does salivary cortisol reflect key regulatory control aspects HPA axis functioning in healthy humans?

James L Abelson¹, Brisa Sanchez¹, Xingyu Zhang¹, Israel Liberonz², Hedieh Briggs¹, Jonathan Skaza¹
¹Univ of Michigan, ²Texas A&M University

How does hair cortisol assessment correspond to saliva measures and to lab-based probes of HPA axis regulatory function?

Stefanie E Mayer¹, James L Abelson², Hedieh Briggs², Jonathan Skaza², Clemens Kirschbaum³, Tobias Stalder⁴
¹Univ of California, San Francisco, ²Univ of Michigan, ³Technische Universität Dresden, ⁴Universität Siegen

Hair cortisol: What we know and what we don’t (yet)

Clemens Kirschbaum
Technische Universität Dresden

Daily diurnal salivary curves: Are they too noisy to be useful?

James L Abelson¹, Clemens Kirschbaum², James Herman³, Jonathan Skaza¹, Brisa Sanchez¹
¹Univ of Michigan, ²Technische Universität Dresden, ³Univ of Cincinnati

NOTES
Early life adversity’s impact on brain and body: Understanding disrupted circuits to identify preventive strategies

CHAIR   Andreas Menke | University Hospital of Wuerzburg, Germany
DISCUSSANT  Nadia Cattane | Universita degli studi di Brescia
LOCATION  Galilei ABC

Systems Biology of vulnerability and resilience: Adaptation to early life adversity?

Nikolaos P. Daskalakis
*Harvard Medical School, USA*

Interaction between inflammation and the microbiome in stress vulnerability to depression

Annamaria Cattaneo
*Universita degli studi di Brescia, Italy*

FKBP5 as moderator of childhood trauma effects in depression and heart disease

Andreas Menke
*University Hospital of Wuerzburg, Germany*

**NOTES**
SYMPOSIUM 5

TIME
Friday, 30/Aug/2019: 10:30 - 12:00

Neuroendocrine patterns in a social world:
Oxytocin and interpersonal relationships in health and disease

CHAIRS
Mark A Ellenbogen | Concordia University, Canada
Beate Ditzen | Heidelberg University
DISCUSSANT
Larry Young | Emory University
LOCATION
Cristalli

Variation in the CD38 gene predicts communal behavior, partner perceptions, felt security and adjustment in romantic relationships in daily life

Jennifer A Bartz, Gentiana Sadikaj, Debbie S Moskowitz, David C Zuroff
McGill University

Oxytocin and instructed couple interaction’s effects on immune responses to acute dermal wound-application

Corina Aguilar-Raab\textsuperscript{1}, Severin Läuchli\textsuperscript{1}, Guy Bodenmann\textsuperscript{1}, Markus Heinrichs\textsuperscript{2}, Ulrike Ehrlert\textsuperscript{3}, Beate Ditzen\textsuperscript{1}
\textsuperscript{1}Heidelberg University, \textsuperscript{2}University of Freiburg, \textsuperscript{3}University of Zurich

Biased face processing: Oxytocin promotes avoidance in social anxiety

Wolf-Gero Lange, Désirée Zieba, Frank Vitinius, Alexander L. Gerlach
Radboud University Nijmegen

Intranasal oxytocin improves subjective ratings of the therapeutic alliance during psychotherapy for major depressive disorder

Mark A Ellenbogen, Christopher Cardoso, Lisa Serravalle, Florencia Trespalacios
Concordia University

No effect of distinct mental training types on basal or stress-induced plasma oxytocin levels

Veronika Engert, Pascal Vrticka, Tania Singer
Max Planck Institute for Human Cognitive and Brain Sciences
SYMPOSIUM 6

TIME  Friday, 30/Aug/2019: 10:30 - 12:00

Social support and cortisol regulation in younger populations: Implications and potential for intervention

CHAIRS  Julie Turner-Cobb | Bournemouth University
        Samantha Dockray | University College Cork, Ireland
DISCUSSANT  Andrew Steptoe | University College London
LOCATION  Cartesio

Lean on Me: The psychobiological burden of caregiving

Mark Wetherell, Brian Lovell
Northumbria University

An examination of hair cortisol in young caregivers: Social support and resilience

Tamsyn. A. Hawken¹, Julie Turner-Cobb², Julie Barnett¹
¹University of Bath, UK, ²Bournemouth University

The ups and downs of the social life of adolescents: Cortisol and social competence

Samantha Dockray, Eadaoin Whelan
University College Cork

Supporting Ethnic-Racial Identity: Implications for Diurnal Cortisol Activity

Emma. K. Adam¹, Emily Hittner², Sara Thomas², Ednah Nwafor², Jacqueyln Stephens², Sarah Collier²
¹Northwestern University, USA, ²Northwestern University

NOTES
SYMPOSIUM 7

TIME  
Friday, 30/Aug/2019: 16:30 - 18:00

Neuroendocrine patterns in a social world:
Oxytocin and interpersonal relationships in health and disease

CHAIRS  
Carmine M Pariante | King’s College London  
Katri Räikkönen | University of Helsinki

DISCUSSANT  
Sonja Entringer | Charité, Berlin

LOCATION  
Galilei ABC

Transcriptomics of postpartum psychosis identifies both hormonal and immune markers

Anna Cattaneo  
Fatebenefratelli, Brescia

Maternal inflammation: A predictor and a mediator between prenatal environmental adversities and child neurodevelopmental delay

Katri Räikkönen  
University of Helsinki

Modeling prenatal depression in mice: Behavioral and molecular consequences and the impact of antidepressant treatment

Juliet Richetto  
University of Zurich

Maternal Intrusive Parenting and Infant Regulation of Negative Affect – The Moderating Role of a Functional Oxytocin Receptor Gene (OXTR) Variant

Philip Töpfer  
Charité, Berlin

NOTES
SYMPOSIUM 8

Selected oral communications

CHAIR  |  Marco Riva | Italy
LOCATION |  Cristalli

Epigenetic mechanisms underlying the stress-induced activation of SGK1

Nadia Cattane1, Cristina Mora1, Monica Mazzelli1, Marco Andrea Riva2, Carmine Maria Pariante3, Annamaria Cattaneo1,3
1Biological Psychiatry Laboratory, IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli, Brescia, Italy; 2Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy; 3Stress, Psychiatry and Immunology Laboratory, Department of Psychological Medicine, Institute of Psychiatry, King’s College London, London, UK

Exploring the potential moderating or mediating effects of hypothalamic-pituitary-adrenal axis activity in the relationship between childhood trauma and cognition in major depression

Javier Labad1,2, Neus Salvat-Pujol3, Mikel Urretavizcaya2,3, Aida de Arriba-Arnau3, José Manuel Crespo2,3, José Manuel Menchon2,3, Virginia Soria2,3
1Parc Taulí Hospital Universitari, Department of Mental Health, I3PT, Universitat Autònoma de Barcelona. Sabadell, Barcelona. Spain; 2Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), Spain; 3Bellvitge Biomedical Research Institute (IDIBELL), Neurosciences Group - Psychiatry and Mental Health, Universitat de Barcelona. L’Hospitalet de Llobregat, Barcelona, Spain

Grandma’s stress programs transgenerational transmission of hippocampal glutamatergic synaptopathy associated with stress-related responses

Sara Morley-Fletcher1, Jordan Marrocco2, Helène Leger1, Jerome Mairesse4, Marie-Line Reynaert5, Gilles Van Camp1, HammouBouwalher1, Arndt Benecke6, Muriel Darnaudery7, Anne Harduin-Lepers1, Ferdinando Nicoletti8, Ferdinando Nicoletti9, Stefania Maccari1,8
1Univ. Lille -UMR8576 UGSF CNRS France; 2Laboratory of Neuroendocrinology, The Rockefeller University, New York, USA; 3Department of Biomedical Sciences School of Veterinary Medicine University of Pennsylvania, Philadelphia, USA; 4Division of Neonatology, Department of Pediatrics, University of Geneva, Geneva, Switzerland; 5Pasteur Institute, Lille France; 6Université Pierre et Marie Curie-UMR8246 CNRS, France; 7University Bordeaux UMR INRA 1286-Nutrineuro; 8Sapienza University of Rome Italy; 9IRCCS Neuromed Pozzilli Italy

Maternal Depressive Symptoms and Pro-Inflammatory State During Pregnancy

Theresa Kleih1, Sonja Entringer1,3, Laura Scholaske1, Karin DePunder1, Pathik D.Wadhwa2,3,4,5,6, Claudia Buss1,3,6
1Charité – Universitätsmedizin Berlin, Institute of Medical Psychology, Charitéplatz 1, 10117 Berlin, Germany; 2Department of Psychiatry & Human Behavior, University of California, Irvine, California 92617, USA; 3Department of Pediatrics, University of California, Irvine, California 92617, USA; 4Department of Obstetrics & Gynecology, University of California, Irvine, California 92617, USA; 5Department of Epidemiology, University of California, Irvine, California 92617, USA; 6Development, Health and Disease Research Program, University of California, Irvine, California, 92617, USA.
Timing of exposure to early adversity and physiological stress in adulthood: The importance of considering brain development phases

Catherine Raymond, Victoria Wolosianski, Charlotte Longpré, Sarah Leclaire, Sonia Lupien
Centre for studies on human stress, Canada

Victims of War: Hair Cortisol and DHEA and their associations with Trauma Sequelae and Resilience in Adolescents living in the West Bank

Lena Schindler¹, Mohammed Shaheen², Rotem Saar-Ashkenazy³⁴, Kifah Bani Odeh², Sophia-Helen Sass¹, Hermona Soreq⁵, Alon Friedman⁶, Clemens Kirschbaum¹

¹Technische Universität Dresden, Germany; ²Faculty of Public Health, Al-Quds University, Ramallah, West Bank - Palestine; ³Department of Cognitive Neuroscience and Zlotowski Center for Neuroscience, Ben-Gurion-University of the Negev, Beer-Sheva, Israel; ⁴Department of Psychology and School of Social Work, Ashkelon Academic College, Ashkelon, Israel; ⁵The Edmond and Lily Safra Center of Brain Science and the Department of Biological Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel; ⁶Department of Medical Neuroscience, Faculty of Medicine, Dalhousie University, Halifax, Nova Scotia, Canada

NOTES
The Cortisol Awakening Response (CAR): The first ultradian episode of the day: Insights and new approaches to measurement

CHAIR  Nina Smyth | University of Westminster
DISCUSSANTS  Nina Smyth | University of Westminster
            Angela Clow | University of Westminster
LOCATION  Cartesio

CAR Salience and its association with cognitive performance in an older population

Phil Evans, Nina Smyth, Lisa Thorn, Angela Clow  
*University of Westminster*

What about the variability of the cortisol awakening response?

Nina Smyth, Maria Flynn, Phil Evans, Lisa Thorn, Angela Clow  
*University of Westminster*

The effects of light exposure on the cortisol awakening response in healthy individuals

Katja Petrowski¹, Bjarne Schmalbach², Tobias Stalder³  
¹University of Mainz, ²University Muenster, ³University of Siegen

Flipping the script – user-centred design approaches to increase adherence to sampling in ecological settings

Samantha Dockray¹, Nina Smyth², Maria Flynn², Eadaoin Whelan¹  
¹University College Cork, ²University of Westminster

NOTES
SYMPOSIUM 10

TIME Saturday, 31/Aug/2019: 8:30 - 10:00

Too stressed or not stressed enough?
Disentangling cortisol blunting from non response

CHAIRS Martha E. Wadsworth | The Pennsylvania State University
Holly T. Pham | The Pennsylvania State University

DISCUSSANT Megan R. Gunnar | University of Minnesota

LOCATION Cristalli

American Indian adults display diminished cortisol and cardiovascular responses to acute psychological stress

Annie T. Ginty¹, Cory J. Counts², Neha A. John-Henderson²
¹Baylor University, ²Montana State University

Delving deeper into dysregulation: An investigation of underlying differences between cortisol blunting and non-response to the TSST

Holly T. Pham, Celina M. Joos, Martha E. Wadsworth
The Pennsylvania State University

Is it me or your stressor?

Kate Ryan Kuhlman¹, James L. Abelson², Stefanie E. Mayer³, Elizabeth A. Young²
¹University of California, Irvine; University of California, Los Angeles, ²University of Michigan, ³University of California, San Francisco

NOTES
Impact of different characteristics of early adversity on stress related endophenotypes and mental health problems

**CHAIRS**  
Elif Aysimi Duman | Bogazici University  
Emma Adam | Northwestern University

**DISCUSSANT**  
Andrea Danes | King's College London

**LOCATION**  
Cartesio

**Experiences of Adversity in Childhood and Adolescence and Cortisol in Late Adolescence**

Courtenay Kessler¹, Suzanne Vrshek-Schallhorn², Susan Mineka¹, Richard E. Zinbarg¹, Michelle Craske³, Emma K. Adam¹  
¹Northwestern University, ²University of North Carolina-Greensboro, ³University of California Los Angeles

Association between a cumulative index of social and economic adversity and hair cortisol concentration in a population-based sample of adolescents: A lifetime prospective study

Isabelle Ouellet-Morin¹, Christina Cantave², Stéphane Paquin², Sylvana Côté³, Michel Boivin⁴  
¹University of Montreal & The Research Center of the Montreal Mental Health University Institute, ²University of Montreal, ³University of Montreal & University of Bordeaux, ⁴Laval University

Differential patterns of diurnal cortisol by home and daycare chaos in young children

Elif Aysimi Duman¹, Feyza Corapci¹  
¹Bogazici University

Immediate biological embedding of maltreatment in children: Moderating effects of FK506 binding protein 5 (FKBP5) gene on cortisol reactivity and amygdala volume in children aged 3 to 5 years

Judith Overfeld¹, Claudia Buss², Karin de Punder¹, Sybille-Maria Winter¹, John-Dylan Haynes³, Elisabeth B. Binder⁴, Christine Heim¹  
¹Charité - Universitätsmedizin Berlin, ²Charité - Universitätsmedizin Berlin & University of California Irvine, ³Charité - Universitätsmedizin Berlin & Humboldt-Universität zu Berlin, ⁴Max Planck Institute of Psychiatry & Emory University School of Medicine

Dysregulation in early life is a marker of persistent regulatory problems

Alina Rodriguez  
University of Lincoln
SYMPOSIUM 12

TIME  
Saturday, 31/Aug/2019: 10:30 - 12:00

Stress and the cognitive regulation of emotions: Characterizing the bidirectional interaction

CHAIR  Oliver T. Wolf | Ruhr University Bochum, Germany
DISCUSSANT  Michèle Wessa | University Mainz, Germany
LOCATION  Galilei ABC

Disrupted upregulation of salience network connectivity during acute stress in siblings of schizophrenia patients

Judith M.C. van Leeuwen1, C.H. Vinkers2, M. Vink2, R.S. Kahn3, M. Joëls2, E.J. Hermans1
1Donders Institute for Brain, Cognition, and Behaviour, Netherlands, 2UMC Utrecht, Netherlands, 3DUMC Utrecht, Netherlands

Frontal emotion regulation capacity predicts acute cortisol-responses as well as long term resilience to post-traumatic stress: Evidence from a prospective longitudinal study

Reinoud Kaldewaij, Wei Zhang, Mahur Hashemi, Floris Klumpers, Saskia Koch, Karin Roelofs
Donders Centre for Cognitive Neuroimaging, Radboud University Nijmegen

Emotion regulation under stress

Magdalena Sandner, Jerome Rimpel, Peter Zeier, Michèle Wessa
Department of Clinical Psychology and Neuropsychology, Institute for Psychology, Johannes Gutenberg-University Mainz, Germany

Time-dependent effects of acute stress and pharmacological glucocorticoid administration on cognitive emotion regulation

Valerie L. Jentsch, Katja Langer, Oliver T. Wolf
Cognitive Psychology, Ruhr University Bochum, Germany

NOTES
SYMPOSIUM 13

TIME       
Saturday, 31/Aug/2019: 10:30 - 12:00

Sexual steroids during the course of female life

CHAIR   Ulrike Ehlert | University of Zurich, Switzerland
DISCUSSANT  Jussi Jokinen | Umeå University, Sweden
LOCATION  Cristalli

Scent of a Woman: Are body odours cues to potential female fertility?

Janek Lobmaier¹, Urs Fischbacher², Urs Withmüller³, Daria Knoch⁴
¹University of Bern, Switzerland, ²Department of Economics, University of Konstanz, Konstanz, Germany, ³Universitätinsitut für Klinische Chemie, University of Bern, Bern, Switzerland

Cardiac vagal activity across the menstrual cycle

Katja M. Schmalenberger¹, Tory A. Eisenlohr-Moul², Monika Eckstein¹, Lena Würth¹, Ekaterina Schneider¹, Julian F. Thayer³, Marc N. Jarczok⁴, Beate Ditzen¹
¹Institute of Medical Psychology, Center for Psychosocial Medicine, University Hospital Heidelberg, Germany, ²Women’s Mental Health Research Program, Department of Psychiatry, University of Illinois at Chicago, USA, ³Department of Psychology, The Ohio State University, USA, ⁴Department of Psychosomatic Medicine and Psychotherapy, Ulm University Medical Center, Germany

Allopregnanolone and progesterone in estradiol treated severe postpartum affective disorder

Marie Bendix¹, Marie Bixo², Anna-Carin Wihlbäck², Antti Ahokas³, Jussi Jokinen⁴
¹Department of Clinical Sciences, Psychiatry, Umeå University, Sweden, ²Department of Clinical Sciences, Obstetrics and Gynecology, Umeå University, Sweden, ³Mehiläinen Clinic, Finland, ⁴Department of Clinical Sciences, Psychiatry, Umeå University; Department of Clinical Neuroscience/Centre for Psychiatry Research & Stockholm Health Care Services, Stockholm County Council, Stockholm; Karolinska Institutet, Stockholm, Sweden

Early life adversity, NR3C1 and ER methylation, and healthy aging – Findings from the Women 40+ Healthy Aging Study

Serena Fiacco¹, Elena Gardini², Laura Mernone², Lea Schick³, Ulrike Ehlert²
¹URPP Dynamics of Healthy Aging Priority Program, University of Zurich, Switzerland, ²URPP Dynamics of Healthy Aging Priority Program, University of Zurich, Switzerland, ³University of Zurich

NOTES
Biomarkers of stress and care in the preterm infant: Evidence from animal models and human studies

CHAIR: Livio Provenzi | Scientific Institute IRCCS E. Medea, Italy
DISCUSSANT: Francesca Cirulli | Istituto Superiore di Sanità, Rome, Italy
LOCATION: Cartesio

Effects of Early-Stress on the Developing Brain of Preterm Infants: from the Bedside to the Bench and Back

Manon Ranger
University of British Columbia, Vancouver, Canada

Stress-activated mechanisms involving metabolic pathways converge in setting up the stage for psychopathology in response to early adversity

Francesca Cirulli
Istituto Superiore di Sanità, Roma, Italy

The effects of early stress and pain on brain development in extremely preterm infants

Maria L. Tataranno, Manon M. J. N. L. Benders
Utrecht University, Utrecht, The Netherlands

Stress exposure associates with telomere length erosion in very preterm infants

Livio Provenzi
Scientific Institute IRCCS E. Medea, Italy

Identifying risk and modifying resilience in preterm infants and animal models

Dani Dumitriu¹, Joseph Barone¹, Amie A. Hane², Robert Ludwig¹, Michael M. Myers³, Martha Welch¹
¹Columbia University Irving Medical Center, New York, USA, ²Williams College, USA, ³Sackler Institute for Developmental Psychobiology, New York
SYMPOSIUM 15

STRESS EFFECTS ON COGNITION: NEW INSIGHTS FROM BASIC AND APPLIED RESEARCH

CHAIRS AND DISCUSSIONS
Christian J. Merz | Ruhr University Bochum, Germany
Katja Wingenfeld | Charité - Universitätsmedizin Berlin, Germany

LOCATION
Galilei ABC

How stress and cognitive fatigue change the balancing between goal-directed and habitual behavior

Tom Smeets1, Conny W.E.M. Quaedflieg2
1 Tilburg University, the Netherlands, 2 Maastricht University, the Netherlands

Stress promotes the return of outgroup-related fear

Christian J. Merz, Annika Eichholtz, Oliver T. Wolf
Ruhr University Bochum, Germany

The impact of the biological stress response during acquisition and consolidation of traumatic events on intrusive memories

Stefan Roepke1, Felicitas Rombold-Bruehl1, Katharina Schultebrack1, Tolou Maslahati1, Babette Renneberg2, Julian Hellmann-Regen3, Christian Otte4, Katja Wingenfeld1
1 Charité - Universitätsmedizin Berlin, Germany, 2 Freie Universität Berlin, Germany

NTRK2 Methylation is negatively related to traumatic memory and PTSD risk in traumatized individuals and to episodic memory in healthy subjects

Vanja Vukojevic1, Navid Ghaffari1, Iris Kolassa2, Sarah Wilker3, Thomas Elbert4, Andreas Papassotiropoulos2, Dominique de Quervain1
1 University of Basel, 2 University of Ulm, 3 University of Bielefeld, 4 University of Konstanz

NOTES
SYMPOSIUM 16
This symposium is sponsored by the International Society for Neurochemistry

TIME Saturday, 31/Aug/2019: 14:30 - 16:00

The role of hormoneregulated molecular modulators in traumatic responses

CHAIRS Marla Sokolowski | University of Toronto
Hermona Soreq | The Hebrew University
DISCUSSANT Clemens Kirschbaum | Technische Universität Dresden
LOCATION Cristalli

A role for epigenetics in the molecular regulation of behavioral pleiotropy and plasticity

Marla Sokolowski
University of Toronto

Non-coding RNAs and traumatic memories

Hermona Soreq
The Hebrew University of Jerusalem

Breaking legacies of stress: Lessons from an olfactory perspective

Brian Dias
Emory University School of Medicine

Glucocorticoid exposure during hippocampal neurogenesis primes future stress response by inducing changes in DNA methylation

Nadine Provençal
Simon Fraser University

NOTES
SYMPOSIUM 17

TIME  Saturday, 31/Aug/2019: 14:30 - 16:00

Highlights from the PNEC special issue on stress and cellular aging related processes

CHAIR  Sonja Entringer | Charité Universitätsmedizin Berlin
DISCUSSANT  Idan Shalev | Pennsylvania State University
LOCATION  Cartesio

Mitochondrial psychobiology

Martin Picard
Columbia University

The transgenerational transmission of maternal adverse childhood experiences (ACEs): Insights from placental aging and infant autonomic nervous system reactivity

Stacy Drury, Kyle Esteves, Chris Jones
Tulane University

Stress and immunosenescence: The role of telomerase

Karin de Punder¹, Christine Heim¹, Pathik Wadhwa², Sonja Entringer¹
¹Charité Universitätsmedizin Berlin, ²University of California, Irvine

Comparability of biological aging measures in the National Health and Nutrition Examination Survey, 1999-2002

Waylon Hastings¹, Idan Shalev¹, Daniel W. Belsky²
¹Pennsylvania State University, ²Columbia University Mailman School of Public Health

NOTES
Identifying stress adaptive neural systems: Implications for understanding maladaptation and disease susceptibility

CHAIR Jason Radley | University of Iowa, United States of America
DISCUSSANT Victor Viau | Univ. British Columbia
LOCATION Galilei ABC

Sex differences in transcriptome profiles associated with stress HPA axis habituation

Victor Viau
Univ. British Columbia

Prefrontal circuit mechanisms accounting for the modulation of active and passive coping stress responses

Jason Radley, Shane Johnson
Univ. Iowa

Regulation of habituation to repeated homotypic stress by the paraventricular thalamic nucleus

Seema Bhatnagar, Brian Corbett
Children’s Hospital, Univ. Penn

Developmental and Experiential Mechanisms of Stress Adaptation

Jim Herman
Univ. Cincinnati

NOTES
Where it all begins: Women’s health and psychoendocrinology during pregnancy and after childbirth

CHAIR         Pearl La Marca-Ghaemmaghami | University of Zurich, Switzerland
DISCUSSANT   Ulrike Ehlert | University of Zurich, Switzerland
LOCATION     Cristalli

The hypothalamic-pituitary-gonadal (HPG) axis in female depressive disorders during gestation and postpartum - a systematic review and meta-analysis

Rita Amiel Castro, Ulrike Ehlert, Susanne Fischer
University of Zurich, Institute of Psychology, Clinical Psychology and Psychotherapy, Switzerland

Physiological and psychological factors that are associated with breastfeeding in postpartum mothers: Some findings from the Maternal Adversity, Vulnerability and Neurodevelopment study (MAVAN)

Wibke Jonas¹, Katherine Cost², Eva Unternährer³, Rossana Bisceglia⁴, Viara Mileva⁵, Aya Dundin⁶, Hélène Gaudreau⁷, Peter Szatmari⁸, James L. Kennedy⁹, Michael J. Meaney¹⁰, Leslie Atkinson¹¹, Meir Steiner¹², Ashley Wazana¹³, Alison Fleming¹⁴
¹Department of Women’s and Children’s Health, Karolinska Institutet, Sweden; Department of Psychology, University of Toronto (Mississauga), Ontario (ON), Canada; Departments of Psychiatry & Behavioral Neurosciences and Obstetrics & Gynecology, McMaster University, ²Department of Psychology, University of Toronto (Mississauga), Ontario (ON), Canada; Department of Psychiatry, The Hospital for Sick Children, Toronto, ON, Canada; ³Douglas Mental Health University Institute, Montreal, Quebec (QC), Canada; Department of Psychiatry, McGill University, Montreal, QC, Canada; ⁴Department of Psychology, University of Toronto (Mississauga), Ontario (ON), Canada; ⁵Departments of Psychiatry & Behavioral Neurosciences and Obstetrics & Gynecology, McMaster University, Hamilton, ON, Canada; ⁶Department of Psychiatry, The Hospital for Sick Children, Toronto, ON, Canada; Centre for Addiction and Mental Health (CAMH), Toronto, ON, Canada; ⁷Centre for Addiction and Mental Health (CAMH), Toronto, ON, Canada; ⁸Douglas Mental Health University Institute, Montreal, Quebec (QC), Canada; ⁹Department of Psychiatry, McGill University, Montreal, QC, Canada; ¹⁰Ludmer Centre for Neuroinformatics and Mental Health, Douglas Institute, McGill University, Montreal, QC, Canada; ¹¹Ryerson University, Toronto, ON, Canada; ¹²Department of Psychiatry, McGill University, Montreal, QC, Canada; ¹³Ludmer Centre for Neuroinformatics and Mental Health, Douglas Institute, McGill University, Montreal, QC, Canada

Interaction between maternal thyroid hormones and depression symptoms during pregnancy on child behavioral/emotional problems at 2 years of age

Nora K. Moog¹, Sonja Entringer², Pathik D. Wadhwa³, Claudia Buss²
¹Institute of Medical Psychology, Charité – Universitätsmedizin Berlin, Berlin, Germany; ²Institute of Medical Psychology, Charité – Universitätsmedizin Berlin, Berlin, Germany; UC Irvine Development, Health and Disease Research Program, University of California, Irvine, School of Medicine, Irvine, CA, USA; ³UC Irvine, Development, Health and Disease Research Program, University of California, Irvine, School of Medicine, Irvine, CA, USA; Department of Pediatrics, University of California, Irvine, School of Medicine, Orange, CA, USA
Perinatal and early life adversity-related changes in epigenetic aging and its reactivity to psychotherapy in functional somatic syndrome patients

Gunther Meinlschmidt1, Eva Unternaehrer2, Michael S. Kobor3, Julia L. MacIsaac4, Lisa M. McEwen4, Lisa Hochstrasser5, Etna Engeli6, Andrea Wegmüller7, Isabelle Kuchler8, Donja Brunner9, Canan Oezden9, Nina Kind10, Lara Büechi11, Rebekka Theill12, Stephanie Greub9, Melanie Sonderegger9, Janine Weibel13, Regula Gerber9, Roselind Lieb9

1Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; Department of Psychosomatic Medicine, Faculty of Medicine, University of Basel and University Hospital Basel, Basel, Switzerland; 2Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; Department of Psychology, University of Konstanz, Germany; 3Department of Medical Genetics, Centre for Molecular Medicine & Therapeutics, British Columbia; Children's Hospital Research Institute, University of British Columbia, Vancouver, British Columbia, Canada; 4Human Early Learning Partnership, University of British Columbia, Vancouver, British Columbia, Canada; 5Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; Psychiatric Hospital of the University of Basel, Switzerland; 6Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; Center for Addictive Disorders, Department of Psychiatry, Psychotherapy and Psychosomatics, Psychiatric Hospital, University of Zurich, CH; 7Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; Klinik im Hasel, Suchtmedizin, Ambulatorium, Lenzburg, Switzerland; 8Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; Institute of Applied Research in Neuropsychiatry, Neuropsychiatric Center Hamburg-Altona, Germany; 9Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; 10Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; Child and Adolescents Psychiatric Clinic, Psychiatric Hospital of the University of Basel; 11Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; Suchthilfe Region Basel, Therapie und Alkoholentwöhnung, Klinik ESTA, Reinach, Switzerland; 12Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; Departement Angewandte Psychologie, Zürcher Hochschule für Angewandte Wissenschaften, Switzerland; 13Division of Clinical Psychology and Epidemiology, Department of Psychology, University of Basel, Switzerland; Centre for Chronobiology, Psychiatric Hospital of the University of Basel, Switzerland

NOTES
Closing in on mechanisms associated with the onset of psychiatric disorders and related endophenotypes: New findings emerging from biologically and developmentally-informed approaches

CHAIR   Isabelle Ouellet-Morin | Université de Montréal
DISCUSSANT  Sonia J. Lupien | Université de Montréal
LOCATION  Cartesio

Gene network by environment interactions: The use of biologically-informed polygenic scores to understand the co-morbidity between metabolic and psychiatric disease

Patricia P. Silveira¹, Zihan Wang¹, Irina Pokhvisneva², Michael J. Meaney¹
¹McGill University, ²Douglas Mental Health University Institute

Association between a biologically-informed polygenic score based on the mesocorticolimbic insulin receptor gene network and at-risk individual characteristics for mental health: A replication in a population-based longitudinal cohort

Isabelle Ouellet-Morin¹, Patricia P. Silveira², Stéphane Paquin³, Stéphanie Langevin¹, Geneviève Morneau-Vaillancourt¹, Kieran J.O’Donnell², Michel Boivin³
¹Université de Montréal, ²McGill University, ³Université Laval

Maternal Prenatal Depression and Infant DNA Methylome Maturation: Developmental Regulation of DNA Methylation and Relevance for Infant Behavior

Philipp Toepfer¹, Irina Pokhvisneva², Erika Garg², Sonja Entringer³, Christine M. Heim⁴, Michael S. Kobor⁵, Nadine Provencal⁶, Elisabeth B. Binder⁷, Pathik D. Wadhwa⁸, Michael J. Meaney⁹, Claudia Buss³, Kieran J. O´Donnell¹⁰
¹Charité – Universitätsmedizin Berlin, ²Douglas Mental Health University Institute, ³Charité – Universitätsmedizin Berlin & University of California, Irvine, ⁴Charité – Universitätsmedizin Berlin & Pennsylvania State University, ⁵University of British Columbia, ⁶Simon Fraser University, ⁷Max-Planck Institute of Psychiatry & Emory University School of Medicine, ⁸University of California, Irvine, ⁹McGill University & Singapore Institute for Clinical Sciences, ¹⁰McGill University

NOTES