

Neurobiology

[View the current Neurobiology InDepth page on BioPortfolio.com \(PDF\)](#)

(<http://www.bioportfolio.com/indepth/Neurobiology.html>) - Regularly Updated.

Neurobiology is the study of cells of the nervous system and the organization of these cells into functional circuits that process information and mediate behavior. It is a subdiscipline of both biology and neuroscience. Neurobiology differs from neuroscience, a much broader field that is concerned with any scientific study of the nervous system. Neurobiology should also not be confused with other subdisciplines of neuroscience such as computational neuroscience, cognitive neuroscience, behavioral neuroscience, biological psychiatry, neurology, and neuropsychology despite the overlap with these subdisciplines. Scientists that study neurobiology are called neurobiologists. ([From the Wikipedia article Neurobiology.](#))



Recent Publications on Neurobiology:

- [Nitric oxide inhibits excitatory vagal afferent input to nucleus tractus solitarius neurons in anaesthetized rats.](#)
Objective Endogenous nitric oxide (NO) has been implicated in the... 21st November, 2009
Research Centre of Medicinal Chemistry and Chemical Biology, Chongqing- Neurosci Bull. 2009 Dec;25(6):325-334.
- [Clock Time and Embodied Time Experienced by Patients With Inoperable Lung Cancer.](#)
In this study, we explore how patients with inoperable lung cancer (LC)... 21st November, 2009
Authors' Affiliations: Department of Neurobiology, Caring Sciences and- Cancer Nurs. 2009 Nov 17. ([DOI Direct Link](#))
- [Photoperiod History Differentially Impacts Reproduction and Immune Function in Adult Siberian Hamsters.](#)
Seasonal changes in numerous aspects of mammalian immune function arise as... 21st November, 2009
Department of Psychology, University of Chicago, Chicago, Illinois,- J Biol Rhythms. 2009 Dec;24(6):509-522. ([DOI Direct Link](#))
- [Both GABA\(A\) and GABA\(B\) receptors mediate vagal inhibition in nucleus tractus solitarii neurones in anaesthetized rats.](#)
GABA receptors in the nucleus tractus solitarius (NTS) are known to play... 21st November, 2009
Institutes of Brain Science and State Key Laboratory for Medical- Auton Neurosci. 2009 Nov 16. ([DOI Direct Link](#))
- [The use of neuroproteomics in drug abuse research.](#)
The number of discovery proteomic studies of drug abuse has begun to... 21st November, 2009
Department of Pharmacology, Penn State College of Medicine, Hershey, PA- Drug Alcohol Depend. 2009 Nov 16. ([DOI Direct Link](#))
- [Differential effects of substance P or hemokinin-1 on transient receptor potential channels, TRPV1, TRPA1 and TRPM8, in the rat.](#)

- Two tachykinin peptides, substance P (SP) and hemokinin-1 (HK-1), and...* 21st November, 2009
Division of Neurobiology, Faculty of Medicine, University of Miyazaki,- Neuropeptides. 2009 Nov 17. ([DOI Direct Link](#))
- [Blockade effects of BIBN4096BS on CGRP-induced check to whole-cell K\(+\) currents in spinal dorsal horn neuron of rats.](#)
Calcitonin gene-related peptide (CGRP) plays an important role in the... 21st November, 2009
Laboratory of Neurobiology and National Laboratory of Biomembrane and- Neurosci Lett. 2009 Nov 16. ([DOI Direct Link](#))
 - [The neuropathologic substrate of Parkinson disease dementia.](#)
Calcitonin gene-related peptide (CGRP) plays an important role in the... 20th November, 2009
Institute of Clinical Neurobiology, Kenyongasse 18, 1070, Vienna, Austria,- Acta Neuropathol. 2009 Nov 19. ([DOI Direct Link](#))
 - [Postembryonic development of centrally generated flight motor patterns in the hawkmoth, *Manduca sexta*.](#)
This study analyses the maturation of centrally generated flight motor... 20th November, 2009
Institute of Anatomy I: Cellular Neurobiology, University Medical Center,- J Comp Physiol A Neuroethol Sens Neural Behav Physiol. 2009 Nov 19. ([DOI Direct Link](#))
 - [Ultraviolet polarisation sensitivity in the stomatopod crustacean *Odontodactylus scyllarus*.](#)
The ommatidia of crustacean eyes typically contain two classes of... 20th November, 2009
Sensory Neurobiology Group, School of Biomedical Sciences, University of- J Comp Physiol A Neuroethol Sens Neural Behav Physiol. 2009 Nov 19. ([DOI Direct Link](#))
 - [Calcium-Dependent Increases in Protein Kinase-A Activity in Mouse Retinal Ganglion Cells Are Mediated by Multiple Adenylate Cyclases.](#)
Neurons undergo long term, activity dependent changes that are mediated by... 20th November, 2009
Neurobiology Section, Division of Biological Sciences, University of- PLoS One. 2009 Nov 17;4(11):e7877. ([DOI Direct Link](#))
 - [Microglia and Microglia-Like Cell Differentiated from DC Inhibit CD4 T Cell Proliferation.](#)
The central nervous system (CNS) is generally regarded as a site of immune... 20th November, 2009
Department of Neurobiology, Taishan Medical College, Taian, Shandong- PLoS One. 2009 Nov 17;4(11):e7869. ([DOI Direct Link](#))
 - [Heat stress triggers apoptosis by impairing NF-kappaB survival signaling in malignant B cells.](#)
Nuclear factor-kappaB (NF-kappaB) is involved in multiple aspects of... 20th November, 2009
[1] Department of Biology, University of Rome Tor Vergata, Via della- Leukemia. 2009 Nov 19. ([DOI Direct Link](#))
 - [Novel Repression of Kcc2 Transcription by REST-RE-1 Controls Developmental Switch in Neuronal Chloride.](#)
Transcriptional upregulation of Kcc2b, the gene variant encoding the major... 20th November, 2009
Departments of Medicine/Neurology and Neurobiology and Center for- J Neurosci. 2009 Nov 18;29(46):14652-14662. ([DOI Direct Link](#))
 - [Divergent Pathways Mediate Spine Alterations and Cell Death Induced by Amyloid- \$\beta\$, Wild-Type Tau, and R406W Tau.](#)
Alzheimer's disease is characterized by synaptic alterations and... 20th November, 2009
Department of Neurobiology, University of Osnabruck, D-49076 Osnabruck,- J Neurosci. 2009 Nov 18;29(46):14439-14450. ([DOI Direct Link](#))

BioNews Results for Neurobiology

- [New Data on the Pharmacotherapy and Neurobiology of ADHD: An Expert Interview With Floyd R. Sallee, MD, PhD](#)
Abstracts in Hematology and Oncology: Nov 19 2009 8:22PM Matching: neurobiology

- [Patents are crucial to embryonic stem cell research, scientist says](#)
Deutsche Welle: Nov 16 2009 4:37PM Matching: neurobiology
- [Initial Association Of A Smell Will Leave A Unique And Lasting Impression In The Brain](#)
MedIndia: Nov 13 2009 7:47AM Matching: neurobiology
- [New Brain Findings on Dyslexic Children: Study](#)
MedIndia: Nov 12 2009 6:07PM Matching: neurobiology
- [Medical News: New Brain Findings On Dyslexic Children](#)
BioFind: Nov 12 2009 4:46PM Matching: neurobiology
- [Children with developmental dyslexia have difficulties separating relevant auditory information from irrelevant noise](#)
News-Medical.Net: Nov 12 2009 6:50AM Matching: neurobiology
- [New Brain Findings On Dyslexic Children](#)
Red Orbit: Nov 12 2009 1:10AM Matching: neurobiology
- [New brain findings on dyslexic children](#)
Genetic Engineering News: Nov 11 2009 6:26PM Matching: neurobiology
- [New Brain Findings On Dyslexic Children: Good Readers Learn From Repeating Auditory Signals, Poor Readers Do Not](#)
Science Daily: Nov 11 2009 6:22PM Matching: neurobiology
- [New brain findings on dyslexic children](#)
EurekAlert!: Nov 11 2009 6:04PM Matching: neurobiology
- [Medical News: Scientists Create A 'Golden Ear' Mouse With Great Hearing As It Ages](#)
BioFind: Nov 10 2009 6:51PM Matching: neurobiology
- [Medical News: Scientists Create A 'Golden Ear' Mouse With Great Hearing As It Ages](#)
BioFind: Nov 10 2009 6:51PM Matching: neurobiology
- [Weizmann Institute scientists reveal how some aromas are bound up in our memories](#)
News-Medical.Net: Nov 10 2009 12:20PM Matching: neurobiology
- [How aggressive cells invade the brain](#)
Scientist Live: Nov 9 2009 1:03PM Matching: neurobiology
- [Hearing Loss Study Focuses On AIDS Patients: 'people with HIV may be aging prematurely. May play a role in hea](#)
National AIDS Treatment Advocacy Project: Nov 9 2009 9:35AM Matching: neurobiology

Neurobiology Patents:



- 7601722- [Aryl sulfamide derivatives and methods of their use](#)
- 7608585- [Compositions for inhibition of necrosis induced by a neurotrophin](#)
- 7608633- [Heteroaryl-substituted acetone derivatives as inhibitors of phospholipase A.sub.2](#)
- 7608692- [Exendins and exendin agonists modified with albumin](#)
- 7608707- [siRNA targeting survivin](#)
- 7608718- [4,5-dihydro-1H-pyrazole derivatives having potent CB.sub.1-antagonistic activity](#)
- 7608749- [Monitoring APP cleavage in transgenic rodents comprising an APP Swedish mutation](#)
- 7610096- [Methods for treating central nervous system damage](#)
- 7610166- [Geolocation system and method for determining mammal locomotion movement](#)
- 7611850- [Ion channel assay methods](#)

- [7611857- IL-receptor like molecules and uses thereof](#)
- [7608412- P62 as a diagnostic tool for alzheimer's disease](#)
- [7605252- siRNA targeting kinase insert domain receptor \(KDR\)](#)
- [7605250- siRNA targeting cAMP-specific phosphodiesterase 4D](#)
- [7601742- Pyrrolidones with anti-HIV activity](#)
- [7601816- Antibodies to cyclooxygenase variants](#)
- [7601818- Human anti-NGF neutralizing antibodies as selective NGF pathway inhibitors](#)
- [7601829- Nucleic acids and proteins of insect Or83b odorant receptor genes and uses thereof](#)
- [7603174- Stimulation of the amygdalohippocampal complex to treat neurological conditions](#)
- [7604993- Combined regulation of neural cell production](#)
- [7605128- Neurogenerative or neurotrophic factors for mitigating a symptom of ischemia](#)
- [7605140- Regulation of angiogenesis with zinc finger proteins](#)
- [7605177- Effects of glycyl-2 methyl prolyl glutamate on neurodegeneration](#)
- [7605179- Napthoquinone derivatives as inhibitors of tau aggregation for the treatment of alzheimer's and related neurodegenerative disorders](#)
- [7612042- Methods for inhibiting heregulin and treating cancer](#)
- [7612058- Methods for inhibiting sterol absorption](#)
- [7618619- Colored visco-elastic composition](#)
- [7618621- Mammalian multipotent neural stem cells and compositions, methods of preparation and methods of administration thereof](#)
- [7618622- Treatment of Parkinson's disease and related disorders using postpartum derived cells](#)
- [7618631- Treatment with anti-ErbB2 antibodies and EGFR-targeted drugs](#)
- [7618958- Stereospecific anxiolytic and anticonvulsant agents with reduced muscle-relaxant, sedative-hypnotic and ataxic effects](#)
- [7618960- Morpholine type cinnamide compound](#)
- [7618967- Indane compounds](#)
- [7619005- Methods for treating cognitive impairment in humans with Multiple Sclerosis](#)
- [7619081- siRNA targeting coatomer protein complex, subunit beta 2 \(COPB2\)](#)
- [7620451- Methods and apparatus for pulsed electric field neuromodulation via an intra-to-extravascular approach](#)
- [7618614- Hydrocephalus treatment](#)
- [7617005- Methods and apparatus for thermally-induced renal neuromodulation](#)
- [7615558- 6-arylmethylprazolol\[3,4-d\]pyrimidines](#)
- [7612181- Dual variable domain immunoglobulin and uses thereof](#)
- [7612196- siRNA targeting cyclin-dependent kinase inhibitor 1B \(p27, Kip1\) \(CDKN1B\)](#)
- [7613519- Peripheral nerve stimulation to treat auditory dysfunction](#)
- [7613520- Spinal cord stimulation to treat auditory dysfunction](#)
- [7615356- Ion channel assay methods](#)
- [7615357- Ion channel assay methods](#)
- [7615359- Copolymer 1 related polypeptides for use as molecular weight markers and for therapeutic use](#)
- [7615377- Fluorescein-based metal sensors](#)
- [7615541- siRNA targeting TIE-2](#)
- [7615554- Erastin and erastin binding proteins, and uses thereof](#)
- [7620456- Systems and methods for reducing the likelihood of inducing collateral neural activity during neural stimulation threshold test procedures](#)

Resources from the [NCBI](#) used in this document, [NCBI's standard disclaimer applies](#).

Nothing in this document should be used in place of personal medical advice from your own qualified medical practitioner. See BioPortfolio.com [User Agreement](#)

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)

All rights reserved. All other trademarks recognized.

BioPortfolio Limited is registered in England & Wales at Stafford House, 10 Prince of Wales Road, Dorchester, Dorset, DT1 1PW, UK. No.3312883 VAT No. GB 744 6483 10

Copyright 1997-2009 - BioPortfolio Limited.

