

## Biotechnology Research Institute

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### Contact Details:

**6100 Royalmount avenue  
Montréal  
Quebec  
H4P 2R2  
Canada**

Tel: (514) 496-6100

Fax:

Email: [bri-info@cnrc-nrc.gc.ca](mailto:bri-info@cnrc-nrc.gc.ca)

BRI's multidisciplinary research teams are active in three main sectors: Health, Bioprocess and Environment. In the field of life sciences, their expertise forms a continuum that includes drug discovery, bioprocess development and scale-up. Environmental biotechnology involves the development of biologically based processes for protecting, cleaning and monitoring soil, water and air.

BRI scientists and engineers carry out research activities in five major research areas: the Health sector invests considerable effort in cancer therapies and infectious diseases; the Bioprocess sector uses the latest technologies and equipment for bioprocess development, and the Environment sector addresses the twin challenges of environmental protection and clean manufacturing.

In addition to the diverse specialized services it provides, BRI also maintains active partnerships with the industrial and university sectors and with government agencies. These partnerships are based on formal collaborative agreements, research and service contracts or technology transfer agreements.

In addition, BRI houses an Industrial Partnership Facility (IPF). This scientific complex accommodates biotechnology companies requiring lab space for their R&D activities. Tenants of this strategic location benefit from the expertise of BRI scientists and enjoy access to its state-of-the-art facilities.

### Recent Publications by Biotechnology Research Institute:



- [Novel antibody screening cells, MUT+Mur kodeocytes, created by attaching peptides onto red blood cells.](#)  
*BACKGROUND: Antibody screening and identification panels are generally...* 17th November, 2009  
From CSL Limited, Melbourne, Australia; the Australian Red Cross Blood- Transfusion. 2009 Nov 11. ([DOI Direct Link](#))
- [Rapid cloning, identification, and application of one novel crystal protein gene cry30Fa1 from Bacillus thuringiensis.](#)

*Abstract In this study, a fast and efficient strategy has been developed...* 10th November, 2009  
Biotechnology Research Institute, Shanghai Academy of Agriculture- FEMS Microbiol Lett. 2009 Oct 22. ([DOI Direct Link](#))

- [EphB maintains dendritic spine morphology through focal adhesion kinase.](#)  
*The structure and regulation of gab gene cluster, involved in...* 7th November, 2009  
Department of Biochemistry, Molecular Neuroscience Center and- J Neurosci. 2009 Oct 21;29(42):13091-3. ([DOI Direct Link](#))
- [Expression systems for therapeutic glycoprotein production.](#)  
*There are slightly over 165 recombinant pharmaceuticals currently approved...* 6th November, 2009  
Animal Cell Technology Group, Biotechnology Research Institute, National- Curr Opin Biotechnol. 2009 Nov 2. ([DOI Direct Link](#))
- [Modulatory effects of phyto glycoprotein \(75 kDa\) on allergic inflammatory cytokines in Di\(2-ethylhexyl\) phthalate \(DEHP\)-stimulated RBL-2H3 cells.](#)  
*This study investigated the inhibitory effect of a glycoprotein isolated...* 4th November, 2009  
Molecular Biochemistry Laboratory, Biotechnology Research Institute and- J Cell Biochem. 2009 Nov 2. ([DOI Direct Link](#))
- [Green-tissue-specific, C\(4\)-PEPC-promoter-driven expression of Cry1Ab makes transgenic potato plants resistant to tuber moth \(Phthorimaea operculella, Zeller\).](#)  
*An important strategy for obtaining a safer transgenic plant may be the...* 3rd November, 2009  
Agricultural Biotechnology Research Institute of Iran, Karaj, Iran.- Plant Cell Rep. 2009 Oct 31. ([DOI Direct Link](#))
- [Development of a simple and high-yielding fed-batch process for the production of influenza vaccines.](#)  
*A robust and reliable GMP-compatible fed-batch process was successfully...* 3rd November, 2009  
Protein Sciences Corporation, 1000 Research Parkway, Meriden, CT 06450,- Vaccine. 2009 Oct 30. ([DOI Direct Link](#))
- [Rearrangements of the transcriptional regulatory networks of metabolic pathways in fungi.](#)  
*Growing evidence suggests that transcriptional regulatory networks in many...* 31st October, 2009  
Biotechnology Research Institute, National Research Council, Montreal,- Curr Opin Microbiol. 2009 Dec;12(6):655-63. Epub 2009 Oct 29. ([DOI Direct Link](#))
- [The structure and regulation of the gab gene cluster involved in the GABA shunt controlled by a  \$\sigma^{54}\$  factor in Bacillus thuringiensis.](#)  
*The structure and regulation of gab gene cluster, involved in...* 27th October, 2009  
State Key Laboratory for Biology of Plant Diseases and Insect Pests,- J Bacteriol. 2009 Oct 23. ([DOI Direct Link](#))
- [Binding the Atypical RA Domain of Ste50p to the Unfolded Opy2p Cytoplasmic Tail Is Essential for HOG Pathway.](#)  
*Monitoring Editor: Charles Boone Activation of the high osmolarity...* 23rd October, 2009  
Biotechnology Research Institute, National Research Council of Canada,- Mol Biol Cell. 2009 Oct 21. ([DOI Direct Link](#))
- [Theater as a tool to educate African Americans about breast cancer.](#)  
*BACKGROUND: The current study examines the effectiveness of theater in...* 20th October, 2009  
Outreach and Cancer Research Program, Julius L. Chambers Biomedical- J Cancer Educ. 2009;24(4):297-300. ([DOI Direct Link](#))
- [Degradation of a mixture of hydrocarbons, gasoline and diesel oil additives by Rhodococcus aetherivorans and Rhodococcus wratislaviensis.](#)  
*Two strains, identified as Rhodococcus wratislaviensis IFP 2016 and R....* 20th October, 2009  
Institut Francais du Petrole (IFP), 1-4, avenue de Bois-Preau, F-92852- Appl Environ Microbiol. 2009 Oct 16. ([DOI Direct Link](#))
- [Cyanobacteria MT gene SmtA enhance zinc tolerance in Arabidopsis.](#)  
*Zinc is essential but toxic in excess. A bacterial metallothionein, SmtA...* 16th October, 2009  
Biotechnology Research Institute, Shanghai Academy of Agricultural- Mol Biol Rep. 2009 Oct 15. ([DOI Direct Link](#))
- [Transcriptional regulation of carbohydrate metabolism in the human pathogen Candida albicans.](#)

*Glycolysis is a metabolic pathway that is central to the assimilation of...* 10th October, 2009  
 Biotechnology Research Institute, National Research Council of Canada,- PLoS Pathog. 2009  
 Oct;5(10):e1000612. Epub 2009 Oct 9. ([DOI Direct Link](#))

- [Dissolution of a new explosive formulation containing TNT and HMX: Comparison with octol.](#)  
*GIM (Greener Insensitive Material) is a new explosive formulation made of...* 10th October, 2009  
 Biotechnology Research Institute, National Research Council of Canada,- J Hazard Mater. 2009 Sep  
 16. ([DOI Direct Link](#))

**Press Releases on Biotechnology Research Institute:**

<a href="#">Pan-European Survey Reveals Concerning Rates of Chemotherapy-Induced Neutropenia</a>	26th November, 2009		<i>BRUSSELS, November 26 /PRNewswire/ -- The risk of neutropenic infections poses an additional threat to cancer patients undergoing chemotherapy, at a time when a patient's emotional and physical</i>
<a href="#">Frost &amp; Sullivan Award Underlines Cipla Medpro's Status as Company of the Year in the South African Generic Pharmaceutical Market</a>	26th November, 2009	Frost & Sullivan	<i>JOHANNESBURG, South Africa, Nov. 26 /PRNewswire/ -- The 2009 Frost &amp; Sullivan South Africa Company of the Year Award in the Generic Pharmaceutical Market is presented to Cipla Medpro South Africa</i>
<a href="#">FDA's Woodcock Discusses Pain Management and Drug Safety in Nov. 26, 2009 Issue of The New England Journal of Medicine</a>	25th November, 2009	U.S. Food and Drug Administration	<i>SILVER SPRING, Md., Nov. 25 /PRNewswire-USNewswire/ -- An article by Janet Woodcock, M.D., director of the FDA's Center for Drug Evaluation and Research, titled "A Difficult Balance - Pain</i>
<a href="#">SCAN Employees and Community Volunteers to Help Deliver One Thousand Thanksgiving Meals to Homebound Seniors</a>	25th November, 2009	SCAN Health Plan	<i>LONG BEACH, Calif., Nov. 25 /PRNewswire/ -- Thanksgiving meals will be delivered to approximately 1,000 homebound seniors in the greater Long Beach area thanks to Faith In Action/Volunteer Action for</i>
<a href="#">North Carolina-based Cnanoz Unveils NanoPure(TM) to Government Leaders in Hyderabad, India</a>	25th November, 2009	Cnanoz Inc.	<i>DURHAM, N.C., Nov. 25 /PRNewswire/ -- Research Triangle Park-based Cnanoz Inc. unveiled the first energy-efficient, single-treatment water purification system NanoPure(TM) developed from carbon</i>

- [Champions Biotechnology Enters into Licensing Agreement with Yale University and Southern Research Institute f](#)  
*PR Newswire: Nov 23 2009 12:44AM Matching: biotechnology research institute*
- [The test to speed up war on cancer](#)  
*Sydney Morning Herald: Nov 22 2009 7:45PM Matching: biotechnology research institute*
- [Champions Biotechnology Enters into Licensing Agreement with Yale University and Southern Research Institute f](#)  
*Genetic Engineering News: Nov 21 2009 4:46AM Matching: biotechnology research institute*
- [Champions Biotechnology Enters into Licensing Agreement with Yale University and Southern Research Institute f](#)  
*Pharma Live: Nov 21 2009 5:16AM Matching: biotechnology research institute*
- [Phototherapy: University College, Conway Institute reports research in phototherapy](#)  
*NewsRX: Nov 21 2009 5:48AM Matching: biotechnology research institute*
- [DBT allocates Rs 200 cr to set up National Stem Cell Institute in Karnataka](#)  
*PharmaBiz: Nov 21 2009 2:43AM Matching: biotechnology research institute*
- [Life Sciences: Reports outline life sciences study findings from RIKEN Yokohama Institute](#)  
*NewsRX: Nov 20 2009 2:14PM Matching: biotechnology research institute*
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)  
*Yahoo! Canada: Nov 20 2009 3:48PM Matching: biotechnology research institute*
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)  
*Interest!ALERT: Nov 20 2009 3:21PM Matching: biotechnology research institute*
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)  
*TradingMarkets: Nov 20 2009 2:52PM Matching: biotechnology research institute*
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)  
*Street Insider: Nov 20 2009 2:48PM Matching: biotechnology research institute*
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)  
*GlobeNewswire via Yahoo!: Nov 20 2009 2:06PM Matching: biotechnology research institute*
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)  
*NewsBlaze: Nov 20 2009 2:06PM Matching: biotechnology research institute*
- [Experienced Biotech and Regulatory Expert Becomes Formal Member of the biOasis Team](#)  
*NewsBlaze: Nov 20 2009 2:06PM Matching: biotechnology research institute*
- [Champions Biotechnology signs licensing agreement with Yale University and SRI](#)  
*Individual.com: Nov 20 2009 8:41AM Matching: biotechnology research institute*

**Biotechnology Research Institute Patents:**



- 7422874- [Expression vector for animal cell](#)
- 5985609- [Process for preparing hepatitis C virus envelope glycoproteins](#)
- 5889148- [Antibiotic peptides](#)

- 5879878- [Method of producing a first layer electrode membrane for a biosensor](#)
- 5874316- [Receptor membranes and ionophore gating](#)
- 5840542- [Method for manufacture of proinsulin with high export yield](#)
- 5821106- [CDNA of direct-acting fibrinolytic serine protease](#)
- 5798030- [Biosensor membranes](#)
- 5783054- [Method for producing improved sensor](#)
- 5766960- [Receptor membranes](#)
- 5753093- [Sensor membranes](#)
- 5741712- [Receptor membranes](#)
- 5741409- [Sensor membranes](#)
- 5693477- [Receptor membranes](#)
- 5635473- [Inhibitor of hepatitis B virus replication](#)
- 5591647- [Analyte detection by competitive inhibition of ion channel gating](#)
- 5443955- [Receptor membranes and ionophore gating](#)
- 5401378- [Ionic reservoir at electrode surface](#)
- 6140363- [Use of rosmarinic acid and derivatives thereof as an immunosuppressant or an inhibitor of SH2-mediated processes](#)
- 6210551- [Composite membrane sensor](#)
- 7285277- [Anticancer agent](#)
- 7118905- [Nucleic acid encoding angiogenesis inhibitor](#)
- 6743428- [Angiogenesis inhibitor](#)
- 6740213- [Composite membrane sensor](#)
- 6692735- [Variant of C6 .beta.-chemokine leukotactin-1\(shLkn-1\) with enhanced biological activity](#)
- 6589548- [Controlled drug delivery system using the conjugation of drug to biodegradable polyester](#)
- 6573109- [Surface amplifier](#)
- 6562631- [Detection device and method](#)
- 6500647- [Recombinant expression vector of human parathyroid hormone](#)
- 6451196- [Ionic reservoir through application of an electrical potential](#)
- 6447656- [Biosensor](#)
- 6432629- [Self assembly of sensor membranes](#)
- 6380359- [Liposomes comprising peptide antigens derived from X protein of hepatitis B virus](#)
- 6348319- [Enzyme detection biosensors](#)
- 6342346- [Method of producing an electrode membrane combination](#)
- 6316273- [Biosensor for detection of small molecule analytes](#)
- 6291155- [Self assembly of sensor membranes](#)
- 5234566- [Sensitivity and selectivity of ion channel biosensor membranes](#)

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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)

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