BRAIN, BEHAVIOR, & IMMUNITY - HEALTH

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DESCRIPTION

*Brain, Behavior, and Immunity - Health* (BBI - Health) is an **open access journal** and a companion title to *Brain, Behavior, and Immunity*. Both journals are the official journals of the Psychoneuroimmunology Research Society (PNIRS).

*BBI Health* publishes peer-reviewed basic, experimental, and clinical studies, dealing with behavioral, neural, endocrine, and immune system interactions in humans and animals, with an emphasis on research that has translational impact and clinical implications. The content spans a broad range of research fields, from neuroscience to immunology, from physiology to behavioural sciences, from psychiatry and psychology to clinical medicine, from molecular and cellular models to social and epidemiological observations.

Publications include research articles, reviews, special issues, research protocols, case reports, and viewpoints discussing policy, including ethical, health and cultural implications of research in psychoneuroimmunology.

*Brain, Behavior, and Immunity - Health* is a **Gold Open Access** journal with no subscription charges. Instead, an article publishing charge (APC) is payable by the author or research funder to cover the costs associated with publication. Authors who publish in BBI Health will have a choice of license options, retain copyright to their published work, and their work will be immediately, permanently, and freely accessible.

For full information on publishing your paper open access in *Brain, Behavior, and Immunity - Health*, visit the journal's open access information page and guide for authors.

**Please note: PNIRS members will receive a 15% discount on the full APC.**

Research areas are broadly similar to those of *Brain, Behavior, and Immunity*, but with an emphasis on papers of translational relevance, such as:

- Biomarker analysis in patient samples and longitudinal cohorts.
- Results of clinical trials that examine psychological and psychiatric outcomes following treatment with drugs modulating the immune system.
- Results of clinical trials that examine immunological outcomes following treatment with drugs that affect the brain or psychological intervention.
- Cellular and animal work with compounds that have potential therapeutic applications.
• Protocol for clinical studies and clinical trials in these areas.

ABSTRACTING AND INDEXING
Directory of Open Access Journals (DOAJ)

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Social Media Editor
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Gut microbiome, brain-gut axis, stress physiology, innate immunity, bacterial infection, mucosal inflammation
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Blood-brain barrier
Ruth Barrientos, OHIO STATE UNIVERSITY, Columbus, Ohio, United States of America
Aging, Neuroinflammation, Learning and Memory, High fat diet, Microglia, Surgery, Exercise
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Neuroimmunology, immunopsychiatry, immunosenescence, T cells, chronic stress, bipolar disorder, major depression, aging
Shamgar Ben-Eliyahu, Tel Aviv University Sagol School of Neuroscience, Tel Aviv, Israel
Stress and cancer progression
Rommy von Bernhardi, Pontifical Catholic University of Chile, Santiago de Chile, Chile
Aging, Alzheimer’s disease, bioethics, glial cells, human research ethics, Neurodegenerative disease, Neuroinflammation, signaling pathways
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Microglia, Neurodevelopment, Cytokines
Alessandra Borsini, Institute of Psychiatry Psychology and Neuroscience, London, United Kingdom
Neuroinflammation, Neurogenesis, Nutrition, Depression, Stress, Neurodegeneration
Julienne Bower, University of California Los Angeles, Los Angeles, California, United States of America
Focuses broadly on mind-body interactions among individuals diagnosed with life-threatening illnesses such as cancer
Elisa Brietzke, Queen’s University Department of Psychology, Kingston, Ontario, Canada
Neurobiology and innovative interventions on mood disorders
Lena Brundin, Van Andel Research Institute, Grand Rapids, Michigan, United States of America
Neuroinflammation, suicide, depression
Claudia Buss, Charite University Hospital Berlin Institute of Clinical Psychology, Berlin, Germany
fetal/developmental programming, stress, brain development
JANE PEI-CHEN CHANG, China Medical University Hospital, Taichung, Taiwan
ADHD, Child and adolescent, Depression, Nutritional psychiatry, Omega-3

**Lucile Capuron**, Nutrition and Integrated Neurobiology, Bordeaux, France
Psychoneuroimmunology; Immunopsychiatry; Mood Disorders; Inflammation; Translational and clinical research

**Monica Carson**, University of California Riverside, Riverside, California, United States of America
Exploring usage of Microglia as Biosensors and Bioeffectors of Brain Health

**Livia Carvalho**, Queen Mary University of London, London, United Kingdom
Depression, inflammation, epidemiology, drug development, clinical translational sciences

**Jonathan Cavanagh**, University of Glasgow, Glasgow, United Kingdom
Preclinical and clinical research. Preclinical: mouse studies on mechanisms of sickness behaviour (especially chemokines and leukocyte biology); Clinical: Neuroimaging of chronic inflammatory diseases e.g. rheumatoid and related conditions, peripheral inflammatory biomarkers

**Lisa Christian**, OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER, Columbus, Ohio, United States of America
Studying use of psychoneuroimmunology (PNI) research approaches to examine how stress “gets under the skin” to impact health by affecting the neuroendocrine and immune systems.

**Christopher Coe**, University of Wisconsin Madison, Madison, Wisconsin, United States of America
Development, Aging, Immune Health, Biomarkers, Nutrition, Pregnancy, Nonhuman Primate

**Bruno Conti**, Scripps Research Institute, La Jolla, California, United States of America
Neuroinflammation, Neurodegeneration, Cytokines, Temperature regulation, Aging

**Erin Costanzo**, University of Wisconsin Madison, Madison, Wisconsin, United States of America
Clinical psychology, Health psychology, Hematology, Oncology, Psychooncology, Women's health, Quality of life

**John F. Cryan**, University College Cork Department of Anatomy and NeuroScience, Cork, Ireland
Stress, Microbiome, Neuroimmunology

**Alexis Cullen**, Institute of Psychiatry Psychology and Neuroscience, London, United Kingdom
Psychosis, Schizophrenia, Stress, Childhood, Epidemiology

**Colm Cunningham**, University of Dublin Trinity College School of Biochemistry and Immunology, Dublin, Ireland
Understanding interaction between systemic inflammation in the brain to bring about exacerbation of neurodegenerative disease

**Charlotte D’Mello**, University of Calgary, Calgary, Alberta, Canada
Neuroimmunology, Sickness Behavior, Fatigue, Periphery-to-brain signaling, Cytokines, Inflammation

**Anne-Marie van Dam**, Amsterdam UMC Location VUMC Department of Anatomy & Neuroscience, Amsterdam, Netherlands
Neuroimmunology, Glia, post-mortem, in vivo models, in vitro

**Andrea Danese**, Institute of Psychiatry Psychology and Neuroscience, London, United Kingdom
Child trauma, early life stress

**A. Courtney DeVries**, Ohio State University, Columbus, Ohio, United States of America
Effects of social stress on the histological and behavioral consequences of experimental stroke

**Terrence Deak**, Binghamton University Department of Psychology, Binghamton, New York, United States of America
Neuroimmunology, Stress neurobiology, Affective dysfunction, Neurodevelopmental disorder, Aging

**Kumlesh Dev**, The University of Dublin Trinity College, Dublin, Ireland
Neurosciences and drug development

**Bonnie Dittel**, Versiti Blood Research Institute, San Diego, California, United States of America
Immunology

**Niels Eijkelkamp**, University Medical Centre, Utrecht, Netherlands
Pain, neuropathy, neuroimmunology, sensory neurons, macrophages, mitochondria, Cytokines

**David Engblom**, Linköping University, Linköping, Sweden
Immune-to-brain communication, motivation, aversion, fever, genetic mouse models

**Chris Engelkland**, Pennsylvania State University, University Park, United States of America
How stress, age, gender, and hormones affect immunity, inflammation, and health

**Sonja Entinger**, Charité Université Hospital Institute of Medical Psychology, Berlin, Germany
Prenatal stress, early life adversity, developmental programming of health and disease risk, telomere biology

**Jennifer Felger**, Emory University School of Medicine, Atlanta, Georgia, United States of America
Behavioral Immunology, Neuroimaging, Animal Models

**Rafael Fernandez-Botran**, University of Louisville, Louisville, Kentucky, United States of America
Understanding the mechanisms that control the activity of cytokines in vivo and developing novel immunotherapeutic approaches to the treatment of disease

**Laura Fonken**, The University of Texas at Austin Department of Pharmacology and Toxicology, Austin, Texas, United States of America
Aging; Microglia Priming, Circadian Rhythms
Jane Foster, McMaster University Department of Psychiatry and Behavioural Neurosciences, Hamilton, Ontario, Canada
Behavioural Neuroscience, microbiome, neurodevelopment, immune-brain, animal models, depression, inflammatory mediators

Matthew Frank, University of Colorado Boulder Department of Psychology and Neuroscience, Boulder, Colorado, United States of America
Neuroimmunology

Gregory Freund, University of Illinois at Chicago Department of Pathology, Chicago, Illinois, United States of America
Mouse behavior testing

Ian Galea, University of Southampton Faculty of Medicine, Southampton, United Kingdom
Blood-brain barrier, central nervous system effects of systemic inflammation, brain haemorrhage

Doina Ganea, Temple University, Philadelphia, Pennsylvania, United States of America
Immune system, chronic inflammatory response and the development of autoimmune disorders

Matthew Frank, University of Colorado Boulder Department of Psychology and Neuroscience, Boulder, Colorado, United States of America
Neuroimmunology

Gregory Freund, University of Illinois at Chicago Department of Pathology, Chicago, Illinois, United States of America
Mouse behavior testing

Ian Galea, University of Southampton Faculty of Medicine, Southampton, United Kingdom
Blood-brain barrier, central nervous system effects of systemic inflammation, brain haemorrhage

Doina Ganea, Temple University, Philadelphia, Pennsylvania, United States of America
Immune system, chronic inflammatory response and the development of autoimmune disorders

Alban Gaultier, University of Virginia, Charlottesville, Virginia, United States of America
Glía, Depression, neuroinflammation, myelin

Jonathan P. Godbout, Ohio State University, Columbus, Ohio, United States of America
Aging and neuroimmunology, brain injury and intervention project, stress and immunology

David Goldsmith, Emory University School of Medicine, Atlanta, Georgia, United States of America
Impact of inflammation on the brain in patients with psychiatric illness

Reginald Gorczynski, University of Toronto, Toronto, Ontario, Canada
Immunology; Autoimmune and allergic disease; Immunoregulation; Tolerance; Cytokines

Peter Grace, The University of Texas MD Anderson Cancer Center Department of Symptom Research, Houston, Texas, United States of America
Pain, glía, cytokines

Lois Harden, University of the Witwatersrand, School of Physiology, Parktown, South Africa
Fever, Sickness behaviour, Neuroinflammation

Andrew Harkin, Trinity College Institute of Neuroscience, Dublin, Ireland
Pharmacology, psychotrophic drugs, antidepressants, recreational drugs, neuropsychiatric disorders, cell and animal models, biomarkers

Ebrahim Haroon, Emory University, Atlanta, Georgia, United States of America
Stress, Depression, Neurobiological mechanisms

Neil Harrison, Cardiff University Brain Research Imaging Centre, Cardiff, United Kingdom
Psychoneuroimmunology, Psychiatry, Immunopsychiatry, Depression, Neuroimaging, MRI, PET, Neuroimmunology

Kenji Hashimoto, Chiba University Center for Forensic Mental Health, Division of Clinical Neuroscience, Chiba Chuo Ward, Japan
Psychiatric disorders, Antidepressant, D-Amino acids, Depression, psychosis, Neuropsychopharmacology, Ketamine, NMDA Receptor

Cobi Heijnen, The University of Texas MD Anderson Cancer Center Department of Symptom Research, Houston, Texas, United States of America
Psychoneuroimmunology, human and preclinical animal research, neuroprotectants

Suzi Hong, University of California San Diego Department of Family Medicine and Public Health, La Jolla, California, United States of America
Neuroendocrine pathways in brain-immune interactions; leukocyte trafficking; inflammation underlying CNS and behavioral symptoms and outcomes

Mark Hutchinson, The University of Adelaide Adelaide Medical School, Adelaide, South Australia, Australia
Neuroimmunopharmacology, pain, addiction, biophotonics, sensing, drug development, clinical trials

Michael Irwin, UCLA Jane and Terry Semel Institute for Neuroscience and Human Behavior, Los Angeles, California, United States of America
Psychiatry/Psychoneuroimmunology

Linda Janusek, Loyola University Chicago Marcella Niehoff School of Nursing, Maywood, Illinois, United States of America
Clinical Studies; Breast Cancer and Stress; Inflammation and Health Disparity; Stress and HPA axis; Childhood Adversity

David Jessop, University of Bristol, Bristol, United Kingdom
Neuroimmunology, Cortisol, Stress

Chun-Lei Jiang, Second Military Medical University, Shanghai, China
Stress Medicine and Psychoneuroimmunology

John Johnson, Kent State University, Kent, Ohio, United States of America
Nervous and immune systems, behavior and cognitive functioning.

Rodney Johnson, University of Illinois at Urbana-Champaign, Champaign, Illinois, United States of America
Neuroimmunology, Behavior, Microglia, Aging, Development

Ian Johnston, The University of Sydney, Sydney, New South Wales, Australia
Psychoneuroimmunology, Human and non-human spatial cognition, The effects of food and exercise on the brain and behaviour

Annemieke Kavelaars, UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER, Houston, Texas, United States of America

Pain and Neuroimmunology

Amanda Kentner, Massachusetts College of Pharmacy and Health Sciences, Boston, Massachusetts, United States of America

Animal Models; Neuroinflammation; Early life adversity; Environmental Enrichment; Neuroendocrinology; Neuroprotection; Neurorehabilitation; Maternal Care; Sex difference

Golam Khandaker, University of Bristol, Bristol, United Kingdom

Role of Inflammation in Depression, Schizophrenia and Physical and Psychiatric Multimorbidity.

Marcy Kingsbury, MASSACHUSETTS GENERAL HOSPITAL, Boston, Massachusetts, United States of America

Oxytocin, autism spectrum disorder, microglia, gut-brain axis, microbiota, neurodevelopmental disorders

Edouard Kouassi, University of Montreal Department of Medicine and Medical specialties, Montréal, Quebec, Canada

Molecular mechanisms of brain-immune connections, Role of inflammatory cytokines in psychiatric disorders, Serotonin and the immuno-hematological system

Alexander Kusnecov, Rutgers University Department of Psychology, Piscataway, New Jersey, United States of America

Stress, cytokines, behavior, neuroimmunological disease, depression, schizophrenia

Julie Lasselin, Stockholm University, Stockholm, Sweden

Psychoneuroimmunology, Behavioral neuroscience

David A. Lawrence, Wadsworth Center, Albany, New York, United States of America

Immunotoxicology Neuroimmunology

Sophie Layé, University of Bordeaux, Bordeaux, France

Nutrition and Integrated Neurobiology

Yong Li, Shanghai Jiao Tong University School of Medicine, Shanghai, China

Neuroscience

Quentin Qiang Liu, Dalian University of Technology, Dalian, China

Biochemistry and Molecular Biology

David Loane, University of Maryland School of Medicine, Baltimore, Maryland, United States of America

The complexities of TBI, neuroinflammation and tissue repair

Francis Lotrich, University of Pittsburgh, Pittsburgh, Pennsylvania, United States of America

focusing on major depressive disorder (MDD), understanding the interaction between genetic vulnerability and inflammatory cytokines

Amy Lovett-Racke, The Ohio State University Department Cancer Biology and Genetics, Columbus, Ohio, United States of America

Neurotoxins, Neuroparalysis and Regeneration

Christopher Lowry, University of Colorado Boulder, Boulder, Colorado, United States of America

Microbiome-gut-brain axis

John Lukens, University of Virginia, Charlottesville, Virginia, United States of America

Multiple sclerosis, mental illness, neuroimmunology, innate immunology, anxiety, cognitive deficits, inflammasomes

Susan Lutgendorf, The University of Iowa, Iowa City, Iowa, United States of America

Psychoneuroimmunology, Biobehavioral Oncology, Positive Psychology, Women's Health

Marina Lynch, The University of Dublin Trinity College, Dublin, Ireland

Neuroinflammation, Ageing, Alzheimer's disease, Glial (particularly microglial) biology

Kelley Madden, University of Rochester, Rochester, New York, United States of America

Stress, Sympathetic Activation and Breast Tumor Growth and Metastasis

Steven Maier, University of Colorado Boulder Department of Psychology and Neuroscience, Boulder, Colorado, United States of America

Neurochemistry and neuropharmacology of stress, drug addiction, bi-directional communication between the brain and the immune system, psychoneuroimmunology

Anna Marsland, University of Pittsburgh Department of Psychology, Pittsburgh, Pennsylvania, United States of America

Psychoneuroimmunology; human research; acute and chronic stress; clinical trials; inflammation; asthma

Herbert Mathews, Loyola University Chicago Stritch School of Medicine, Maywood, Illinois, United States of America

Immunology, Microbiology, Epigenetics

Urs Meyer, University of Zurich, Zurich, Switzerland

Behavioral Neuroscience and Neuroimmunology
Andrew Miller, Emory University School of Medicine, Atlanta, Georgia, United States of America
Inflammation, Depression, Anhedonia, Cytokines, Immunometabolism

Gregory Miller, Northwestern University, Evanston, Illinois, United States of America
Behavioral and biomedical sciences, stress and health connections

Paul Mills, University of California San Diego Department of Family Medicine and Public Health, La Jolla, California, United States of America
Integrative medicine, Psychoneuroimmunology, Heart failure, Cardiovascular disease

Valeria Mondelli, King's College London Institute of Psychiatry Psychology and Neuroscience The Maurice Wohl Clinical Neuroscience Institute, London, United Kingdom
Stress, Depression, Psychosis, Inflammation, Cortisol

Dwight Nance, University of California Irvine Susan Samuelsi Integrative Health Institute, Santa Ana, California, United States of America
Long-term immunological and behavioral effects of metabolic and physical challenges

Gregory Miller, Northwestern University, Evanston, Illinois, United States of America
Behavioral and biomedical sciences, stress and health connections

Valeria Mondelli, King's College London Institute of Psychiatry Psychology and Neuroscience The Maurice Wohl Clinical Neuroscience Institute, London, United Kingdom
Stress, Depression, Psychosis, Inflammation, Cortisol

Dwight Nance, University of California Irvine Susan Samuelsi Integrative Health Institute, Santa Ana, California, United States of America
Long-term immunological and behavioral effects of metabolic and physical challenges

Yvonne Nolan, University College Cork National University of Ireland, Cork, Ireland
Neuroinflammation, hippocampal neurogenesis, neurodegeneration, memory and mood behaviour in rodent models, exercise, adolescence and ageing

Mark Opp, University of Colorado Boulder, Boulder, Colorado, United States of America
Neuroscience; Sleep; Neuroinflammation

Yvonne Nolan, University College Cork National University of Ireland, Cork, Ireland
Neuroinflammation, hippocampal neurogenesis, neurodegeneration, memory and mood behaviour in rodent models, exercise, adolescence and ageing

Mark Opp, University of Colorado Boulder, Boulder, Colorado, United States of America
Neuroscience; Sleep; Neuroinflammation

Marie-Odile Parat, The University of Queensland School of Pharmacy, Woolloongabba, Queensland, Australia
Opioids, analgesia and cancer; caveolae

Regina Pekelmann Markus, University of Sao Paulo Institute of Biosciences, SAO PAULO, Brazil
Chronopharmacolgy, Neuroimmunoendocrine modulation

Yu-Ping Peng, Nantong University, Nantong, China
Neuroimmunology; Neuroinflammation

Quentin Pittman, Hotchkiss Brain Institute, Calgary, Alberta, Canada
Neuroimmune system, Fever, Neurophysiology, Neuropharmacology, Co-morbidity, Inflammation

Alan Prossin, The University of Texas Health Science Center at Houston John P and Katherine G McGovern Medical School, Houston, Texas, United States of America
PET imaging of neuroimmune interactions in negative affective states (pain, depression)

Leah Pyter, OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER, Columbus, Ohio, United States of America
Cancer, wound healing, behavior, neuroinflammation, neuroendocrinology

Ning Quan, Florida Atlantic University, Boca Raton, Florida, United States of America
Neuroimmunology, neuroscience, immunology, behavior, cytokines

Charles Raison, Emory University, Atlanta, Georgia, United States of America
Immune system effects on central nervous system as a strategy to reduce inflammatory responses to psychosocial stress

Annabelle Reaux Le Goazigo, Institute of Vision, Paris, France
Pain, trigeminal pain, neuroinflammation, chemokine, opioids

Laura Redwine, University of California San Diego, La Jolla, California, United States of America
Psychosocial, behavioral and neuroimmune factors and cardiovascular disease

Teresa Reyes, University of Cincinnati College of Medicine, Cincinnati, Ohio, United States of America
Early life environment (nutrition, inflammation), brain development and cognition

Justin Rhodes, Beckman Institute for Advanced Science and Technology, Urbana, Illinois, United States of America
Behavioral neuroscience, behavioral genetics, learning and memory, mouse behavior, exercise-brain interactions, drug addiction in mouse models

Nicholas Rohleder, Brandeis University, Waltham, Massachusetts, United States of America
Psychoneuroimmunology, Health Psychology, Psychoneuroendocrinology, Stress, Biological Psychology

Asya Rolls, Technion Israel Institute of Technology The Ruth and Bruce Rappaport Faculty of Medicine, Haifa, Israel
Neuronal networks, peripheral immunity, reward, cancer

Christoph Rummel, University of Giessen, Gießen, Germany
Immune-to-brain communication, adipokines, obesity and neuro-immune interactions, aging and neuro-immune interactions, psychological stress, cytokines, local and systemic inflammation and
the brain, prostaglandins, omega 3 fatty acids, fever, sepsis, sickness behavior, hypothalamus, circumventricular organs, inflammatory transcription factors, TLR-Agonists

Jonathan Savitz, Laureate Institute for Brain Research, Tulsa, Oklahoma, United States of America

Viruses, Kynurenine Pathway, Mood Disorders, Adaptive Immunity

Paul Sawchenko, Salk Institute for Biological Studies, La Jolla, California, United States of America

Neurobiology, Neuroimmunology, Inflammation, Stress

Manfred Schedlowski, University Hospital Essen Institute of Medical Psychology and Behavioral Immunobiology, Essen, Germany

Behavioral conditioning of immune responses, inflammation, behavior, stress, depression

Steven Schleifer, Rutgers New Jersey Medical School, Newark, New Jersey, United States of America

Psychoneuroimmunology and psychosomatic medicine

John Sheridan, OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER, Columbus, Ohio, United States of America

Immunology and Stress biology

Richard Simpson, University of Arizona, Tucson, Arizona, United States of America

Exercise Immunology; exercise oncology; isolation and confinement stress; cellular therapy; stem cell transplantation

George Slavich, University of California Los Angeles, Los Angeles, California, United States of America

Stress, inflammation, depression, health

Cai Song, Guangdong Ocean University, Zhanjiang, China

Animal models of neurodegenerative and psychiatric disease, Neuropsychimmunology, glia cells and neuron interaction, neuropharmacology, brain nutrition

Sarah J. Spencer, RMIT University, Melbourne, Victoria, Australia

Stress, hypothalamic-pituitary-adrenal axis, obesity, metabolism, microglia, neuroinflammation, development

Amit K. Srivastava, The University of Texas Health Science Center at Houston Department of Pediatrics, Houston, Texas, United States of America

Neuroscience, Regenerative medicine

Huanxing Su, University of Macau, Taipa, Macao

Brain glymphatic pathways; dementia; neurodegenerative disease

Kuan-Pin Su, China Medical University, Taichung City, Taiwan

Translational Brain Research, Depression, Immunopsychiatry, Nutritional Psychiatry, Omega-3 fatty acids, Biological Psychiatry

Jessica Teeling, Southampton General Hospital, Southampton, United Kingdom

Antibody mediated inflammation in the CNS, and how these responses may contribute to the pathogenesis of neuroinflammatory and neurodegenerative diseases

Federico Turkheimer, King's College London, London, United Kingdom

Neuroimaging Analysis & Statistics

Judy Van De Water, University of California Davis, Davis, California, United States of America

Immunobiology of autism spectrum disorders

Charles V. Vorhees, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, United States of America

Developmental neurotoxicity, perinatal effects of antidepressants & amphetamines, pyrethroids, manganese, cognitive assessment, behavioral phenotyping

Jian Wang, Johns Hopkins University School of Medicine, Baltimore, Maryland, United States of America

Protein and RNA Homeostasis in Neurodegeneration

Linda Watkins, University of Colorado Boulder, Boulder, Colorado, United States of America

Psychology and Neuroscience

Zachary Weil, OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER, Columbus, Ohio, United States of America

Basic biology and long-term consequences of traumatic brain injuries

Eric Wohleb, University of Cincinnati College of Medicine, Cincinnati, Ohio, United States of America

Neuroimmunology, Neurobiology of Disease, Neuropharmacology

Jeffrey Woods, University of Illinois at Urbana-Champaign, Champaign, Illinois, United States of America

Exercise Physiology with Expertise in Immunology, Gut Microbiome and Aging

Long-Jun Wu, Mayo Clinic, Rochester, Minnesota, United States of America

Neuroimmunology, Microglia, Pain, Epilepsy, Neurodegeneration

Raz Yirmiya, Hebrew University of Jerusalem Department of Psychology, Jerusalem, Israel

Brain microglia and inflammatory cytokines in cognition, emotion, neuroplasticity, and neurogenesis

Tifei Yuan, Shanghai Mental Health Center, Shanghai, China

Brain stimulation; Synaptic Plasticity; Stress; Microglia; Drug addiction

Patricia Zunszain, Institute of Psychiatry Psychology and Neuroscience, London, United Kingdom

Immunity and mental health, Molecular biology, Education
GUIDE FOR AUTHORS

Your Paper Your Way
We now differentiate between the requirements for new and revised submissions. You may choose to submit your manuscript as a single Word or PDF file to be used in the refereeing process. Only when your paper is at the revision stage, will you be requested to put your paper in to a 'correct format' for acceptance and provide the items required for the publication of your article.
To find out more, please visit the Preparation section below.

Introduction

Brain, Behavior, and Immunity Health (BBI Health), founded in 2019, is one of the two official journals of the Psychoneuroimmunology Research Society (PNIRS). BBI health is a sister journal to the more established Brain, Behavior, and Immunity, which was founded in 1987.

BBI Health is a Gold OA journal that publishes peer-reviewed basic, experimental, and clinical studies dealing with behavioral, neural, endocrine, and immune system interactions in humans and animals, with an emphasis on research that has translational impact and clinical implications. The content spans a broad range of research fields, from neuroscience to immunology, from physiology to behavioural sciences, from psychiatry and psychology to clinical medicine, from molecular and cellular models to social and epidemiological observations.

Publications include research articles, reviews, special issues, research protocols, case reports, and viewpoints discussing policy, including ethical, health and cultural implications of research in psychoneuroimmunology. We would like to particularly highlight that BBI Health will publish paper formats not accepted in its sister journal BBI, including research protocols, e.g. of clinical trials testing immunological interventions for mental health outcomes, or testing mental health interventions for immunological outcomes case reports of interest to the psychoneuroimmunology research community, spanning medical, psychiatric and neurological disorders realist reviews, illustrating the method for implementation research papers discussing policy, including ethical, health and cultural implications of research in psychoneuroimmunology.

This innovative journal publishes peer-reviewed basic, experimental, and clinical studies dealing with behavioral, neural, endocrine, and immune system interactions in humans and animals, but with a clear translation angle. It is an international, interdisciplinary journal devoted to original research in neuroscience, immunology, integrative physiology, behavioral biology, psychiatry, psychology, and clinical medicine and is inclusive of research at the molecular, cellular, social, and whole organism level.

The journal features online submission and review. Manuscripts are typically peer-reviewed and returned to authors within 30 days of submission, leading to timely publication of experimental results.

Detailed instructions for authors can be found here.

Research areas include: Pharmacological and therapeutic manipulation of mechanisms that convey messages between the immune and nervous systems and regulate their functions. Interventions to modulate the link between stress and immunity, including through the effects of stress-related hormones and neurotransmitters on the immune system. Therapeutic changes of cytokines, growth factors and PAMP activation on neuronal and glial cells that regulate behavior, learning, memory and neurogenesis. Role of hormones, growth factors and cytokines in the immune and central or peripheral nervous systems Interactions between the immune system and brain that are involved in development of neurological, psychiatric, and mental health disorders Role of immunological processes in neurodegenerative disorders. The effects of psychotropic medications on immunological mechanisms and their potential relevance to therapeutic interventions. Neuroimaging studies examining how
immunological mechanisms affect brain structure and function. Clinical trials and experimental studies testing the effects on both immune stimulation and immune suppression on brain and behaviour. The role of microglia in pain, psychological processes and in psychiatric disorders. Immunological mechanisms affect brain structure and function.

**Types of Article**

Original full-length research reports, full-length review articles, short communications (which also includes case reports and case series), brief commentaries invited by the editors, research and study protocols, and letters to the editor will be considered for publication.

Publications include research articles, reviews, special issues, research protocols, case reports, and viewpoints discussing policy, including ethical, health and cultural implications of research in psychoneuroimmunology. We would like to particularly highlight that BBI Health will publish paper formats not accepted in its sister journal BBI, including research protocols, e.g. of clinical trials testing immunological interventions for mental health outcomes, or testing mental health interventions for immunological outcomes case reports of interest to the psychoneuroimmunology research community, spanning medical, psychiatric and neurological disorders. Realist reviews, illustrating the method for implementation research papers discussing policy, including ethical, health and cultural implications of research in psychoneuroimmunology.

**Full-length research reports:** The chief criteria for the acceptance of submitted papers are the quality, originality, and clarity of the work reported, addressing one or more of the research areas reported above with a clear translational angle. However, research and study protocols (for example, relevant to clinical trials) are also included in this format. There is no word limit on full length research reports, but papers should be consisely written and most should be able to articulate their findings within approximately 6,000 words.

**Reviews:** The journal publishes invited or unsolicited reviews on a contemporary topic, discussed authoritatively with the aim of providing a solid, and often novel, interpretation of research evidence that is clinically relevant. Reviews consist of approximately 6,000 words of text and no more than 100 scientific references. Reviews must contain at least one figure highlighting the key aspects of the article, complete with explanatory figure legends. If appropriate, a color version of the figure can be published in the online publication, with a black-and-white figure in the print version. If the author chooses this option, the figure legend must be self-explanatory in the absence of color-coding.

**Short communications:** Manuscripts published as short communications are, primarily, reports of novel, solid, important findings on contemporary, fast-moving topics. Small replication studies or incomplete data that do not move the field forward, and descriptions of methods and techniques, are not appropriate for this format. Papers will be considered short communications if the text, references, and a maximum of two tables or figures (or one of each) are limited to 3,500 words. Authors may elect to include additional illustrations, but the limitation to 3,500 words will remain.

**Commentaries:** These are short pieces written to accompany the publication of impactful full-length research reports. Invited by the Editor, they are limited to 900-1000 words and 5-10 references (including a reference to the relevant published report).

**Viewpoints:** These are opinion pieces that provide a personal view on broad, contemporary topics relevant to the interaction between health, brain, behaviour and immunity. Invited by the Editor, they are limited to 900-1000 words and 5-10 references, and will generally be immediately ‘open-access’ at no costs to the authors.

**Letters to the editor:** These should be of high scientific quality, contain less than 500 words, and cite no more than 5 scientific references. If the letter is directed to a paper published in Brain, Behavior, and
Submission checklist
You can use this list to carry out a final check of your submission before you send it to the journal for review. Please check the relevant section in this Guide for Authors for more details.

Ensure that the following items are present:

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