



2025 ANNUAL MEETING

PNI and Mental Health

June 9-12 | Bordeaux, France



PNIRS

PsychoNeuroImmunology
Research Society

Message from the President



Dear Friends, Colleagues, and Members,

Welcome to the 32nd Annual Meeting of the Psychoneuroimmunology Research Society in Bordeaux, France! We're thrilled to have you join us for what promises to be an inspiring and enriching event.

The PNIRS leadership, Scientific Affairs Committee, and organizing team are proud to present a program that explores the history, evolution, and future of PNI, particularly in light of emerging personalized approaches in mental health.

In partnership with PROPSY-EDU, the educational arm of France's National Program for Precision Psychiatry and a sponsor of this year's conference, we're pleased to offer a robust Educational Short Course on Precision Medicine in PNI. Led by Marion Leboyer, Steve Cole, and Laura Han, the course emphasizes the role of biomarkers and omics in mental health.

Our Presidential Symposium, "Back to the Future: PNI and Mental Health," will feature Raz Yirmiya, Robert Dantzer, Andrew Miller, and Carmine Pariante—pioneers whose groundbreaking work has shaped our field and brought PNI into the era of precision, "Haute Couture" mental healthcare.

This year's honorific lectures include:

- Valeria Mondelli, Norman Cousins Award Lecture: "PNI in Real Life: Breaking down the Wall"
- Jessica Bolton, Robert Ader New Investigator Lecture: "Stressed-out Microglia in the Developing Brain"
- Christine Heim, Ronald Glaser Frontiers in PNI Lecture: "Stressed Beginnings, Vulnerable Minds"
- Robert Dantzer, George Solomon Memorial Lecture: "When the Immune System Subjugates the Brain"
— returning to Bordeaux, where he built a lasting legacy in PNI research.

From Tuesday through Thursday, the scientific program features six member-sponsored symposia, six oral sessions, a poster blitz (Tuesday), and two traditional poster sessions (Wednesday and Thursday). As always, we are committed to advancing early career scientists and fostering exchanges across all career stages.

Our social events offer great opportunities for connection and collaboration. The Welcome Reception will take place on the rooftop of the conference host hotel, overlooking the city. Speed Mentoring and Early Career socials will also be held in the relaxed rooftop area, and the Trainee Mixer will take place at a nearby riverside guinguette. Our Closing Banquet will be at Château Grattequina, just outside Bordeaux, where we'll enjoy a memorable evening amid the region's architecture, cuisine, and wines.

I extend heartfelt thanks to everyone who made this meeting possible: our committee chairs and members, the PNIRS Board of Directors, and our FAIR, Financial, Membership, Training, Communications, and Nominating Committees. Special thanks to Elsevier, PROPSY-EDU, Susan Solomon, Michael Irwin, and Keith Kelley for their generous support. I'm also deeply grateful to Christopher Engeland, Ruth Barrientos, and Michael Bailey for their leadership, and to our Degnon management team—Jessica Widing, Meg Gorham, and Colleen Wainwright—as well as Florence Rouillet of PROPSY-EDU for their tireless efforts.

Thank you for being part of this exciting week. I hope you enjoy the science, the setting, and the meaningful conversations that make PNIRS such a vibrant community.

Warm regards,

A handwritten signature in purple ink, which appears to be "Lucile Capuron".

Lucile Capuron
PNIRS President

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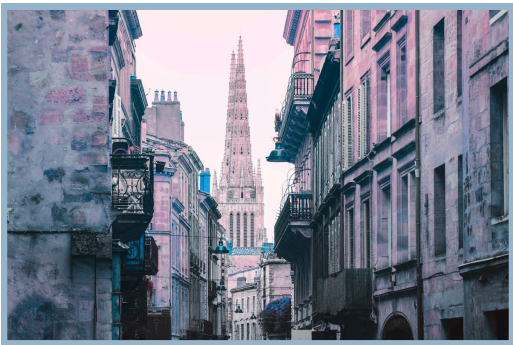
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Meeting Location

Welcome to Bordeaux, France

A remarkable setting for the PNIRS Annual Meeting, Bordeaux seamlessly blends scientific exchange with cultural discovery. Known as the world's wine capital, the city offers much more than vineyards—its rich history, elegant 18th-century architecture, and dynamic culinary scene make it a UNESCO World Heritage site worth exploring. Stroll along the scenic riverfront, visit world-class museums, or enjoy local cuisine and wine tours. Bordeaux provides a truly inspiring backdrop for both professional growth and memorable experiences.

For more details, visit Bordeaux Tourism and Congresses, the official site of the [**Bordeaux Tourism and Congresses**](#).

Meeting Locations

Our headquarters hotel, **Hotel Indigo Bordeaux Centre Chartrons**, is located in the heart of Bordeaux's Chartrons district and is directly connected to the Cité Mondiale Convention Center. Several meeting events will be held at **Le Tchanqué**, the hotel's bar and lounge **on the 7th floor**, which offers stunning views of the Garonne River and Bordeaux's rooftops.

All sessions and posters will take place at the **Cité Mondiale Convention Center**. Please see page 40 for the venue layout.



**Hotel Indigo Bordeaux
Centre Chartrons**

18 Parvis des Chartrons
33080 Bordeaux



**Cité Mondiale
Convention Centre**

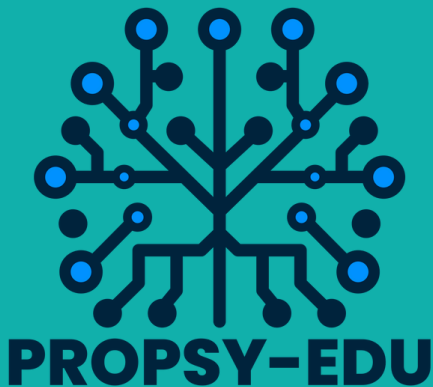
18 PARV des Chartrons,
33080 Bordeaux

2025 Sponsors

We gratefully appreciate the support of **Elsevier, Inc.** for sponsoring the Brain, Behavior, and Immunity Editorial Board luncheon, sponsoring the **Scholarship for Researchers from Underrepresented Countries** and supporting the activities of PNIRS.



ELSEVIER



fondation
fondamental

Inserm



PROGRAMME
DE RECHERCHE

PSYCHIATRIE
DE PRÉCISION

cnrs

About PNRIS

MISSION

To advance immune-brain research through interdisciplinary collaboration, diverse community support, and scientific dissemination to improve human health and behavior.

VISION

To be a global leader in advancing the understanding of immune-brain interactions to improve human health and behavior. We strive to foster a collaborative, inclusive, and innovative community of basic and clinical researchers, where the latest scientific findings are disseminated to train and educate the next generation of experts in the field.

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PNIRS CENTRAL OFFICE

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Estherina Trachtenberg, Trainee Member

General Meeting Information

Registration Desk

The registration desk is located in the Cité Mondiale Convention Centre 18 PARV des Chartrons, 33080 Bordeaux. Please check in to receive your name badge which is required at all times in order to access sessions and events. The registration desk will be open during the following hours:

Monday, June 9	10:00 - 17:15	Wednesday, June 11	08:00 - 16:15
Tuesday, June 10	08:00 - 17:30	Thursday, June 12	08:00 - 16:15

Meeting Code of Conduct

The PNIRS Annual Meeting aims to provide a forum for the exchange of ideas in a collaborative and collegial environment. All delegates, speakers, sponsors and volunteers at the Conference are required to abide by the following Code of Conduct.

- All individuals have the right to expect they will be treated with respect regardless of gender, sexual orientation, disability, physical appearance, body size, race, nationality, or religion.
- PNIRS will not tolerate harassment of participants in any form. Harassment and sexist, racist, or exclusionary comments or jokes are not appropriate. Harassment includes sustained disruption of talks or other events, inappropriate physical contact, sexual attention or innuendo, deliberate intimidation, stalking, and photography or recording of an individual without consent. It also includes offensive comments related to gender, sexual orientation, disability, physical appearance, body size, race, or religion.
- All communication should be appropriate for a professional audience including people of many different backgrounds. Sexual language and imagery is not appropriate.
- Alcoholic beverages may be provided at some PNIRS events. Should excessive alcohol consumption result in behaviour that is not respectful, PNIRS reserves the right to ask the attendee to leave the PNIRS sponsored event.
- PNIRS aims to ensure that conferences are characterised by a collegial, collaborative, supportive environment. At all times, commentary and critique should be of a constructive and respectful nature.
- Any participant who wishes to report a violation of this policy is asked to speak, in confidence, to any of the local organizing committee (LOC) members or management team member.
- We value your attendance. That is why we expect all participants to follow these rules at all conference venues or related social events.

Session Chair

Sessions Chairs should be in the designated room at least 15 minutes before the session starts in order to assist the speakers. **Please make every effort will be made to keep the session on schedule.**

Symposium and Oral Session Speakers

Speakers should arrive at their assigned room at least 15 minutes before the session begins. Use this time to check AV, upload your presentation to the session room PC, and introduce yourself to the Session Chair. **Please bring your final presentation on a flash drive and strictly adhere to your allotted time.**

Poster Blitz

A Poster Blitz will feature Trainee poster presenters in a series of very brief talks, each covering just a bite-sized bit of research on Tuesday, June 10, 15:30 - 16:30. It will offer a fast-paced overview of some of the most exciting research presented at this year's poster sessions on Wednesday and Thursday.

General Meeting Information, cont.

Poster Sessions

The Poster Sessions will be held in the **Area Bamako**. Push pins for mounting the posters will be provided. Poster size should not exceed 946mm (37 inches) wide by 1650mm (64 inches) tall. Look for your poster number in this Program Book on pages 32 - 41. Please remove your poster promptly following your poster session. Posters not removed by the designated time will be taken down and placed in the meeting registration area. Any posters left unclaimed at the end of the meeting will be discarded.

Poster Session 1: Wednesday June 11, 13:30 - 15:00

You may begin to hang your posters at 08:30 on Wednesday, June 11. Please remove your posters at the conclusion of the poster session.

Poster Session 2: Thursday, June 12, 13:30 - 15:00

You may begin to hang your posters at 08:30 on Thursday, June 12. Please remove your posters at the conclusion of the poster session.

Welcome Reception

The Welcome Reception is on Monday, June 9th from 6:00 - 8:30 pm at **Le Tchanqué** - Rooftop Restaurant at Hotel Indigo. The address is 18 Parv. des Chartrons, 33000 Bordeaux.

Speed Mentoring

The Speed Mentoring Session is on Tuesday, June 10 from 18:00 - 19:30. Trainees will meet at 18:00 to begin with a short presentation for trainees only at the **Cité Mondiale Convention Center**, followed by the speed mentoring session for all at the rooftop bar of Hotel Indigo Bordeaux – **Le Tchanqué**.

Trainee Social

The Trainee Social is on Tuesday, June 10 from 20:00 - 22:00 at **Gargalou Bordeaux**. 118 Quai de Bacalan, 33300 Bordeaux. All trainees are encouraged to attend. Conference name badge will be required for participation and drink tickets will be provided at the venue.

Early Career Researcher Social

PNIRS will host a relaxed social networking opportunity for early career researchers on Wednesday, June 11 from 18:00 - 20:00 at **Le Tchanqué** - Rooftop Restaurant at Hotel Indigo. Attendees will be responsible for the purchase of any food and drinks.

Guests

Guests accompanying registrants are welcome to attend the Opening Reception and Closing Reception as long as they have purchased a guest ticket in advance, please see the PNIRS registration desk if you would like to purchase a ticket on-site.

General Meeting Information, cont.

Phones and Wi-Fi

As a courtesy to presenters, speakers, and attendees, please switch cell phones to silent mode during events. Please leave the session if you must answer a call. WiFi will be available on the network labeled **PNIRS2025** and the password is **PNIRS2025**

You can use this QR Code to connect to the network.



Lost and Found

If you find articles left behind by other conference attendees, please bring items to the PNIRS registration desk for safe-keeping.

Certification of Attendance and Participation

A Certificate of Attendance will be emailed to you within one week following the conclusion of the meeting.

Photo Release

By registering for the PNIRS Annual Meeting, attendees consent to be photographed during the course of the event, with the understanding that these images will be used in PNIRS documents and publications only. If anyone prefers to not have their photo used by PNIRS, please contact pnirs@pnirs.org.

Pint Of Science

A scientific outreach program held in the relaxed atmosphere of a pub.

Sponsored by PROPSY-EDU

Wednesday, June 11, 19:00 -21:00

WashBar, 39 Rue Ausone, 33000 Bordeaux

Two Presentations:

- Professor Bruno Auizerate, MD, PhD – A historical perspective on psychiatry and its evolution toward precision psychiatry
- Emma Tison, PhD candidate – Using augmented reality to simulate symptoms of mental disorders, aiming to raise awareness and reduce stigma

All are welcome, but space is limited. Please contact florence.roullet@inrae.fr to reserve your spot.

Please note: the presentations will be conducted in French only.

Award Lectures

The Norman Cousins Award Lecture



The Norman Cousins Award is the highest honor bestowed by the Psychoneuroimmunology Research Society for outstanding contributions to research in the field. Norman Cousins was a passionate advocate and generous supporter of PNI, whose efforts helped launch and advance many careers in this interdisciplinary area. To further the field, his wife Ellen Cousins established the Norman Cousins Memorial Fund, and the California Wellness Foundation endowed the Memorial Award and Lecture, presented each year as a highlight of the Annual Meeting.

2025 Norman Cousins Award Lecture

PNI in Real Life: Breaking Down the Wall

Valeria Mondelli, MD, PhD

King's College London

The Robert Ader Investigator Award Lecture



In honor of Dr. Robert Ader, a pioneer in the field of psychoneuroimmunology, the Society presents the Robert Ader New Investigator Award. This prestigious award is presented to an outstanding new research scientist who has made exciting basic science or clinical contributions to the field of PNI. The award honors Dr. Ader's innovation and creativity as a scientist and recognizes his contributions to the instantiation of PNI as a meaningful endeavor dedicated to the betterment of health and the prevention of disease.

2025 Robert Ader New Investigator Award Lecture

*Stressed-out Microglia in the Developing Brain:
Exploring New Ways to Assess Microglial Function*

Jessica Bolton, PhD

Georgia State University, Atlanta, Georgia

Award Lectures cont.

The Ronald Glaser Frontiers in PNI Lecture



The **Ronald Glaser Frontiers in Psychoneuroimmunology Lecture** formerly the Frontiers in Psychoneuroimmunology Lecture, is supported in part by generous donations to the Ronald Glaser Fund. The Ronald Glaser Fund was established in 2017 to honor Ron for all his contributions to the field of psychoneuroimmunology. As a pioneer in our field, Ron made contributions that have advanced psychoneuroimmunology in many ways. His efforts provided exemplary support for colleagues, trainees and patients around the world with stress-associated illnesses. The “Frontiers” lecture will serve as recognition of Ron’s influence across a broad spectrum of biology and medicine and honor those contributions.

2025 Glaser Frontiers in PNI Award Lecture

*Stressed Beginnings, Vulnerable Minds:
Psychoneuroimmunology of Early-Life Adversity, Brain
Aging, and Dementia*

Christine Heim, PD

Charité Universitätsmedizin Berlin

George Solomon Memorial Award Lecture



The George Solomon Memorial Lecture was established in 2014 to honor one of the most influential figures in the history of psychoneuroimmunology (PNI). A true visionary, George Solomon was among the first to suggest that psychological factors could influence diseases such as autoimmune disorders. His pioneering research into the mind-body connection began with published reports in the early 1960s and continued throughout a distinguished career. Dr. Solomon was a dedicated leader in the field, a passionate advocate for the science, and a generous mentor, collaborator, and friend. Endowed by his wife, Susan Keran Solomon, this annual lecture celebrates the legacy of Dr. Solomon and the field of PNI, providing a forum to explore the vital links between psychological and physical processes in health and disease.

2025 George Solomon Memorial Lecture

When the Immune System Subjugates the Brain

Robert Dantzer DVM, PhD

University of Texas, Houston, TX

Awards

The BBI Impact Award



Professor Keith W. Kelley, spouse Sara and daughter Megan established the Brain, Behavior, and Immunity Impact Award. The goal is to promote submission and publication of high-quality, cutting-edge research in *Brain, Behavior, and Immunity* and to increase visibility and participation in the Psychoneuroimmunology Research Society. The winner is the corresponding author of the paper with the most citations from those articles published three and four years prior to the award. The Kelley Family provides an annual gift for PNIRS to present to the winner of the Brain, Behavior, and Immunity Impact Award at the PNIRS Annual Meeting.

2024 BBI Impact Award

For the most cited data-driven paper in 2023 published in *Brain, Behavior, and Immunity* in 2021 and 2022

Elsevier Scholarship for International Participation



ELSEVIER

The PNIRS FAIR Committee announces the Scholarship for Researchers from Underrepresented Countries. Through financial support provided by Elsevier, funds will be provided to support the attendance of participant(s) from underrepresented countries at the 2025 PNIRS Annual Meeting. Registrants who submitted an abstract and reside in an underrepresented country were considered.

2025 Elsevier Scholarship for International Participation

Amir Hakimjavadi

Universitat Rovira I Virgili (URV)

Awards

Michael Irwin Travel Awards



The Michael Irwin Travel Awards, made possible through a generous donation from Professor Michael Irwin, Cousins Distinguished Professor of Psychiatry and Biobehavioral Sciences at the David Geffen School of Medicine at UCLA and the Cousins Center for Psychoneuroimmunology at the UCLA Semel Institute for Neuroscience.

Travel awards help to offset the cost of attending the PNIRS Annual Meeting.

Ariel Binns, New York University

Estherina Trachtenberg, University of Cambridge

Elisa Caetano-Silva, University of Illinois

Raymond L. Moody, University of Connecticut

Rachel R. Jin, The University of Hong Kong

Sara Rezaei, University of Toronto

Katellen Blumenthal, University of California, Davis

Federico Daray, University of Buenos Aires

Sisi Li, Shanghai Jiao Tong University

Kiersten Bell, University of Texas at Austin

Izabella Bankowski, Massachusetts General Hospital

Marie Armbruster, University of Alberta

PNIRS Trainee Scholar Travel Awards



The PNIRS Trainee Scholar Travel Awards aim to facilitate attendance by trainee members at the PNIRS Annual Meeting. Awards will vary annually and are to be used to contribute to the trainees' cost of attendance at the PNIRS Annual Meeting.

Genevieve Craig, Emory University

Luca Sforzini, King's College London

Giulia Lombardo, King's College London

Emalee Andrews, Georgia State University

Ellen Jopling, Harvard University

Andrew Hynes, University of Texas at Austin

Courtney Wright, University of South Carolina

Daniel Nemeth, Florida Atlantic University

Lior Naggan, Hebrew University of Jerusalem

Tiffany Chien, University of Toronto

Rachel R. Jin, The University of Hong Kong

Zoe Tapp, The Ohio State University

Program of Events (subject to change)

Monday JUNE 9

10:00 - 17:15

Registration

Registration Hall

11:00 - 12:30

Board of Directors Meeting/Lunch

Salle Brasilla 1

12:30 - 15:30

Educational Short Course: *Precision Medicine in PNI – Biomarkers and Omics for Mental Health*

Brisbane Ampitheater

Chairs: Iris Chat, Lina Hannson, Estherina Trachtenberg (PNIRS Trainee Committee members)

French Program on Precision Psychiatry: What are the Stratification Hypothesis to Identify Homogenous Inflammatory Subgroups in Major Psychiatric Disorders?

Marion Leboyer, MD, PhD

Psychiatric disorders are heterogeneous overlapping disorders for which the field fight with difficulty to identify valid biomarkers defining homogeneous subgroups. The goal of precision medicine, as in cancer research or in cardiovascular disorder, aims at identifying homogeneous subgroups based on thorough clinical and biological evaluation, but also on the use of machine learning strategies to identify clinical and biological signatures allowing to align these subgroups with animal models, then to test mechanism-based treatments. Precision medicine is a necessary facet of a continuing commitment to personalised medicine that is intrinsic to psychiatry.

As of yet, there are different visions about this phenotypic approach. By splitting or lumping: either we are trying to identify trans-nosographical dimensions that cut across diagnostic categories or, at the other extreme of the vision, we are identifying some very precise sub-phenotypes, which may be a small percentage in the overall spectrum of disorders, but which would be based on specific biomarkers. These are the two strategies which are being used for example in the French Program on Precision Psychiatry (PEPR PROPSY). Immune dysfunction, now clearly recognized as being associated with psychiatric disorders, offers different type of biological markers at a central, peripheral or gut level, that should help to foresee homogenous subgroups. In that respect, we will describe different pathways leading to specific subgroups identified by auto-antibodies against brain receptors, or activated human endogenous retro-virus, or metabolic dysfunction or gut dysbiosis, and that could be treated with targeted immuno-modulatory treatments.

Social Genomics for Precision Immunopsychiatry, Steve Cole, PhD

Social stress is the most prominent trigger for the onset of most mental illnesses. PNI has also identified immunoregulatory contributions to a significant portion of psychiatric illnesses. This presentation integrates those two observations through the framework of human social genomics, providing a conceptual paradigm and bioinformatic tools for mapping how social stress regulates the expression of immune response genes to promote psychiatric illness, and how those pathways can be measured and targeted in precision immunopsychiatry.

Biological aging Indicators in Stress-related Disorders: Pathways towards Clinical Translation, Laura K.M. Han, PhD

Individuals with stress-related disorders, such as depression and anxiety, often show signs of an "older appearing biology" and face shorter lifespans. Emerging evidence suggests that lifestyle factors and immunometabolic dysregulation may play a central role in this connection. This raises an important question: Could lifestyle interventions that improve immunometabolic health potentially slow or even reverse biological aging in the individuals? This presentation will focus on whether biological aging indicators: (a) differ between individuals with stress-related disorders and healthy controls, (b) can predict clinical outcomes or treatment responses when assessed at baseline, and (c) demonstrate improvement alongside clinical recovery following treatment.

Program of Events (subject to change)

Monday cont. JUNE 9

15:30 - 16:00	Coffee Break <i>Reception Hall</i> (if you are a new member or first-time attendee, we invite you to connect with PNIRS leaders in the left-hand corner of the hall. Stop by and say hello!)
16:00 - 16:15	Welcome, Lucile Capuron, PhD, PNIRS President <i>Brisbane Ampitheater</i>
16:15 - 17:15	Norman Cousins Award Lecture <i>PNi in Real Life: Breaking Down the Wall</i> Valeria Mondelli, MD, PhD <i>Brisbane Ampitheater</i> Chair: Carmine Pariente
18:00 - 20:30	Welcome Reception <i>Le Tchanqué - Hotel Bar/Lounge</i> A rooftop gem offering breathtaking views of the Garonne River and Bordeaux. Connect with fellow attendees while taking in the stunning panorama of the Quartier des Chartrons.

Tuesday JUNE 10

8:00 - 17:30	Registration <i>Registration Hall</i>
8:30 - 10:30	Presidential Symposium: <i>Back to the Future: PNi and Mental Health</i> <i>Brisbane Ampitheater</i> Raz Yirmiya, PhD, Robert Dantzer, PhD, Andrew Miller, MD, PhD, Carmine Pariente, MD, PhD Chair: Lucile Capuron
10:30 - 11:00	Coffee Break <i>Area Bamako</i> (if you are a new member or first-time attendee, we invite you to connect with PNIRS leaders in the left-hand corner of the hall. Stop by and say hello!)



Program of Events cont.

Tuesday cont.

JUNE 10

11:00 - 12:30

Member Symposium 1 & 2:

Symposium 1:

Brisbane Ampitheater

What Was Still Missing in the Relationship between Inflammation and the

Brain: Robert Dantzer, DVM, PhD, University of Texas MD Anderson Cancer Center; Martin Picard, PhD, Columbia University Irving Medical Center; Carmen Sandi, PhD, École Polytechnique Fédérale de Lausanne; Marion Leboyer, MD, PhD, INSERM

This session explores how inflammation impacts brain function, behavior, and energy metabolism. Experts in immunopsychiatry, behavioral neuroscience, and mitochondrial biology will examine how immune responses alter neurotransmission, glia-neuron interactions, and brain circuitry—highlighting the metabolic demands of inflammation and their role in symptoms like fatigue and reduced motivation. The discussion will offer fresh insights into the emerging field of immunopsychiatry and its potential to inform precision medicine in mental health.

Symposium 2:

Salle Brassilla 2 & 3

Microbial Mediators of Mucosa and Mind: Decoding the Gut-Brain Axis in

Health and Disease: Jacob Allen, PhD, University of Illinois at Urbana-Champaign; Elisa Caetano Silva, PhD, University of Illinois at Urbana-Champaign; Frank Duca, PhD, University of Arizona; Elisa Hill, PhD, RMIT

The gut-brain axis is a dynamic communication network linking the gastrointestinal tract, microbiota, immune system, and central nervous system, profoundly influencing health and disease. This symposium will bring together an international and diverse group of speakers to highlight cutting-edge research on gut microbes, uncovering their critical roles in shaping neurodevelopment, behavior, immunity and metabolism through the lens of the gut-brain axis. This multidisciplinary series of presentations will provide fresh insights and identify new therapeutic targets to mitigate neurodevelopmental disorders and metabolic diseases

12:30 - 14:00

Lunch on your own

12:30 - 14:00

BBI Editorial Board Lunch (invitation only)

Salle Brasilia 1

14:00 - 15:00

Oral Session 1 + 2

14:00 - 14:15

Oral Session 1:

Brisbane Ampitheater

Chair: Laura Fonken

The Epigenetic Impacts of Pubertal Acceleration Following Early Caregiver Disruptions

Ellen Jopling, PhD, Harvard Medical School; Stacy Drury, MD, PhD, Boston Children's Hospital; Nathan Fox, PhD, University of Maryland; Charles Zeanah, PhD, Tulane University; Charles Nelson, PhD, Harvard Medical School

Program of Events cont.

Tuesday cont. JUNE 10

14:15 - 14:30	<i>Modulation of the Inflammatory Response in Humans by Attention</i> Liron Rozenkrantz, Bar-Ilan University
14:30 - 14:45	<i>Trajectories of Inflammation in Youth and Risk of Mental and Cardiometabolic Disorders in Adulthood</i> Edward Palmer, MBBS, University of Birmingham; Isabel Morales-Munoz, PhD, University of Birmingham; Benjamin Perry, MBBS PhD; Steven Marwaha, MBBS, PhD, University of Birmingham; Ella Warwick, BSc; Jack Rogers, PhD, Birmingham; Rachel Upthegrove, MBBS, PhD, University of Oxford
14:45 - 15:00	<i>Living in a Disadvantaged Neighborhood is Associated with Increased Intratumoral Angiogenesis in Breast Cancer</i> Peter Borowsky, MD; Daniel Bilbao, PhD, MBA; Maria Sierra, MD, MPH; Melinda Boone, BS; Susan Kesmodel, MD; Michael Antoni, PhD, University of Miami; Steven Cole, PhD, University of California, Los Angeles; Neha Goel, MD, MPH, Memorial Sloan Kettering Cancer Center
	Oral Session 2: <i>Salle Brassilla 2 & 3</i> Chair: Mandy Bekhbat
14:00 - 14:15	<i>The Effect of Acute Stress on the Glymphatic System</i> Rachel R. Jin; Tatia M.C. Lee, PhD, The University of Hong Kong
14:15 - 14:30	<i>The Mitochondrial Bioenergetics Stress Marker GDF15 is Elevated in Chronic Stress and Associated with Epigenetic Aging: Evidence from Three Independent Studies</i> Caroline Trumpff; Qiuhan Huang; Cynthia C. Liu, BS; Christian Habeck, PhD; Yaakov Stern, PhD; Daniel W. Belsky, PhD, Columbia University
14:30 - 14:45	<i>Sleep Deprivation and Peripheral Inflammation: An Updated Meta-analysis in Human</i> Andrea Ballesio; Valeria Fiori; Caterina Lombardo, PhD, Sapienza University of Rome
14:45 - 15:00	<i>Inflammation, Tryptophan Metabolism, and Disrupted Sleep during Pregnancy Impact Fetal Brain Kynurenic Acid – Important Implications for Psychotic Disorders</i> Courtney Wright; Ana Pocivavsek, PhD, University of South Carolina
15:00 - 15:30	Coffee Break <i>Area Bamako</i> (if you are a new member or first-time attendee, we invite you to connect with PNIRS leaders in the left-hand corner of the hall. Stop by and say hello!)

Program of Events

Tuesday cont.

JUNE 10

15:30 - 16:30

Poster Blitz

Brisbane Ampitheater

Chairs: Iris Chat, Lina Hansson, Estherina Trachtenberg (PNIRS Trainee Committee members)

1) Gut Microbiota Disruption During Breast Cancer Chemotherapy is Associated with Pain and Peripheral Neuropathy

Jeremy Beales, The Ohio State University; Varshasata Mohanty, University of Illinois Chicago; Robert Wesolowski, MD; Michael Bailey, PhD; Ai Ni, PhD, The Ohio State University; Stephanie Cologna, PhD, University of Illinois Chicago; Leah Pyter, PhD, MS, The Ohio State University

2) Targeting Inflammation in Depression: A Stratified Approach with Mminocycline

Floriana De Cillis, University of Milan; Nadia Cattane; Melissa Rosa, IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli; Carmine Maria Pariante, King's College London; Annamaria Cattaneo, Istituto Centro San Giovanni di Dio Fatebenefratelli

3) Increased Sleep Disturbances during Chemotherapy Mediate the Effects of Increased Circulating IL1 β on Decreased Subjective Cognition

Zoe Tapp, PhD; Jeremy Beales, MS; Seth Adarkwah Yiadom; Rebecca Andridge, PhD, The Ohio State University; Robert Wesolowski, MD, Wexner Medical Center; Leah Pyter, PhD, The Ohio State University

4) Cross-Species Validation of Perineuronal Net Distribution in Affective State Research: Insights from Human and Rat Data

Jane Morphet, B.HMSc (Hons), University of Adelaide; Alexandra Whittaker; Mark Hutchinson, The University of Adelaide

5) Using a Murine Model to Explore the Impact of Sex and APOE4 on Cisplatin-induced Cognitive Impairment

Caroline Fowler; Mia Tarantino; Avery Gillett; Valeria Muniz; Marlee Anderson; Reece Bonner; Elisabeth Vichaya, PhD, Baylor University

6) CREB Gene Regulation as a Blood Biomarker of Neural Sensitivity to Social Threat

Itay Ricon-Becker, PhD; Robin Blades, M.A.; Chloe Boyle, PhD; J Richard Korecki, MA; Andrew Fuligni, Ph.D.; Naomi Eisenberger, Ph.D.; Steve Cole, PhD; Julianne Bower, PhD, University of California, Los Angeles

7) Investigating Whether Emotional Neglect and Abuse Play a Role in NR3C1 Inflammatory Gene Expression Differences Seen in Depression Treatment Response

Courtney Worrell, King's College London; Annamaria Cattaneo, King's College London; IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli; University of Milan; Clarissa Ferrari, Fondazione Poliambulanza Istituto Ospedaliero; Nicole Mariani; Giulia Lombardo; Maria A. Nettis; Naghme Nikkheslat; Luca Sforzini; Melisa Kose, King's College London; Nadia Cattane, IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli; Linda Pointon, University of Cambridge; Philip J. Cowen, University of Oxford; Jonathan Cavanagh, University of Glasgow; Neil A. Harrison, Cardiff University; Valeria Mondelli, King's College London; Edward T. Bullmore, University of Cambridge; Carmine M. Pariante, King's College London

8) Is there ANA risk? A Retrospective Analysis Assessing the Long-term Psychiatric Outcomes in Patients Testing Positive for Antinuclear Antibodies, in the Absence of an Autoimmune Disease Diagnosis

Katharine Lynch-Kelly, MBBS; Danish Hafeez, MBBS, Psychosis Studies, Institute of Psychiatry, Psychology and Neuroscience, King's College London; Vasishta Polisetty, MBBS, MD; Katharina Schmack, MD, PhD, Neural Circuits and Immunity in Psychosis Laboratory, Francis Crick Institute; Thomas A Pollak, MBBS, PhD, Psychosis Studies, Institute of Psychiatry, Psychology and Neuroscience, King's College London

9) Daily Microglia Rhythms Prime the Response of Olfactory Bulb Microglia to a Socialized Inflammatory Challenge

Gregory Pearson; Brennan Baca; Jiexin Wang; Patricia Reis; Stephanie Gottwals; Nathan Santos; Giancarlo Denaroso; Saïd Akli, PhD; Ilia Karatsoreos, PhD, University of Massachusetts Amherst

Program of Events cont.

Tuesday cont. JUNE 10

Poster Blitz cont.

10) Inflammatory Clusters & Psychiatric Symptom Severity in Emergency-Seeking Patients with Schizophrenia

Enzo Cipriani, University of Montreal; Charles-Edouard Giguère, MSc; Cécile Le Page, PhD; Eugénie Samson-Daoust, MSc; Universitaire en Santé Mentale de Montréal; Philippe Kerr, PhD, Copenhagen University Hospital; Stéphane Potvin, PhD; Robert-Paul Juster, PhD, University of Montreal

11) The Microbiome Modulates Peripheral Metabolites and Microglia Development

Jordan Hamden, PhD; Claire Sie, BSc; Shreya Gandhi; Natalia Carranza, BSc; Apsara Srinivas, BSc; Vivien Dang, MSc; Jatin Choudhary; Morgan Towriss, BSc; Carolina Tropini, PhD; Annie Ciernia, PhD, University of British Columbia

12) The Human Integrated Sensor System (HISS): Harnessing the Power of Psychoneuroimmunology for the Early Detection of Biological Threat Exposure

Michail Laoumtzis, BMedSc(Hons); Samuel Evans, PhD; Sanam Mustafa, PhD; Daniel Barratt, PhD; Mark Hutchinson, PhD, The University of Adelaide

13) The Effects of Prosocial Behavior during Social Isolation on Neuroendocrine-immune Status and Behaviour in Rats

Estherina Trachtenberg, University of Cambridge; Keren Ruzal, Tel-Aviv University; Freya Prein; Noam Ben-Shalom; Shamgar Ben-Eliyahu; Inbal Ben-Ami Bartal, Tel-Aviv university

14) Early-life Adversity Alters Microglia-mediated Synaptic Refinement of Corticotropin-releasing hormone-expressing Neurons in the Central Nucleus of the amygdala in a Sex- and Synapse-specific Manner

Hannah Lichtenstein, MS; Mikayla Kendall; Faith Kamau; Khushbo Nabizada; Lucas Smith, Georgia State University; Michelle Sequeira, PhD, Emory University; Jessica Bolton, PhD, Georgia State University

15) Low-grade Inflammation and Attachment Style Modulate Social Biases toward Self and Others

Leonie Balter, Donders institute, Stockholm University, Karolinska Institutet; Ivana Burić; Jos Bosch, University of Amsterdam

16) Gender-Dependent and Interactive Associations of Interleukin-10, Testosterone, and Estradiol with Mild Cognitive Impairment

Rayan Elahi, BA; Erik Knight, PhD, University of Colorado Boulder; Jennifer Graham-Engeland, PhD; Christopher Engeland, PhD, The Pennsylvania State University

17) Characterization of Plasma Metabolomic Profiles in Psychiatric Disorders: A Transdiagnostic Investigation

Camille Amadieu, PhD; Quentin Leyrolle, PhD, Univ. Bordeaux,; Ophelia Godin, PhD, Fondation FondaMenta; INSERM, IMRB, Translational Neuropsychiatry, Fondation FondaMental; Valérie Autier, PhD; Raphaëlle Richieri, MD, PhD, Aix-Marseille Univ, School of medicine; Wissam El-Hage, PhD, Fondation FondaMental,; Bruno Etain, MD, PhD, Fondation FondaMental; Jérôme Holtzmann, MD, PhD, Fondation FondaMental (FondaMental Foundation); Romain Rey, MD, PhD, Fondation FondaMental (FondaMental Foundation); Guillaume Vaiva, MD, PhD,; Michel Walter, MD, PhD,; Pierre-Michel Llorca, MD, PhD, Fondation FondaMental, University of Clermont Auvergne; Emmanuel Haffen, MD, PhD, Fondation FondaMental; Philippe Courtet, MD, PhD, Fondation FondaMental; Djamila Bennabi, MD, PhD, Fondation FondaMental; Antoine Yrondi, MD, PhD, Fondation FondaMental; Ryad Tamouza, PhD; Marion Leboyer, MD, PhD, Fondation FondaMental; Fulvio Mattivi, PhD, Research and Innovation Centre, Fondazione Edmund Mach (FEM); Bruno Auouizerate, MD, PhD, Université de Bordeaux

18) Stress-induced Inflammatory Activity Moderates the Association between Daily Negative Affect and Future Depressive Symptom Severity during Early Bereavement

Lydia Wu-Chung, PhD, University of Pittsburgh; Daniel Argueta, BA, Rice University; Ryan Brown, PhD, Texas Tech University; Robert Suchting, PhD, University of Texas Health Science Center at Houston; Michelle Chen, PhD, Texas Christian University; Angie LeRoy, PhD, University of North Florida; Kyle Murdock, PhD, Pennsylvania State University; Cobi Heijnen, PhD; Christopher Fagundes, PhD, Rice University

Program of Events cont.

Tuesday cont. JUNE 10

15:30 - 16:30

Poster Blitz cont.

19) Maternal Immune Patterns Associated with Child Neurodevelopmental Disorders

Elizabeth Sahagun, University of California, Davis

20) Early resource Scarcity in Female Rats Contributes to Transcriptional and Structural Changes in the Neurovascular Unit of the Prefrontal Cortex

Emalee Andrews, B.S, Georgia State University; Samar Chehimi, University of Pennsylvania; Ana Isabel Silva, Georgia State University; Richard Crist, University of Pennsylvania; Luwam Berhane, Georgia State University; Liliana Hoot, Georgia State University; Erin Harris, Georgia State University; Mathieu Wimmer, Temple University; Ben Reiner, University of Pennsylvania; Debra Bangasser, Georgia State University

16:30 - 17:30

Robert Ader Award Lecture

Stressed-out Microglia in the Developing Brain: Exploring New Ways to Assess Microglial Function

Jessica Bolton, PhD

Brisbane Ampitheater

Chair: Ruth Barrientos

18:00- 19:30

Speed Mentoring

Le Tchanqué - Hotel Bar/Lounge

Trainees please meet at 18:00 at the **Cité Mondiale Convention Center** in the Brisbane Ampitheater followed by the speed mentoring session for all at the rooftop bar of Hotel Indigo Bordeaux – **Le Tchanqué**.

20:00 - 22:00

Trainee Mixer

Gargalou

118 Quai de Bacalan, 33300 Bordeaux



Program of Events cont.

Wednesday
JUNE 11

8:00 - 16:15

Registration

Registration Hall

8:30 - 10:00

Member Symposium 3 & 4:

Symposium 3:

Brisbane Ampitheater

Disruption of Tryptophan Metabolism by Prenatal Inflammatory Insults: Implications for Neurodevelopmental Disorders: Chair: Tina Notter, PhD, University of Zurich; Alexandre Bonnin, PhD, Children Hospital Los Angeles; Ana Pocivavsek, PhD; University of South Carolina

This symposium explores how disruptions in tryptophan metabolism—particularly due to prenatal environmental factors like maternal immune activation—impact neurodevelopment and increase vulnerability to psychiatric disorders. Presentations will examine effects on the fetal blood-brain barrier, sleep regulation, and cognitive function, drawing from diverse animal models to identify critical windows, potential biomarkers, and therapeutic targets.

Symposium 4:

Salle Brassilla 2 & 3

Dissecting Depression Heterogeneity along Immuno-Metabolic Pathways: Triangulating Evidence from Hierarchical-Phenotyping Experimental and Genomic Methods: Yuri Milaneschi, PhD, Amsterdam UMC; Naoise Mac Giollabhui, PhD, Massachusetts General Hospital; Eimear Foley, PhD, University of Bristol

This symposium explores how immune, metabolic, and bioenergetic dysregulations contribute to the heterogeneity of major depressive disorder (MDD), with a focus on identifying bio-clinical subtypes linked to specific symptom profiles. Presenters will share findings from cutting-edge methodologies—including statistical modeling, experimental immunotherapy trials, and large-scale genomic analyses—to uncover how immuno-metabolic mechanisms underlie depressive symptoms such as fatigue, anhedonia, and appetite changes. Together, these insights support the development of targeted, personalized treatments and advance the goals of precision psychiatry.

10:00 - 10:30

Coffee Break

10:30 - 12:00

Oral Session 3 + 4

Oral Session 3:

Brisbane Ampitheater

Chair: Julie Lasselin

10:30 - 10:45

Immunometabolic Contributions to Deficits in Motivation and Pleasure in Patients with Schizophrenia

David Goldsmith, MD, MSc; Jonathan Myers, BS; Courtney Ning, BS; Evanthia Wommack, BS; Jennifer Felger, PhD; Andrew Miller, MD, Emory University School of Medicine

Program of Events cont.

Wednesday cont.

JUNE 11

10:45 - 11:00

Female-specific Role of Interleukin 6 and C-reactive Protein in Individuals with Major Depressive Disorder and Comorbid Obesity

Giulia Lombardo, PhD; Anna P McLaughlin; Ellen Lambert; Rebecca Milton; Nicole Mariani; Melisa Kose; Zuzanna Zajkowska; Naghmeh Nikkheslat; Valeria Mondelli, King's College London

11:00 - 11:15

Transcriptomic Activation of Immune Cell Trafficking Predicts Antidepressant Response to Minocycline

Luca Sforzini, King's College London; Floriana De Cillis; Moira Marizzoni; Samantha Saleri, IRCCS Centro San Giovanni di Dio Fatebenefratelli; Melisa Kose; Giulia Lombardo; Nicole Mariani; Maria A Nettis; Naghmeh Nikkheslat; Courtney Worrell; Zuzanna Zajkowska; Carmine M. Pariante, King's College London; Annamaria Cattaneo, IRCCS Centro San Giovanni di Dio Fatebenefratelli; Valeria Mondelli, King's College London

11:15 - 11:30

Reconsidering Laboratory and Medical Investigations in Pediatric Acute Onset

Neuropsychiatric Syndrome (PANS): Findings from the Karolinska PANS Cohort
Sara Vasiljevic, MSc; Eva Hesselmark, PhD; Selma Idring Nordström, MD, PhD; Kristina Tedroff, MD, PhD, Karolinska Institutet

11:30 - 11:45

Inflammation Effects on Fear and Anxiety-Related Circuits and Symptoms: Potential Role of Dopamine

Genevieve Craig, BS, Emory University; Mandakh Bekhbat, PhD; Zhihao Li, PhD; Ebrahim Haroon, MD; Andrew Miller, MD; Jennifer Felger, PhD, MS, Emory University

11:45 - 12:00

Omega-3 Supplementation Reduces Perceived Social Isolation in a Sex-Dependent Manner

Annelise Madison, PhD, University of Michigan; Stephanie Wilson, PhD, University of Alabama-Birmingham; Martha Belury, PhD; William Malarkey, PhD; Jan Kiecolt-Glaser, PhD, The Ohio State University

Oral Session 4:

Salle Brassilla 2 & 3

Chair: Christoph Rummell

10:30 - 10:45

Targeting TNIP1 as a New Therapeutic Avenue for Major Depressive Disorder

Yi-Yung Hung, PHD, Kaohsiung Municipal Fong Shan Hospital

10:45 - 11:00

The Circadian System Regulates Microglial Sculpting of the Murine Hippocampus in Early Life

Laura Fonken; Brandy Routh; Cecily Gibson; Celina Yang; Leanna Doan; Andrew Gaudet, PhD; Hans Hofmann, PhD; Regina Mangieri, PhD, University of Texas at Austin

11:00 - 11:15

The Neuronal Engram of Inflammation-associated Sickness Behavior and its Interaction with Local Microglia

Lior Naggan; Tirzah Kreisel, PhD; Elad Robinson, MA; Shay Meron Asher, MSc; Yaara Weinstein, MSc; Eyal Dinur, MA; Inbal Goshen, PhD; Raz Yirmiya, PhD, Hebrew University of Jerusalem

Program of Events cont.

Wednesday cont. JUNE 11

11:15 - 11:30

Choroid Plexus Macrophages are the Stress-responsive Source of Brain Interleukin-1 β

Daniel Nemeth, PhD, Florida Atlantic University; Xiaoyu Liu, PhD; Vesal Farsian; Loretta Chen, MS, Florida Atlantic University; Ashley Kim, Muhlenberg College; Numana Luqman; Matt Schrier, PhD, Florida Atlantic University; Julianna Saez, Mount Sinai; Ning Quan, PhD, Florida Atlantic University

11:30 - 11:45

Microglial Estrogen Receptors Mitigate Vulnerabilities to Perinatal Immune Challenges in Sex-Specific Manners

Izabella Bankowski, BS; Maggie Slamin, BS; Indra Bishnoi, PhD; Haley Norris, BA; Evan Bordt, PhD, Lurie Center for Autism, Massachusetts General Hospital

11:45 - 12:00

The Trem2 Receptor Programs Synaptic Pruning and Hippocampal Function in a Mouse Model of Early Adversity

Sahabuddin Ahmed; Christian Bowers; Sumit Jamwal; José Muñoz Martín; Basavaraju Sangannahalli; Lauryn Giuliano; Zoe MacDowell Kaswan; Yale University; Xiangdong William Yang, University of California, Los Angeles; Arie Kaffman, Yale University

12:00 - 13:30

Lunch on your own

13:30 - 15:00

Poster Session 1

Area Bamako

15:00 - 16:00

Ronald Glaser Frontiers in Psychoneuroimmunology Lecture

Brisbane Ampitheater

Stressed Beginnings, Vulnerable Minds: Psychoneuroimmunology of Early-Life Adversity, Brain Aging, and Dementia

Christine Heim, PhD

Chair: Andrew Miller

Despite the overwhelming evidence for profound and longstanding effects of early-life stress (ELS) on systemic inflammation, brain structure, and molecular aging, its impact on human brain aging and risk for neurodegenerative disease is poorly understood. This Frontiers in PNI Lecture will focus on the potential developmental origins of later-life dementia risk. Studies assessing interactions between ELS exposure levels and chronological age on blood-based markers of neuroinflammation and neurodegeneration, global brain volume, and cognitive function will be presented. Results revealed significant non-linear interaction effects of ELS severity and age on markers of brain aging across domains, suggesting that ELS profoundly exacerbates peripheral, neurostructural, and cognitive markers of brain aging. Addressing early-life adversity may be critical for the development of novel strategies for early risk detection and early interception to mitigate aging-related pathways to neurodegenerative diseases.

18:00 - 20:00

Early Career Researchers Social

Le Tchanqué - Hotel Bar/Lounge

Post-docs through pre-tenured faculty welcome! Participants are responsible for their own food and beverage purchases.

Program of Events cont.

Wednesday cont.

JUNE 11

19:00 - 21:00

Pint of Science

[*WashBar*](#)

Thursday

JUNE 12

8:00 - 16:15

Registration

[*Registration Hall*](#)

8:30 - 10:00

Member Symposium 5 & 6:

Member Symposium 5:

[*Brisbane Ampitheater*](#)

Neuroimmune Signaling at the Borders of the Nervous System: Implications for Physiology and Pathology:

Peter Grace, PhD, University of Texas MD Anderson Cancer Center; Institut Pasteur; Antoine Louveau, PhD, Cleveland Clinic; Aleksandra Deczkowska, PhD, Institut Pasteur

This symposium highlights groundbreaking research on how immune cells at the borders of the nervous system shape brain function and behavior—from development to disease. Presentations will cover the role of immune cells in the choroid plexus, meningeal lymphatics, and dorsal root ganglia, offering insights into mechanisms underlying circadian regulation, autism-related behaviors, and nerve injury-induced pain. By examining diverse neuroimmune interfaces, the session sheds light on how peripheral immune activity influences central nervous system health and pathology.

Member Symposium 6:

[*Salle Brassilla 2 & 3*](#)

Not a Monolith: Diverse Inflammatory Pathways and Insights into Nuanced Mood and Reward Dysfunctions:

Julie Lasselin, PhD, Karolinska Institutet, Stockholm University; Iris Ka-Yi Chat, MA, Temple University, University of Pittsburgh Medical Center; Elisabeth Vichaya, PhD, Baylor University

Research linking inflammation and psychiatric disorders particularly depression surged over the past few decades. Studies have employed diverse methods to measure inflammation and conceptual research acknowledges mechanistic differences between acute and chronic inflammatory pathways. However whether these mechanistic differences have distinct clinical implications remains unclear. Assuming that inflammatory processes are unitary oversimplifies their link to psychiatric symptoms. This symposium explores how acute and chronic inflammatory processes impact mood and reward dysfunctions drawing from both human and animal model studies. Together these presentations underscore the nuanced pathways through which inflammation interacts with brain function behavior and mood disorder symptoms emphasizing the importance of contextual and system-specific considerations.

Program of Events cont.

Thursday cont.

JUNE 12

10:00 - 10:30	Coffee Break <i>Area Bamako</i>
10:30 - 12:00	Oral Sessions 5 + 6 Oral Session 5: <i>Brisbane Ampitheater</i> Chair: Eric Wohleb
10:30 - 10:45	<i>Brain-derived Neurotrophic Factor Prevents the LPS-induced Dysregulation on GABAergic Interneuron Markers in Mouse Hippocampus</i> Sara Rezaei, Masters, University of Toronto; Mounira Banasr, PhD; Thomas Prevot, PhD, University of Toronto; Yashika Bansal, PhD, Centre for Addiction and Mental Health; Erica Vieira, PhD; Etienne Sibille, PhD, University of Toronto
10:45 - 11:00	<i>The Effect of Gestational Exposure to Autoantibodies on Offspring Neurodevelopment and Behaviour in a mouse model of Maternal Autoantibody Related (MAR) Autism</i> Tiffany Chien, PhDc, University of Toronto; Janna McLellan, PhD; Matthew Bruce, PhD, University of California Davis; Evdokia Anagnostou, MD, Holland Bloorview Kids Rehabilitation Hospital; Lena Serghides, PhD, University of Toronto; Judy Van de Water, PhD, University of California Davis; John Sled, PhD, University of Toronto; Jason Lerch, PhD, University of Oxford
11:00 - 11:15	<i>Oestradiol's Impact on Inflammatory Responses in Human Hippocampal Progenitor Cells: A Sex- and Treatment Duration-Dependent Effect</i> Madeline Kirkpatrick, MSc; Nicole Mariani, MSc; Nuriza Tukiran, MSc; Carmine Pariante, MD, PhD; Alessandra Borsini, PhD, King's College London
11:15 - 11:30	<i>Targeting the Gut Mycobiome-Immune Axis Reverses Psychosocial and Cognitive Deficits in EcoHIV-Infected Mice</i> Xiaolei Zhu; Yannan Li, MD, PhD, Johns Hopkins University; Shinji Sakamoto, MD, PhD, Okayama University; Matthew D. Smith, PhD; Yuto Hasegawa, PhD; Meixiang Huang, MD, PhD; Feiyi Xiong, Bachelor; Vesna Tran, Bachelor; Peter A. Calabresi, MD, Johns Hopkins University; David Volsky, PhD, Mount Sinai; Barbara S. Slusher, PhD; Atsushi Kamiya, MD, PhD, Johns Hopkins University
11:30 - 11:45	<i>Paclitaxel Chemotherapy Disrupts Circadian Rhythmicity of Microglia Associated with Elevated Inflammatory Transcription and Reactivity in female Mice</i> Zoe Tapp, PhD; Melina Seng, MS; Lauren Otto-Dobos, PhD, MD; Lindsay Strehle, PhD; Karl Obrietan, PhD; Leah Pyter, PhD, The Ohio State University
11:45 - 12:00	<i>Diurnal Differences in Immune Cell Trafficking through the Central Nervous System in Aging and a 3xTg Mouse Model of Alzheimer's Disease</i> Andrew Hynes; Brandy Routh; Louise Ince; John Chaney; Julia Goewey Ruiz; Laura Fonken, University of Texas at Austin

Program of Events cont.

Thursday cont. JUNE 12

	Oral Session 6: <i>Salle Brassilla 2 & 3</i> Chair: Yuri Milaneschi
10:30 – 10:45	<i>Prenatal COVID-19 Exposure is Associated with Enlarged Nucleus Accumbens in Infant: Insights from HEALTHY Brain and Child Development (HBCD) Study</i> Haixia Zheng, PhD; Martin Paulus, MD; Chun Chieh Fan, MD, Laureate Institute for Brain Research; Wesley Thompson, Laureate Institute for Brain Research
10:45 – 11:00	<i>Stress, Discrimination, and Cells: Unraveling the Biological Impact of Racial Discrimination on Immune Health in Minority Populations</i> Ariel Binns, BA-MPH, New York University
11:00 – 11:15	<i>Exhausted Cells, Exhausted Minds: Reversible T Cell Exhaustion in Major Depressive Episode</i> Federico Daray; Leandro Grendas, MD; Luciana Chiapella, PhD, University of Buenos Aires; Antonio Carrera Silva, PhD, IMEX-Conicet; Andrea Errasti, PhD, University of Buenos Aires
11:15 – 11:30	<i>Immune-Related Gene Expression Moderates the Association Between Fronto-Striatal Connectivity and Reward Processing in Adolescents with and without Depression</i> Mai-Lan Tran, BA; Kate Kuhlman, PhD, University of California, Irvine; Steve Cole, PhD, University of California, Los Angeles; Uma Rao, MD, University of California, Irvine
11:30 – 11:45	<i>Precision Psychiatry in Action: Lessons from 150+ Depression Immunotherapy Trials in ASPIRE</i> Livia De Picker, MD PhD, University of Antwerp; Benedetta Vai, PhD, IRCCS Ospedale San Raffaele; Celine Wessa, MD, University of Antwerp; Claudia Delli Colli, Istituto Superiore di Sanità; Eimear Foley, BSc MSc, University of Bristol; Carmine Pariante, MD PhD, King's College London
11:45 – 12:00	<i>Proneness to Infections and Familial Risk of Tic Disorders</i> Josep Pol-Fuster, PhD; Sara Vasiljevic, MSc; Lorena Fernandez de la Cruz, PhD; Jan Beucke, PhD; Eva Hesselmark, PhD; James J. Crowley, PhD; Isabell Brikell, PhD; Elles de Schipper, PhD; Brian M. D'Onofrio, PhD; Zheng Chang, PhD; Henrik Larsson, PhD; Kristina Tedroff, MD, PhD; Paul Lichtenstein, PhD; Ralf Kuja-Halkola, PhD; Selma Idring Nordström, MD, PhD; David Mataix-Cols, PhD, Karolinska Institutet
12:00 – 13:30	Lunch on your own PNIRS Asia-Pacific + Ibero-American Meeting (boxed lunch provided) with special guest speaker Kuan-Pin Su, MD, PhD <i>Salle Brassilla 1</i>
13:30 – 15:00	Poster Session 2 <i>Area Bamako</i>

Program of Events cont.

Thursday cont.

JUNE 12

15:15 - 16:15

Awards Ceremony | 2025 BBI Impact Award | PNIRS Business Meeting
Brisbane Ampitheater

16:15 - 17:15

George Solomon Award Lecture
When the Immune System Subjugates the Brain
Robert Dantzer, DVM, PhD
Brisbane Ampitheater
Chair: Jennifer Felger

**19:00 - 2:00
(Day+1)**

Closing Banquet, [Château Grattequina](#)
(Schedule below)

Step into the elegance of the 19th century as we conclude our Annual Meeting with a spectacular evening at Château Grattequina. Set along the picturesque banks of the Garonne River, this beautifully restored château offers a stunning backdrop for an unforgettable night of networking and celebration.

Our evening begins with a scenic boat ride, providing breathtaking views of Bordeaux and its surroundings as we make our way to the château. Upon arrival, we'll gather on the château's scenic grounds, where we'll toast to PNI in a setting that perfectly blends history, charm, and luxury.

[Closing Banquet, Schedule](#)

18:30

Walk to the Departure Boat | an 18-minute walk from Hotel Indigo Bordeaux Centre Chartrons. Meet in the lobby for group departure.

19:00

Departure Boat*

20:00

Arrival at Grattequina

20:00 - 21:00

Cocktail Hour | hors d'oeuvres and drinks will be served.

21:00 - 22:00

Dinner

23:30

1st Bus departure to the Hotel Indigo Bordeaux Centre Chartrons*

22:00 - 02:00

Closing Reception and dancing. Cash bar

01:00

2nd Bus departure to the Hotel Indigo Bordeaux Centre Chartrons*

**Please note: Attendees who choose to depart at different times than listed above will need to arrange their own transportation via taxi or rideshare services. GreenTaxi phone # (+33) 5 35 541 540*

Poster Session 1

Wednesday June 11 | 13:30 – 15:00

Poster 1

Examining the Transcriptome of Prefrontal Cortex Microglia Following Chronic Unpredictable Stress Exposure in Male Mice

Alexander Kuhn, MS; Justin Bollinger, PhD; Eric Wohleb, PhD, University of Cincinnati

Poster 2

A Shared Genetic Basis for Schizophrenia, Lipid Metabolism, Inflammation and Cortical Structure: Evidence from a Multi-Trait Colocalization Study.

Amalie Couch, BSc, MRes, PhD, University of Oxford; Benjamin Perry; Edward Palmer; Jack Rogers, University of Birmingham; Rachel Upthegrove, University of Oxford

Poster 3

Neuronal Interleukin-1 Receptor Signaling Propagates Neuronal Dysfunction, Neuroinflammation, and Cognitive Decline after Diffuse Traumatic Brain Injury

Amara Davis; Lynde Wangler, MS; Razeen Thammachack; Fangli Zhao; Jonathan Packer, MS; Candice Askwith, PhD, The Ohio State University; Ning Quan, PhD, Florida Atlantic University; Jonathan Godbout, PhD, The Ohio State University

Poster 4

Sex-specific Effects of Time-restricted Feeding on Metabolic, Cognitive and Emotional Disturbances in Mice Fed Obesogenic Diet

Ana Raner, University of Bordeaux; Jean-Christophe Helbling; Rachel Ginieis, University Bordeaux; Etienne Challet, University of Strasbourg; Marie-Pierre Moisan, University Bordeaux

Poster 5

Dendritic Cells and Their Cytokine Production Serve as Predictors for Depression Severity

Anna-Lena Boller, University of Münster; Jana Freff, PhD, University of Münster; Kathrin Schwarte PhD, University of Münster, Münster, University of Münster; University of Münster; Udo Dannlowski, University of Münster; Bernhard T. Baune, University of Münster; Stefanie Scheu, Heinrich Heine University Düsseldorf; Judith Alferink, University of Münster

Poster 6

Microglial Activation via Colony Stimulating Factor-1 Receptor Differentially Alters Oligodendrocyte Lineage Cells in the Brain White Matter and Gray Matter

Anzela Niraula; Audree Rumberger; Lauryn Vassel; Caroline Hess; Annabel Barnett; Brady Johnson, Colgate University; Jonathan Godbout, The Ohio State University

Poster 7

Sex Differences in Associations of Peri-traumatic Inflammatory Markers with Risk for Posttraumatic Stress Disorder Symptoms over Six Months in the AURORA Study

Kristen Nishimi, PhD, University of California, San Francisco; Sarah Linnstaedt, PhD; Samuel McLean, MD, MPH, University of North Carolina; Thomas Neylan, MD; Aoife O'Donovan, University of California, San Francisco

Poster 8

Dendritic Cell Antiviral Gene Transcription and Diminished SARS-CoV-2 IgG in Adults Exposed to Early Life Adversity

Bart Ford, PhD, Oklahoma State University; T. K. Teague, PhD, University of Oklahoma - Tulsa; W. Kyle Simmons, PhD; Chelsea Pierce, BA; Madyson Kirkendoll; Jens Jespersen, PhD, Oklahoma State University; Chibing Tan, PhD, University of Oklahoma - Tulsa; Jennifer Hays-Grudo, PhD, Oklahoma State University; Steve Cole, PhD, University of California, Los Angeles Semel Institute

Poster Session 1 cont.

Poster 9

A Novel Protocol for Studying the Effects of Latent Viral Pathogenic Burden on Cognitive Health and Aging

Brett Messman, PhD, The Pennsylvania State University; Raymond Stowe, PhD, Microgen Laboratories; Christopher Engeland, PhD, The Pennsylvania State University

Poster 10

Adolescent mCSF Treatment Fails to Prevent Offspring Inattentive Behavior after Prenatal Morphine Exposure in Male Mice

Brittany Smith; Anna Makela; Bolaji Akindiose; Noah Raleigh, Northern Kentucky University

Poster 11

Effects of Pervasive Environmental Stressors on the Gut-brain Axis: Vasopressin as a Novel Target

Elise Martin, BS; Maura Stoeher, BA; Anthony Djerdjaj, PhD; Caroline Smith, Boston College

Poster 12

Effect of Acute Psychological Stress on Blood Cell-free Mitochondrial DNA (cf-mtDNA) and Pro-Inflammatory Cytokines: A Crossover Experimental Study

Caroline Trumpff; David Shire, PhD; Seonjoo Lee, PhD, Columbia University; Katie Stanko, PhD, University of Pittsburgh; Annette Wilson, PhD, University of Pittsburgh; Brett A. Kaufman, PhD, University of Pittsburgh; Martin Picard, PhD, Columbia University; Anna Marsland, PhD, University of Pittsburgh

Poster 13

A Macrobiotic Treatment Approach to Alleviate ‘Chemo-brain’ and Chemotherapy-induced Sickness

Cecilie Bay-Richter; Edel Kristina Krøger Silseth; Eleonora Genovese; Agnete Kvorning; Bradley Whitehead; Peter Nejsun; Gregers Wegener, Aarhus University

Poster 14

The Effect of Gestational Maternal Immune Activation on Offspring Immune Responses from Pre- to Post-Puberty in a Non-Human Primate Model

Chelsea Kelland, PhD; Ana-Maria Iosif, PhD; Steven Rollins, MS; Melissa Bauman, PhD; Judy Van de Water, PhD, University of California, Davis

Poster 15

Reduced Enjoyment of Close Social Connection Predicts Greater Inflammation-Induced Depressed Mood in Healthy Women

Chloe Boyle, PhD, University of California, Los Angeles; Danny Rahal, PhD, University of California, Santa Cruz; Richard Olmstead, PhD; Naomi Eisenberger, PhD; Michael Irwin, MD, University of California, Los Angeles

Poster 16

SARS-CoV-2 Infection Induces Inflammation and Senescence in Human Microglia

Christina Michalski; Julia C LeCher; Sahar Rezaei; Justin Moua; Savannah L Shooter; Ramyani De; Leah Cheng; Weibo Niu; Raymond F Schinazi; Zhexing Wen, Emory University

Poster 17

In Vitro Induction and Modulation of Neutrophil Extracellular Traps by LPS, Group B Streptococcus or Bacterial-derived Extracellular Vesicles in Combination with the Sympathetic Neurotransmitters Norepinephrine and Neuropeptide Y

Jan Stoll; Sheila Bauch; Jessica Hernandez, Justus Liebig University Giessen; Marita Meurer, University of Veterinary Medicine Hannover; Lois Harden, University of the Witwatersrand; Maren von Köckritz-Blickwede, University of Veterinary Medicine Hannover; Daniela Ott, Justus Liebig University Giessen; Bernd Schmeck; Faezeh Shokrollahi, Universities of Giessen and Marburg Lung Center, Philipps-University Marburg, German Center for Lung Research (DZL); Anna Lena Jung, Universities of Giessen and Marburg Lung Center, Philipps-University Marburg, German Center for Lung Research (DZL); Stephan Leisegang, Justus Liebig University Giessen; Julie Hervé, INRAE; Christoph Rummel, Justus Liebig University Gießen

Poster Session 1 cont.

Poster 18

The Relationship Between Depression and Inflammation in an Urban Black Sample: Results from The Heart of Detroit Study

Claudette Kessler, The Pennsylvania State University; Kristin Davis, PhD; Samuele Zilioli, PhD, Wayne State University; Christopher Engeland, PhD, The Pennsylvania State University

Poster 19

Differential Depressive and Grief Symptom Trajectories in Dementia spousal Caregivers: PBMC Energy Production Efficiency and Childhood Trauma

Daniel Argueta, BA, Rice University; Lydia Wu-Chung, PhD, University of Pittsburgh; Jensine Paoletti-Hatcher, PhD, Portland State University; Vincent Lai, BA; Kelly Brice, PhD; Bryan Denny, PhD, Rice University; Charles Green, PhD, McGovern Medical School; Samantha Henry, PhD, Baylor College of Medicine; Luis Medina, PhD, University of Houston; Paul Schulz, MD, McGovern Medical School; Jennifer Stinson, PhD, Harvard Medical School; Cobi Heijnen, PhD; Christopher Fagundes, PhD, Rice University

Poster 20

Neuropsychiatric Outcomes of Pediatric Streptococcus Exposure in Upper Respiratory Infections- a Retrospective Cohort Study

Danish Hafeez; Katharine Lynch-Kelly; Cameron Watson; Mark Edwards; Thomas Pollak, King's College London

Poster 21

Effects of Chronic Unpredictable Stress (CUS) and Cocaine Self-administration on Drug Seeking and Microglia-neuron Interactions in Prefrontal Cortex

David Nowak, BS; Constanza Garcia-Keller, PhD; John Mantsch, PhD, Medical College of Wisconsin

Poster 22

Long-Term Effects of Intracerebral Hemorrhage on Inflammation and Behavior

Efrat Abramson, Yale University; Sandeep Kumar, PhD; Daniel Coman, PhD; Fahmeed Hyder, PhD; Lauren Sansing, MD, MS, FAHA, FANA, Yale School of Medicine

Poster 23

Immune/Microglial Memory of Prior Prolonged Inflammation Differentially Influences the Behavioral Responsiveness to Subsequent Inflammation vs. Stress Exposure

Elad Robinson, MA; Eyal Dinur, MA; Lior Naggan, MSc; Raz Yirmiya, PhD, The Hebrew University of Jerusalem

Poster 24

Altered gut microbial diversity, composition, and metabolomic potential in patients with major depressive disorder and recent suicide attempt

Emese Prandovszky O'Donnell, PhD; Hua Liu, PhD; Emily Severance, PhD; Victor Splan, BA, Johns Hopkins School of Medicine; Faith Dickerson, PhD, MPH, Sheppard Pratt Health System; Robert Yolken, MD, Johns Hopkins School of Medicine

Poster 25

Leptin: An Important Psychoneuroimmune Biomarker in Men with HIV

Emily Cherenack, PhD, University of Miami; Preeti Manavalan, MD, University of Florida; Margaret Roach, PhD; Sol Fernandez-Nocito, University of Miami; Jennifer Chavez, MPH, Florida International University; Joseph De Santis, PhD, University of Miami; Adam Carrico, PhD, Florida International University

Poster 26

Microglial Nr3c1 Depletion Alters Stress Effects on Synaptic Density and Behavior in a Sex-specific Manner

Lauren Vollmer, PhD; Etienne Mueller; Alexander Kuhn; Justin Bollinger, PhD, University of Cincinnati College of Medicine; Rosa Maria Salazar-Gonzalez; J. Elliott Robinson, MD, PhD, Cincinnati Children's Hospital Medical Center; Eric Wohleb, PhD, University of Cincinnati

Poster Session 1 cont.

Poster 27

Extracellular Vesicles as Biomarkers of Brain Cellular Dynamics: Applications in Clinical Neuropsychiatry

Erica Vieira, PhD, University of Toronto; Yuliya Nikolova, PhD, CAMH and University of Toronto; Sarah Elmi, MD and PhD, Ontario Shores; Kavishka Gallage, MSc, Centre for Addiction and Mental Health - CAMH; Breno Diniz, MD, PhD, UConn Center on Aging; Sanjeev Kumar, MD and PhD, Centre for Addiction and Mental Health - CAMH; Tarek Rajji, MD, PhD, UT Southwestern Medical Center

Poster 28

Inflammation and Neurotrophic Dysregulation in Progressive Supranuclear Palsy

Erica Vieira, PhD, Centre for Addiction and Mental Health, University of Toronto; Natalia Rocha, PhD, UT Houston; Paulo Caramelli, MD, PhD; Aline Miranda, PhD; Sofia Guazzelli, Universidade Federal de Minas Gerais; Thiago Maciel, PhD, Quantum Research Center, Technology Innovation Institute, Abu Dhabi; Francisco Eduardo Cardoso, MD, PhD, Universidade Federal de Minas Gerais; Antônio Lúcio Teixeira, MD and PhD, UTHealth San Antonio; Leonardo de Souza, MD and PhD, Universidade Federal de Minas Gerais

Poster 29

Cerebellar Stress Signatures: Functional Subnuclei Reactivity to Acute Psychosocial Stress in Asthma

Estelle Higgins, MS, Estelle Higgins; Richard J. Davidson, PhD; Melissa A. Rosenkranz, PhD, University of Wisconsin-Madison

Poster 30

CX3CR1 Deficiency Confers Resilience to Stress-Induced Depression via Altered Microglial and Neuroimmune Profiles

Eyal Dinur, MA; Elad Robinson, MA; Lior Naggan, MSc; Raz Yirmiya, PhD, The Hebrew University of Jerusalem

Poster 31

Voxel-based Morphometry of Grey and White Matter Volumes, Low-grade Inflammation, and Familial Liability to Psychosis

Fabiana Corsi Zuelli, University of São Paulo; Fabio Souza Duran, PhD, University of São Paulo; Elizabeth Zaniboni Damasceno, MSc; Rosana Shuhama, PhD; Camila Marcelino Loureiro, PhD; Antônio Carlos dos Santos, PhD, University of São Paulo; Paulo Rossi Menezes, PhD, MD, University of São Paulo; Paulo Louzada-Junior, PhD, MD, University of São Paulo; Geraldo Busatto, PhD, MD, University of São Paulo; Cristina Marta Del-Ben, PhD, MD, University of São Paulo

Poster 32

The Role of Physical Exercise on Hippocampal Volume in Depressive Symptoms: A Systematic Review and Meta-Analysis

Florian Javelle, PhD; Judith Suhrkamp, BSc, German Sport University Cologne; Laura Wählen, BSc, German Sport University Cologne; Lars Donath, PhD; Wilhelm Bloch, PhD, German Sport University Cologne

Poster 33

Prenatal Opioid Exposure Impairs Microglial Oxidative Phosphorylation in the Male Mouse Prefrontal Cortex

Grace Winstel, BS; Anna Makela; Kyle Cosby, Northern Kentucky University; Ushodaya Mattam, PhD; Brook Hemmelgarn; Zoe Paxhia-Poppaw; Karthickeyan Chella Krishnan, PhD, University of Cincinnati; Brittany Smith, PhD, Northern Kentucky University

Poster 34

The Impact of Maternal Allergic Asthma and Particulate Matter Exposure on Offspring Neuroinflammation

Hadley Osman; Juan Tamayo, PhD; Paul Ashwood, PhD, University of California, Davis

Poster Session 1 cont.

Poster 35

Microglial/Barrier Macrophage CD300f Immune Receptor Deficiency Induces Sex-dependent Depressive-like Behavior by Recruiting CCR2+ Macrophages

Fabio Andrés Cawen, Universitat de Barcelona; Daniela Alí-Ruiz, Institut Pasteur de Montevideo; Natalia Vitureira, Universidad de la República; Lihong Song; Margarita Martin, Universitat de Barcelona; Natalia Lago, Universitat Autònoma de Barcelona; Hugo Peluffo, PhD, Universitat de Barcelona

Poster 36

Maternal TLR7 Activation Increases Maternal Autoimmunity Resulting in Male-biased ASD-like Behaviors

Indra Bishnoi, PhD; Izabella Bankowski, BSc; Haley Norris, BA; Maggie Slamin, BSc; Evan Bordt, PhD, Massachusetts General Hospital

Poster 37

Investigating the Association between Early Life Inflammation and Parenting Factors on Neurocognitive Outcomes in Toddlerhood

Ira Kleine; Michaela Viragova; Konstantina Dimitrakopoulou; Daphna Fenchel, King's College London; Katie McKinnon, University of Edinburgh; Vanessa Kyriakopoulou; Charles Curtis; Hamel Patel; Carmine Pariente; David Edwards; Chiara Nosarti; Harriet Cullen, King's College London

Poster 38

Examining the Impacts of Maternal Viral Infection on Microbial Metabolites, Placental Physiology, and Fetal Neurodevelopment.

Izan Chalen, MSc; Rafael Gonzalez-Ricon, MSc; Ashley Otero, BSc; Nicolas Hernandez, BSc; Alexander Byrne; Fernando Rigal, BSc; Catherine Best-Popescu, PhD; Adrienne Antonson, PhD, University of Illinois

Poster 39

Genetic Evidence for Repurposing Anti-inflammatory Drugs for Major Depressive Disorder

Jehanita Jesuthasan; Abigail Ker Tuile, University College London; Livia Carvalho, Queen Mary University of London; Jonathan Roiser; Sandesh Chopade; Chris Finan; Amand Floriaan Schmidt; Jean-Baptiste Pingault, University College London

Poster 40

Metabolic Reprogramming in Immune Cells in PTSD and Its Association with Symptom Severity

Jelena Brasanac, PhD; Linda El-Ahmad, MSc; Daria Shyshko; Kim Zimbalski, BSc; Luisa Gruenberg, MSc; Stefanie Gamradt, PhD, Charite Universitätsmedizin Berlin; Simon Guendelman, PhD; Isabel Dziobek, PhD, Humboldt-Universität zu Berlin; Stefan Röpke, MD; Stefanie Koglin, MD; Stefan Gold, PhD, Charite Universitätsmedizin Berlin

Poster 41

Precision Inflammatory Phenotypes: Exploring Demographic Differences and Implications for Well-being

Caesar Liu, BA; Christopher Engeland, PhD; Jennifer Graham-Engeland, PhD, The Pennsylvania State University

Poster 42

Physical Activity Levels Associated with Symptom Burden and Biomarkers linked to Survival in those Diagnosed with Cancer

George Diamantis, BS; Kathryn Schmitz, PhD; David Geller, MD; Samer Tohme, MD; Charles George, MS; Lauren Terhorst, PhD; Jonathan Yabes, PhD, University of Pittsburgh; Vincent Reyes, MD; Dan Zandberg, MD, University of Pittsburgh Medical Center; Marci Nilsen, PhD, University of Pittsburgh; Gauri Kiefer, MD; Jonas Johnson, MD; Christopher Marsh, MD; Jason Bierenbaum, MD; Nhand Tagaja, MD; Michael Krauze, MD; Robert VanderWeele, MD; Gurav Goel, MD; Gopala Ramineni, MD, University of Pittsburgh Medical Center; Michael Antoni, PhD, University of Miami; Yoram Vodovotz, PhD; Jon Walker, PhD; Jennifer Steel, PhD, University of Pittsburgh

Poster 43

Latent Trajectories of Adolescent Depression: Exploring the Role of Inflammatory Reactivity to Acute Psychosocial Stress in Saliva

Ellie Antici; Kate Kuhlman, PhD; Julianne Bower, PhD, University of California Los Angeles

Poster Session 1 cont.

Poster 44

Neuronal Damage in the Amygdala as the Neuropathological Basis for Mood and Anxiety Disorders in Neuropsychiatric Lupus

Rachel Weissman-Tsukamoto, BSc, MAT; Kaitlin Carroll, PhD; Zaide Ibic, BSc; Czeslawa Kowal, PhD; Bruce Volpe, MD; Betty Diamond, MD, Feinstein Institute of Molecular Medicine

Poster 45

Peripheral Blood Transcriptomic Differences Between Schizophrenia and Depression Highlight Lymphocyte and Neutrophil Function

Matej Markota, MD, Mayo; Jonathan Leung, RPh, BCPP, Mayo Clinic; Kayla Ryan; Obie Allen IV; Barbara Gisabella, PhD, University of Mississippi Medical Center; Rammohan Shukla, PhD, University of Wyoming; Harry Pantazopoulos, PhD, University of Mississippi Medical Center

Poster 46

Trait Negative Affect and Peripheral Inflammation: The Moderating Role of cCognitive Reappraisal and Expressive Suppression

Lydia Wu-Chung, PhD; Peter Gianaros, PhD; Anna Marsland, PhD, University of Pittsburgh

Poster 47

EP2 is a Target for Cerebral Ischemia-associated Neurobehavioral Deficits

Zhen Jin, PhD; Chenyao Jiang, BS; Eun Bee Cho, PhD; Ying Yu, PhD; Jianxiong Jiang, PhD, The University of Tennessee Health Science Center

Poster 48

Transfer of Gastrointestinal but not Behavioral Phenotypes via the Gut Microbiota of Donor IBS patients: Evidence of Colonic Hypersensitivity and Decreased Brain Connectivity in Recipient Rats

Lars Wilmes, PhD, University College Cork; Alice Rustichelli, PhD; Maaïke Van Den Houte, PhD, KU Leuven; Friederike Uhlig, PhD; Mélanie Depret, MSc; Benjamin Valderrama, MSc; Paola Elizabeth Gamez Marcias, PhD, University College Cork; Kristin Verbeke, PhD; Sybren Rinckhout, MSc; Shannon Helsper, PhD; Uwe Himmelreich, PhD; Lukas van Oudenhove, PhD, KU Leuven; Jeroen Raes, PhD; John F Cryan, PhD, University College Cork; Ricard Farre, PhD, KU Leuven; Gerard Clarke, PhD, University College Cork

Poster 49

Inflammation and Status-Avoidant Behavior in Human Social Hierarchies: Preliminary Data from an Ongoing Vaccine Experiment

Jisoo Kim, MA; Erik Knight, PhD, University of Colorado Boulder

Poster 50

Reward Network Features Associated with Immune Factors in Adolescents with Mood and Anxiety Symptoms

Vilma Gabbay, University of Miami Miller School of Medicine; Nathan Kline Institute; Benjamin Ely, PhD, University of Miami Miller School of Medicine; Seunghye Kim-Schulze, PhD, Icahn School of Medicine Mount Sinai; Russell Tobe, MD, Nathan Kline Institute; Tram Nguyen, BS, Albert Einstein College of Medicine

Poster 51

Targeting Inflammation in Depression: A Stratified Approach with Minocycline

Florian De Cillis, University of Milan; Nadia Cattane; Melissa Rosa, IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli; Carmine Pariante, King's College London; Annamaria Cattaneo, University of Milan

Poster Session 1 cont.

Poster 52

Characterization of Plasma Metabolomic Profiles in Psychiatric Disorders: A Transdiagnostic Investigation

Camille Amadiou, PhD; Quentin Leyrolle, PhD, Univ. Bordeaux,; Ophelia Godin, PhD, Fondation FondaMenta; INSERM, IMRB, Translational Neuropsychiatry, Fondation FondaMental; Valérie Autier, PhD; Raphaëlle Richieri, MD, PhD, Aix-Marseille Univ, School of medicine; Wissam El-Hage, PhD, Fondation FondaMental,; Bruno Etain, MD, PhD, Fondation FondaMental; Jérôme Holtzmann, MD, PhD, Fondation FondaMental (FondaMental Foundation); Romain Rey, MD, PhD, Fondation FondaMental (FondaMental Foundation); Guillaume Vaiva, MD, PhD; Michel Walter, MD, PhD,; Pierre-Michel Llorca, MD, PhD, Fondation FondaMental, University of Clermont Auvergne; Emmanuel Haffen, MD, PhD, Fondation FondaMental; Philippe Courtet, MD, PhD, Fondation FondaMental; Djamila Bennabi, MD, PhD, Fondation FondaMental; Antoine Yrondi, MD, PhD, Fondation FondaMental; Ryad Tamouza, PhD; Marion Leboyer, MD, PhD, Fondation FondaMental; Fulvio Mattivi, PhD, Research and Innovation Centre, Fondazione Edmund Mach (FEM); Bruno Aouizerate, MD, PhD, Université de Bordeaux

Poster 53

Using a Murine Model to Explore the Impact of Sex and APOE4 on Cisplatin-induced Cognitive Impairment

Caroline Fowler; Mia Tarantino; Avery Gillett; Valeria Muniz; Marlee Anderson; Reece Bonner; Elisabeth Vichaya, PhD, Baylor University

Poster 54

Investigating Whether Emotional Neglect and Abuse Play a Role in NR3C1 Inflammatory Gene Expression Differences Seen in Depression Treatment Response

Courtney Worrell, King's College London; Annamaria Cattaneo, King's College London; IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli; University of Milan; Clarissa Ferrari, Fondazione Poliambulanza Istituto Ospedaliero; Nicole Mariani; Giulia Lombardo; Maria A. Netti; Naghme Nikkheslat; Luca Sforzini; Melisa Kose, King's College London; Nadia Cattane, IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli; Linda Pointon, University of Cambridge; Philip J. Cowen, University of Oxford; Jonathan Cavanagh, University of Glasgow; Neil A. Harrison, Cardiff University; Valeria Mondelli, King's College London; Edward T. Bullmore, University of Cambridge; Carmine M. Pariante, King's College London

Poster 55

Maternal Immune Patterns Associated with Child Neurodevelopmental Disorders

Elizabeth Sahagun, Steven Rollins, Ana-Maria Iosif, Danielle H.J. Kim, University of California, Davis; Jane Liang, Stacey Alexeeff, Yingge Qian, Lisa A. Croen, Kaiser Permanente Northern California; Judy Van de Water, University of California, Davis.

Poster 56

Inflammatory Clusters & Psychiatric Symptom Severity in Emergency-Seeking Patients with Schizophrenia

Enzo Cipriani, University of Montreal; Charles-Edouard Giguère, MSc; Cécile Le Page, PhD; Eugénie Samson-Daoust, MSc; Universitaire en Santé Mentale de Montréal; Philippe Kerr, PhD, Copenhagen University Hospital; Stéphane Potvin, PhD; Robert-Paul Juster, PhD, University of Montreal

Poster 57

The Effects of Prosocial Behavior during Social Isolation on Neuroendocrine-immune Status and Behaviour in Rats

Estherina Trachtenberg, University of Cambridge; Keren Ruzal, Tel-Aviv University; Freya Prein; Noam Ben-Shalom; Shamgar Ben-Eliyahu; Inbal Ben-Ami Bartal, Tel-Aviv university

Poster 58

Daily Microglia Rhythms Prime the Response of Olfactory Bulb Microglia to a Socialized Inflammatory Challenge

Gregory Pearson; Brennan Baca; Jiexin Wang; Patricia Reis; Stephanie Gottwals; Nathan Santos; Giancarlo Denaroso; Saïd Akli, PhD; Ilia Karatsoreos, PhD, University of Massachusetts Amherst

Poster Session 1 cont.

Poster 59

Early-life Adversity Alters Microglia-mediated Synaptic Refinement of Corticotropin-releasing hormone-expressing Neurons in the Central Nucleus of the amygdala in a Sex- and Synapse-specific Manner

Hannah Lichtenstein, MS; Mikayla Kendall; Faith Kamau; Khushbo Nabizada; Lucas Smith, Georgia State University; Michelle Sequeira, PhD, Emory University; Jessica Bolton, PhD, Georgia State University

Poster 60

CREB Gene Regulation as a Blood Biomarker of Neural Sensitivity to Social Threat

Itay Ricon-Becker, PhD; Robin Blades, M.A.; Chloe Boyle, PhD; J Richard Korecki, MA; Andrew Fuligni, PhD; Naomi Eisenberger, PhD; Steve Cole, PhD; Julianne Bower, PhD, University of California, Los Angeles

Poster 61

Cross-Species Validation of Perineuronal Net Distribution in Affective State Research: Insights from Human and Rat Data

Jane Morphett, BHMSc (Hons), University of Adelaide; Alexandra Whittaker; Mark Hutchinson, BSc (Hons), PhD, The University of Adelaide

Poster 62

Gut Microbiota Disruption During Breast Cancer Chemotherapy is Associated with Pain and Peripheral Neuropathy

Jeremy Beales, The Ohio State University; Varshasnata Mohanty, University of Illinois Chicago; Robert Wesolowski, MD; Michael Bailey, PhD; Ai Ni, PhD, The Ohio State University; Stephanie Cologna, PhD, University of Illinois Chicago; Leah Pyter, PhD, MS, The Ohio State University

Poster 63

Systemic Review and Meta-analysis of Randomized Clinical Trials of Anti-inflammatory Agents in Early Psychotic Disorders.

Edward Palmer, MBBS, University of Birmingham; Matthew Taylor, MBBS, University of Sheffield; James Hotham, MBBS, University of Birmingham; David Salam, MBBS, University of Birmingham; Jack Rogers, PhD, University of Birmingham; Rachel Upthegrove, MBBS PhD, University of Oxford

Poster 64

Bridging Biology and Behaviour: Interactions Between Immune Profiles, Psychotic Symptoms, and Physical Activity – Findings from the ALSPAC Cohort

Connor Dunleavy, PhD; Jack Rogers, PhD; Benjamin Perry, PhD; Sarah Aldred, PhD, University of Birmingham

Poster 65

Early resource Scarcity in Female Rats Contributes to Transcriptional and Structural Changes in the Neurovascular Unit of the Prefrontal Cortex

Emalee Andrews, B.S, Georgia State University; Samar Chehimi, University of Pennsylvania; Ana Isabel Silva, Georgia State University; Richard Crist, University of Pennsylvania; Luwam Berhane, Georgia State University; Liliana Hoot, Georgia State University; Erin Harris, Georgia State University; Mathieu Wimmer, Temple University; Ben Reiner, University of Pennsylvania; Debra Bangasser, Georgia State University

Poster 66

Brain morphology and sensitivity to inflammatory activation

Mats Lekander; Lina S Hansson, PhD; Amirhossein Manzouri, PhD; Arnaud Tognetti, PhD, Karolinska Institutet; Pétur Sigurjónsson, PhD, Karolinska University Hospital; Emily Brück, PhD, Karolinska Institutet; Rani Toll John, PhD, Linköping University; Daniel Wilhems, PhD, Linköping University; Predrag Petrovic, PhD, Karolinska Institutet; Julie Lasselin, PhD, Stockholm University; Månsson Kristoffer N T, PhD, Karolinska Institutet

Poster Session 2

Thursday June 12 | 13:30 – 15:00

Poster 1

Manipulation of Ileal GABA Signaling Changes Gut-brain Neuronal Co-Activation Networks

Jordan Rindels, BS; Brett Loman, PhD, RD, University of Illinois at Urbana Champaign

Poster 2

Effects of Gestational Autoantibody Exposure on Early Offspring Neurodevelopment

Katlien Blumenthal, BS; Janna McLellan, PhD; Ana-Maria Iosif, PhD; Karol Cichewicz, PhD; Cesar Canales, PhD; Darlene Rahbarian, BS; Matthew Bruce, PhD; Melissa Bauman, PhD; Alexander Nord, PhD; Judy Van de Water, PhD, University of California, Davis

Poster 3

Investigating Differential Gene Expression of Inflammatory Markers in the Parental/aggression Circuit of Aged Peromyscus Californicus Breeders

Kathryn Callahan, University of Texas at Austin; Tjien Dwyer; Brian Trainor, University of California, Davis; Laura Fonken, University of Texas at Austin

Poster 4

Interaction of Early Life Stress and Pediatric Traumatic Brain Injury: Behavioral and Molecular Outcomes in Rats

Marissa Smail, PhD; Miranda McDonald; Rebecca Boland; Jonathan Packer; Michaela Breach; Cole Vonder Haar; Jonathan Godbout; Olga Kokiko-Cochran; Kathryn Lenz, PhD, The Ohio State University

Poster 5

Unconventional Position of B Cell Nodules in Medulla of Mandibular Lymph Node

Paul Schütz; Florian Schwarzenberg; Lennert Weber, University of Hamburg; Jörg U Hammel, Helmholtz-Zentrum Hereon; Mirko Riedel, Helmholtz-Zentrum Hereon; Bernd Walkenfort, University Hospital Essen; Jasmin Bartl, University of Hamburg; Sarah Irvine, Helmholtz-Zentrum Hereon; Julia Herzen, Technical University of Munich; Christian Lohr, University of Hamburg; Katja Jarick; Stephan Henne; Clemens Wülfing, University of Hamburg

Poster 6

Exploring the Role of Safety in Modulating Stress and Health: The Buffering and Direct Effects of Safety on Biomarkers of Inflammation and gut Permeability in a Community Sample of Adolescents

Kendra Wilson; Bethany Boettner, PhD; Ping Bai, MS; Baldwin Way, PhD; Christopher Browning, PhD; Jodi Ford, PhD, Ohio State University

Poster 7

Sex-dependent Improvements in Inflammation-induced Changes in Mood Following Time-restricted Feeding in Adult Mice

Kiersten Bell, BS; Jeffrey Darling, PhD; Akshay Prabhakar Prabhakar, BS; Shams Imad; Andrew Gaudet, PhD; Laura Fonken, PhD, The University of Texas at Austin

Poster 8

Voluntary Wheel Running Mitigates Hyperglycemia-induced Depressive-like Behavior and Increases Hippocampal BDNF Levels in Male Mice

Laura Kusumo; Grace Summers, B.S.; Matthew Folh; Jonathan Duhon; Reece Bonner, BS; Grace Read; Caroline Fowler, BA; Elisabeth Vichaya, PhD, Baylor University

Poster 9

Neuroactive Steroid and Immune Dysregulation in Perinatal Anxiety: An Exploratory Study

Semra Etyemez, MD; Kristin Voegtline, PhD, Weill Cornell Medicine; Abid Malik, MD, Human Development Research Foundation; Pamela Surkan, PhD, Johns Hopkins Bloomberg School of Public Health; Graziano Pinna, PhD, University of Illinois-Chicago; Kruti Mehta, PhD, Weill Cornell Medicine; Lauren Osborne, MD, Weill Cornell Medical College

Poster Session 2 cont.

Poster 10

Heightened Inflammation in Anxiety and Depression Among Sexual Minority versus Heterosexual Adults: Stress Sensitization as a Pathway to Health Disparities

Lisa Christian, The Ohio State University; Nithya Kasibhatla, The Ohio State University; Thomas McDade, Northwestern University; Tessa Blevins; Juan Peng; Rebecca Andridge, The Ohio State University; Steve Cole, University of California Los Angeles; Wendy Manning, Bowling Green State University; Claire Kamp Dush, University of Minnesota Twin Cities

Poster 11

Unique Disease-associated Microglia Persist Chronically after Diffuse Traumatic Brain Injury and Contribute to Dysregulated Immunity following Secondary Inflammatory Challenge

Lynde Wangler; Ethan Goodman, PhD; Amara Davis, MS; Jonathan Packer, MS; Jenna Lapurga; Tom Lui; Heithem El-Hodiri, PhD; Andrew Fischer, PhD; Benjamin Segal, MD; Jonathan Godbout, PhD, The Ohio State University

Poster 12

Role of Inflammation in Development of Positive and Negative Symptoms in Schizophrenia Spectrum Disorders – Exploratory Study

Magdalena Dutsch-Wicherek; Artur Matysiak, PhD; Bartosz Frycz, PhD; Jakub Włodarczyk, Nencki Institute of Experimental Biology; Agata Szulc, Warsaw Medical School

Poster 13

Monocyte Immunometabolic Rewiring is Associated with Inflammation and Impaired Motivation in Depression

Mandakh Bekhbat, PhD, Emory University Department of Psychiatry and Behavioral Sciences; Evanthia Wommack, BS; Jessica Cooper, PhD; Jessica Alvarez, PhD; Andrew Miller, MD; Jennifer Felger, PhD, Emory University

Poster 14

Limited Nesting as a Preclinical Model to Study the Psychoneuroimmunology of Post-partum Suppression: A Comparison of Two Mouse Strains

Marie Armbruster, University of Alberta

Poster 15

Using Brain Microglial Autofluorescence as an Index of Inflammaging

Mary Slayo; Kylie Quinn, PhD; Blanca Del Rosal Rabes, PhD; Sarah Spencer, PhD, RMIT University

Poster 16

Facial Cues of Sickness Reduce Trustworthiness Judgements

Mats Olsson; Megan N. Cesarini-Williams, PhD; Julie Lasselin, PhD; Mats Lekander, PhD; Arnaud Tognetti, PhD, Karolinska Institutet

Poster 17

Maladaptive Emotion Regulation and Accelerated Biological Aging: A Comparison of Young and Middle Adulthood

Megan Renna, PhD; Kelsi Broich, BA; Kylee Behringer, MA, University of Southern Mississippi; Douglas Mennin, PhD, Teachers College, Columbia University

Poster 18

IL-6 as an Anxiety Specific Biomarker: Analyte Findings from a Multiplex Assay of Dried Blood Spots

Megan Renna, PhD, University of Southern Mississippi; Raymond Moody, PhD, University of Connecticut; Faith Wilbourne, MA, University of Southern Mississippi

Poster Session 2 cont.

Poster 19

Atypical Symptom Improvement Associated with Metabolic, But Not Inflammatory, Biomarkers after Bariatric Surgery in Patients with Depression

Melisa Kose, MSc; Anna McLaughlin, PhD; Nicole Mariani, MSc; Rebecca Milton, PhD; Giulia Lombardo, PhD; Zuzanna Zajkowska, PhD; Valeria Mondelli, MD, PhD, King's College London

Poster 20

Influence of Maternal Immune Activation on Nonhuman Primate Offspring Neurodevelopmental Outcomes

Melissa Bauman, PhD; Josephine Hubbard, PhD; Shuai Chen, PhD; Ana-Maria Iosif, PhD; Casey Hogrefe, BA; Erin Carlson, MA; Shawn Kamboj, BA; Kari Hanson, PhD; Andrew Fox, PhD; Bradley Ander, PhD; Karl Murray, PhD; Cyndi Schumann, PhD, UC Davis

Poster 21

Perinatal Subjective Sleep Disturbance and Circulating Cytokine Levels

Michele Okun, PhD, University of Colorado Colorado Springs; Rebecca Cox, PhD, Washington University in St. Louis; Judith Carroll, PhD, UCLA; Kharah Ross, PhD, Athabasca University; Chris Dunkel Schetter, PhD, University of California Los Angeles; Mary Coussons-Read, PhD, University of Colorado Colorado Springs

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Investigating the Role Played by Inflammation and Adipose Tissue in the Differing Clinical Presentations of Depression in Men and Women from the Lifelines Study

Naoise Mac Giollabhui, Massachusetts General Hospital, Harvard Medical School; Richard Liu, PhD, Massachusetts General Hospital; Chloe Slaney, PhD; Golam Khandaker, PhD, FRCPsych, University of Bristol; Catharina Hartman, PhD, University Medical Center Groningen

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Inflammation and Networks: How an Acute Inflammatory Challenge Impacts Social Network Representations

Natalie Antenucci; Megan Cardenas; Taylor West, University of North Carolina at Chapel Hill; Tatum Jolink, University of Michigan; Mallory Feldman; Keely Muscatell, University of North Carolina at Chapel Hill

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Obesity-induced Emotional Alterations in Mice are Associated with Impairments of Tryptophan Metabolism along the Kynurenine and Indole Pathways

Nathalie Castanon, PhD; Sylvie Vancassel, PhD; Camille Amadieu, PhD; Sofia Cussotto, PhD; Quentin Leyrolle, PhD; Céline Lucas, MSc, NutriNeuro INRAE1286; Antoine Lefèvre, MSc; Patrick Emond, PhD, iBraiN INSERM UMR1253; Anne-Laure Dinel, PhD; Lucile Capuron, PhD, NutriNeuro

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Developing Interferon- β as a Safe In-vivo Experimental-medicine Model of Human Inflammation

Neil Harrison, Cardiff University; Eva Periche-Tomas, PhD, Oxford University; Claire MacIver, MD PhD, Cardiff University; John Underwood, MD, PhD; Helena Leach, PhD, Cardiff University; Claudia Bone, PhD; Simon Jones, PhD; Barbara Szomolay, PhD, Cardiff University; Kathy Triantafilou, PhD, Cardiff University

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Acute Stress Response of Inflammatory Cytokines Measured in Dried Blood Spots

Nicolas Rohleder; Miriam Kurz, LS Gesundheitspsychologie, FAU Erlangen-Nürnberg; Luca Abel, FAU; Felicitas Burkhardt; Veronika Ringgold, LS Gesundheitspsychologie, FAU Erlangen-Nürnberg; Lena Schindler-Gmelch, PhD, FAU; Bjoern M. Eskofier, PhD; Robert Richer, PhD, FAU

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The Effects of Fatigue in Long-COVID-19 Patients on Central and Peripheral Inflammation

Nicole Mariani; Daniel Martins; Madeline Kirkpatrick; Nuriza Tukiran; Carmine Pariante; Alessandra Borsini, King's College London

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Age and Sex Differences of Mouse Microglia Morphology: Modulation by an LPS Challenge

Nikolay Filipov; Jenna Wilson, BS, University of Georgia; Lukas Veltmaat, BS, Augusta University; Brice Hudson, BS; Helaina Danielle Ludwig, MS; Jessica Carpenter, PhD; Rachel Dockman, BS; Trevor Kalinowski, BS, University of Georgia

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Microglia Renewal in Perinatal Inflammatory Models of Neurodevelopmental Disorders

Pauline Monguillon, NutriNeuro; Hana Yeh, Mayo Clinic; Juliette Dupont-Viratelle, NutriNeuro; Tsuneya Ikezu; Seiko Ikezu; Srinidhi Kalavai, Mayo Clinic; Juliette Van Steenwinckel; Pierre Gressens, NeuroDiderot; Charlotte Madore; Sophie Layé; Jean-Christophe Delpéch, NutriNeuro

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Effects of Mycobacterium Vaccae ATCC 15483T Administrations Prior to Mating and Chronic Stress Exposure during Pregnancy in Nulliparous Female Mice

Pei-Ling Tsai, MSc, University Hospital Frankfurt; Jessica Schiele, MSc; Dominik Langgartner, PhD; Stefan Reber, PhD, Ulm University Medical Center; David Slattery, PhD, University Hospital Frankfurt

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The Energetic Stress Cytokine GDF15 is Induced in Blood and Saliva by Acute Psychosocial Stress

Qiuhan Huang; Caroline Trumpff, PhD; Anna S. Monzel, PhD; Shannon Rausser; Cynthia C. Liu; Catherine Kelly; Mangesh Kurade; Shufang Li, MD; Kris Engelstad; Vincenzo Lauriola, PhD; Richard Sloan, PhD, Columbia University Irving Medical Center; Robert-Paul Juster, PhD, University of Montreal; Michio Hirano, MD; Martin Picard, PhD, Columbia University Irving Medical Center

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Altered Phenotype and Gene Expression of Regulatory T Cells in Children with Autism

Rachel Moreno, BS; Destanie Rose, PhD; Paul Ashwood, PhD, University of California, Davis

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Immune Factors Predict Neural Responses to Reward in Adolescents with Mood and Anxiety Symptoms

Vilma Gabbay, University of Miami, Nathan Kline Institute; Qi Liu, PhD, Changping Laboratory; Manishkumar Patel, MS; Seunghee Kim-Schulze, PhD, Mount Sinai; Russell Tobe, MD, Nathan Kline Institute; Barbara Coffey, MD; Benjamin Ely, PhD, University of Miami

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Sexual Minority Stress and Inflammation: Evidence of Elevated IL-6 and CRP in a Community Sample

Raymond L. Moody, PhD, University of Connecticut; Faith N. Wilbourne; Megan E. Renna, PhD, University of Mississippi

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Vagal Nerve Stimulation Moderates Correlations between Inflammatory Markers and Clinical Outcomes after Myocardial Infarction

Reham Dyab, PhD c, The University of Haifa; Idit Dobrecky Mery, MD; Marwan Hijaze, MD; Nadin Kakoush, MD; Rani Afifi, MD; Ibrahim Magdoub, MD, Bnai Zion Medical Center; Yori Gidron, The University of Haifa

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Randomized Controlled Trial of Stress Resilience Interventions on Physiological and Affective Responses to Social Stress

Ryan Brown, Texas Tech University; Aric Prather; Elissa Epel, University of California, San Francisco; Wendy Berry Mendes, Yale University

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Polymorphisms in Toll-like Receptor -2 and -4 Genes and their Association with Plasma Cytokines – Relevance to Schizophrenia

Saahithh Redddi Patlola; Aodán Laighneach, PhD; Derek W Morris, PhD; Gary Donohoe, PhD; Declan P McKernan, PhD, University of Galway

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Autoimmune Thyroid Activity in a Psychosis-Related Episode: A Case for Earlier Testing in Psychosis-Related Presentations

Sally Lee

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Tiantian Jing, MPH, Shanghai Jiao Tong University; Meanne Chan, PhD, St. George's, University of London; Zixuan Shen, BS, Northeast Normal University; Yihan Li, B. Med, Shanghai Jiao Tong University; Xiaowei Hu, MD, PhD; Sisi Li, PhD, Shanghai Jiao Tong University

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Enhancing Pharmacotherapeutic Outcomes in Severe Mental Illness: The Role of Inflammation and Clinical Predictors

Talal AlMuzaini; Livia Carvalho, Queen Mary University of London

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Stress-Related Inflammation and Health Disparities in Cancer Survivors: A Psychoneuroimmunological Perspective

Taylor Nicholas, MA; Thaddeus Pace, PhD, The University of Arizona

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Association between Sleep Disturbance and Inflammation in Mood Disorders: A Systematic Review and Meta-analysis

Valeria Fiori; Caterina Lombardo; Andrea Ballesio, La Sapienza

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Parallel Disinhibitory Actions of Prostaglandin EP1 and EP3 Receptors in Activating the Neuroendocrine Stress Response

Wataru Inoue; Samuel Mestern; Aoi Ichiyama, Western University

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A comparative Study of the Effects of Commonly Used Breast Cancer Chemotherapeutics on Gut-brain Axis Disruption in Mice

Yonaida Valentine, MS, The Ohio State University; Audrey Duff, PhD, Nationwide Children's Hospital; Brooke Escue, BS; Fizza Khalid, The Ohio State University; Michael Bailey, PhD, Nationwide Children's Hospital; Leah Pyter, PhD, MS, The Ohio State University

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Social Stress Exacerbates Colitis via Beta-adrenergic and ROS Signaling Pathways within Mucosal Compartments

Elisa Caetano-Silva, University of Illinois; Ivan Valishev, University of Pittsburgh; Miranda Hilt, Nationwide Children's Hospital; Casey Lim; Mikaela Kasperek; Akriti Shrestha; Robert McCusker, University of Illinois; Michael Bailey, Nationwide Children's Hospital; Jacob Allen, University of Illinois

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Social Media use Predicts Higher Levels of a Biomarker of Intestinal Permeability in a Cross Sectional and a Longitudinal Sample: Exploratory Analyses of Psychological Stress as a Potential Mediator

Jijeong Jeong, The Ohio State University; Tao Jiang, PhD, Stanford University; David Lee, PhD, SUNY Buffalo; Baldwin Way, PhD, The Ohio State University

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Chronic Airway Inflammation is Associated with Sex-specific Changes in Behaviour, Neuroinflammation and Gut Microbiota

Shivani Mandal; Paul Forsythe, University of Alberta

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Investigating Changes in the Gut Microbiome in Response to App-based Well-being Training

Margaret Thairu, University of Wisconsin- Madison; Simon Goldberg, University of Wisconsin-Madison; Wendy Lau, Center for Healthy Minds; Melissa Rosenkranz, University of Wisconsin-Madison; Kris Sankaran, University of Wisconsin-Madison; Richard Davidson, University of Wisconsin; Jo Handelsman, University of Wisconsin-Madison

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Establishing Age and Symptom Dependent Causal Effects Between Body Mass Index and Mood Disorders Using Summary-level Mendelian Randomisation

Alex Monson; Robyn Wootton, PhD; Claire Haworth, PhD, University of Bristol

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Inflammatory Predictors of Post-COVID Fatigue

Anthony Nuber-Champier, University of Geneva

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Translational Evidence of TCA Cycle Disruptions in Obesity: Implications for Neuropsychiatric Symptoms

Cassandra Gheorghe, PhD; Juliette Montet, Master; Sylvie Vancassel, PhD; Nathalie Castanon, PhD; Camille Amadiou, PhD; Quentin Leyrolle, PhD; Sandra Dexpert, PhD, University of Bordeaux; Cédric Beau, MD; Damien Forestier, MD; Patrick Ledaguenel, MD; Eric Magne, MD, Service de Chirurgie Digestive et Pariétale; Lucile Capuron, PhD, University of Bordeaux

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Combined Effects of Chronic Low-grade Inflammation and Early Life Adversity on Striatal Dopamine Synthesis Capacity: Relevance to Neuropsychiatric Comorbidity in Obesity

Juliette Montet; Enrica Montalban, PhD, University of Bordeaux; Joachim Mazère, MD, University of Bordeaux; Cédric Beau, MD, Service de Chirurgie Digestive et Pariétale; Damien Forestier, MD, Service de Chirurgie Digestive; Patrick Ledaguenel, MD, Service de Chirurgie Digestive et Pariétale, Eric Magne, MD, Service de Chirurgie Digestive PhD; Johanna Gostner, PhD, Innsbruck Medical University; Bruno Aouizerate, MD, University of Bordeaux; Lucile Capuron, PhD, University of Bordeaux

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The microbiome modulates peripheral metabolites and microglia development

Jordan Hamden, PhD; Claire Sie, BSc; Shreya Gandhi; Natalia Carranza, BSc; Apsara Srinivas, BSc; Vivien Dang, MSc; Jatin Choudhary; Morgan Towriss, BSc; Carolina Tropini, PhD; Annie Ciernia, PhD, University of British Columbia

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Is there ANA Risk? A Retrospective Analysis Assessing the Long-term Psychiatric Outcomes in Patients Testing Positive for Antinuclear Antibodies, in the Absence of an Autoimmune Disease Diagnosis

Katharine Lynch-Kelly, MBBS; Danish Hafeez, MBBS, Psychosis Studies, Institute of Psychiatry, Psychology and Neuroscience, King's College London; Vasishta Polisetty, MBBS, MD; Katharina Schmack, MD, PhD, Neural Circuits and Immunity in Psychosis Laboratory, Francis Crick Institute; Thomas A Pollak, MBBS, PhD, Psychosis Studies, Institute of Psychiatry, Psychology and Neuroscience, King's College London

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Low-grade Inflammation and Attachment Style Modulate Social Biases toward Self and Others

Leonie Balter, Donders institute, Stockholm University, Karolinska Institutet; Ivana Burić; Jos Bosch, University of Amsterdam

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Stress-induced Inflammatory Activity Moderates the Association between Daily Negative Affect and Future Depressive Symptom Severity during Early Bereavement

Lydia Wu-Chung, PhD, University of Pittsburgh; Daniel Argueta, BA, Rice University; Ryan Brown, PhD, Texas Tech University; Robert Suchting, PhD, University of Texas Health Science Center at Houston; Michelle Chen, PhD, Texas Christian University; Angie LeRoy, PhD, University of North Florida; Kyle Murdock, PhD, Pennsylvania State University; Cobi Heijnen, PhD; Christopher Fagundes, PhD, Rice University

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Peripheral Blood Transcriptomic Differences Between Schizophrenia and Depression Highlight Lymphocyte and Neutrophil Function

Matej Markota, MD, Mayo Clinic; Jonathan Leung, RPh, BCPP, Mayo Clinic; Kayla Ryan; Obie Allen IV; Barbara Gisabella, PhD, University of Mississippi Medical Center; Rammohan Shukla, PhD, University of Wyoming; Harry Pantazopoulos, PhD, University of Mississippi Medical Center

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The Human Integrated Sensor System (HISS): Harnessing the Power of Psychoneuroimmunology for the Early Detection of Biological Threat Exposure

Michail Laoumtzis, BMedSc(Hons); Samuel Evans, PhD; Sanam Mustafa, PhD; Daniel Barratt, PhD; Mark Hutchinson, PhD, The University of Adelaide

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The gut-derived metabolites as a new tool to improve mental health.

Quentin Leyrolle, PhD; Toshiko Sekijima; Mathilde Huart; Camille Amadieu; Sophie Layé; Bruno Aouizerate; Lucile Capuron, University of Bordeaux

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Neuronal Damage in the Amygdala as the Neuropathological Basis for Mood and Anxiety Disorders in Neuropsychiatric Lupus

Rachel Weissman-Tsukamoto, BSc, MAT; Kaitlin Carroll, PhD; Zaide Ibic, BSc; Czeslawa Kowal, PhD; Bruce Volpe, MD; Betty Diamond, MD, Feinstein Institute of Molecular Medicine

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Gender-Dependent and Interactive Associations of Interleukin-10, Testosterone, and Estradiol with Mild Cognitive Impairment

Rayan Elahi, BA; Erik Knight, PhD, University of Colorado Boulder; Jennifer Graham-Engeland, PhD; Christopher Engeland, PhD, The Pennsylvania State University

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Increased Sleep Disturbances during Chemotherapy Mediate the Effects of Increased Circulating IL1 β on Decreased Subjective Cognition

Zoe Tapp, PhD; Jeremy Beales, MS; Seth Adarkwah Yiadom; Rebecca Andridge, PhD, The Ohio State University; Robert Wesolowski, MD, Wexner Medical Center; Leah Pyter, PhD, The Ohio State University

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The Effect of Seasonal Allergy on Symptoms of Anxiety and Depression

Lina S. Hansson; Catarina Lensmar, Karolinska Institutet; Rasmus Skarp; Freja Anckers, Uppsala University; Mats J. Olsson; Sandra Tamm, Karolinska Institutet; Bianka Karshikoff, University of Stavanger; Anna Andreasson, Stockholm University; Mats Lekander, Karolinska Institutet

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Investigating the Role of C-Reactive Protein in Functional Brain Connectivity Alterations in Psychosis: A Multimodal Analysis

Edward Palmer, MBBS, University of Birmingham; Amalie Couch, PhD, University of Oxford; Benjamin Perry, MBBS PhD, University of Birmingham; Rachel Upthegrove, MBBS PhD, University of Oxford; Jack Rogers, PhD, University of Birmingham

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Stressor controllability shapes acute changes in microglia morphology in the rat medial prefrontal cortex

Christalie Anor; Thomas Matulis, BA; Ashley Kim, BA; Liam Doney, BA; Margot Sonia, BA; Elizabeth Schwartz, BA; Analise Hagnell, BA; Yuechu Lu, BA, Boston College

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Increased Appetite Predicts Fatigue Improvement Following Anti-inflammatory Treatment in Depression

Mandakh Bekhbat; Andrew Miller, MD; Ebrahim Haroon, MD; Jennifer Felger, PhD, Emory University

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Drug-Target Mendelian Randomization Identifies Drivers of Immune-mediated Risk and Therapeutic Targets, Gemma Smith; P. B. Muroe; Livia Carvalho, Queen Mary University of London

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