

NeuroScience
Canada
Partnership

NeuroScience
Canada
Foundation



OSB

Annual Report

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Recycled

Accelerating research to repair the brain

Mission statement

NeuroScience Canada aims to be:

The **pre-eminent private source of funds** in Canada to support neuroscience research capacity-building within multidisciplinary research programs;

A leader in neuroscience research strategic planning and a **major partner** with the public sector and voluntary health organizations in developing and supporting the neuroscience research agenda; and

An important voice for innovative neuroscience research as a public good.

What we do

NeuroScience Canada is a **national, non-profit organization that develops and supports collaborative, multidisciplinary, multi-institutional research across the neurosciences**. This research is aimed at discovering treatments and cures for diseases, disorders and injuries of the brain and nervous system, including Alzheimer's, Parkinson's, stroke, pain, autism, schizophrenia, depression, brain tumours and spinal cord injuries. NeuroScience Canada is **an umbrella organization and voice for the neurosciences**. Through partnering with the public, private and voluntary sectors, we **connect the knowledge and resources available** in this area to **accelerate neuroscience research and funding**, and maximize the output of Canada's world-class scientists and researchers.

Our history

In 1989, the Canadian government created the Networks of Centres of Excellence Program. One of these networks, the NeuroScience Network, was responsible for funding neuroscience research across the country. Over a period of eight years, \$46 million was disbursed among our best scientists, establishing Canada as a world-class centre for brain research. However, in 1998, the NeuroScience Network was suspended, leaving a significant shortfall in funding for research that was making a difference in the neurosciences. Shortly after, a group of concerned and dedicated leaders in business, academia and science had the idea of transforming the NeuroScience Network into a non-profit organization called the NeuroScience Canada Partnership and an affiliated charitable organization called the NeuroScience Canada Foundation. Together they are known as NeuroScience Canada.

The NeuroScience Canada model is to establish cross-sector partnerships to fund neuroscience research, wherein private-sector funding is leveraged with funding from provincial agencies, voluntary health organizations and the federal government's Canadian Institutes of Health Research. In 2001, a \$10-million fundraising campaign was launched, and since that time \$6.15 million has been raised and an additional \$19.6 million has been leveraged. These funds are contributing to excellent and innovative research programs and to the development of our own national Brain Repair Program, which has the goal of enabling research that will lead to scientific breakthroughs.

Message from the Chair and the President of the NeuroScience Canada Partnership and NeuroScience Canada Foundation

In 2003, NeuroScience Canada made exceptional progress in all aspects of our operations, programs and fundraising. The tipping point was forging a closer link with the science and research community through modifying two governance mechanisms – a process that was begun in 2002. First, we strengthened the status of our existing Science Advisory Council as a sub-committee of the Board. We also expanded it to include prominent scientists, researchers and clinicians from across Canada who are working in areas that cover the breadth of the neurosciences. Second, we functionally integrated the NeuroScience Canada Partnership and NeuroScience Canada Foundation boards and created the position of Vice-Chair Science, who is also the Chair of the Science Advisory Council.

With the best and most innovative scientists in Canada advising the Board on the latest achievements in the research community, the Board is able to strategize successfully on all matters related to developing world-class research programs and securing funds for these programs. This is the basis for continued growth and success, which at NeuroScience Canada means having an expanding impact on the ability of Canadian researchers in the

neurosciences to accomplish scientific breakthroughs. These breakthroughs will advance our understanding of how the brain works and lead to treatments that will vastly improve the quality of life of the millions of individuals and families in Canada and worldwide who are impacted by neurological and psychiatric diseases, disorders and injuries.

Nowhere will the results of our work have a greater impact on the health of our population than in the area of brain repair. Recognizing the importance of building on our history of participating in and facilitating cross-sector partnerships, we developed the Brain Repair Program, which focuses on bringing together researchers from different disciplines and institutions to find ways to enhance the brain's ability to be repaired or to repair itself. This cutting-edge program establishes our identity and distinguishes us as a leader in Canadian research. To our surprise and delight, it also led to an unexpected honour, the awarding to NeuroScience Canada of the “Non-Governmental Organization/Voluntary Health Organization of The Year Award 2003” from the CIHR Institute of Neurosciences, Mental Health and Addiction.



The Honourable Michael H. Wilson (centre), Chair; with Mr. J. Anthony Boeckh (left), Vice-Chair Administration and Chair, Audit and Finance Committee; and Dr. David Kaplan (right), Vice-Chair Science and Chair, Science Advisory Council.

The Brain Repair Program has also provided a tremendous boost to our efforts to attract and leverage funds. By putting science at the centre of our work, we have created an atmosphere of excitement that donors and partners find compelling. Furthermore, we are now able to offer donors concrete opportunities for giving that match their particular interests. The outcomes are accelerated fundraising and an increased capacity to leverage existing partnerships and form new ones.

Our successes with the Brain Repair Program and raising funds are complementing and enhancing our long-term goal of becoming the key umbrella organization and voice for the neurosciences. The three leading causes of death or disability in Canada are 1) cancer 2) heart disease and stroke, and 3) the broad range of brain- and nervous system-related diseases, disorders and injuries that make up the neurosciences. This third category is the only one of the “big three” that is not supported by an organization that brings together all stakeholders, raises awareness and increases funding for research. Over the next year, we will endeavour to develop support among public policy-makers and influencers for an increased Canadian effort in supporting neuroscience and brain repair research.

NeuroScience Canada has the capability to connect the latest knowledge with the very best resources, not just once but many times over. As connection follows connection, we will play an increasing role in maximizing the output of Canada’s distinguished scientists and researchers. To do this, we will need to continually improve our ability to secure private-sector funding and leverage it with funding from provincial and federal government agencies and voluntary health organizations. We are well positioned to do just that, and we look forward to welcoming new donors and partners in 2004.

With many thanks to our volunteers, donors and partners who contributed to an outstanding 2003,



Michael H. Wilson
Chair



Inez Jabalpurwala
President

Dr. Martin J. Steinbach, Member, CIHR Institute of Neurosciences, Mental Health and Addiction (INMHA) Advisory Board, presents Ms. Inez Jabalpurwala, President, NeuroScience Canada, with the first CIHR INMHA “NGO/VHO of The Year Award” at the Institute’s Annual General Meeting in November 2003.





\$8-million Brain Repair Program

Accelerating research to repair the brain

In 2003, NeuroScience Canada established the first national Brain Repair Program in Canada. Brain repair is a new field of scientific endeavour that is exploring means of enhancing the brain's ability to be repaired or to repair itself. For researchers working in the area of brain repair, the Brain Repair Program is the largest fund available in the country and is intended to accelerate the pace of their research and increase the possibility of breakthroughs. The Chair of NeuroScience Canada, The Honourable Michael H. Wilson, was pleased to officially launch the program on November 22 in Toronto during his keynote address at the Annual General Meeting of the Institute of Neurosciences, Mental Health and Addiction.

The Brain Repair Program has the unique and vital mission of fast-tracking transformative research to hasten the discovery and development of new treatments and therapies for a range of neurological and psychiatric diseases, disorders and injuries. The program will support Canadian scientists who are on the brink of making important discoveries that have the potential to dramatically improve the quality of life of millions of Canadians. The program is shaped by NeuroScience Canada's experiences as a leader in supporting research that involves various disciplines and institutions and cuts across diseases, disorders and injuries.

The Brain Repair Program is aligned with the Strategic Initiative in Regenerative Medicine of the Canadian Institutes of Health Research (CIHR). Regenerative medicine, which seeks to repair or replace injured tissue and organs through natural or bioengineered means, is an emerging field that is attracting worldwide interest. NeuroScience Canada will continue to work in collaboration with the CIHR to ensure the complementary interaction of our Brain Repair Program and the Strategic Initiative in Regenerative Medicine.

The Brain Repair Program has several distinctive features:

- As a national program that emphasizes excellence and innovation, it provides exceptional support to Canada's very best scientists by offering funding at internationally competitive levels. It also provides the optimal conditions for these scientists, whose research addresses common mechanisms across disorders that affect the brain and nervous system, to work collaboratively with researchers and institutions across the country.
- Recognizing that many disciplines are making significant advances in research, the program encourages a multidisciplinary approach to brain repair where the traditional neurosciences work side by side with various biomedical disciplines such as genetics, molecular biology, physiology and pharmacology, as well as with physics, chemistry, imaging and nanotechnology.
- Founded in the belief that the ultimate goal of basic research is to lead to new and better treatments and cures for patients, the program supports teams that link basic research with clinical research that is being conducted in such areas as neurology, neurosurgery, psychiatry and rehabilitation medicine.
- The program aims to develop world-class researchers in the neurosciences and to ensure that they have ample opportunity to develop their skills and knowledge in Canada. This will be achieved by encouraging the formation of teams that include young scientists and providing them with an excellent training milieu.

The CIHR is proud to be a collaborator in the Brain Repair Program initiative. The research that will be made possible through this collaboration will bring new insights into the mechanisms of brain disorders and ultimately benefit those who suffer.”

Dr. Alan Bernstein, President, CIHR

The Honourable
Michael H. Wilson
officially launches
the Brain Repair Program.



Funding five teams of researchers


NeuroScience Canada will allocate \$8 million of the \$10-million National Brain Repair Fund Campaign total to five teams of researchers, two of which will be chosen and announced in the summer of 2004. The funding will commence immediately upon the announcement and will constitute \$1.5 million for each team over three years plus an additional \$60,000 over the same period to support networking. The three subsequent teams will be added as donor and partner funding is secured.

A request for applications to be one of these five teams was announced at the program launch in November, following which 21 letters of intent were received from across Canada. NeuroScience Canada's Science Advisory Council selected eight teams to advance to the full application stage. The projects proposed by the teams had to meet the basic criteria of the Brain Repair Program:

- show that a transformation, or "leap," in the field of brain repair will be achieved;
- address mechanisms and/or themes that are common to a number of diseases, disorders and injuries that are related to the brain or nervous system;
- demonstrate excellence and innovation and show that the research will be approached in a truly collaborative manner.

The teams submitted their full applications at the end of May 2004. The applications will be reviewed by an independent selection committee (International Study Section) of experts, all of whom will have international stature. The chair of the ISS is Dr. Bruce McEwen, Professor, Rockefeller University in New York and Head of the Harold & Milliken Hatch Laboratory of Neuroendocrinology. The ISS will rate and order the teams and recommend those that should be funded in this round.

The Brain Repair Program launch was made possible thanks to a \$1.5-million grant from the CIHR and its Institute of Neurosciences, Mental Health and Addiction, and Institute of Aging, and the support of donors to NeuroScience Canada's National Brain Repair Fund Campaign, including an Anonymous Donor who provided a \$1.2-million challenge gift. The Brain Repair Program has been strongly endorsed by voluntary health organizations, universities, research institutes and provincial agencies.



NeuroScience Canada is a leader in the development and funding of excellent neuroscience research that is collaborative, multidisciplinary and multi-institutional.



Current and past programs

NeuroScience Canada has a strong commitment to programs and initiatives that increase the potential of Canadian scientists to make discoveries that will lead to new treatments for people suffering from disorders of the brain and nervous system. As a result of this commitment, \$2 million of the \$10-million National Brain Repair Fund Campaign total has been allocated to the following:

The Alberta Initiative

The Alberta Initiative provides studentships and post-doctoral fellowships at the universities of Alberta, Calgary and Lethbridge with the goal of attracting, retaining and investing in promising young neuroscientists. This initiative is a partnership with the Alberta Heritage Foundation for Medical Research (AHFMR) and is the only provincial program currently supported by NeuroScience Canada. The peer review process to select the award recipients is conducted by the AHFMR, which also provides matching funds at a ratio of 7:3, multiplying every donor dollar.

Since the launch of this initiative in November 1998, NeuroScience Canada has raised \$1 million. An Anonymous Donor gave \$300,000 of this amount as a challenge gift, which was released in February 2003 when NeuroScience Canada raised the balance of \$700,000. To date, eight fellowships and 22 studentships have been awarded, with NeuroScience Canada contributing \$597,650.

One of the awards is for research that looks at mental illness and concurrent disorders as determinants of homelessness. NeuroScience Canada coordinated the support of several stakeholders with an interest in this research, including the Calgary Homelessness Foundation, the National Secretariat on Homelessness, and the Edmonton Joint Planning Committee on Housing. Together we developed a framework for this award that can be found by visiting www.neurosciencecanada.ca and clicking on Programs, then Partnered Programs. In addition, the National Secretariat on Homelessness, through its National Homelessness Initiative, has committed \$15,000, provided links and contacts for gathering information and data, promoted the research among key populations within Alberta, and offered advice and guidance as needed.

Alberta award recipients

2004

Studentship

Mr. Ira Driscoll, University of Lethbridge
The Aging Hippocampus: a Multilevel Assessment of Age-Related Memory Deficits

Fellowships

Dr. Steeve Houle, University of Calgary
Molecular Pharmacology of the Proteinase-Activated Receptor-4: Roles and Mechanisms of Action in Inflammation

Dr. Tiona R. Todoruk, University of Calgary
The Effects of Metals and Anions on Matrix Metalloproteinases: A Link Between Environmental Factors and Multiple Sclerosis

2003

Studentships

Ms. Kristin E. Musselman, University of Alberta
Sensory Control of Walking in Human Infants and Adults

Mr. Kashif Parvez, University of Calgary
Proteomic Analysis of the Molecular Determinants for Memory Formation

Fellowship

Dr. Nicole Sherren, University of Lethbridge
Functional Recovery and Cerebral Organization After Focal and Restricted Perinatal Injuries in Rats

“I am interested in the area of motor control and neurological rehabilitation because of my physiotherapy background. I chose to study with Dr. Yang at the University of Alberta because I will be studying the plasticity of the spinal cord in a rehabilitation context.”

Ms. Kristin E. Musselman

“Long-term memory involves gene activation, the synthesis of new proteins, and the growth of new connections. However, it is uncertain which proteins are involved in and essential to the formation of memory. Knowing the ‘memory formation protein’ will be a significant advancement with potential therapeutic impact on the treatment of various mental disorders and other cognitive disabilities.”

Mr. Kashif Parvez

The Barbara Turnbull Award for Spinal Cord Research

Established in 2001, this award supports Canadian research in spinal cord injury and is funded by NeuroScience Canada in partnership with the Barbara Turnbull Foundation for Spinal Cord Research and the Canadian Institutes of Health Research's Institute of Neurosciences, Mental Health and Addiction. Beginning in 2002, one award for \$350,000 is provided each year for five years, with NeuroScience Canada contributing \$25,000 of that amount, which is then leveraged with \$325,000 of partnered funding.

The recipient in 2002 was Dr. David Kaplan, Head of Cancer Research at Toronto's Hospital for Sick Children and Canada Research Chair in Cancer and Neuroscience. The 2003 award went to Dr. Mohamad Sawan at École Polytechnique de Montréal. Dr. Sawan is studying remote bladder volume measurement and implant monitoring, as well as subsequent selective stimulation to enhance the ability of people with spinal cord injuries to empty their bladder.



Dr. Rémi Quirion (left), Scientific Director, CIHR Institute of Neurosciences, Mental Health and Addiction, presents Dr. Mohamad Sawan, Professor, École Polytechnique de Montréal, Department of Electrical Engineering, with the 2003 Barbara Turnbull Award for Spinal Cord Research.

The Canadian Neurotrauma Research Program

This ambitious program has several goals, including funding excellence in Canadian brain and spinal cord repair research, keeping duplication in research to a minimum, fostering an environment where young scientists and clinical investigators can flourish, and encouraging collaboration among institutions, laboratories and scientists. Partnered in the program are NeuroScience Canada, the Rick Hansen Institute/Rick Hansen Neurotrauma Initiative-BC, the Regeneration Tour Society,

the Alberta Paraplegic Foundation, the Manitoba Neurotrauma Initiative, the Newfoundland/Labrador Neurotrauma Initiative, the Ontario Neurotrauma Foundation, and the Canadian Institutes of Health Research. Between 1999 and 2001, \$16.8 million was disbursed to support 56 operating grants and 22 fellowships. During this period NeuroScience Canada contributed \$663,866 to cover multi-year awards.

Chronic Pain Program

Between May 2003 and March 2004, Dr. Patrick McGrath of the Canadian Consortium on Pain Mechanisms, Diagnosis and Management recruited several trainees to work in the area of "Origins of Psychosocial Mechanisms and Determinants of Chronic Pain." This research aims to discover the origins of chronic pain in childhood and adolescence. NeuroScience Canada contributed \$34,000 to the program, which Dr. McGrath then leveraged fourfold, giving him the opportunity to quickly attract outstanding trainees who were subsequently funded by other sources.

The projects begun by the trainees include:

1. A survey study that examines the psychosocial factors in pain and disability in adolescents, conducted by Sandra Reyno, a second-year PhD student.
2. A proposal to use survey methodology to examine the psychosocial factors that influence disability due to headache in young adults, prepared by Bernadette Kovacs, an undergraduate honours student.
3. A series of studies that examines the central role of "reassurance by mothers" as a factor in discouraging children from coping with their pain, prepared by Meghan McMurtry, a first-year PhD student.
4. A research project to examine the role of peers and family in the development of chronic pain and disability in adolescence, conducted by Jill Hatchette, a postdoctoral fellow.
5. A pilot project to assess the natural history of pain and pain-related disability in children with juvenile rheumatoid arthritis or ulcerative colitis, conducted by two undergraduate medical students.

Cognitive Impairment in Aging Partnership

The Cognitive Impairment in Aging (CIA) Partnership is a grouping of 13 organizations that share the goal of addressing the multi-dimensional nature of cognitive impairment in aging, including Alzheimer's disease and other dementias. NeuroScience Canada is a strategic and funding partner of the CIA and is currently supporting a strategic initiative in health research training that will provide training grants for research in cognitive impairment. Its main objective is twofold: to support the development of innovative and effective transdisciplinary training programs that are internationally competitive, and to embrace diverse research disciplines and methodological approaches to resolve major health issues and scientific challenges.

The \$120,000 contributed by NeuroScience Canada will be matched with \$120,000 from the Institute of Aging and \$120,000 from the Alzheimer Society of Canada for a total funding of \$360,000.

In February 2004, the CIA Partnership nominated Dr. Howard Chertkow, Director of the Bloomfield Centre for Research in Aging at the Lady Davis Institute in Montréal, to champion a research strategy through his application for a Network Centre of Excellence devoted to cognitive impairment, the Cognitive Impairment Network (CI-NET). Should the CI-NET be established, it would constitute the research component of the CIA's approach to the management of Alzheimer's and dementia.

The Gene Therapy for Neurological Diseases Program

This program supports an interdisciplinary team of scientists under the leadership of Dr. George Karpati, an eminent researcher at the Montreal Neurological Institute. The team is studying the use of novel gene therapies to treat, and hopefully cure, currently untreatable neurological and neuromuscular disorders in young children and adolescents. These disorders include Duchenne muscular dystrophy, McArdle disease (glycogen phosphorylase deficiency) and a kind of brain tumour called glioblastoma multiforme. So far the results are promising, as the therapies

under study may be applicable to a wider range of diseases beyond the three that are currently targeted.

This \$1.5-million program offers exceptional leveraging, with \$14 matched to every dollar donated. NeuroScience Canada's contribution is \$100,000. Other partners include the Institute of Neurosciences, Mental Health and Addiction, the Muscular Dystrophy Association of Canada, and other relevant Canadian Institutes of Health Research (CIHR) institutes.

The Dr. Norma Calder Schizophrenia Post-Doctoral Fellowship

In 2001, NeuroScience Canada and the Dr. Norma Calder Schizophrenia Foundation in British Columbia agreed to join together to fund a postdoctoral fellow at the University of British Columbia. This fellow would be conducting research on schizophrenia within the CIHR Health Partnership Program. In April 2003, three candidates were nominated by the CIHR, and a few months later the peer-review panel selected Dr. Clare L. Beasley as the recipient of the fellowship, which began in September 2003. NeuroScience Canada's contribution of \$10,375 was matched by \$31,125 in partner funding for a total of \$41,500.

A former resident of the United Kingdom, Dr. Beasley completed her PhD at the University of Sheffield and was a research fellow at the Institute of Psychiatry in London. She is presently comparing brain samples taken from people with schizophrenia with samples taken from people without psychiatric disorders, hoping to find differences that may be related to schizophrenia. Her goal is to identify changes in the way brain cells connect and interact either within a specific region of the brain or between different regions.

Dr. Clare L. Beasley (2nd from right), the 2003 Dr. Norma Calder Schizophrenia Post-Doctoral Fellowship recipient, at the official ceremony with (from left to right) NeuroScience Canada Board Members Dr. Hugh Wynne-Edwards and Dr. Anthony Phillips, and Mr. David Carter, President of the Dr. Norma Calder Schizophrenia Foundation.



National Training and Partnership Challenge programs

In 1999, the NeuroScience Canada Foundation established the National Training Program as a means to invest in promising young neuroscientists and to encourage them to stay in Canada. That same year, the Foundation and the Medical Research Council of Canada jointly created the Partnership Challenge Program to fund fellowships and doctoral research awards in the neurosciences. In 2000, the Medical Research Council was replaced by the Canadian Institutes of Health

Research (CIHR), and the National Training and Partnership Challenge programs were gradually phased out. NeuroScience Canada continues to collaborate with several of the CIHR's 13 institutes on programs of mutual interest and through these collaborations is able to leverage funds from private donors.

Revitalized Web site

Realizing the importance of reaching the broadest possible constituency, we completely redesigned and updated our Web site in 2003. Visit www.neurosciencecanada.ca to discover facts about our organization, the latest news, information about our programs and how to apply for funds. You will also find links to other sites of interest, as well as the annual reports from 2001 and 2002, which can be downloaded. We hope you will bookmark our site and visit us often!

Board of Directors (2003)

NeuroScience Canada Partnership / NeuroScience Canada Foundation

Chair of the Board

Michael H. Wilson
Chairman
UBS Canada
(Toronto)

Directors

Albert J. Aguayo
Secretary General
International Brain
Research Organization
(Montréal)

J. Anthony Boeckh
Vice-Chair Administration
Chair, Audit and
Finance Committee
President
Boeckh Capital Company
Limited
(Montréal)

Warren C. Bull
Executive Director
Former NeuroScience
Network
(Ottawa)

Vincent Castellucci
Associate Dean
for Research
Université de Montréal
(Montréal)

Marcel Côté
(Effective May 2004)
Founding Partner
President
SECOR
(Montréal)

Inez Jabalpurwala
President and
Secretary-Treasurer
NeuroScience Canada
Partnership and
NeuroScience Canada
Foundation
(Montréal)

Charles Kaplan
Vice President and
R&D Site General Manager
AstraZeneca R&D
(Montréal)

David Kaplan
Vice-Chair Science
Chair, Science Advisory
Council
Head, Cancer Research
Program
The Hospital for
Sick Children;
Canada Research Chair in
Cancer and Neuroscience
(Toronto)

Brandt C. Louie
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Company Limited;
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G. Donald Love (deceased)
Past President
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Heather Munroe-Blum
Vice-Chancellor
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Anthony G. Phillips
Professor
Department of Psychiatry
University of
British Columbia;
Chair, Advisory Board
CIHR Institute
of Neurosciences,
Mental Health
and Addiction
(Vancouver)

J. Robert S. Prichard
President and CEO
Torstar Corporation;
President Emeritus
University of Toronto
(Toronto)

Jean L. Rouleau
Dean, Faculty of Medicine
Université de Montréal
(Montréal)

Richard Stein
Professor of Physiology
and Neuroscience
Centre for Neuroscience
University of Alberta
(Edmonton)

John M. Stewart
Partner, Toronto Office
Blake, Cassels &
Graydon LLP
(Toronto)

Allan R. Taylor
Chair, Governance
Committee
Retired Chairman and CEO
Royal Bank of Canada
(Toronto)

Franco J. Vaccarino
(Effective May 2004)
Head, Neuroscience
Program
Department of Psychiatry
University of Toronto;
Executive Vice-President,
Programs
Centre for Addiction
and Mental Health
(Toronto)

Hugh Wynne-Edwards
President
Terracy Inc.
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David Johnston
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(Waterloo)

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Chairman
Coril Holdings
(Calgary)

Jean-Marie Poitras
Former Senator
(Québec)

Barbara Turnbull
President
The Barbara Turnbull
Foundation for Spinal
Cord Research
(Toronto)



Science Advisory Council (2003)

Dr. David Kaplan, Chair
Head, Cancer Research Program
The Hospital for Sick Children;
Canada Research Chair
in Cancer and Neuroscience

Ms. Inez Jabalpurwala,
Ex-officio member
President
NeuroScience Canada

Members

Dr. Albert J. Aguayo
Secretary-General
International Brain
Research Organization
Montreal General Hospital
Research Institute

Dr. Catherine M. Bushnell
Director
Anaesthesia Research Unit
Department of Anaesthesia
McGill University
Royal Victoria Hospital

Dr. Vincent Castellucci
Associate Dean for Research
Université de Montréal

Dr. David R. Colman
(Until May 2004)
Director
Montreal Neurological Institute

Dr. James L. Henry
Professor and Chairman
Department of Physiology &
Pharmacology
University of Western Ontario

Dr. Peter St. George Hyslop
Director
Centre for Research in
Neurodegenerative Diseases
University of Toronto

Dr. Stanley P. Kutcher
Department Head
Department of Psychiatry
Dalhousie University
Medical School

Dr. Andres Lozano
Senior Scientist
Division of Applied and
Interventional Research
Toronto Western
Research Institute

Dr. Anthony G. Phillips, Chair
Professor
Department of Psychiatry
University of British Columbia;
Chair, Advisory Board
CIHR Institute of Neurosciences,
Mental Health and Addiction

Dr. Richard Riopelle
Chair, Department of Neurology
and Neurosurgery
McGill University

Dr. Serge Rossignol
Director
Centre for Research
in Neurological Sciences

Dr. James T. Rutka
Chairman
Division of Neurosurgery
University of Toronto
The Hospital for Sick Children

Dr. Richard Stein
Professor of physiology
and neuroscience
Division of Neuroscience
Faculty of Medicine
University of Alberta

Dr. Franco J. Vaccarino
Head, Neuroscience Program
Department of Psychiatry
University of Toronto;
Executive Vice-President,
Programs
Centre for Addiction
and Mental Health

Dr. Samuel Weiss
Professor
Departments of Cell Biology
and Anatomy and Pharmacology
and Therapeutics
University of Calgary

NeuroScience Canada hosted a dinner for members of our Board and Science Advisory Council, and special guests from the CIHR, in Montréal on February 2, 2004.

Front Row, Left to Right: Dr. Alan Bernstein, Dr. David Kaplan, The Honourable Michael H. Wilson, Mr. J. Anthony Boeckh, Dr. Heather Munroe-Blum.

Middle Row, Left to Right: Ms. Astrid Eberhart, Dr. Rémi Quirion, Mr. Warren C. Bull, Dr. Vincent Castellucci, Ms. Inez Jabalpurwala, Dr. Richard Riopelle, Mr. Marcel Côté.

Back Row, Left to Right: Dr. James Henry, Dr. Franco Vaccarino, Dr. Albert J. Aguayo, Dr. David Colman, Dr. Hugh Wynne-Edwards, Mr. John M. Stewart, Mr. Charles Kaplan, Dr. Stanley Kutcher.

Board development

With the goal of establishing a well-structured Board of Directors regulated by comprehensive governance mechanisms, the boards of the NeuroScience Canada Partnership and the NeuroScience Canada Foundation passed a motion in May 2003 to share the same slate of directors and committees. This strengthened the integration of the Partnership's and Foundation's activities and has increased our ability to carry out our mission.

In addition, the Board of Directors created the positions of Vice-Chair Administration and Vice-Chair Science to ensure that finances and operations are regularly monitored and that funds are used for maximum impact. The Vice-Chair Science also serves as Chair of the Science Advisory Council and is a link between the Board and the science and research community. The Science Advisory Council is an independent group of prominent scientists, researchers and clinicians, with broad representation from across Canada. It advises the Board on all matters related to our science program, and as a result Directors are able to provide informed, strategic leadership. They are also better equipped to successfully secure the resources necessary for the organization's operations and science program.

In addition to the Science Advisory Council, the Board of Directors has formed two committees: a Governance Committee to provide counsel on governance matters and ensure the smooth integration of the Partnership and Foundation activities, and an Audit and Finance Committee to review budgets and financial statements on a regular basis. Both committees work closely with the President and report regularly to the NeuroScience Canada Partnership and Foundation Board.

The importance of a well-defined governance structure and practices has been appropriately recognized by the Board of Directors and the Management staff. The effectiveness of the Partnership and Foundation, working together as one, has proven the value of changes made during the past year."

*Mr. Allan R. Taylor
Chair, Governance Committee*

The new structure offers many benefits:

- We have received increased support from the science and research community as a result of the work of the Science Advisory Council, which gives independent representatives a formal role in ensuring that our program will have a significant impact on advancing brain research.
- Thanks to the efforts of the Governance Committee, we have been able to assure our donors that our organization is carefully monitored and fully transparent.
- Our financial integrity has been strengthened through the Audit and Finance Committee.

In May of 2003, The Honourable Michael H. Wilson was appointed Chair of the NeuroScience Canada Partnership, succeeding Dr. Hugh Wynne-Edwards, who served in that position from 1999 to 2003, during the important period of transition from the NeuroScience Network to the Partnership and Foundation. Mr. Wilson also continues as Chair of the NeuroScience Canada Foundation and National Chair of the Brain Repair Fund Campaign. Mr. Allan R. Taylor continues as Chair of the Governance Committee, and Mr. J. Anthony Boeckh continues as Chair of the Audit and Finance Committee. Mr. Boeckh is also serving as Vice-Chair Administration. In October, Dr. David Kaplan was appointed Vice-Chair Science and Chair of the Science Advisory Council.

NeuroScience Canada welcomed two new Directors in 2003: Mr. John M. Stewart, Partner, Toronto Office, Blake, Cassels & Graydon LLP, and Dr. Jean L. Rouleau, Dean of the Faculty of Medicine, Université de Montréal. In 2004, NeuroScience Canada appointed two additional Directors, Mr. Marcel Côté, Founding Partner and President, SECOR, and Dr. Franco Vaccarino, Head, Neuroscience Program, Department of Psychiatry, University of Toronto; Executive Vice-President, Programs, Centre for Addiction and Mental Health. All are outstanding individuals and were highly recommended by their peers. Their participation will enrich Board discussions and effectiveness.

Finally, on a sad note, NeuroScience Canada lost a valued member with the death of Mr. G. Donald Love in October. Mr. Love joined the NeuroScience Canada Board in 2000 and served as a Director until his death. He is greatly missed.

Science Advisory Council news

In 2003, NeuroScience Canada expanded our Science Advisory Council to include the most prominent scientists, researchers and clinicians in Canada. We appointed as Chair Dr. David Kaplan, Head of Cancer Research at Toronto's Hospital for Sick Children, Canada Research Chair in Cancer and Neuroscience, and recipient of the 2002 Barbara Turnbull Award for Spinal Cord Research. Dr. Kaplan succeeds Dr. Anthony G. Phillips, Professor, Department of Psychiatry at the University of British Columbia, and Chair of the Advisory Board of the CIHR's Institute of Neurosciences, Mental Health and Addiction.

Over the past year the Council focused its activities on developing and launching NeuroScience Canada's Brain Repair Program, a national research program characterized by excellence and innovation that focuses on discovering ways to enhance the brain's ability to be repaired or to repair itself (see pages 6 and 7 for details about the program). The Science Advisory Council has significantly extended our network of contacts and raised NeuroScience Canada's profile within the science and research community.

Profile of Dr. David Kaplan Chair, Science Advisory Council; Vice-Chair Science

David Kaplan received his BA from Clark University in Massachusetts in 1978, and his PhD from Harvard University in 1987. He did his PhD thesis work with Dr. Thomas Roberts at the Dana-Farber Cancer Institute and performed his post-doctoral studies from 1988 to 1990 at the University of California, San Francisco with Dr. Harold Varmus.

In 1990, Dr. Kaplan established a laboratory at the National Cancer Institute in Maryland where, in collaboration with Dr. Luis Parada's group, he identified Trk as the receptor for Nerve Growth Factor. Six years later he relocated his laboratory to the

Montreal Neurological Institute at McGill University where he became a Professor in the Department of Neurology and Neurosurgery, Research Head of the Brain Tumour Research Centre, and William Feindel Chair in Neuro-oncology.

In 2002, Dr. Kaplan became a Senior Scientist and Head of Cancer Research at The Hospital for Sick Children and Professor, Department of Molecular Genetics at the University of Toronto. He holds a Canada Research Chair in Cancer and Neuroscience. His laboratory focuses on examining signal transduction processes in neurons and neural tumour cells.

Awards and honours

Scholar, McLaughlin Centre for Molecular Medicine, Toronto (2004)

Canada Research Chair in Cancer and Neuroscience, Tier I (2003)

Barbara Turnbull Award for Spinal Cord Injury Research, CIHR Institute of Neuroscience, Mental Health and Addiction, Barbara Turnbull Foundation, Neuroscience Canada Foundation (2003)

William Feindel Chair in Neuro-oncology, Montreal Neurological Institute, McGill University (2001)

Research Scientist Award, Canadian Cancer Society (1996-2002)

Harold E. Johns Award for most outstanding applicant for a CCS Research Scientist Award, National Cancer Institute of Canada (1996)

National Research Service Award for Post-doctoral Fellowship, National Institutes of Health (1988-1990)

Richard K. Smith Award and Seminar, Dana-Farber Cancer Institute (1986)

Pre-doctoral Trainee Award, National Institutes of Health (1980-1984)

Fundraising activities

Fundraising activities in 2003 were very successful thanks to NeuroScience Canada's strong base of supporters, its world-class Science Advisory Council and its signature Brain Repair Program. Since the campaign was launched in 2001 we have raised \$6,153,643 (June 2004) toward the \$10-million campaign goal and an additional \$1,335,000 was raised to support operations. The campaign total includes a \$1.5-million grant from the CIHR and a \$1.5-million challenge gift from an Anonymous Donor.

It remains a priority at NeuroScience Canada to not overlap with the fundraising campaigns of voluntary health organizations that focus on specific brain- and nervous system-related diseases, disorders and injuries. Instead, our efforts are directed at expanding the pool of funds available for research that cuts across diseases, disorders and injuries, disciplines and institutions.

The Brain Repair Program in particular has allowed us to collaborate rather than compete with these organizations. Furthermore, because our cross-cutting, multidisciplinary research will potentially be applicable to a broad range of diseases and disorders, our successes will enhance their own research activities.

Finally, keeping our ratio of administration and program expenses to program disbursements as low as possible is an ongoing priority. We have set a maximum of 15% of our donations directed to administration/overhead and program-related expenses. A portion of these expenses has been offset by a few generous donors who have provided operational funds, and by a grant from Canada Economic Development for Quebec Regions.

NeuroScience Canada wishes to thank the following donors who have generously contributed to our National Brain Repair Fund and Alberta Initiative campaigns:

Achber, Vernon	Canadian Insurance	The Norman and	The J.W. McConnell	Stein, Richard
Aguayo, Albert, J.	Accountants Association	Margaret Jewison	Family Foundation	Stewart, John M.
Alpacan Ventures	Canadian Pensions	Charitable Foundation	Melcor Developments Ltd.	Stripp, Bitten
AstraZeneca	and Benefits Institute,	Johnston, David	Merck Frosst	Tavender, Carolyn
R&D Montreal	Ontario Regional Council	Kaplan, Charles	Canada & Company	and David
ATCO Ltd.	Castellucci, Vincent	The Henry and Berenice	Mississauga South	Taylor, Allan R.
Barrington Petroleum Ltd.	Colangelo, Lina	Kaufmann Foundation	Federal Progressive	The Allan and Shirley
Beddis, Ian	Corbertex Corporation	Laliberté, June	Conservative Association	Taylor Foundation
Max Bell Foundation	Crown Life	Laliberté, Natasha	Muller, Linda	TelCare
Bhayana Management	Insurance Company	David and Dorothy Lam	Munroe-Blum, Heather	Theanon Charitable
Blundell, William	Cumming, Tom and Mary	Foundation	Newall, J.E. (Ted)	Foundation
Boardwalk Charitable	Dion, Durrell &	Lawson, Brian D.	Peters, Robert G.	Toronto Dominion Centre/
Trust Fund	Associates Inc. in memory	and Joanna	Phillips, Anthony G.	The Cadillac Fairview
Boeckh Capital	of Vincenzo Maiorano	William F. Lede	Power Corporation	Corporation Limited
Company Ltd.	Mitzi & Mel Dobrin	Family Foundation	of Canada	Torstar Corporation
The Graham Boeckh	Family Foundation	Libin, Alvin and Mona	The Real Canadian	TransCanada
Foundation	The John Dobson	Lind, Philip	Superstore	Pipelines Ltd.
Bois, Pierre	Foundation	Lippman Leebosh April	Robb, Christopher J.	Trimac Corporation
Borden Ladner Gervais	Dorrington, Keith	London Drugs Foundation	Rothney, Bruce M.	The Barbara Turnbull
The R.P. Bratty	Fraser, Anne	Louie, Brandt C.	Royal Bank Financial	Foundation for Spinal
Charitable Foundation	Guest, Gowan	The Tong and Geraldine	Group Foundation	Cord Research
The Marjorie and Gerald	Govain, Royal A.	Louie Family Foundation	Rygiel, Edward K.	William and Nancy Turner
Bronfman Foundation	Haskayne, Richard F.	Love, G. Donald	Saskatchewan Wheat Pool	Foundation
Bull, Warren C.	Hotchkiss, Harley N.	Mackie, James	SaskTel	UBS Bank (Canada)
The Calgary Foundation /	Hyndman, Lou D.	Manitoba Medical	Savard, Guy	UBS Securities Canada Inc.
David and Leslie Bissett	Imasco/ Pharmaprix	Students Association	The Seagram	Viner, Paula
Fund	Jabalpurwala, Inez	Mannix, Ronald N.	Company Ltd.	The W. Garfield Weston
Canada Life	Jabalpurwala, Kaizer E.	Manulife Financial	SGI	Foundation
Canadian Council		McCaig, Ann	St. Joseph's Healthcare	Wilson, Michael H.
of Christians and Jews			Foundation	Wynne-Edwards, Hugh

NeuroScience Canada extends a special thanks to the following:

An **Anonymous Donor**, whose \$1.5-million challenge gift provided the impetus to launch the National Brain Repair Fund Campaign and Albert Initiative.

The Canadian Institutes of Health Research, and especially the Institute of Neurosciences, Mental Health and Addiction and the Institute of Aging, for providing a \$1.5-million grant to launch the Brain Repair Program, and for their valued partnership.

NeuroScience Canada wishes to thank the following funders and partners for providing in-kind and other invaluable support:

Canada Economic Development for Quebec Regions, for providing funds to support our infrastructure, enabling us to allocate the maximum dollars to our programs.

The McGill University Health Centre Foundation and especially its President and CEO, Mr. Donat J. Taddeo, for generously renting and sharing their office space.

Neuro Discovery Inc. for its valued partnership.

Volunteer leadership for the National Brain Repair Fund Campaign

We are very pleased that in 2003 we were able to recruit the following campaign volunteers in Ontario: Mr. J. Douglas Grant, a Founding Partner and former Chairman, Managing Director and Director, Sceptre Investment Counsel Limited; Mr. Stanley H. Hartt, Chairman, Citigroup Global Markets Canada Inc.; Mr. Brian D. Lawson, Executive Vice-President and CFO, Brascan Corporation; Mr. Bruce Rothney, Deputy Chairman, RBC Capital Markets, RBC Dominion Securities Inc.; and Mr. John M. Stewart, Partner, Toronto Office, Blake, Cassels & Graydon LLP.

These volunteers, along with members of our Board, are working diligently to secure donations from individuals, corporations and foundations. Thanks to the energy and commitment of everyone involved, our fundraising campaign has excellent momentum and we anticipate more intense activity in the year ahead as we work to bring in funding for additional Brain Repair Program teams.

NeuroScience Canada wishes to thank the following campaign leaders and volunteers from across Canada. Their commitment and energy are a constant source of inspiration:

National Brain Repair Fund Campaign

The Honourable Michael H. Wilson, National Chair (Toronto)
J. Anthony Boeckh (Montréal)
Alan S. Dunnett (Winnipeg)
George F. Gaffney (West Vancouver)
J. Douglas Grant (Toronto)
Stanley H. Hartt (Toronto)
Paul J. Hill (Regina)

Charles Kaplan (Montréal)
Brian D. Lawson (Toronto)
Brandt C. Louie (Vancouver)
J. Robert S. Prichard (Toronto)
Bruce M. Rothney (Toronto)
John M. Stewart (Toronto)
Allan R. Taylor (Toronto)

Alberta Initiative Volunteer Steering Group

Anne Fraser, Chair (Calgary)
Mary Cumming (Calgary)
William D. Hawley (Calgary)
Lou D. Hyndman (Edmonton)
Barbara J. Sparrow (Calgary)
Carolyn Tavender (Calgary)

2003 Partnership and Foundation Financial Report at a glance

NeuroScience Canada Combined Statement of Financial Position

At December 31	2003 \$	2002 \$
Assets		
CURRENT ASSETS		
Cash and term deposits	1 817 883	856 629
Sundry receivables	12 057	17 331
Federal grants receivable	27 033	54 125
Deposits	37 954	101 279
	<hr/>	<hr/>
	1 894 927	1 029 364
Investment in private companies	751	751
	<hr/>	<hr/>
	1 895 678	1 030 115
Liabilities		
CURRENT LIABILITIES		
Accounts payable and accrued liabilities	17 276	19 867
Current portion of program commitments	1 243 390	629 982
	<hr/>	<hr/>
	1 260 666	649 849
Program commitments Long-term - with funds allocated	177 000	14 518
	<hr/>	<hr/>
	1 437 666	664 367
NET ASSETS		
Unrestricted net assets	458 012	365 748
	<hr/>	<hr/>
	1 895 678	1 030 115

NeuroScience Canada Combined Statement of Operations

At December 31	2003 \$	2002 \$
Revenues		
Restricted contributions Canadian Institutes of Health Research (CIHR)	624 775	174 001
	750 000	–
	<hr/>	<hr/>
	1 374 775	174 001
Less: deferred amount	(775 890)	(27 641)
	<hr/>	<hr/>
	598 885	146 360
Government grants	56 004	68 690
Interest and other income	20 193	16 051
	<hr/>	<hr/>
	675 082	231 101
Expenditures		
Grants and awards	207 875	–
Operating expenses	374 942	448 888
	<hr/>	<hr/>
	582 817	448 888
Excess of revenues over expenditures for the year	92 265	(217 787)

Statements prepared by
Lippman Leebosh April, Chartered Accountants.

Audited financial statements are available upon request.

Ethical Fund Raising and Financial Accountability Code

NeuroScience Canada has adopted the Canadian Centre for Philanthropy's Ethical Fund Raising and Financial Accountability Code as its policy.