

20 Mar 2015

Dr. Todd Randall
Acting Dean
Faculty of Science and Environmental Studies

Dear Dr. Randall:

The Department of Chemistry has voted in favour of recommending *Adjunct Professor* status in our department for the following candidates.

- Roxanne Deslauriers, PhD (Scientific Director, Thunder Bay Regional Research Institute)
- Lew Christopher, PhD (Director, Biorefining Research Institute)

Please find their application packages attached.

Sincerely yours,



Stephen D. Kinrade, PhD, FRSC(UK)
Professor and Acting Chair

February 27, 2015

Dr. Stephen Kinrade
Chair, Department of Chemistry
Lakehead University
955 Oliver Rd.
Thunder Bay, ON P7B 5E1

Dear Dr. Kinrade:

I am writing to explore the possibility of obtaining an Adjunct Professor appointment in the Chemistry Department at Lakehead University. I hold a BSc (Biologie expérimentale) from l'Université Laval and a PhD from the University of Ottawa (biophysical chemistry). My research career at the National Research Council of Canada (NRC) began in 1972 and focused on biomedical applications of magnetic resonance spectroscopy and imaging. While at NRC I was involved in the planning and administration of scientific research and its subsequent transition to commercialization of medical devices from 1999-2013.

In 2013, I joined the Thunder Bay Regional Research Institute (TBRI) as Acting CEO and was VP Research for the Thunder Bay Regional Health Sciences Centre. In November 2014, I was appointed Scientific Director at TBRI. In this role, I work closely with TBRI Scientists to develop their research programs, find funding for their programs, help transition their work to applications in clinic, and help to ensure the economic sustainability of the Research Institute while contributing to regional development.

Mutual benefits are derived from TBRI and Lakehead University working collaboratively. In that context, I would value a closer relationship with the Chemistry Department at Lakehead University given that my main expertise lies in magnetic resonance and its applications in biochemistry and medicine.

I have trained graduate students at the University of Ottawa and the University of Manitoba, as well as students who were awarded degrees by foreign universities (e.g. Brazil). I have worked closely with medical professionals (Ottawa, Toronto, Winnipeg) in the joint training of graduate students but no longer do "hands on" work in the lab. I would welcome the opportunity to co-supervise students and participate in graduate student committees at Lakehead University, where appropriate.

I note that Lakehead does allow granting of Adjunct Professor positions in order to: "facilitate the pursuit of independent and collaborative research". I believe this criterion would apply to my role and goals at TBRI in relation to Lakehead University.

Thunder Bay Regional
Research Institute

Ph (807) 684-7223
Fax (807) 684-5800

Translational
Research Office:
980 Oliver Road,
Thunder Bay, Ontario
P7B 6V4

Pre-Clinical
Research Office:
290 Munro Street,
Thunder Bay, Ontario
P7A 7T1

www.tbri.com

I welcome the opportunity to work with Lakehead University to further the sustainability of our organizations and to help exploit any intellectual property or know-how developed by our Scientists.

Your response regarding my suitability as an Adjunct Professor in the Chemistry Department at Lakehead University is most welcome.

I have appended a copy of some selected publications. A copy of my CV will be forwarded electronically. I would be pleased to provide a list of references and any other material that may be required.

For your information, I currently hold an Associate Professor position at NOSM, with cross-appointment to LU, which took effect in 2014, for a duration of 3 years.

Thank you in advance for your consideration and I look forward to hearing from you.

Sincerely,



Roxanne Deslauriers, PhD
Scientific Director, TBRI

Encl.

Bringing
Discovery
to Life

Thunder Bay Regional
Research Institute

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Fax (807) 684-5800

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Pre-Clinical
Research Office:
290 Munro Street,
Thunder Bay, Ontario
P7A 7T1

www.tbri.com

CURRICULUM VITÆ

Name: Marie Roxanne Lorraine Deslauriers
Date and Place of Birth: 2 October 1947, Montréal, Québec
Nationality: Canadian
Languages: English and French

Education

1972 University of Ottawa, PhD, Biochemistry
Elucidation of the Conformations of Biological Compounds by Nuclear
Magnetic Resonance Spectroscopy
1968 Université Laval, Biologie, Bachelier ès Sciences

Employment

2013 - Present Thunder Bay Regional Research Institute and
Thunder Bay Regional Health Sciences Centre
Acting Chief Executive Officer and 2013 -
Acting Vice-President, Research

1972 - 2012 National Research Council of Canada, Ottawa and Winnipeg
Director, Strategic Programs, Institute for Biodiagnostics 2010-2012
Director, Research, Institute for Biodiagnostics 1999-2010
Principal Research Officer, Institute for Biodiagnostics 1999
Group Leader, Institute for Biodiagnostics 1992-1999
Section Head, Institute for Biological Sciences 1990-1992
Group Leader 1988-1990
Senior Research Officer 1986-1988
Associate Research Officer 1979-1986
Assistant Research Officer 1972-1979

Adjunct Professorships

1992 – 2012 University of Manitoba, Department of Physiology, Faculty of
Graduate Studies, Winnipeg, Manitoba, Canada

1993 University of Winnipeg, Department of Chemistry, Winnipeg,
Manitoba, Canada

1992 University of Ottawa, Faculty of Health Sciences, Department of
Surgery, Ottawa, Ontario, Canada

1991 University of Toronto, Ontario, Department of Surgery (Lecturer),
Toronto, Ontario, Canada

1988 - 92 University of Ottawa, Faculty of Health Sciences, Department of

1974 - 80 Pathology, Ottawa, Ontario Canada
University of Illinois Medical Center, Department of Physiology and
Biophysics, Chicago, Illinois, USA

Research Affiliate

2012 – present University of Manitoba, Department of Physiology, Faculty of
Graduate Studies, Winnipeg, Manitoba, Canada

Visiting Professor

2003 - 2012 Harbin Medical University, Harbin, P.R. China

Visiting Scholar

1985 Queen's University, Kingston, Ontario

Research Interests

The application of non-invasive techniques, magnetic resonance (MR) in particular, to address problems of biomedical importance. This includes the development of animal models of human disease, as well as technical developments to improve MR spectroscopy of living animals and humans. Work resulted in over 200 peer-reviewed scientific publications.

Mentorship

Grant writing, scientific writing, research integrity, human and animal research ethics.

Appointments (2013 – present)

2013 International Society for Magnetic Resonance (ISMAR), Secretary
General
International Society for Magnetic Resonance in Medicine (ISMRM),
Financial Audit Sub-Committee
Natural Sciences and Engineering Research Council of Canada
(NSERC), Selection Committee for Synergy Awards for Innovation
and Innovation Challenge Awards
Canadian Institutes for Health Research (CIHR) – Banting
Postdoctoral Fellowships Program Committee
Fonds de recherche du Québec - Nature et technologies (FRQNT),
Prix d'excellence selection panel
Thunder Bay Regional Research Institute, Board of Directors

National Research Council Canada, Research Ethics Board (REB)
Scientific Advisory Committee, Thunder Bay Regional Research
Institute

Commercialization Committee, Thunder Bay Regional Research
Institute

Appointments Extramural to NRC (1982 – 2012)

Committees –
2012

Secretary General of the International Society for Magnetic
Resonance (ISMAR)

International Society for Magnetic Resonance in Medicine (ISMRM),
Financial Audit Sub-Committee

Member of Canadian Foundation for Innovation (CFI) Leaders
Opportunity Fund Advisory Committee (LOFAC)

Canadian Foundation for Innovation (CFI), Multidisciplinary
Assessment Committee

Canadian Institutes of Health Research (CIHR), Medical Physics and
Imaging Research Grant Review Committee

Natural Sciences and Engineering Research Council of Canada
(NSERC), Collaborative Research and Development (CRD) Review
Committee

Natural Sciences and Engineering Research Council of Canada
(NSERC). Synergy Awards for Innovation and Innovation Challenge
Awards Selection Committee

National Science and Engineering Research Council – Industrial
Research Development Fellowships (IRDF) College of Reviewers
Fonds de recherche du Québec - Nature et technologies (FRQNT),
Team Grants, Multidisciplinary Evaluation Committee

Member of the Department of Physiology Graduate Studies
Committee at the University of Manitoba

2011

Secretary General of the International Society for Magnetic
Resonance (ISMAR)

International Society for Magnetic Resonance in Medicine (ISMRM),
Financial Audit Sub-Committee

Canadian Foundation for Innovation (CFI) Expert Review Committee
for Génie biomédical à l'École Polytechnique de Montréal

Natural Sciences and Engineering Research Council of Canada
(NSERC). Synergy Awards for Innovation and Innovation Challenge
Awards Selection Committee

National Science and Engineering Research Council – Industrial
Research Development Fellowships (IRDF) College of Reviewers
Fonds de recherche en nature et technologie (FRNT) du Québec,
Chair of Multidisciplinary Review Committee for Strategic Grants.

Canadian Institutes of Health Research (CIHR), Clinical Imaging,
Chair of Advisory Panel

Canadian Imaging Network – Consensus Conference – Invited
Participant

Fonds de recherche Santé Québec (FRSQ), Réseaux thématiques de
recherche, Evaluation Committee

Fonds de recherche Santé Québec (FRSQ), Développement
stratégiques innovants, Evaluation Committee for Letters of Intent

Member of the Department of Physiology Graduate Studies
Committee at the University of Manitoba

2010 International Society for Magnetic Resonance in Medicine (ISMRM),
Governance Committee

International Society for Magnetic Resonance in Medicine (ISMRM),
Financial Audit Sub-Committee

Canada Research Chair (CRC) Interdisciplinary Adjudication
Committee

Canadian Institutes of Health Research (CIHR), Scientific Officer for
Biomedical Engineering Peer Review Grant Committee

Canadian Institutes of Health Research (CIHR), Regenerative
Medicine and Nanomedicine, Emerging Teams, Grant Review
Committee

Natural Sciences and Engineering Research Council of Canada
(NSERC). Synergy Awards for Innovation and Innovation Challenge
Awards Selection Committee

Canadian Institutes of Health Research (CIHR), Chair of the Clinical
Imaging Team Grant External Advisory Panel

National Science and Engineering Research Council – Industrial
Research Development Fellowships (IRDF) College of Reviewers

Sunnybrook Health Sciences Centre, Heart and Circulation Program,
External Reviewer

Member of the Department of Physiology Graduate Studies
Committee at the University of Manitoba

2009 Nominating Committee for the International Society of Magnetic
Resonance (ISMAR)

International Society for Magnetic Resonance in Medicine (ISMRM),
Governance Committee

Canada Research Chairs (CRC), Reviewer

National Science and Engineering Research Council (NSERC),
Biomedical Technologies Strategic Program, Scientific Review
Committee Chair

- National Science and Engineering Research Council (NSERC) – Industrial Research Development Fellowships (IRDF) College of Reviewers
- Alberta Heritage Foundation for Medical Research, Reviewer Investigator Award application
- Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba
- 2008 Canadian Foundation for Innovation (CFI), Integrative Review Group – Québec Region
- Fonds de recherche en santé du Québec (FRSQ), Comité d'évaluation des réseaux en santé
- Fonds de recherche en nature et technologie du Québec (FRNT), Comité d'évaluation multidisciplinaire – Projets en équipe
- National Science and Engineering Research Council (NSERC), Biomedical Technologies Strategic Program, Scientific Review Committee
- National Science and Engineering Research Council (NSERC), Focus Group on Grant Selection Committee Structure
- Member of CFI Leaders Opportunity Fund Advisory Committee (LOFAC)
- Member of Manitoba Health Research Council (MHRC) – Operating Grants Review Committee
- National Science and Engineering Research Council – Industrial Research Development Fellowships (IRDF) College of Reviewers
- Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba
- 2007 International Society of Magnetic Resonance (ISMAR), ISMAR Board Nominating Committee
- National Science and Engineering Research Council (NSERC), Strategic Grants Panel – Biomedical Technologies
- National Science and Engineering Research Council – Industrial Research Development Fellowships (IRDF) College of Reviewers
- Holmes Award Selection Committee
- Canadian Institutes of Health Research (CIHR), Medical Physics and Imaging Grant Selection Committee – Scientific Officer (Invited)
- Member of the Natural Sciences and Engineering Research Council (NSERC) Brockhouse Canada Prize Selection Committee
- Member of CFI Leaders Opportunity Fund Advisory Committee (LOFAC)
- Member of the Michael Smith Prize in Health Research Prize Review Committee (CIHR)

- Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba
- Member of the Federal Scientific Community Focus Group for the United Way
- 2006 Member of CFI Leaders Opportunity Fund Advisory Committee (LOFAC)
- Member of the Michael Smith Prize in Health Research Prize Review Committee (CIHR)
- National Science and Engineering Research Council – Industrial Research Development Fellowships (IRDF) College of Reviewers
- Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba
- Member of the National Research Council of Canada’s Graduate Student Stipend Supplement Committee
- Canadian Institutes of Health Research (CIHR), Medical Physics and Imaging Grant Selection Committee – Chair (Invited)
- Canadian Institutes of Health Research (CIHR), Regenerative Medicine and Nanotechnology Grant Review Committee – Scientific Officer (Invited)
- National Science and Engineering Research Council (NSERC), Strategic Grants Panel – Biomedical Technologies
- Canadian Foundation for Innovation (CFI) and Fonds de recherche en santé du Québec (FRSQ), Comité d’évaluation multidisciplinaire
- Fonds de recherche sur la nature et les technologies du Québec (FRQNT), Comité d’évaluation multidisciplinaire – Projets en équipe
- Member of the Committee on Affiliated Sections (SMRT) of the International Society for Magnetic Resonance in Medicine (ISMRM)
- Chair of the Finance Committee for the ISMRM
- Member of the Subcommittee on Financial Support of the ISMRM
- Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba
- Fonds de recherche en santé du Québec (FRSQ), Comité d’évaluation des réseaux – Réseau en santé cardiovasculaire, Réseau en santé respiratoire
- 2005 Member of the H.L. Holmes Award Selection Committee
- National Science and Engineering Research Council (NSERC), Strategic Grants Focus Group – Biomedical Technologies
- National Science and Engineering Research Council – Industrial Research Fellowships (IRF) College of Reviewers
- Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba

Member of the Advisory Board of the Institute for Cardiovascular and Respiratory Health of the CIHR

Chair of the ISMRM Finance Committee

Treasurer of the International Society for Magnetic Resonance in Medicine (ISMRM)

Member of the National Research Council of Canada's Graduate Student Stipend Supplement Committee

Member of the Committee for Affiliated Sections of ISMRM – Society for Magnetic Resonance Technologists (SMRT)

Member of the ISMRM Subcommittee on Financial Support

Canadian Institutes of Health Research (CIHR), Biomedical Engineering Grant Selection Committee – Chair (Invited)

Ministère de la Région Wallonne (Belgique), Comité de sélection – Programme WALEO 2

National Research Forum for Young Investigators in Circulatory and Respiratory Health, Poster Competition Review Committee

Member of Search Committee for Executive Director of the ISMRM

Member of the "Comité d'évaluation interdisciplinaire" of the Fonds de recherche sur la nature et les technologies (Québec)

Member of Travel Grant Evaluation Committee and Poster Judge for Young Investigators Forum of the Institute of Circulatory and Respiratory Health of the CIHR

Member of the Committee on Affiliated Sections (SMRT) of the International Society for Magnetic Resonance in Medicine (ISMRM)

Chair of the Finance Committee for the ISMRM

Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba

Member of the Subcommittee on Financial Support of the ISMRM

2004

Appeal Consultant for the Natural Sciences and Engineering Research Council (NSERC)

Independent Expert for the Sixth Framework Programme of the European Community for Research

National Science and Engineering Research Council – Industrial Research Fellowships (IRF) College of Reviewers

Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba

Member of the Advisory Board of the Institute for Cardiovascular and Respiratory Health of the CIHR

Treasurer of the International Society for Magnetic Resonance in Medicine (ISMRM)

Member of the Committee for Affiliated Sections of ISMRM – Society for Magnetic Resonance Technologists (SMRT)

Member of the Graduate Student Stipend Supplement Committee

Member of the ISMRM Subcommittee on Financial Support

Chair of the ISMRM Finance Committee

Member of the Nominating Committee for the International Society for Magnetic Resonance (ISMAR)

Appeal Consultant for the National Science and Engineering Research Council (NSERC)

Member of the Review Committee for the Fonds de recherche sur la nature et les technologies (NATEC) – Fonds de relève competition

Adjudicator of the New Opportunities Fund (NOF) for the Canada Foundation for Innovation (CFI)

Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba

Member of the Advisory Committee for the National Research Forum for Young Investigators in Circulatory and Respiratory Health

2003

Member of the Advisory Committee for the National Research Forum for Young Investigators in Circulatory and Respiratory Health

Chair of the ISMRM Finance Committee

National Science and Engineering Research Council – Industrial Research Fellowships (IRF) College of Reviewers

Member of the Advisory Board of the Institute for Cardiovascular and Respiratory Health of the CIHR

Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba

Scientific Officer of the Biomedical Engineering Committee for the Canadian Institutes of Health Research

Member of the ISMRM Subcommittee on Financial Support

Member of the Committee for Affiliated Sections of ISMRM – Society for Magnetic Resonance Technologists (SMRT)

Member of the Graduate Student Stipend Supplement Committee

Treasurer of the International Society for Magnetic Resonance in Medicine (ISMRM)

2002

Treasurer of the International Society for Magnetic Resonance in Medicine (ISMRM)

Member of the Biotech Industry Strategic Development Committee Canadian Institutes of Health Research Biomedical Engineering Committee - Scientific Officer

National Science and Engineering Research Council – Industrial Research Fellowships (IRF) College of Reviewers
Member of the Interdisciplinary Committee of the Canada Research Chairs
Member of the Advisory Board of the Institute for Cardiovascular and Respiratory Health of the CIHR
Member of the Department of Physiology Graduate Studies Committee at the University of Manitoba
Member of Evaluation Team for Programme a Regroupments Stratégiques of Fonds pour la formation de chercheurs et l'aide à la recherche (FCAR)
2001 Member of Evaluation Team for Programme a Regroupments Stratégiques of Fonds pour la formation de chercheurs et l'aide à la recherche (FCAR)
Canadian Institutes of Health Research Biomedical Engineering Committee - Scientific Officer
Member of the Research Development Committee for the Canadian Foundation for Innovation
Elected Member of the Board of Trustees of the International Society of Magnetic Resonance in Medicine
Member of the New Opportunities Committee of the Canadian Foundation for Innovation
Chair of the Publications Committee of ISMRM
Member of the Education Committee, the Electronic Communications Committee, the Finance Committee, the Audit Committee of the International Society of Magnetic Resonance in Medicine (ISMRM)
Member of College of Reviewers for Canada Research Chairs
Member of the Selection Committee for the Prix Léo-Pariseau of the Association canadienne-française pour l'avancement des sciences (ACFAS)
Member of the National Cancer Institute of Canada Grants Review Committee
Member of the Advisory Board of the Institute for Cardiovascular and Respiratory Health of the CIHR
Vice-Chair of the Advisory Board of the Institute for Cardiovascular and Respiratory Health of the CIHR
Member of the International Scientific Committee for the International Society for Heart Research – International Meeting – Winnipeg
Member of the Audit Committee for the International Society for the Magnetic Resonance in Medicine

- Member of Selection Committee for the Valorisation-Recherche Québec
- Member of the Interdisciplinary Committee of the Canada Research Chairs
- 2000 Scientific Officer of the Biomedical Engineering Committee for the Canadian Institutes of Health Research
- Member of the Selection Committee for the Prix Léo-Pariseau of the Association canadienne-française pour l'avancement des sciences (ACFAS)
- Elected Member of the Board of Trustees of the International Society of Magnetic Resonance in Medicine
- Member of the Research Development Committee for the Canadian Foundation for Innovation
- Member of College of Reviewers for Canada Research Chairs
- Member of the Selection Committee for the Prix Léo-Pariseau of the Association canadienne-française pour l'avancement des sciences (ACFAS)
- Member of the Education Committee, the Electronic Communications Committee, the Finance Committee, the Audit Committee of the International Society of Magnetic Resonance in Medicine (ISMRM)
- Chair of the Publications Committee of ISMRM
- Member of the New Opportunities Committee of the Canadian Foundation for Innovation
- 1999 Member of the Selection Committee for the Prix Léo-Pariseau of the Association canadienne-française pour l'avancement des sciences (ACFAS)
- Elected Member of the Board of Trustees of the International Society of Magnetic Resonance in Medicine
- Secretary of the Canadian Biophysical Society
- Member of the Student Stipend Committee, the Young Investigator Award Committee, and the Education Committee of the International Society for Magnetic Resonance
- Member of the New Opportunities Committee of the Canadian Foundation for Innovation
- Member of the Research Development Committee for the Canadian Foundation for Innovation
- 1998 Member of the Research Development Committee for the Canadian Foundation for Innovation
- Member of the New Opportunities Committee of the Canadian Foundation for Innovation

Elected Member of the Nominations Committee of the International Society for Magnetic Resonance

Member of the IUPAB Commission on NMR in Biology and Medicine

Secretary of the Canadian Biophysical Society

Member of the Subcommittee on Student Stipends, Society of Magnetic Resonance

Elected Member of the Council of the International Society of Magnetic Resonance

Member of Manitoba Health Research Council Grant Selection Committee

Elected Member of the Board of Trustees of the International Society of Magnetic Resonance in Medicine

Member of the Student Stipend Committee, the Young Investigator Award Committee, and the Education Committee of the International Society for Magnetic Resonance

Member of the Steering Committee for the Manitoba Nutraceutical/Phytochemical Marketing Study, undertaken for Manitoba Industry, Trade and Tourism

1997 Member of the International Advisory Board, Scientific Forum VII, Belo Horizonte, Minas Gerais, Brazil

Secretary of the Canadian Biophysical Society

Elected Member of the Council of the International Society of Magnetic Resonance

Member of the IUPAB Commission on NMR in Biology and Medicine

Member Subcommittee on Student Stipends, Society of Magnetic Resonance

Member of Manitoba Health Research Council Grant Selection Committee

1996 Member of the International Advisory Board, Scientific Forum VI, Belo Horizonte, Minas Gerais, Brazil

Member of the Cell Biology Grant Selection Committee of the Natural Sciences and Engineering Research Council (NSERC)

Elected Member of the Council of the International Society of Magnetic Resonance

Member of the IUPAB Commission on NMR in Biology and Medicine

Secretary of the Canadian Biophysical Society

Member of Manitoba Health Research Council Grant Selection Committee

Member Subcommittee on Student Stipends, Society of Magnetic Resonance

- 1995
Member Subcommittee on Student Stipends, Society of Magnetic Resonance
Member of the Cell Biology Grant Selection Committee of the Natural Sciences and Engineering Research Council (NSERC)
Elected Member of the Council of the International Society of Magnetic Resonance
Member of the IUPAB Commission on NMR in Biology and Medicine
Member of the Publications Committee of the Society of Magnetic Resonance in Medicine
Secretary of the Canadian Biophysical Society
Member of Medical Research Council of Canada Biomedical Engineering Grants Committee
- 1994
Member of Medical Research Council of Canada Biomedical Engineering Grants Committee
Member of the Publications Committee of the Society of Magnetic Resonance in Medicine
Member of the IUPAB Commission on NMR in Biology and Medicine
Elected Member of the Council of the International Society of Magnetic Resonance
Member of the Cell Biology Grant Selection Committee of the Natural Sciences and Engineering Research Council (NSERC)
Secretary of the Canadian Biophysical Society
- 1993
Secretary of the Canadian Biophysical Society
Member of the Medical Research Council of Canada (MRC) Fellowship Selection Committee
NRC Representative in Partners in Education
Member of the External Scientific Review Committee of the Ottawa Heart Institute EVAD, (Electrohydraulic Ventricular Assist Device) Project
Member of the IUPAB Commission on NMR in Biology and Medicine
Elected Member of the Council of the International Society of Magnetic Resonance
Member of the Publications Committee of the Society of Magnetic Resonance in Medicine
Member of the Cell Biology Grant Selection Committee of the Natural Sciences and Engineering Research Council (NSERC)
Member of the Cell Biology Grant Selection Committee of the Natural Sciences and Engineering Research Council (NSERC)
- 1992
Member of the IUPAB Commission on NMR in Biology and Medicine
NRC Representative in Partners in Education

- Member of the External Scientific Review Committee of the Ottawa Heart Institute EVAD, (Electrohydraulic Ventricular Assist Device) Project
- Elected Member of the Council of the International Society of Magnetic Resonance
- Member of the Publications Committee of the Society of Magnetic Resonance in Medicine
- Member of the Medical Research Council of Canada (MRC) Fellowship Selection Committee
- 1991 Member of the IUPAB Commission on NMR in Biology and Medicine
Member of the External Scientific Review Committee of the EVAD, (Electrohydraulic Ventricular Assist Device) Project
NRC Representative in Partners in Education
Elected Member of the Council of the International Society of Magnetic Resonance
- 1990 Member of the IUPAB Commission on NMR in Biology and Medicine
Elected Member of the Council of the International Society of Magnetic Resonance
Elected Member of the Steering Committee of the Division of Biology and Medicine of the International Society of Magnetic Resonance (ISMAR)
NRC Representative in Partners in Education
- 1989 Member of the External Scientific Review Committee of the EVAD, (Electrohydraulic Ventricular Assist Device) Project
Member of the External Scientific Review Committee of the EVAD, (Electrohydraulic Ventricular Assist Device) Project
Elected Member of the Steering Committee of the Division of Biology and Medicine of the International Society of Magnetic Resonance (ISMAR)
Elected Member of the Steering Committee of the Division of Biology and Medicine of the International Society of Magnetic Resonance (ISMAR)
- 1988 Biophysical Chemistry Study Section, National Institutes of Health
Elected Member of the Steering Committee of the Division of Biology and Medicine of the International Society of Magnetic Resonance (ISMAR)
- 1987 Biophysical Chemistry Study Section, National Institutes of Health
NSERC Centennial Scholarship Committee
- 1983 NSERC Centennial Scholarship Committee
- 1982 NSERC Centennial Scholarship Committee

APPOINTMENTS

Journals/Newsletters (1988 – present)

- 2012 Associate Editor for the Journal of Magnetic Resonance Imaging
Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of MAGMA
- 2011 Associate Editor for the Journal of Magnetic Resonance Imaging
Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of MAGMA
- 2010 Associate Editor for the Journal of Magnetic Resonance Imaging
Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of MAGMA
- 2009 Associate Editor for the Journal of Magnetic Resonance Imaging
Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of MAGMA
- 2008 Member of the Editorial Board of Medical Technology Watch
Newsletter
Associate Editor for the Journal of Magnetic Resonance Imaging
Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of MAGMA
Member of the Editorial Board for Expert Opinion on Medical
Diagnostics
- 2007 Member of the Editorial Board for Expert Opinion on Medical
Diagnostics
Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of MAGMA
Associate Editor for the Journal of Magnetic Resonance Imaging
- 2006 Member of the Editorial Board for Expert Opinion on Medical
Diagnostics
Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of MAGMA
- 2005 Associate Editor for the Journal of Magnetic Resonance Imaging
Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of MAGMA
- 2004 Associate Editor for the Journal of Magnetic Resonance Imaging
Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of MAGMA
- 2003 Associate Editor for the Journal of Magnetic Resonance Imaging
Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of MAGMA

- 2002 Associate Editor for the Journal of Magnetic Resonance Imaging
Member of the Editorial Board of NMR in Biomedicine
- 2001 Associate Editor for the Journal of Magnetic Resonance Imaging
Member of the Editorial Board of NMR in Biomedicine
- 2000 Member of the Editorial Board of NMR in Biomedicine
- 1999 Member of the Editorial Board of NMR in Biomedicine
Editor of the Newsletter of the Biophysical Society of Canada
- 1998 Member of the Editorial Board of NMR in Biomedicine
Editor of the Newsletter of the Biophysical Society of Canada
- 1997 Member of the Editorial Board of NMR in Biomedicine
Editor of the Newsletter of the Biophysical Society of Canada
- 1996 Member of the Editorial Board of NMR in Biomedicine
Editor of the Newsletter of the Biophysical Society of Canada
Member of the Editorial Board of the Canadian Journal of Applied Spectroscopy
- 1995 Member of the Editorial Board of NMR in Biomedicine
Editor of the Newsletter of the Biophysical Society of Canada
Member of the Editorial Board of the Canadian Journal of Applied Spectroscopy
- 1994 Member of the Editorial Board of NMR in Biomedicine
Editor of the Newsletter of the Biophysical Society of Canada
Editor of the Newsletter of the Society of Magnetic Resonance "Pulse"
Member of the Editorial Board of the Canadian Journal of Applied Spectroscopy
- 1993 Member of the Editorial Board of NMR in Biomedicine
Editor of the Newsletter of the Society of Magnetic Resonance in Medicine "Resonance"
Editor of the Newsletter of the Biophysical Society of Canada
Member of the Editorial Board of the Canadian Journal of Applied Spectroscopy
- 1992 Member of the Editorial Board of NMR in Biomedicine
Editor of the Newsletter of the Society of Magnetic Resonance in Medicine "Resonance"
Member of the Editorial Board of the Canadian Journal of Applied Spectroscopy
- 1991 Member of the Editorial Board of NMR in Biomedicine
Member of the Editorial Board of the Society of Magnetic Resonance in Medicine Tenth Annual Meeting publication, SMRM "Pulse"

- Editor of the Newsletter of the Society of Magnetic Resonance in
Medicine "Resonance"
Member of the Editorial Board of the Canadian Journal of Applied
Spectroscopy
- 1990 Member of the Editorial Board of NMR in Biomedicine
Editor of the Newsletter of the Society of Magnetic Resonance in
Medicine "Resonance"
Member of the Editorial Board of the Canadian Journal of Applied
Spectroscopy
- 1989 Member of the Editorial Board of NMR in Biomedicine
Editor of the Newsletter of the Society of Magnetic Resonance in
Medicine "Resonance"
- 1988 Member of the Editorial Board of NMR in Biomedicine

AWARDS

- 2003 Visiting Professor, Harbin Medical University, People's Republic of
China
- 2003 Queen's Golden Jubilee Award, Ottawa, Ontario
- 2003 Nominee for the YMCA-YWCA Women of Distinction Award,
Winnipeg, Manitoba
- 1996 Circulation Research Society, Minas Gerais, Brazil
- 1994 Fellow of the Society of Magnetic Resonance
- 1985 Scholar in Residence, Queen's University, Kingston, Ontario
- 1971 Ontario-Québec Exchange Scholarship
National Research Council of Canada Postgraduate Scholarship
Bourse de perfectionnement du Ministère de l'éducation du Québec
- 1970 Ontario-Québec Exchange Scholarship
National Research Council of Canada Postgraduate Scholarship
Bourse de perfectionnement du Ministère de l'éducation du Québec
- 1969 Bourse de perfectionnement du Ministère de l'éducation du Québec
National Research Council of Canada Postgraduate Scholarship
- 1968 Bourse de perfectionnement du Ministère de l'éducation du Québec
National Research Council of Canada Postgraduate Scholarship

GRANTS (1991-2007, in addition to NRC internal funding)
(Obtained as Adjunct University Professor)

**CV Roxanne Deslauriers
2013**

2004 – 2007	Canadian Institutes of Health Research Normothermic normokalemic simultaneous blood perfusion of the empty-beating hypertrophied heart G. Tian, R. Deslauriers, T. Salerno, M. Jackson and B. Tomanek October, 2004 – September 2007	\$434,391
2004 - 2006	Canadian Institutes of Health Research Simultaneous arterial/venous perfusion of empty-beating heart G. Tian, M. Jackson, B. Tomanek, T. Salerno, R. Deslauriers April, 2004 – March, 2006	\$113,578
2004 - 2006	Heart and Stroke Foundation MR spectroscopy and imaging to determine optimal conditions for retrograde cerebral perfusion during hypothermic circulatory arrest J. Ye, R. Deslauriers July, 2004 – June, 2006	\$60,000
2004	Canadian Institutes of Health Research Simultaneous arterial-venous perfusion of an empty-beating heart: A new technique of myocardial preservation for hypertrophied hearts G. Tian, R. Deslauriers, T. Salerno, M. Jackson and B. Tomanek April, 2004 – September, 2004	\$28,390
2004	Canada Foundation for Innovation Platform of genetically-designed rats for the study of common human diseases P. Hamet, R. Deslauriers, and others	
2002 - 2005	Canadian Institutes of Health Research Interleaved T1-T2* imaging for assessment of myocardial viability G. Tian, R. Corne, W. Czarnecki, R. Deslauriers, N. Lazarow, L. Ryner June, 2002 – May, 2005	\$217,410
2001 - 2004	Canadian Institutes of Health Research The diagnosis of kidney rejection by urine MR and IR spectroscopy P. Nickerson, R. Deslauriers, D. Rush, R. Somorjai October, 2001 – September, 2004	\$293,871
2000 - 2002	Canadian Institutes of Health Research Brain protection during circulatory arrest J. Ye, R. Deslauriers, M. Jackson, L. Ryner July, 2002 – June, 2004	\$71,062

**CV Roxanne Deslauriers
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1999 - 2002	Medical Research Council (MRC) Prevention of cerebral embolism during cardiac surgery J. Ye; R. Deslauriers; P Kozlowski July, 1999 – June, 2002	\$191,160
1999 - 2001	Kidney Foundation of Canada The role of urine MR and IR spectroscopy in the diagnosis of acute and chronic kidney rejection D. Rush, P. Nickerson, R. Somorjai, R. Deslauriers July, 1999 - June, 2001	\$80,000
1999	Manitoba Medical Services Foundation The role of urine MR and IR spectroscopy in the diagnosis of acute and chronic kidney rejection P. Nickerson, D. Rush, R.Somorjai, R. Deslauriers January, 1999 - December, 1999	\$28,388
1998 - 2001	Medical Research Council of Canada Rubidium imaging of cardiac ischemia and infarction using ⁸⁷ Rb NMR V. Kupriyanov, R. Deslauriers January, 1998 - March, 2001	\$184,827
1997 - 2000	Medical Research Council of Canada Retrograde cardioplegia: A magnetic resonance imaging and spectroscopy study R. Deslauriers, J. K. Saunders, J. Shen, G. Tian, J. Odim January, 1997 - March, 2000	\$187,197
1997	Medical Research Council of Canada Studentship Voucher	\$15,000/year for up to 5 years.
1996 - 1997	Medical Research Council of Canada, University of Manitoba Evaluation of retrograde cardioplegia for heart protection during surgery. A magnetic resonance imaging and spectroscopy study R. Deslauriers, J. K. Saunders, G. Tian, J. Shen and J. Odim July, 1996 - June, 1997	\$40,000
1995 - 2000	Heart and Stroke Foundation of Manitoba NMR studies of cerebroplegia R. Deslauriers, J. K. Saunders, T. A. Salerno July, 1995-June, 2000	\$142,000
1994 - 1997	Natural Sciences and Engineering Research Council of Canada	\$96,000

	Development of localized magnetic resonance techniques for assessment of preservation of the heart and brain R. Deslauriers, J. K. Saunders April, 1994 - March, 1998	
1993 - 1998	Heart and Stroke Foundation of Manitoba Grant-in-aid Cardioplegia: An NMR study R. Deslauriers, V. Kupriyanov July, 1993 - June, 1998	\$174,000
1993 - 1995	Heart and Stroke Foundation of Ontario NMR Studies of Cerebroplegia R. Deslauriers, J. K. Saunders, T. A. Salerno July, 1993 - June, 1995	\$107,000
1993 - 1994	Heart and Stroke Foundation of Canada Junior Personnel Programme Investigate the effects of secondary cardioplegia solutions using ³¹ P NMR in the isolated pig heart R. Deslauriers, G. H. Tian	\$28,975
1992 - 1994	Medical Research Council of Canada ³¹ P NMR to monitor the efficacy of normothermic continuous blood cardioplegia R. Deslauriers, Dr. Tomas Salerno July, 1992 - June, 1994	\$150,750
1992 - 1994	Heart and Stroke Foundation of Canada Human Myocardium: NMR Study R. Deslauriers, W. Keon, R. Labow	\$82,087
1991 - 1993	Heart and Stroke Foundation of Ontario Cardioplegia: an NMR Study R. Deslauriers, G. Biro	\$83,695

INVITED LECTURES

Major Conference Presentations/Organization (1989 – 2007)

July, 2007	Workshop of the Science and Technology Centre of Ukraine Invited Lecturer, Biotechnology at NRC, Tbilisi, Republic of Georgia
May, 2007	Canadian Society of Chemistry (CSC) Conference Organizing Committee

- June, 2003 Canadian Association of Medical Radiation Technologist Meeting
“From Research to Clinic and Beyond – Developments in
Biodiagnostics Technology at NRC”,
Winnipeg, MB
- March, 2003 Congrès RMN biologique et les enjeux du vivant 7^{ème} Réunion du
Groupe thématique “ Magnétisme nucléaire et biologie”,
Clermont-Ferrand, France
- Aug., 2000 Protecting the Heart and Brain During Surgery: How Magnetic
Resonance has Helped Develop Better Strategies.
XIX International Conference on Magnetic Resonance in Biological
Systems,
Siena, Italy
- Oct., 2000 MRS and MRI Studies of Heart and Brain Protection for Surgery.
2nd Kraków-Winnipeg Workshop on Biomedical Applications of MRI
and MRS,
Kraków, Poland
- Dec., 1999 Imagerie et spectroscopie RMN multi nucléaires: leur rôle dans
l'évaluation de nouvelles techniques en chirurgie cardiaque
Douzièmes entretiens du Centre Jacques Cartier,
Lyon, France
- Nov., 1997 Protecting the Heart and Brain during Surgery: How Magnetic
Resonance has Helped Develop Better Strategies.
1st Kraków-Winnipeg Workshop on Biomedical Applications of MRI
and MRS,
Kraków, Poland
- June, 1996 Protecting the Heart and Brain during Surgery. How Magnetic
Resonance has Helped Develop Better Strategies
40th Annual Meeting of the Canadian Federation of Biological
Societies,
Quebec City, PQ
- Dec., 1995 Cerebral Protection during Cardiac Surgery
II International Meeting on Cardiology & Cardiovascular Surgery,
Belo Horizonte, Brazil
- July, 1995 Magnetic Resonance in the Development of Better Strategies for
Protecting the Brain during Surgery
12th Conference of the International Society of Magnetic Resonance,
Sydney, Australia
- Oct., 1994 Magnetic Resonance Research in Cardiac Surgery
Myocardial Preservation: Looking Toward the 21st Century,
Chicago, IL
- May, 1994 Protecting the Brain during Open Heart Surgery
77th Canadian Society of Chemists Conference ,
Winnipeg, MB

- May, 1994 Magnetic Resonance in Heart Preservation for Transplantation and Surgery
International Conference on Heart Failure,
Winnipeg, MB
- Dec., 1993 Cerebral Complications of Cardiac Surgery
Banff Conference-Alberta Stroke Program,
Banff, AB
- Nov., 1993 Use of NMR Technology to Assess Adequacy of Myocardial Protection
Simposio Internacionale de Cirurgia Coronaria y Cursos Paralelos,
Buenos Aires, Argentina
- Sep., 1993 Basic Research on Myocardial Protection: the MR Approach
Workshop on Blood Cardioplegia Techniques,
Pescara, Italy
- Aug., 1993 Cardiac Surgery and MR Research
III Congresso Nacional de Cirurgia Experimental
II Congresso Nacional de Cirurgia,
Belo Horizonte, Brazil
- July, 1993 MR of Tissues: Studies of Heart Preservation for Transplantation and Surgery, 1st Canadian NMR Summer Institute
Advances in MR,
Waterloo, ON
- Feb., 1993 Development and Present Status of Continuous Normothermic Blood Cardioplegia, Basic Research on Aerobic Cardiac Arrest
Aerobic Cardiac Surgery,
Bergamo, Italy
- Nov., 1992 High Field Magnetic Resonance and Surgical Practice
31st Japanese NMR Symposium,
Himeji, Japan
- Oct., 1992 Myocardial Preservation: Current Technology and Future Trends
NMR Technology for Evaluation of Myocardial Protective Techniques,
Atlanta, Georgia
- Sep., 1992 Spectroscopy: Principles and Additional Instrumentation
American Association of Physicists in Medicine,
Banff, AB
- Aug., 1992 The Physics of MR Imaging, American Association of Physicists
Summer School,
Banff, AB
- July, 1992 Medical Applications of Magnetic Resonance Spectroscopy
XIth International Society for Magnetic Resonance,
Vancouver, BC
- June, 1992 Application of High Field Magnetic Resonance Spectroscopy to Problems in Cardiac Surgery, Magnetic Resonance Imaging and Spectroscopy at High Magnetic Fields in vivo,

- May, 1992 National Heart, Lung and Blood Institute,
Bethesda, MD
Application of MR Spectroscopy to Cardiac Surgery and
Transplantation
Second Sakharov Symposium on Magnetic Resonance Imaging and
Spectroscopy,
Winnipeg, MB
- Sep., 1991 NMR Studies of Cardiac Preservation Prior to Transplantation and
During Surgery
II National Congress of Experimental Surgery,
Iguaçu Falls, Brazil
- Aug., 1991 Problems in the Calculation of Concentrations from Spectral Data
Mini-Categorical Course at the Tenth Annual Meeting of the Society of
Magnetic Resonance in Medicine,
San Francisco, CA
- June, 1991 Applications of NMR to Surgical Practice
Warm Heart Surgery: Theory, Concepts and Practice
Toronto Continuing Medical Education Program,
Toronto, ON
- Nov., 1990 NMR of Living Systems
Eastern Analytical Symposium, Symposium on Medical Magnetic
Resonance,
Somerset, NJ
- May, 1990 NMR from Molecules to Man
CIC Conference on Promising Chemical Techniques for
the 1990's
University of New Brunswick,
Fredericton, NB
- Feb., 1990 In Vivo Observation of the Biochemical Basis of Life Processes
Using NMR, The Pan American Association of Biochemical Societies,
Sao Paulo, Brazil
- Oct., 1989 Keeping Hearts Healthy until Transplant: NMR Looks at the
Biochemistry of Cells, Science '89 - Canada's Future,
Ottawa, Canada
- July, 1989 Preservation of Heart Tissue: ^{31}P and ^1H NMR Studies
10th International Society of Magnetic Resonance,
Morzine, France
- July, 1989 Spectroscopic approaches to Clinical Problems in Heart
Transplantation
Satellite Congress of ICR 89 - NMR Spectroscopy in vivo,
Lyon, France
- May, 1989 Science, Politics and the Public: Communicating the Issues
Second Symposium of Parliamentarians and Scientists,
Ottawa, ON
- Feb., 1989 NMR Studies of *Plasmodium berghei* Infection in CF-1 White Mice

Molecular Approaches to Biological Function by Stable Isotope-Aided NMR,
Oiso, Japan

Chairmanship, Scientific Meetings (1989 – present)

- Oct., 2007 Session Chair
IV Krakow-Winnipeg Medical Imaging Workshop,
Krakow, Poland
- Oct., 2007 Chair
Symposium “Progress in Molecular and Cellular Cardiology and
Cardiac Surgery”.
Global Heart Health & Disease Conference,
Winnipeg, MB
- Oct., 2006 Chair
Symposium “Sao Francisco de Assis Cardiovascular Foundation –
ServCor Post-Graduation Symposium”.
- Oct., 2006 Session Chair
Global Conference on Heart Health and Disease,
Winnipeg, MB
- Sep., 2005 Session Chair
III Krakow-Winnipeg Medical Imaging Workshop,
Krakow, Poland
- Oct., 2004 Co-Chair
Workshop on Myocardial Protection for the High Risk Patient –
Canadian Cardiovascular Congress,
Calgary, AB
- Oct., 2004 Co-Chair
Symposium on Myocardial Protection at the Canadian
Society of Cardiac Surgeons Meeting,
Calgary, AB
- March, 2003 Présidente
Congrès RMN biologique et les enjeux du vivant
7^{ème} Réunion du groupe thématique “Magnétisme nucléaire et
biologie”,
Clermont-Ferrand, France
- Aug., 2001 Chairperson
In vivo MR at International Society for Magnetic Resonance Meeting,
Rhodos, Greece
- July, 2001 Organizer and Chairperson
Symposium on NMR and Alternative Methods for Measuring Heart
Function
XVII World Congress of the International Society for Heart Research,
Winnipeg, MB

- May, 2001 Member and Consultant
Shaping the Future of Health Research and Economic Development
in Western Canada,
Winnipeg, MB
- Aug., 2000 Chairperson
Aula Magna Istituti Biologici Via A. Moro,
Siena, Italy
- Oct., 2000 Organizing Committee
II Kraków-Winnipeg Workshop on Biomedical Applications of MRI and
MRS,
Kraków, Poland
- Dec., 1999 Organizing Committee and Chairperson
Douzièmes entretiens du Centre Jaques-Cartier,
Lyon, France
- June, 1999 Organizer and Chairperson
Annual Symposium of the Biophysical Society of Canada,
Winnipeg, MB
- Dec., 1996 Chairperson
Symposium on Research at the Institute for Biodiagnostics in
Winnipeg
Scientific Forum VI,
Belo Horizonte, Minas Gerais, Brazil
- Dec., 1996 Chairperson
Colloquium "Myocardial Protection"
Scientific Forum VI,
Belo Horizonte, Minas Gerais, Brazil
- Dec., 1996 Moderator
Session on "Special Research Communications"
International Session I on Circulation Research Society,
Belo Horizonte, Minas Gerais, Brazil
- June, 1996 Organizing Committee and Chairperson
NMR-Nexus '96, Canadian NMR Summer School,
Winnipeg, MB
- Dec., 1995 Chairperson
Scientific Forum V, Cardiovascular Research in the Winnipeg Institute
for Biodiagnostics of the NRC,
Belo Horizonte, Brazil
- Dec., 1995 Co-organizer
II International Meeting on Cardiology and Cardiovascular Surgery,
Belo Horizonte, Brazil
- Oct., 1994 Co-Moderator
Current Basic Science Research
Myocardial Preservation: Looking Towards the 21 Century,
Chicago, IL

- Feb., 1993 Co-Chairman
Panel and Floor Discussion: Physiology of Aerobic Cardiac Surgery,
Bergamo, Italy
- July, 1992 Session Chair
Biopolymers in Solution
XIth International Society for Magnetic Resonance Conference,
Vancouver, BC
- Sep., 1991 Session Chair
Procedures for Myocardial Protection II National Congress of
Experimental Surgery,
Iguaçu Falls, Brazil
- July, 1990 Round Table Chairman
Animal and Cellular Models of Disease
Are They Clinically Relevant? Special Topics in Medical Magnetic
Resonance,
Whistler, BC
- Feb., 1989 Session Chair
Application of Stable Isotopes in in vivo NMR Spectroscopy,
Molecular Approaches to Biological Function by Stable Isotope-Aided
NMR,
Oiso, Japan

Invited Lectures (1989 – present)

- Dec., 2007 La recherche à l'Institut du biodiagnostic du CNRC,
Toulouse, France
- Oct., 2006 Workshop of the Science and Technology Centre of Ukraine
Invited Lecturer, Writing Successful Grants (3 lectures),
Kharkiv, Ukraine
- Oct., 2006 Workshop of the Science and Technology Centre of Ukraine
Invited Lecturer, How to Write Successful Grants and Understand the
Peer-Review Process (3 lectures),
Lviv, Ukraine
- July, 2005 Training Workshop of the Science and Technology Centre of Ukraine
Invited Lecturer, Writing Grants for Peer Review,
Kiev, Ukraine
- July, 2005 Training Workshop of the Science and Technology Centre of Ukraine
Invited Lecturer, Nanotechnology in Canada,
Kiev, Ukraine
- July, 2005 Training Workshop of the Science and Technology Centre of Ukraine
Invited Lecturer, Adding Value to Grant Proposals,
Kiev, Ukraine
- Sep., 2003 "Research at the Institute for Biodiagnostics", Harbin Medical
University,
People's Republic of China

- Dec., 1999 "Imagerie et spectroscopie RMN multinoyaux: leur rôle dans l'évaluation de nouvelles techniques en chirurgie cardiaque", Faculté de Médecine de Marseille, Marseille, France
- Nov., 1998 "MR and IR Spectroscopy of Urine for the Detection of Kidney Allograft Rejection", Department of Clinical Chemistry, Health Sciences Centre, Winnipeg, MB
- Feb., 1998 "Protecting the Heart and Brain During Surgery: How Magnetic Resonance is Helping Develop Better Strategies.", Department of Medical Imaging, University of Saskatchewan, Saskatoon, SK
- Nov., 1997 "Protecting the Heart and Brain During Surgery: How Magnetic Resonance is Helping Develop Better Strategies." Department of Cardiology, Faculty of Health Sciences, University of Manitoba, Winnipeg, MB
- Dec., 1996 "Cardiac Metabolism: NMR Approach", Scientific Forum VI, Belo Horizonte, Brazil
- Dec., 1996 "How Safe is Cerebral Protection by Retrograde Perfusion? NMR Evaluation", Scientific Forum VI, Belo Horizonte, Brazil
- Dec., 1996 "Antegrade and Retrograde Perfusion for Myocardial Protection", Scientific Forum VI, Belo Horizonte, Brazil
- Oct., 1996 Applications of NMR Spectroscopy and Imaging to Cardiac Surgery, Chemical Institute of Canada, Manitoba Chapter, University of Manitoba, Winnipeg, MB
- Aug., 1996 "Cardiac Injury and Metabolic Dysfunction Resulting from Cardioplegia: Assessment by Magnetic Resonance Spectroscopy", The Cellular Basis of Cardiovascular Function in Health and Disease, Kenora, ON
- May, 1996 NMR Studies of Cerebral and Cardiac Protection, State University of New York, Buffalo, NY
- Sep., 1995 MR Studies of Brain Protection during Heart Surgery, Betts Lecture Series/Minisymposium, University of Manitoba, Winnipeg, MB
- March, 1995 Myocardial Protection Investigation by Nuclear Magnetic Resonance, I Brazilian Symposium on Experimental Cardiovascular Research, Brasilia, Brazil
- Feb., 1995 MR Spectroscopy in Assessing Brain Protection during Complete Circulatory Arrest & Brain Retroperfusion, Peak Performance VIII, sponsored by Medtronic of Canada Ltd., Banff, AB

- Sep., 1994 Spectroscopic Imaging Studies of Pig Brains During Circulatory Arrest
3rd International Conference on The Brain and Cardiac Surgery,
Key West, Florida, USA
- Sep., 1994 Histopathological Evaluation of Brain during Circulatory Arrest
3rd International Conference on the Brain and Cardiac Surgery,
Key West, Florida, USA
- June, 1994 MR Spectroscopy Studies of Heart and Brain Protection During
Surgery Requiring Cardiopulmonary Bypass, Department of Medical
Biophysics, University of Toronto,
Toronto, ON
- May, 1994 MR Studies of Heart and Brain Protection During Surgery, Dept. of
Pharmacology, University of Manitoba,
Winnipeg, MB
- May, 1994 Application of MR Spectroscopy in Biology and Medicine, Dept. of
Chemistry, University of Winnipeg,
Winnipeg, MB
- Dec., 1993 MR Studies of Heart and Brain Protection, Grand Rounds,
University of Toronto Department of Cardiovascular and Thoracic
Surgery, St. Michael's Hospital,
Toronto, ON
- Oct., 1993 MR in Cardiac Transplantation and Surgery, New Biodiagnostic
Methods in Medical Research, Dept. of Physiology, University of
Manitoba,
Winnipeg, MB
- June, 1993 MR Studies of Heart Preservation University of Ancona Faculty of
Medicine,
Ancona, Italy
- Nov, 1992 NMR Technology and Heart Surgery, Himeji Institute of Technology,
Himeji, Japan
- Nov., 1992 Myocardial Protection: What MR can tell you about its efficacy,
National Cardiovascular Research Institute,
Osaka, Japan
- Nov, 1992 MR Technology for Evaluation of Myocardial Protection Techniques,
Shiga University Medical School,
Shiga, Japan
- March, 1992 Application of Nuclear Magnetic Resonance to the Study of
Myocardial Metabolism, York University,
Toronto, ON
- March, 1992 Application of NMR in Surgical Practice, Spectroscopy Society of
Canada, McGill University,
Montreal, PQ
- Feb., 1992 Use of NMR Techniques to Optimize Normothermic Heart Surgery
Annual Meeting of the Society for Thoracic Surgery,
Orlando, FL

- Oct., 1991 Combien de temps votre coeur peut-il survivre sans vous?, National Science and Technology Week, Oct. 18-27, Université de Moncton, Moncton, NB
- Oct., 1991 Can you see Chemistry in Living Cells? Science for the Curious 1991, Newfoundland and Labrador Science and Technology Advisory Council, Chemistry Department of Memorial University and Canadian Federation of Biological Sciences, St. Johns, NF
- Oct., 1991 How long can your heart live without you? National Science and Technology Week, Department of Chemistry, Dalhousie University, Halifax, NS
- Oct., 1991 NMR Applications in Heart Surgery and Transplantation, Perspectives in Magnetic Resonance: Frontiers in Biochemistry and Physiology, Institute for Biological Sciences, National Research Council, on the occasion of NRC's 75th Anniversary, Ottawa, ON
- Sep., 1991 NMR Studies of Organ Preservation, Escola Paulista de Medicina, Sao Paulo, Brazil
- Sep., 1991 The Use of NMR in Experimental Surgery, Medical School University of Sao Paulo, Sao Paulo, Brazil
- June, 1991 Combien de temps votre coeur peut-il survivre sans vous?, 75th Anniversary Lecture series, National Research Council, Ottawa, ON
- May, 1991 Use of NMR to study Optimal Conditions for Continuous Normothermic Blood Cardioplegia, American Association of Thoracic Surgeons Annual Meeting, Washington, DC
- May, 1991 Medicine at the Molecular Level via NMR, Department of Chemistry, McGill University, Montreal, PQ
- Nov., 1990 Women, Science and Technology, Institute of Women's Studies, Carleton University, Ottawa, ON
- Mar., 1990 The Porcine Heart as a Functional Model for NMR Studies of Human Heart Preservation, Workshop on *in vivo* MRS, San Francisco, CA
- Jan., 1990 Preservation of Hearts for Transplant, ^{31}P and ^1H NMR of Human and Porcine Tissue, National Institutes of Health, Bethesda, MD
- Nov., 1989 Spectroscopic Approaches to Clinical Problems in Heart Transplantation, Department of Pathology, University of Ottawa, Ottawa, ON

- Aug., 1989 Preservation of Heart Tissue: ^{31}P and ^1H NMR Studies, University of
Copenhagen,
Copenhagen, Denmark
- March, 1989 Women in Technology - Breaking the Gender Barrier, Carleton
University,
Ottawa, ON
- Feb., 1989 NMR Studies of Living Systems, National Cancer Center,
Tokyo, Japan

Selected Publications: Dr. Roxanne Deslauriers (span entire career)

- Over 200 peer-reviewed scientific publications. (Complete list available upon request.)
- Wang, L., Deng, J., Tian, W., Xiang, B., Yang, T., Li, G., Wang, J., Gruwel, M., Kashour, T., Rendell, J., Glogowski, M., Tomanek, B., Freed, D., Deslauriers, R., Arora, R.C. and Tian, G. Adipose-derived stem cells are an effective cell candidate for treatment of heart failure: an MR imaging study of rat hearts. *American Journal of Physiology: Heart and Circulation Physiology* 297: H1020-H1031, 2009
- Li, G., Dai, G., Xiang, B., Mark, J., Tomanek, B., Liu, H. and Deslauriers, R. Mapping myocardial viability using interleaved T1-T2* weighted imaging. *International Journal of Cardiovascular Imaging* 20: 135-143, 2004
- Tian, G., Xiang, B., Dai, G., Li, G., Sun, J., Summers, R. and Deslauriers, R. Retrograde cardioplegia. *Journal of Thoracic and Cardiovascular Surgery* 125: 872-880, 2003
- Somorjai, R.L., Dolenko, B., Nikulin, A., Nickerson, P., Rush, D., Shaw, A., Glogowski, M., Rendell, J. and Deslauriers, R. Distinguishing normal from rejecting renal allografts: application of a three-stage classification strategy to MR and IR spectra of urine. *Vibrational Spectroscopy* 28: 97-102, 2002
- Tian, G., Xiang, B., Dai, G., Sun, J., Lindsay, W. and Deslauriers, R. Simultaneous antegrade/retrograde cardioplegia protects myocardium distal to a coronary occlusion: A study in isolated pig hearts. *Magnetic Resonance in Medicine* 46: 773-780, 2001
- Docherty, J.C., Yang, L., Pierce, G.N. and Deslauriers, R. Na⁺-H⁺ exchange inhibition at reperfusion is cardioprotective during myocardial ischemia-reperfusion; ³¹P NMR studies. *Molecular and Cellular Biochemistry* 176: 257-264, 1997
- Kupriyanov, V.V., St-Jean, M., Xiang, B., Butler, K.W. and Deslauriers, R. Protective effect of amiloride during hypothermic hyperkalemic preservation: A ³¹P NMR study in isolated pig hearts. *Journal of Molecular and Cellular Cardiology* 27: 2237-2248, 1995
- Kupriyanov, V.V., Stewart, L.C., Xiang, B., Kwak, J. and Deslauriers, R. Pathways of Rb⁺ influx and their relation to intracellular [Na⁺] in the perfused rat heart: A ⁸⁷Rb and ²³Na NMR Study. *Circulation Research* 76: 839-851, 1995
- Lareau, S., Boyle, A., Deslauriers, R., Keon, W.J., Kroft, T. and Labow, R.S. Magnesium enhances function of postischaemic human myocardial tissue. *Cardiovascular Research* 27: 1009-1014, 1993
- Lareau, S., Labow, R.S., Mainwood, G.W., Moore, R., Keon, W.J. and Deslauriers, R. An NMR probe to study function and metabolism simultaneously in isolated human cardiac tissue. *Magnetic Resonance in Medicine* 20: 312-318, 1991
- Storey, K.B., Miceli, M., Butler, K.W., Smith, I.C.P. and Deslauriers, R. ³¹P-NMR studies of the freeze-tolerant larvae of the gall fly, *Eurosta solidaginis*. *European Journal of Biochemistry* 142: 591-595, 1984
- Deslauriers, R., Ekiel, I., Kroft, T. and Smith, I.C.P. NMR studies of malaria. ³¹P nuclear magnetic resonance of blood from mice infected with *Plasmodium berghei*. *Biochimica et Biophysica Acta* 721: 449-457, 1982
- Jarrell, H.C., Deslauriers, R., McGregor, W.H. and Smith, I.C.P. Interaction of opioid peptides with model membranes: a ¹³C NMR study of enkephalin binding to phosphatidyl serine. *Biochemistry* 19: 385-390, 1980
- Deslauriers, R., Leach, S.J., Maxfield, F.R., Minasian, E., McQuie, J.R., Meinwald, Y.C., Némethy, G., Pottle, M.S., Rae, I.D., Scheraga, H.A., Stimson, E.R. and Van Nispen, J.W. Cyclized depeptide model for a β-bend. *Proceedings of the National Academy of Sciences of the United States of America* 76(6): 2512-2514, 1979
- Deslauriers, R., Somorjai, R.L. and Ralston, E. Correlation between the x-ray structure of melanostatin and its conformation in solution. *Nature* 266: 746-748, 1977
- Deslauriers, R., Walter, R. and Smith, I.C.P. Long-range pH-dependent effects on the carbon-13 nuclear magnetic resonance spectra of oxytocin. *Proceedings of the National Academy of Sciences of the United States of America* 71: 265-268, 1974
- Walter, R., Prasad, K.U.M., Deslauriers, R. and Smith, I.C.P. Conformational studies of oxytocin, lysine vasopressin, arginine vasopressin, and arginine vasotocin by carbon-13 nuclear magnetic resonance spectroscopy. *Proceedings of the National Academy of Sciences of the United States of America* 70: 2086-2090, 1973

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