

Medical Biochemistry and Biophysics

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MBB has strong research tradition starting with its first professor Jöns Jacob Berzelius who e.g. discovered elements such as selenium, cerenium and thorium. Pehr Edman who developed protein sequencing worked at the Department, and three of its investigators have received the Nobel prize; Hugo Theorell for his work on oxidative enzymes and Sune Bergström and Bengt Samuelsson who discovered prostaglandins and leukotriens. Research at MBB has had a major impact on medical research. The first commercial gas chromatograph-mass spectrometer was designed and constructed at the Department, and the structure and mechanisms of actions of biologically important compounds, such as heparin, gut hormones, enzymes of DNA synthesis, bile acids, prostaglandins and leukotriens, were elucidated at MBB. MBB, as department, was created in 1992 as a merge between former departments of Physiological Chemistry, Biochemistry and Medical Biophysics

Recent Publications by Medical Biochemistry and Biophysics:



- [Semiconstant-time P,H-COSY NMR: analysis of complex mixtures of phospholipids originating from *Helicobacter pylori*.](#)
Lipids play a central role in numerous biological events, ranging from... 17th November, 2009
Medical Biochemistry and Biophysics, Umea University, KBC Building,- J Am Chem Soc. 2009 Oct 14;131(40):14150-1. ([DOI Direct Link](#))
- [Crystal structure of the shutoff and exonuclease protein from the oncogenic Kaposi's sarcoma-associated herpesvirus.](#)
The Kaposi's sarcoma-associated herpesvirus protein SOX (shut off and... 22nd October, 2009
Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm,- FEBS J. 2009 Oct 16. ([DOI Direct Link](#))
- [Delayed dopaminergic neuron differentiation in Lrp6 mutant mice.](#)

- Wnts are known to bind and activate multiple membrane...* 2nd October, 2009
 Laboratory of Molecular Neurobiology, Medical Biochemistry and Biophysics,- Dev Dyn. 2009 Sep 30. ([DOI Direct Link](#))
- [Thermal unfolding of the archaeal DNA and RNA binding protein Ssh10.](#)
The reversible thermal unfolding of the archaeal histone-like protein... 30th August, 2008
 Medical Biochemistry and Biophysics, Karolinska Institutet, SE-171 77- Biochem Biophys Res Commun. 2008 Sep 5;373(4):482-7. Epub 2008 Jun 20. ([DOI Direct Link](#))
 - [Acetylcholine-induced Ca²⁺ oscillations are modulated by a Ca²⁺ regulation of InsP3R2 in rat portal vein myocytes.](#)
Oscillations of cytosolic Ca²⁺ levels are believed to have important roles... 13th August, 2008
 Molecular Neurobiology, Medical Biochemistry and Biophysics, Karolinska- Pflugers Arch. 2008 May;456(2):277-83. Epub 2007 Nov 20. ([DOI Direct Link](#))
 - [Differential expression and dynamic changes of murine NEDD9 in progenitor cells of diverse tissues.](#)
NEDD9 is a scaffolding protein in the integrin signaling pathway that is... 31st May, 2008
 Unit of Molecular Neurobiology, Medical Biochemistry and Biophysics,- Gene Expr Patterns. 2008 Apr;8(4):217-26. Epub 2008 Jan 19. ([DOI Direct Link](#))
 - [Stem-cell-based strategies for the treatment of Parkinson's disease.](#)
BACKGROUND: Cell transplantation to replace lost neurons in... 13th October, 2007
 Laboratory of Molecular Neurobiology, Medical Biochemistry and Biophysics,- Neurodegener Dis. 2007;4(4):339-47. ([DOI Direct Link](#))
 - [Dynamic temporal and cell type-specific expression of Wnt signaling components in the developing midbrain.](#)
Wnt1 and -5a have been shown to modulate the proliferation and... 22nd July, 2006
 Laboratory of Molecular Neurobiology, Medical Biochemistry and Biophysics,- Exp Cell Res. 2006 May 15;312(9):1626-36. Epub 2006 Feb 28. ([DOI Direct Link](#))
 - [Active site variability of type 1 11beta-hydroxysteroid dehydrogenase revealed by selective inhibitors and cross-species comparisons.](#)
The NADPH-dependent enzyme type 1 11beta-hydroxysteroid dehydrogenase... 1st June, 2006
 Medical Biochemistry and Biophysics, Karolinska Institutet, SE-171 77- Mol Cell Endocrinol. 2006 Mar 27;248(1-2):26-33. Epub 2006 Jan 20. ([DOI Direct Link](#))
 - [GSK-3beta inhibition/beta-catenin stabilization in ventral midbrain precursors increases differentiation into dopamine neurons.](#)
Wnts are important regulators of dopamine (DA) neuron differentiation in... 21st June, 2005
 Laboratory of Molecular Neurobiology, Medical Biochemistry and Biophysics,- J Cell Sci. 2004 Nov 15;117(Pt 24):5731-7. Epub 2004 Nov 2. ([DOI Direct Link](#))
 - [Attenuation of acute experimental colitis by preventing NPY Y1 receptor signaling.](#)
Neuropeptide Y (NPY), a 36-amino acid peptide, is widely expressed in the... 17th March, 2005
 Unit of Molecular Neurobiology, Scheeles vag 1, Medical Biochemistry and- Am J Physiol Gastrointest Liver Physiol. 2005 Mar;288(3):G550-6. Epub 2004 ([DOI Direct Link](#))
 - [Exploring the pharmacology of the leukotriene B4 receptor BLT1, without the confounding effects of BLT2.](#)
Most previous studies of leukotriene B4 (LTB4) pharmacology using primary... 17th February, 2005
 Medical Biochemistry and Biophysics, Karolinska Institute, MBB, Kemi II,- Eur J Pharmacol. 2004 Sep 19;499(1-2):53-65. ([DOI Direct Link](#))
 - [Biophysical properties of regions flanking the bHLH-Zip motif in the p22 Max protein.](#)
The Max protein is the central dimerization partner in the Myc-Max-Mad... 16th December, 2004
 Medical Biochemistry and Biophysics, Karolinska Institutet, 171 77- Biochem Biophys Res Commun. 2004 Oct 22;323(3):750-9. ([DOI Direct Link](#))
 - [Human and rodent type 1 11beta-hydroxysteroid dehydrogenases are 7beta-hydroxycholesterol dehydrogenases involved in oxysterol metabolism.](#)
Interconversion between cortisone and the glucocorticoid receptor ligand... 16th June, 2004
 Medical Biochemistry and Biophysics, Karolinska Institutet, 17177- Cell Mol Life Sci. 2004 Apr;61(7-8):992-9. ([DOI Direct Link](#))

Press Releases on Medical Biochemistry and Biophysics:

Why Some Vaccines May Require A Booster	27th November, 2009	Rochester General Health System	ROCHESTER, N.Y., Nov. 27 /PRNewswire-USNewswire/ -- Preventing disease is the goal of every health care provider and fortunately every year, new vaccines are being added to assist in disease
Infection-Control Strategies at Leading Hospital Can be Adapted for Everyday Use	27th November, 2009	Hospital for Special Surgery	NEW YORK, Nov. 27 /PRNewswire/ -- With cold and flu season upon us, it's more important than ever to employ good practices to control the spread of infections and avoid illness. "We need to
New Hologic SecurView(R) DX Diagnostic Workstation Software Streamlines Workflow, Improves Radiologist Productivity	25th November, 2009	Hologic, Inc.	BEDFORD, Mass., Nov. 25 /PRNewswire-FirstCall/ -- Hologic, Inc. (Hologic or the Company) (Nasdaq: HOLX), a leading developer, manufacturer and supplier of premium diagnostics, medical imaging systems
Sentinelle Medical Launches Aegis Suite of Oncology 4D Visualization Software with PureWeb(TM) Technology	25th November, 2009	Sentinelle Medical Inc.	TORONTO, Nov. 25 /PRNewswire/ - Sentinelle Medical Inc., a leading manufacturer of breast MRI coils and advanced visualization software launches a suite of new leading edge clinical applications on
Sentinelle Medical Inc. Introduces Aegis(TM) Web Powered By Calgary Scientific's PureWeb Technology	25th November, 2009	Sentinelle Medical Inc.	TORONTO and CALGARY, Nov. 25 /PRNewswire/ - Sentinelle Medical Inc., a leading manufacturer of Magnetic Resonance Imaging (MRI) coils and software and Calgary Scientific Inc., a leading provider of

BioNews Results for Medical Biochemistry and Biophysics



- [Schizophrenia Gene's Role May Be Broader, More Potent, Than Thought](#)
MediLexicon: Nov 21 2009 1:44PM Matching: medical biochemistry biophysics
- [Medical News: Schizophrenia Gene's Role May Be Broader, More Potent, Than Thought](#)
BioFind: Nov 21 2009 1:01PM Matching: medical biochemistry biophysics
- [Yale University: Steitz Wins Nobel Prize in Chemistry](#)
Individual.com: Oct 16 2009 1:10PM Matching: medical biochemistry biophysics
- [Rib-X Pharmaceuticals, Inc. Co-Founder, Thomas A. Steitz, Ph.D., Awarded the 2009 Nobel Prize in Chemistry](#)
PR Newswire via Yahoo!: Oct 7 2009 4:31PM Matching: medical biochemistry biophysics

- [Professor Osamu Nureki Joins aTyr Pharma's Scientific Advisory Board](#)
Pharma Live: Sep 29 2009 2:07PM Matching: medical biochemistry biophysics
- [QCI, Bio-Rad organize quality awareness seminar](#)
PharmaBiz: Sep 7 2009 10:37AM Matching: medical biochemistry biophysics

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