

Pharmacology

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Pharmacology is the study of how drugs interact with living organisms to produce a change in function. If substances have medicinal properties, they are considered pharmaceuticals. The field encompasses drug composition and properties, interactions, toxicology, therapy, and medical applications and antipathogenic capabilities. Pharmacology is not synonymous with pharmacy, though in common usage the two are at times confused. Pharmacology deals with how drugs interact within biological systems to affect function, while pharmacy is a medical science concerned with the safe and effective use of medicines. The origins of clinical pharmacology date back to the Middle Ages in Avicenna's The Canon of Medicine, Peter of Spain's Commentary on Isaac, and John of St Amand's Commentary on the Antedotary of Nicholas. Pharmacology as a scientific discipline did not further advance until the mid-19th century amid the great biomedical resurgence of that period. Before the second half of the nineteenth century, the remarkable potency and specificity of the actions of drugs such as morphine, quinine and digitalis were explained vaguely and with reference to extraordinary chemical powers and affinities to certain organs or tissues. The first pharmacology department was set up by Buchheim in 1847, in recognition of the need to understand how therapeutic drugs and poisons produced their effects. ([From the Wikipedia article Pharmacology.](#))

Recent Publications on Pharmacology:



- [Inhibitory effect of the cree traditional medicine wiishichimanaanh \(Vaccinium vitis-idaea\) on advanced glycation endproduct formation: identification of active principles.](#)
Like many aboriginal populations, First Nations communities such as the... 21st November, 2009
Canadian Institute of Health Research Team in Aboriginal Anti-diabetic- Phytother Res. 2009 Nov 19. ([DOI Direct Link](#))
- [Fospropofol disodium for sedation.](#)
The practice of procedural sedation is expanding rapidly because minimally... 21st November, 2009
Department of Anesthesiology, Duke University Medical Center, Durham,- Drugs Today (Barc). 2009 Aug;45(8):567-576. ([DOI Direct Link](#))
- [Effects of caffeic acid, rofecoxib, and their combination against quinolinic acid-induced behavioral alterations and disruption in glutathione redox status.](#)
Objective The neuroprotective roles of cyclooxygenase (COX) and... 21st November, 2009
Pharmacology Division, University Institute of Pharmaceutical Sciences,- Neurosci Bull. 2009 Dec;25(6):343-352.
- [Accumulation of common polymorphisms is associated with development of hypertension: a 12-year follow-up from the Ohasama study.](#)
Hypertension is a complex multi-factorial and polygenic disorder.... 21st November, 2009
[1] Department of Clinical Pharmacology and Therapeutics, Tohoku- Hypertens Res. 2009 Nov 20. ([DOI Direct Link](#))

- [Doxorubicin in Lymphoma: Association Between Pharmacokinetic Variability and Clinical Response.](#)
Despite many years of clinical use in Hodgkin lymphoma, no previous... 21st November, 2009
From the *Department of Medicine A, Meir Medical Center Kefar Saba,- Ther Drug Monit. 2009 Nov 18.
([DOI Direct Link](#))
- [Blood and Urinary Concentrations of Salbutamol in Asthmatic Subjects.](#)
PURPOSE:: Data on blood and urinary concentrations of salbutamol after... 21st November, 2009
1Respiratory and Allergy Research Unit, Bispebjerg Hospital, Copenhagen,- Med Sci Sports Exerc. 2009 Nov 13. ([DOI Direct Link](#))
- [Aerobic Fitness, Muscle Efficiency and Motor Unit Recruitment during Ramp Exercise.](#)
PURPOSE:: The purpose was to test whether the higher DeltaV O2/DeltaW in... 21st November, 2009
1Department of Movement and Sports Sciences, Ghent University, Belgium- Med Sci Sports Exerc. 2009 Nov 13. ([DOI Direct Link](#))
- [Pulse wave velocity and vascular calcification at different stages of chronic kidney disease.](#)
BACKGROUND: Increased arterial stiffness and vascular calcification have... 21st November, 2009
aINSERM, ERI-12 (EA 4292), France bClinical Research Centre - Division of- J Hypertens. 2009 Nov 18. ([DOI Direct Link](#))
- [Brain-Selective Overexpression of Human Angiotensin-Converting Enzyme Type 2 Attenuates Neurogenic Hypertension.](#)
Rationale: Angiotensin converting enzyme type 2 (ACE2) is a new member of... 21st November, 2009
Department of Pharmacology & Experimental Therapeutics and Cardiovascular- Circ Res. 2009 Nov 19. ([DOI Direct Link](#))
- [GTP Cyclohydrolase I Phosphorylation and Interaction With GTP Cyclohydrolase Feedback Regulatory Protein Provide Novel Regulation of Endothelial Tetrahydrobiopterin and Nitric Oxide.](#)
Rationale: GTP cyclohydrolase I (GTPCH-1) is the rate-limiting enzyme... 21st November, 2009
Division of Cardiology, Department of Medicine; and Graduate Program of- Circ Res. 2009 Nov 19. ([DOI Direct Link](#))
- [Selective N-acylethanolamine-hydrolyzing acid amidase inhibition reveals a key role for endogenous palmitoylethanolamide in inflammation.](#)
Identifying points of control in inflammation is essential to discovering... 21st November, 2009
Departments of Pharmacology and Biological Chemistry, University of- Proc Natl Acad Sci U S A. 2009 Nov 19. ([DOI Direct Link](#))
- [Absence of Myeloid COX-2 Attenuates Acute Inflammation but Does Not Influence Development of Atherosclerosis in Apolipoprotein E Null Mice.](#)
OBJECTIVE: The role of myeloid cell cyclooxygenase-2 (COX-2) in the... 21st November, 2009
Department of Molecular and Medical Pharmacology, Atherosclerosis Research- Arterioscler Thromb Vasc Biol. 2009 Nov 19. ([DOI Direct Link](#))
- [Cholinergic Modulation Differs between Basal and Apical Dendritic Excitation of Hippocampal CA1 Pyramidal Cells.](#)
We hypothesize that endogenous cholinergic modulation of dendritic... 21st November, 2009
Department of Physiology and Pharmacology and Department of Clinical- Cereb Cortex. 2009 Nov 19. ([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](#))

BioNews Results for Pharmacology

- [Crohn Disease Therapy: Researchers from University of Calgary, Departments of Medicine publish new studies and findings in the area of Crohn disease therapy](#)
NewsRX: Nov 21 2009 5:48AM Matching: pharmacology
- [New Consortium Paves the way for Improved Treatment of Hypertension and Associated Vascular Complications](#)
Bionity.com: Nov 21 2009 5:27AM Matching: pharmacology
- [Data from Niigata University provide new insights into angiogenesis](#)
Pharmacy Choice: Nov 20 2009 10:25PM Matching: pharmacology
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)
Yahoo! Canada: Nov 20 2009 3:48PM Matching: pharmacology
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)
Interest!ALERT: Nov 20 2009 3:21PM Matching: pharmacology
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TradingMarkets: Nov 20 2009 2:52PM Matching: pharmacology
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)
Street Insider: Nov 20 2009 2:48PM Matching: pharmacology
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)
GlobeNewswire via Yahoo!/: Nov 20 2009 2:06PM Matching: pharmacology
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- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)
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- [Early Intervention of Tyrosine Nitration Prevents Vaso-obliteration and Neovascularization in Ischemic Retinopathy](#)
MDLinx: Nov 20 2009 12:12PM Matching: pharmacology
- [Radiation exposures of cancer patients from medical X-rays: How relevant are they for individual patients and population exposure](#)
MDLinx: Nov 20 2009 12:09PM Matching: pharmacology
- [Laryngeal steroid injection](#)
MDLinx: Nov 20 2009 12:09PM Matching: pharmacology
- [Phase II Study of Dasatinib in Patients with Metastatic Castration-Resistant Prostate Cancer](#)
MDLinx: Nov 20 2009 12:06PM Matching: pharmacology
- [Pharmacology of steroids used during epidural steroid injections](#)
MDLinx: Nov 20 2009 11:54AM Matching: pharmacology

Pharmacology Patents:



- 7618622- [Treatment of Parkinson's disease and related disorders using postpartum derived cells](#)
- 7618946- [Analgesic compounds, extracts containing same and methods of preparation](#)
- 7618948- [Devices, systems and methods for improving and/or cognitive function through brain delivery of siRNA](#)
- 7618949- [Drug-eluting stents coated with P2Y.sub.12 receptor antagonist compound](#)

- 7618954- [Inositol pyrophosphates, and methods of use thereof](#)
- 7618958- [Stereospecific anxiolytic and anticonvulsant agents with reduced muscle-relaxant, sedative-hypnotic and ataxic effects](#)
- 7618960- [Morpholine type cinnamide compound](#)
- 7618961- [Inhibitors of 11-beta-hydroxy steroid dehydrogenase type 1](#)
- 7618962- [Pyrazolyl substituted xanthines](#)
- 7618966- [Abnormal Cannabidiols as agents for lowering intraocular pressure](#)
- 7618967- [Indane compounds](#)
- 7618940- [Fat regulation](#)
- 7618938- [Treating cerebrovascular diseases with erythropoietin and granulocyte-colony stimulating factor jointly](#)
- 7618626- [Combination treatment for non-hematologic malignancies](#)
- 7618629- [Manipulation of cytokine levels using CD83 gene products](#)
- 7618631- [Treatment with anti-ErbB2 antibodies and EGFR-targeted drugs](#)
- 7618642- [Expression cassettes encoding modified human immunodeficiency virus type 1 subtype C envelope glycoproteins](#)
- 7618649- [Extended release oral dosage composition](#)
- 7618650- [Combination of a hypnotic agent and substituted bis aryl and heteroaryl compound and therapeutic application thereof](#)
- 7618663- [Anti-arthritis herbal composition and method thereof](#)
- 7618770- [Methods and apparatus for reducing protein content in sperm cell extenders](#)
- 7618786- [Method for identifying modulators of human orexin-2 receptor](#)
- 7618791- [Methods of detecting cancer with antibodies to cytokine receptor ZCYTOR19](#)
- 7618977- [Method of treating dermatitis comprising administering a chymase inhibitor](#)
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- 7618982- [Heteroarylpyrrolopyridinones active as kinase inhibitors](#)
- 7619062- [PRO214 polypeptides](#)
- 7619064- [Bacillus thuringiensis gene with coleopteran activity](#)
- 7619068- [Ovr110 antibody compositions and methods of use](#)
- 7619071- [Antibodies that bind interleukin-17 receptor homologue](#)
- 7619079- [Db, the receptor for leptin, nucleic acids encoding the receptor, and uses thereof](#)
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- 7619096- [3-Aminopyrrolidines as inhibitors of monoamine uptake](#)
- 7619117- [Rasagiline formulations and processes for their preparation](#)
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- 7619006- [Conjugated psychotropic drugs and uses thereof](#)
- 7618984- [Sulfonamide compound](#)
- 7618989- [Tricyclic oxazolidone derivatives useful as PR modulators](#)
- 7618993- [Compounds](#)
- 7618996- [Diaryl ether derivatives and uses thereof](#)
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- 7618999- [Process of obtaining taxosteroids and precursors thereof](#)
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- 7619002- [Use of polyunsaturated fatty acids for the primary prevention of major cardiovascular events](#)
- 7619005- [Methods for treating cognitive impairment in humans with Multiple Sclerosis](#)
- 7620502- [Methods for identifying sets of oligonucleotides for use in an in vitro recombination procedure](#)

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