

# Psychoneuroimmunology

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Psychoneuroimmunology is the study of the interaction between psychological processes and the nervous and immune systems of the human body. PNI has an interdisciplinary approach, interlacing disciplines as psychology, neuroscience, immunology, physiology, pharmacology, psychiatry, behavioral medicine, infectious diseases, endocrinology, rheumatology and others. The main interest of PNI is the interaction between the nervous and immune systems, and the relation between mind processes and health. PNI studies, among other things, the physiological functioning of the neuroimmune system in health and disease; disorders of the neuroimmune system, the physical, chemical and physiological characteristics of the components of the neuroimmune system in vitro, in situ, and in vivo. PNI studies may also involve endocrinology and may be referred as psychoendoneuroimmunology. ( [From the Wikipedia article Psychoneuroimmunology](#) .)

## Recent Publications on Psychoneuroimmunology:



- [Alternate pathways preserve tumor necrosis factor-alpha production after nuclear factor-kappaB inhibition in neonatal cerebral hypoxia-ischemia.](#)  
*BACKGROUND AND PURPOSE: Nuclear factor-kappaB (NF-kappaB) is an important...*18th November, 2009  
Laboratory of Psychoneuroimmunology, University Medical Center Utrecht,- Stroke. 2009 Oct;40(10):3362-8. Epub 2009 Jul 23. ([DOI Direct Link](#))
- [Neuroendocrine circuitry and endometriosis: progesterone derivative dampens corticotropin-releasing hormone-induced inflammation by peritoneal cells in vitro.](#)  
*Clinical symptoms of endometriosis, such as pain and infertility, can be...*10th November, 2009  
Center of Internal Medicine and Dermatology, Division of- J Mol Med. 2009 Nov 8. ([DOI Direct Link](#))
- [Mesenchymal stem cell treatment after neonatal hypoxic-ischemic brain injury improves behavioral outcome and induces neuronal and oligodendrocyte regeneration.](#)  
*Birth asphyxia is a frequent cause of perinatal morbidity and mortality...*4th November, 2009  
Laboratory for Psychoneuroimmunology, University Medical Center Utrecht,- Brain Behav Immun. 2009 Oct 31. ([DOI Direct Link](#))
- [\[Placebo effects with great clinical potential\]](#)  
*Birth asphyxia is a frequent cause of perinatal morbidity and mortality...*3rd November, 2009  
- MMW Fortschr Med. 2009 Sep 10;151(37):20.
- [Psychological stress and wound healing in humans: a systematic review and meta-analysis.](#)  
*OBJECTIVE: The current review aims to synthesize existing knowledge about...*3rd November, 2009  
Institute of Psychiatry, Department of Psychology, King's College London,- J Psychosom Res. 2009 Sep;67(3):253-71. Epub 2009 Jul 2. ([DOI Direct Link](#))
- [The role and regulation of hypoxia-inducible factor-1alpha expression in brain development and](#)

[neonatal hypoxic-ischemic brain injury.](#)

*During neonatal hypoxic-ischemic brain injury, activation of transcription...*30th September, 2009  
Department of Neonatology, Wilhelmina Children's Hospital, University- Brain Res Rev. 2009 Sep 25. ([DOI Direct Link](#))

• [\[Chronic fatigue syndrome: a psychoneuroimmunological perspective.\]](#)

*This article casts light on the contribution that psychoneuroimmunology...*26th September, 2009  
Universitaire Ziekenhuizen Leuven en als buitengewoon hoogleraar Medische- Tijdschr Psychiatr. 2009;51(8):603-10.

• [Inhibition of the JNK/AP-1 pathway reduces neuronal death and improves behavioral outcome after neonatal hypoxic-ischemic brain injury.](#)

*Perinatal hypoxic-ischemic (HI) brain damage continues to be a major...*22nd September, 2009  
Laboratory of Psychoneuroimmunology, University Medical Center Utrecht,- Brain Behav Immun. 2009 Sep 17. ([DOI Direct Link](#))

• [Psychoneuroimmunology Psychology's Gateway to the Biomedical Future.](#)

*How do stressful events and negative emotions influence the immune system,...*15th September, 2009  
Department of Psychiatry and the Institute for Behavioral Medicine- Perspect Psychol Sci. 2009 Jul 1;4(4):367-369. ([DOI Direct Link](#))

• [Mild neonatal hypoxia-ischemia induces long-term motor- and cognitive impairments in mice.](#)

*To understand and potentially treat the lifelong cognitive and motor...*15th September, 2009  
Department of Psychoneuroimmunology, University Medical Center Utrecht,- Brain Behav Immun. 2009 Sep 11. ([DOI Direct Link](#))

• [Reply.](#)

*OBJECTIVE: The current review aims to synthesize existing knowledge about...*18th August, 2009  
UCLA Semel Institute for Neuroscience, Cousins Center for- Biol Psychiatry. 2009 Aug 14. ([DOI Direct Link](#))

• [Psychoneuroimmunology: application to ocular diseases.](#)

*Psychoneuroimmunology (PNI) is a relatively new discipline within the...*13th August, 2009  
University of Miami Miller School of Medicine, Bascom Palmer Eye- J Ocul Biol Dis Infor. 2009 Jun;2(2):84-93. Epub 2009 Aug 2. ([DOI Direct Link](#))

• [Prospective association between C-reactive protein and fatigue in the coronary artery risk development in young adults study.](#)

*BACKGROUND: Fatigue is highly prevalent and causes serious disruption in...*31st July, 2009  
Cousins Center for Psychoneuroimmunology, Semel Institute for Neuroscience- Biol Psychiatry. 2009 Nov 1;66(9):871-8. Epub 2009 Jul 29. ([DOI Direct Link](#))

• [Deployment-related severe fatigue with depressive symptoms is associated with increased glucocorticoid binding to peripheral blood mononuclear cells.](#)

*Severe fatigue and co-morbid depressive symptoms are frequently reported...*29th July, 2009  
Laboratory of Psychoneuroimmunology, University Medical Center Utrecht,- Brain Behav Immun. 2009 Nov;23(8):1132-9. Epub 2009 Jul 25. ([DOI Direct Link](#))

• [Behavioral Comorbidities in Rheumatoid Arthritis: A Psychoneuroimmunological Perspective.](#)

*BACKGROUND AND PURPOSE: Nuclear factor-kappaB (NF-kappaB) is an important...*11th July, 2009  
Dr Irwin is Norman Cousins Professor in the department of psychiatry and- Psychiatr Times. 2008 Aug 1;25(9):1.

**Psychoneuroimmunology Patents:**



- 5202119- [Method of stimulating immune response](#)
- 5798102- [Treatment of cardiomyopathy](#)
- 5840299- [Humanized antibodies against leukocyte adhesion molecule VLA-4](#)
- 5851996- [Materials and methods for treatment of plaquing diseases](#)
- 5915241- [Method and system encoding and processing alternative healthcare provider billing](#)
- 5958912- [Ocular therapy in keratoconjunctivitis sicca using topically applied androgens of TGF-.beta.](#)
- 5965379- [Method for measuring endogenous cytokines](#)
- 5972938- [Method for treating or preventing psychoimmunological disorders](#)
- 6113907- [Pharmaceutical grade St. John's Wort](#)
- 6174916- [Methods for treating herpes virus infections](#)
- 5753624- [Materials and methods for treatment of plaquing disease](#)
- 5744139- [Insulin-like growth factor I \(IGF-1\) induced improvement of depressed T4/T8 ratios](#)
- 5317012- [Human growth hormone induced improvement in depressed T4/T8 ratio](#)
- 5403263- [Method of reducing the recovery time and stress associated with surgery](#)
- 5519047- [Immunomodulatory activity of exogenous melatonin following traumatic injury](#)
- 5546943- [Stimulating a beneficial human response by using visualization of medical scan data to achieve psychoneuroimmunological virtual reality](#)
- 5583109- [Method of stimulating immune response](#)
- 5587294- [Method and kit for measuring endogenous cytokines](#)
- 5597563- [Method induction of antigen-specific immune tolerance](#)
- 5620921- [Ocular androgen therapy in sjogren's syndrome](#)
- 5688765- [Ocular therapy in Sjogren's syndrome using topically applied androgens or TGF-.beta.](#)
- 6232311- [Method for treating or preventing psychosomatic and psychoimmunologic disorders](#)
- 6303127- [Treatment of disease states](#)
- 7209588- [Unified system and method for animal behavior characterization in home cages using video analysis](#)
- 7252957- [Identification of etiology of autism](#)
- 7288257- [Diagnosis and treatment of human dormancy syndrome](#)
- 7435420- [Dipeptidyl peptidase IV inhibitors for the treatment of anxiety](#)
- 7435802- [Humanized anti-VLA4 immunoglobulins](#)
- 7462618- [Treatment of inflammatory autoimmune diseases with alpha-adrenergic antagonists and beta-adrenergic agonists](#)
- 7485298- [Diagnosis and treatment of human dormancy-related sequelae](#)
- 7562981- [Biological information acquisition and presentation kit, and pupillary diameter measurement kit](#)
- 7576101- [Composition for and treatment of demyelinating diseases and paralysis by administration of remyelinating agents](#)
- 7177079- [Method and overhead system for performing a plurality of therapeutic functions within a room](#)
- 7132104- [Modulation of central nervous system \(CNS\) dipeptidyl peptidase IV \(DPIV\) -like activity for the treatment of neurological and neuropsychological disorders](#)
- 6425764- [Virtual reality immersion therapy for treating psychological, psychiatric, medical, educational and self-help problems](#)
- 6443734- [Method and apparatus for analysis](#)
- 6573261- [Method for treating or preventing psychosomatic and psychoimmunologic disorders](#)
- 6583154- [Compounds and methods which modulate feeding behavior and related diseases](#)
- 6648649- [Method and apparatus for analysis](#)
- 6678413- [System and method for object identification and behavior characterization using video analysis](#)
- 6713054- [Cellular immunotherapy treatment of patients afflicted with chronic fatigue syndrome](#)
- 6870673- [Method and overhead system for performing a plurality of therapeutic functions within a room](#)
- 6973374- [Method and device for administering medication and/or placebo](#)
- 7605166- [Methods and compositions for treating rheumatoid arthritis](#)

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Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

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