

Habenula

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In neuroanatomy, habenula originally denoted the stalk of the pineal gland, but gradually came to refer to a neighboring group of nerve cells with which the pineal gland was believed to be associated, the habenular nucleus. Currently, the Terminologia Anatomica term refers exclusively to this separate cell mass in the caudal and dorsal aspect of the dorsal thalamus, the epithalamus, embedded in the posterior end of the medullary stria from which it receives most of its afferent fibers. By way of the retroflex fasciculus it projects to the interpeduncular nucleus and other paramedian cell groups of the midbrain tegmentum. Despite its proximity to the pineal stalk, no connecting tissue is known to exist. The habenula is involved in receiving input from the brain via the stria medullaris thalami and output to many midbrain areas involved in releasing personality-related neurotransmitters and neuromodulators, such as dopamine, norepinephrine, and serotonin. The habenula is the only nucleus of the epithalamus.

Recent Publications on Habenula:



- [Testosterone-driven seasonal regulation of vasopressin and galanin in the bed nucleus of the stria terminalis of the Djungarian hamster \(*Phodopus sungorus*\).](#)
The sexually dimorphic vasopressin system of the bed nucleus of the stria... 1st October, 2008
Neuro-behavioural Biology Center, Institute of Science and Technology for- Neuroscience. 2008 Sep 6. ([DOI Direct Link](#))
- [Targeting the caudal intralaminar nuclei for functional neurosurgery of movement disorders.](#)
The caudal intralaminar nuclei, in particular the Centrum-Medianum... 25th September, 2008
Inserm and Joseph Fourier University, CEA Minatec LETI, Cinatec Building- Brain Res Bull. 2008 Sep 20. ([DOI Direct Link](#))
- [Co-localization of nitric oxide synthase and choline acetyltransferase in the brain of the goldfish \(*Carassius auratus*\).](#)
This work investigates the nitroergic and cholinergic systems in the brain... 23rd September, 2008
Department of Physiology and Zoology, University of Seville, Seville,- J Chem Neuroanat. 2008 Aug 30. ([DOI Direct Link](#))
- [Potential surgical targets for deep brain stimulation in treatment-resistant depression.](#)
OBJECT: The goal of this study was to evaluate the definition of... 18th September, 2008
Department of Neurosurgery, Geffen School of Medicine at University of- Neurosurg Focus. 2008;25(1):E3. ([DOI Direct Link](#))
- [Demonstration of functional alpha4-containing nicotinic receptors in the medial habenula.](#)
The medial habenula (MHb) exhibits exceptionally high levels of nicotinic... 16th September, 2008
Division of Biology, California Institute of Technology, Pasadena, CA- Neuropharmacology. 2008 Aug 26. ([DOI Direct Link](#))
- [\[Decision-making and learning by cortico-basal ganglia network\]](#)

Animals and humans have a wide variety of motor repertoires, and for this... 13th September, 2008
Laboratory of Sensorimotor Research, National Eye Institute, National- Brain Nerve. 2008
Jul;60(7):799-813.

- [Influence of neuronal nicotinic receptors over nicotine addiction and withdrawal.](#)
Cigarette smoking represents an enormous, global public health threat... 4th September, 2008
Department of Neuroscience, Baylor College of Medicine, One Baylor Plaza,- Exp Biol Med
(Maywood). 2008 Aug;233(8):917-29. Epub 2008 May 14. ([DOI Direct Link](#))
- [Involvement of the lateral habenula in the regulation of generalized anxiety- and panic-related defensive responses in rats.](#)
Recently obtained evidence points to the involvement of the lateral... 30th August, 2008
Department of Pharmacology, School of Medicine, University of Sao Paulo,- Life Sci. 2008 Jun
20;82(25-26):1256-61. Epub 2008 May 1. ([DOI Direct Link](#))
- [Response of the flat cochlear epithelium to forced expression of Atoh1.](#)
Following hair cell elimination in severely traumatized cochleae,... 30th August, 2008
Kresge Hearing Research Institute, The University of Michigan Medical- Hear Res. 2008
Jun;240(1-2):52-6. Epub 2008 Mar 7. ([DOI Direct Link](#))
- [Negative motivational control of saccadic eye movement by the lateral habenula.](#)
Reward is crucial for survival of animals and influences animal... 23rd August, 2008
Laboratory of Sensorimotor Research, National Eye Institute, National- Prog Brain Res.
2008;171:399-402. ([DOI Direct Link](#))
- [Leucine-rich repeat-containing G-protein-coupled receptor 8 in the rat brain: Enrichment in thalamic neurons and their efferent projections.](#)
Leucine-rich repeat-containing G-protein-coupled receptor 8 (LGR8; also... 19th August, 2008
Howard Florey Institute, The University of Melbourne, Victoria 3010,- Neuroscience. 2008 Oct
2;156(2):319-33. Epub 2008 Jul 25. ([DOI Direct Link](#))
- [The lateral habenula: no longer neglected.](#)
OBJECT: The goal of this study was to evaluate the definition of... 19th August, 2008
Behavioral Neuroscience Branch, Intramural Research Program, National- CNS Spectr. 2008
Jun;13(6):484-9.
- [Cerebral metabolic effects of fluoxetine, fluvoxamine, paroxetine and sertraline in the conscious rat.](#)
The selective serotonin reuptake inhibitors (SSRI) exert a wide range of... 14th August, 2008
Department of Pharmacology and Anesthesiology, University of Padova,- Neurosci Lett. 2008 May
9;436(2):148-52. Epub 2008 Mar 18. ([DOI Direct Link](#))
- [Error-specific medial cortical and subcortical activity during the stop signal task: A functional magnetic resonance imaging study.](#)
The ability to detect errors and adjust behavior accordingly is essential... 5th August, 2008
Department of Psychiatry, Connecticut Mental Health Center, S103, Yale- Neuroscience. 2008 Sep
9;155(4):1142-51. Epub 2008 Jul 8. ([DOI Direct Link](#))
- [P2X receptors and synaptic plasticity.](#)
Adenosine triphosphate (ATP) is released in many synapses in the CNS... 23rd May, 2008
The University of Warwick, Department of Biological Sciences, Gibbet Hill- Neuroscience. 2008 Apr 23.
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Habenula Patents:



- 6476019- [Spirocyclic ligands for sigma receptors, and libraries and methods of use thereof](#)
- 6790656- [DNA encoding galanin GALR2 receptors](#)
- 6818391- [Glutamate transporters](#)
- 6849727- [DNA encoding mammalian neuropeptide FF \(NPFF\) receptors and uses thereof](#)
- 6907280- [Method and apparatus for objectively measuring pain, pain treatment and other related techniques](#)
- 6933122- [A-form of cytoplasmic domain of nARIA \(CRD-neuregulin\) and uses thereof](#)
- 6958323- [Uses of .alpha.-conotoxin peptides](#)
- 6962985- [Mammalian neuralized family transcriptional regulators and uses therefor](#)
- 6967244- [Neuronal nicotinic acetylcholine receptor compositions](#)
- 6987004- [Genes integrating signal transduction pathways](#)
- 6987005- [DNA encoding SNORF33 receptor](#)
- 6780871- [Methods and compositions for treating addiction disorders](#)
- 6777236- [Process for producing a neuronal host cell in vitro comprising regulatory sequences of the .beta.2-subunit of the neuronal nicotinic acetylcholine receptor](#)
- 6762177- [Spirocyclic ligands for sigma receptors, and libraries and methods of use thereof](#)
- 6509163- [Methods of screening modulators of mammalian P2X7 purinergic receptors](#)
- 6528245- [Bone marrow cells as a source of neurons for brain and spinal cord repair](#)
- 6556868- [Methods for improving learning or memory by vagus nerve stimulation](#)
- 6586191- [Method of identifying compounds that bind galanin receptor \(GALR2\)](#)
- 6623738- [Semaphorin receptors](#)
- 6635479- [Hypothalamus-specific polypeptides](#)
- 6689581- [Potassium channel interactors and uses therefor](#)
- 6709831- [DNA encoding mammalian neuropeptide FF \(NPFF\) receptors and uses thereof](#)
- 6709866- [Methods for enhancing survival of a neuron](#)
- 6750196- [Methods of treating disorders of the eye](#)
- 6992077- [Spirocyclic ligands for sigma receptors, and libraries and methods of use thereof](#)
- 6994856- [ErbB4 receptor-specific neuregulin related ligands and uses therefor](#)
- 7132248- [Uses of galanin GALR2 receptors](#)
- 7235366- [Methods of identifying agonists and antagonists of opioid receptors](#)
- 7241805- [Modified release formulations of a bupropion salt](#)
- 7250496- [Bioinformatically detectable group of novel regulatory genes and uses thereof](#)
- 7252945- [DNA encoding mammalian neuropeptide FF \(NPFF\) receptors and uses thereof](#)
- 7262289- [KCNQ potassium channels and methods of modulating same](#)
- 7276339- [DNA encoding mammalian neuropeptide FF \(NPFF\) receptors and uses thereof](#)
- 7294463- [Method of screening for compounds that modulate activity of a regulatory sequence of the .beta.-2 subunit of a neuronal nicotinic acetylcholine receptor](#)
- 7371535- [Processes for determining compounds that interact with snorf33 receptor](#)
- 7405053- [Materials and methods relating to G-protein coupled receptor oligomers](#)
- 7122326- [Identification of modulators of neurotransmitter activity of xanthurenic acid](#)
- 7115381- [Methods for treating cardiovascular disorders](#)
- 7090985- [Methods for the identification of agents for the treatment of seizures, neurological diseases, endocrinopathies and hormonal diseases](#)
- 6998472- [Obesity gene](#)
- 7001720- [Cloning of a gene mutation for parkinson's disease](#)
- 7014838- [Use of biomolecular targets in the treatment and visualization of brain tumors](#)
- 7022321- [Use of marrow-derived glial progenitor cells as gene delivery vehicles into the central nervous system](#)
- 7030235- [Compositions to detect lesions associated with hearing loss in the cochlear gene, COCH5B2](#)
- 7034112- [Methods for diagnosis and treatment of MDK1 signal transduction disorders](#)
- 7041496- [DNA encoding rodent KCNQ2 potassium channel](#)
- 7041795- [Potassium channel interacting polypeptides and uses thereof](#)
- 7060449- [Method of preparing GALR2 receptors composition](#)

- 7078481- [Potassium channel interactors and uses therefor](#)
- 7416848- [DNA encoding SNORF25 receptor](#)

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