

Robarts Research Institute

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Opened in 1986, Robarts Research Institute is a non-profit medical research facility in London, Ontario, with more than 600 people working to investigate some of the most debilitating diseases of our time, from heart disease and stroke to diabetes, Alzheimer's and many forms of cancer.

We believe we've got a winning formula to accelerate medical discovery: Attract the brightest and best people. Give them the freedom to think big. And set the bar high.

From our roots under the scientific leadership of renowned neurologist Dr. Henry Barnett - whose work with Aspirin as a preventive therapy for heart attack and stroke remains one of the most important developments in 20th century medicine - the Institute has applied that formula and become a national leader in biological, clinical and imaging research.

Dr. Mark Poznansky became President and Scientific Director of Robarts in 1993 and since then the Institute has undergone impressive growth in employment, infrastructure and funding, reflecting our commitment to top-ranked science and discovery.

Recent Publications by Robarts Research Institute:



- [Phase-unwrapping algorithm for translation extraction from spherical navigator echoes.](#)
*Spherical navigator echoes have been shown to determine rigid-body...*18th November, 2009
Imaging Research Laboratories, Robarts Research Institute, London,- Magn Reson Med. 2009 Nov 13.
([DOI Direct Link](#))
- [Estradiol-mediated ERK phosphorylation and apoptosis in vascular smooth muscle cells requires GPR30.](#)
*Recent studies suggest that the rapid and nongenomic effects of estradiol...*18th November, 2009
Department of Vascular Biology Research Group, Robarts Research Institute,- Am J Physiol Cell Physiol. 2009 Nov;297(5):C1178-87. Epub 2009 Sep 9. ([DOI Direct Link](#))

- [Three-Dimensional Carotid Ultrasound Segmentation Variability Dependence on Signal Difference and Boundary Orientation.](#)
Quantitative measurements of the progression (or regression) of carotid... 11th November, 2009
Imaging Research Laboratories, Robarts Research Institute; Graduate- Ultrasound Med Biol. 2009 Nov 7. ([DOI Direct Link](#))
- [SIRT1 markedly extends replicative lifespan if the NAD+ salvage pathway is enhanced.](#)
Sir2 mediates lifespan extension in lower eukaryotes but whether its... 6th November, 2009
Robarts Research Institute, London Health Sciences Centre, Department of- FEBS Lett. 2009 Sep 17;583(18):3081-5. Epub 2009 Aug 29. ([DOI Direct Link](#))
- [Comparison of gadofluorine-M and Gd-DTPA for noninvasive staging of atherosclerotic plaque stability using MRI.](#)
BACKGROUND: Inflammation and neovascularization play critical roles in the... 27th October, 2009
Robarts Research Institute, Department of Medical Biophysics, University- Circ Cardiovasc Imaging. 2009 May;2(3):226-34. Epub 2009 Mar 24. ([DOI Direct Link](#))
- [Molecular targeted enhanced ultrasound imaging of flk1 reveals diagnosis and prognosis potential in a genetically engineered mouse prostate cancer model.](#)
Molecular imaging techniques used to detect the initiation of disease have... 22nd October, 2009
Lawson Health Research Institute, Robarts Research Institute, London- Mol Imaging. 2009 Jul-Aug;8(4):209-20.
- [The evidence for altered RNA metabolism in amyotrophic lateral sclerosis \(ALS\).](#)
In this review, the role of aberrant RNA metabolism in ALS is examined,... 21st October, 2009
Molecular Brain Research Group, Robarts Research Institute, London,- J Neurol Sci. 2009 Oct 17. ([DOI Direct Link](#))
- [Increased glutamate in the hippocampus after galantamine treatment for Alzheimer disease.](#)
Galantamine is a cholinesterase inhibitor and allosteric potentiating... 17th October, 2009
Centre for Functional and Metabolic Mapping (CFMM), Robarts Research- Prog Neuropsychopharmacol Biol Psychiatry. 2009 Oct 13. ([DOI Direct Link](#))
- [Tar DNA binding protein of 43 kDa \(TDP-43\), 14-3-3 proteins and copper/zinc superoxide dismutase \(SOD1\) interact to modulate NFL mRNA stability. Implications for altered RNA processing in amyotrophic lateral sclerosis \(ALS\).](#)
Amyotrophic lateral sclerosis (ALS) is a fatal neurological disease... 10th October, 2009
Molecular Brain Research Group, Robarts Research Institute, 100 Perth- Brain Res. 2009 Oct 6. ([DOI Direct Link](#))
- [APOC1 T45S polymorphism is associated with reduced obesity indices and lower plasma concentrations of leptin and apolipoprotein C-I in aboriginal Canadians.](#)
Apolipoprotein (apo) C-I is a constituent of chylomicrons, very-low... 9th October, 2009
Robarts Research Institute, Canada;- J Lipid Res. 2009 Oct 6. ([DOI Direct Link](#))
- [A small-signal approach to temporal modulation transfer functions with exposure-rate dependence and its application to fluoroscopic detective quantum efficiency.](#)
The detective quantum efficiency (DQE) is a metric widely used in... 1st October, 2009
Imaging Research Laboratories, Robarts Research Institute, 100 Perth- Med Phys. 2009 Aug;36(8):3775-85.
- [Optimized MRI contrast for on-resonance proton exchange processes of PARACEST agents in biological systems.](#)
Image contrast associated with paramagnetic chemical exchange saturation... 26th September, 2009
Center for Functional and Metabolic Mapping, Robarts Research Institute,- Magn Reson Med. 2009 Nov;62(5):1282-91. ([DOI Direct Link](#))
- [Registering spherical navigators with spherical harmonic expansions to measure three-dimensional rotations in magnetic resonance imaging.](#)
Subject motion remains a challenging problem to overcome in clinical and... 17th September, 2009
Imaging Research Laboratories, Robarts Research Institute, University of- Magn Reson Imaging. 2009 Sep 14. ([DOI Direct Link](#))
- [Calcineurin inhibitor protein \(CAIN\) attenuates Group I metabotropic glutamate receptor endocytosis.](#)

[and signaling.](#)

Group I metabotropic glutamate receptors (mGluRs) are coupled via... 1st September, 2009

J. Allyn Taylor Centre for Cell Biology, Molecular Brain Research Group,- J Biol Chem. 2009 Oct 16;284(42):28986-94. Epub 2009 Aug 28. ([DOI Direct Link](#))

- [Evaluation of preprocessing steps to compensate for magnetic field distortions due to body movements in BOLD fMRI.](#)

Blood oxygenation level-dependent (BOLD) functional magnetic resonance... 22nd August, 2009

Centre for Functional and Metabolic Mapping, Robarts Research Institute,- Magn Reson Imaging. 2009 Aug 18. ([DOI Direct Link](#))

Press Releases on Robarts Research Institute:

North Carolina Based Cromoz Inc. Launches Carbon Nanotechnology for Target Drug Delivery System in Cancer Treatment in Hyderabad, India	27th November, 2009	Cromoz Inc.	<i>DURHAM, N.C., Nov. 27 /PRNewswire/ -- Cromoz Inc., located in Research Triangle Park, will initiate water-soluble carbon nanotube-based cancer drug delivery system in Hyderabad, India. The water</i>
Team Garmin-Slipstream Officially Re-named Team Garmin-Transitions With Addition of Transitions Optical as New Sponsor	27th November, 2009		<i>NEUILLY-SUR-SEINE, France, November 27 /PRNewswire/ -- Team Garmin-Slipstream, the elite American professional cycling team dedicated to ethical sporting and developing the next generation of cycling</i>
Why Some Vaccines May Require A Booster	27th November, 2009	Rochester General Health System	<i>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</i>
STALLERGENES is Granted a Marketing Authorization for Oralair(R) in Europe	27th November, 2009		<i>PARIS, November 27 /PRNewswire/ -- Stallergenes has been granted European approval to market Oralair(R) in both adults and children through a Mutual Recognition Procedure. Germany, the first country</i>
Diabetes Population to Double, Diabetes Costs to Nearly Triple, in 25 Years, New Study Shows	27th November, 2009	National Changing Diabetes Program	<i>PRINCETON, N.J., Nov. 27 /PRNewswire/ -- The diabetes population in the United States will almost double over the next 25 years and annual medical spending on the disease is projected to hit \$336</i>

- [Scientists explore various imaging techniques to gain new insight into lung disease](#)
News-Medical.Net: Nov 21 2009 5:44AM Matching: robarts research institute
- [Scientists explore various imaging techniques to gain new insight into lung disease](#)
News-Medical.Net: Nov 21 2009 5:44AM Matching: robarts research institute
- [Gaining a better picture of lung disease](#)
Genetic Engineering News: Nov 20 2009 3:11PM Matching: robarts research institute
- [Gaining a better picture of lung disease](#)
EurekAlert!: Nov 20 2009 2:45PM Matching: robarts research institute
- [Healthy diet, regular exercise can override bad genes](#)
Good News Daily: Nov 9 2009 8:54PM Matching: robarts research institute
- [Renowned cardiovascular researcher to receive Taylor Prize](#)
Genetic Engineering News: Nov 3 2009 11:21PM Matching: robarts research institute
- [Genes not destiny for heart disease](#)
850 KOA: Oct 30 2009 3:52AM Matching: robarts research institute
- [Genes not destiny for heart disease](#)
96.1 KISS FM: Oct 29 2009 11:52AM Matching: robarts research institute
- [Healthy diet, regular exercise can override bad genes](#)
NewKerala.com: Oct 28 2009 2:58PM Matching: robarts research institute
- [Genes not destiny for heart disease](#)
1057 The Bull: Oct 28 2009 3:29AM Matching: robarts research institute
- [Genes not destiny for heart disease](#)
94.5 The Fox: Oct 28 2009 8:01AM Matching: robarts research institute
- [Healthy diet, regular exercise can override bad genes](#)
NetIndia123.com: Oct 27 2009 3:16PM Matching: robarts research institute
- [Genes not destiny for heart disease](#)
KION 1460: Oct 27 2009 10:13AM Matching: robarts research institute
- [Genes not destiny for heart disease](#)
WSUS 102.3: Oct 27 2009 12:31AM Matching: robarts research institute
- [Genes not destiny for heart disease](#)
Sunny 100: Oct 27 2009 1:36PM Matching: robarts research institute

Robarts Research Institute Patents:



- 7582614- [Use of myxoma virus for the therapeutic treatment of cancer and chronic viral infection](#)
- 7527968- [Regeneration initiating cells](#)
- 6898453- [Method and apparatus for calculating blood flow parameters](#)

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