

Institute of Genetics

ANNUAL REPORT
APRIL 1, 2003 - MARCH 31, 2004



CIHR IRSC
Canadian Institutes of Health Research Instituts de recherche en santé du Canada

Institute of Genetics
Canadian Institutes of Health Research
123 Edward Street, Suite 1211
Toronto, ON M5G 1E2
www.cihr-irsc.gc.ca

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Message from the Scientific Director

As Scientific Director of the Institute of Genetics, my greatest satisfaction continues to be in working with the incredible community of researchers that is aligned with the Institute, with the communities of other CIHR Institutes, and with the other colleagues and organizations that make up the complex but rich mosaic of Canadian health research.


I am particularly grateful to the more than 100 members of the 12 Priority and Planning (P&P) Committees and the Voluntary Health Organizations (VHO) Working Group that advise the Institute Advisory Board about their domains of research. The P&P Committee structure that the IG has put in place has distributed the leadership of the Institute across the country and among a great diversity of research communities, leading to a “bottom-up” approach to setting our research priorities for strategic funding. The Chairs and members of the P&P Committees are now being recognized as important leaders of their Canadian research communities by their peers, a recognition that is very rewarding, both personally and professionally. This structure has allowed the Institute Advisory Board to advise and decide rather than do all the work.

The support for research from the IG in 2003-2004 includes a Regular Funding Program that addresses ongoing needs of the research community. We are particularly proud of the Requests for Applications (RFAs) that comprise this program, which fill unique gaps in the Canadian funding landscape, and which have been well received by the research community.

The Program includes:

- Career Transition Awards (pg. 11)
- Clinical Investigatorship Awards (pg. 9)
- Drs. Walter and Jessie Boyd & Charles Scriver MD/PhD Studentship Awards (pg. 9)
- Invention and Technology Application Grants: Tools, Techniques and Devices for Research and Medicine (pg. 7)
- New Discoveries: High-Risk Seed Grants (pg. 7)
- Short-Term Research Visits Grants (pg. 11)
- One-year Bridging Operating Grants (pg. 8)
- Workshop Support Grants (pg. 8)

The Institute also posted five other RFAs that addressed specific needs identified by the research community. Particularly notable was the launching of the “Addressing Health Care and Health Policy Challenges of New Genetic Opportunities” RFA (pg. 7). This RFA posting was the culmination of three years of planning and meetings that brought together, for the first time, clinical genetics researchers and investigators from the health services community, to address the research needs of the exploding field of Health Services for Genetic Diseases, one of the six Research Priority Themes of the IG. This important RFA is a first step in creating a Canadian research community in this area, and was developed in consultation with researchers, provincial Ministries of Health and representatives of Federal Territories, as well as Health Canada.



The IG also co-led, with the Institute of Neurosciences, Mental Health and Addiction (INMHA), the Regenerative Medicine and Nanomedicine: Innovative Approaches to Health Research initiative (pg. 9). This initiative is particularly timely for Canada, given our emerging strengths in nanomedicine and our expanding excellence in stem cell research. In its continuing support of individual investigators, the IG supported three very successful national research meetings and two consultations that have had significant impact on their respective areas of research:

- The Second Biennial Canadian Developmental Biology Meeting (pg. 10)
- The Second Annual New Principal Investigators Meeting, hosted with INMHA (pg. 10)
- A national workshop on “Integrating the Physical and Applied Sciences into Health Research”, in partnership with INMHA, Institute of Cancer Research (ICR) and Institute of Infection and Immunity (III) (pg. 10)
- Health Services for Genetic Diseases Workshop, in partnership with the Institute of Health Services and Policy Research (IHSPR) (pg. 10)
- From Genes to Genomic Medicine Consultation (pg. 10)

Finally, we are proud to have co-sponsored two important outreach programs, the “Be a Gene Researcher for a Week—the Ramon Hnatyshyn in Science Initiative” Program (pg. 13), with the Canadian Genetics Diseases Network and Canadian Gene Cure Foundation, and the “The Gee! In Genome” Exhibit that is being presented across Canada by the Canadian Museum of Nature.

I remain grateful for the enthusiastic support and wisdom of the Institute Advisory Board. In particular, I owe a great deal to the excellent counsel of Dr. Joel Weiner (Chair) of the University of Alberta, and Dr. François Rousseau (Vice-Chair) of the Université Laval.

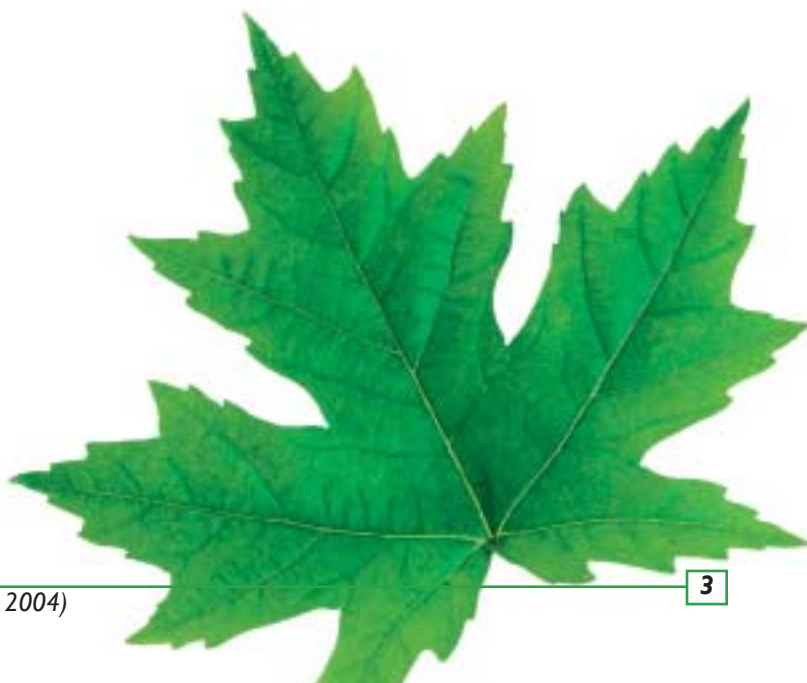
Finally, I continue to be blessed with outstanding staff who manage the various programs of the Institute and who interact on a daily basis with the research community, CIHR in Ottawa, the other Institutes and funding organizations in the country.

Whatever success we have experienced is founded very substantially on their remarkable and effective organizational, leadership and diplomatic skills and their good judgment. These staff members are the Assistant Directors Milka Popov and Stephanie Robertson, my Executive Assistant and Project Manager, Jennifer Jennings, IG Administrative Assistant, Esther Berzunza and Project Officer, Amanda Devost. In addition, I am most grateful for the contributions of Nicola McDermott, who replaced Dr. Popov as Assistant Director in Toronto for most of the past year. The energy and enthusiasm of these staff members, and their tolerance of the foibles of the SD, are apparently endless. They make my job a pleasure.

Sincerely,



Roderick R McInnes, MD, PhD, FRS(C)
Scientific Director
CIHR–Institute of Genetics





Profile of the Institute

Our Institute Advisory Board (IAB) consists of 16 individuals with exceptional qualifications and demonstrated leadership, from Canada and abroad, under the guidance of the Chair, Dr. Joel Weiner, and the Vice-Chair, Dr. François Rousseau (Appendix 1). The IAB provides essential expertise and advice regarding determination of the IG's strategic goals, implementation of initiatives, and communication with stakeholders and the broader community.

Our strategic goals will guide the IG's activities to:

- Support the work of investigator-initiated research and strengthen the IG community
- Advance research and build capacity in six areas of strategic priority:
 - Integrating the Physical and Applied Sciences into Health Research
 - Proteomics and Bioinformatics
 - Population Genetics, Genetic Epidemiology, and Complex Diseases
 - From Genes to Genomic Medicine (including Clinical Genetics Research)
 - Health Services for Genetic Diseases
 - Genetics and Ethical, Legal and Social Issues (GELS)
- Establish strategic partnerships
- Facilitate the knowledge transfer of genetic discoveries, including their ethical, legal and social implications

Our mandate is to support research on the human and other genomes and on all aspects of genetics, basic biochemistry and basic cell biology related to health and disease, including the translation of knowledge into health policy and practice and the societal implications of genetic discoveries.

Established in December 2000, the Institute of Genetics (IG) is one of 13 virtual Institutes of the Canadian Institutes of Health Research (CIHR). The IG is based at The Hospital for Sick Children in Toronto, the home institution of the Scientific Director, Dr. Roderick R. McInnes.

The IG has carried out a range of activities to define its strategic directions. The most important task throughout has been to consult researchers, academics, clinicians, policy makers, voluntary health organizations, government, companies and other stakeholders with an interest in the mandate of the IG. The IG has been well received as a "bottom-up organization" by responding to the needs of individual investigators and ensuring that its strategic goals and research priorities are defined by the research community and other stakeholders.

A pivotal consultation forum was the Strategic Planning Retreat held in September 2002 (Aylmer, Quebec) where approximately 60 leading researchers, academics, government and scientific policy makers in the genetics, basic biochemistry and basic cell biology research communities were invited to consider the proposed strategic directions and priority research themes presented in the draft strategic plan. These consultative activities led to the refinement of the IG's research priority themes and strategic goals. The IG continues to consult with researchers and stakeholders, adjusting its strategic directions in response to changing research needs.

Our priority and planning (P&P) committees are led, or co-led, by a distinguished Canadian researcher(s) with expertise and a strong commitment to advancing research in their specific area. It is the responsibility of each P&P Committee to:

- Foster the development of that research community;
- Provide a forum for the identification of critical issues and opportunities;
- Facilitate ongoing input from and dialogue with the research community; and
- Lead IG strategic funding initiatives in the area.

Additional P&P Committees and a Voluntary Health Organization (VHO) Working Group enable development in other crucial areas, such as international collaborations in human genetics, new principal investigators and public engagement and knowledge exchange.



Figure 1 - Priority and Planning Committees and Working Group of the IG

The leadership of the Institute of Genetics is widely distributed across Canada. The location of the chairs of each P&P Committee or Working Group is indicated. The blue circles indicate P&P Committees that support the IG Research Priority Themes. The white circles indicate P&P Committees that support the IG Enabling Strategies.

Our funding mechanisms include Regular Programs and Strategic Request for Applications (RFAs).

Our Regular Programs (continuous launch cycle) are a constant feature in the IG research funding landscape. Subject to an annual review by the Institute Advisory Board, these programs are designed to facilitate training and/or research within the IG's mandate:

- Career Transition Awards
- Clinical Investigatorship Awards
- Drs. Walter and Jessie Boyd & Charles Scriver MD/PhD Studentship Awards
- Invention and Technology Application Grants: Tools, Techniques and Devices for Research and Medicine
- New Discoveries: High-Risk Seed Grants
- One-Year Bridging Operating Grants
- Short-Term Research Visit Grants
- Workshop Support Grants

Our Strategic Request for Applications (RFAs) align with our research priority themes. Examples of strategic RFAs launched during the reporting period include:

- Addressing Health Care and Health Policy Challenges of New Genetic Opportunities Operating Grants
- Regenerative Medicine and Nanomedicine Initiative: NETs and Interdisciplinary Capacity Enhancement (ICE) Research Teams
- Facing our Future: Human Genetics, Ethics, Law and Society Development Grants



Outstanding Research

Fostering Research

During this reporting period, the IG launched and/or funded six RFAs that aligned with three of the six IG research priority themes (Appendix 3).

Population Genetics, Genetic Epidemiology, and Complex Diseases

Novel Population Genetics and Genetic Epidemiological Methods for Studies of Complex Genetic Diseases Grants. The IG launched this RFA - in partnership with the Institute of Population and Public Health (IPPH) - to foster research and build capacity in the rapidly developing areas of population genetics and genetic epidemiology of complex diseases. This program will enable individuals or teams to develop the new theories, strategies and methodologies required to facilitate more conclusive, high-quality etiological studies of complex diseases, including genetic and environmental determinants over the life course. Of the 12 applications received to the December 2002 competition deadline, four were approved for funding.

Population Genetics and Genetic Epidemiology of Complex Diseases Operating Grants.

Complex diseases are multifactorial in nature and result from the combined effects of variation at multiple genetic loci and environmental influences manifested over the life course. The elucidation of interactions between an individual's genetic endowment and the complex sequence of environmental exposures - physical, chemical, biological, developmental and social - that occur over the life-course are expected to provide the greatest insight into our understanding of the etiology of human disease. In December 2003, the IG and IPPH issued a Research Priority Announcement (RPA) to provide support for investigators in this developing area of research, through jointly funded operating grants. The RPA process enables Institutes to fund highly rated applications responsive to their priorities submitted to the CIHR open competitions. Results of this competition will be available in the summer of 2004.

Our Values:

- Research excellence
- Investigator-initiated and innovative research
- Partnership and collaboration
- Grassroots involvement and inclusiveness
- Public engagement and responsiveness to diverse communities
- Recognition and leveraging of Canadian research strengths



Health Services for Genetic Diseases

Staying Ahead of the Wave: Genetics, Health Services and Health Policy Development Grants.

In partnership with the Institute of Health Services and Policy Research (IHSPR), this program provides development funds in support of projects that are likely to lead to the development of proposals or programs of inquiry to “ensure that the inevitable growth in genetic health services is in accordance with scientific evidence and in a way that enables us reap its full benefit” (Health Services and Research Commission-HSURC, 2001). Of the 10 applications submitted to the January 2003 competition deadline, three were approved for funding.

Addressing Health Care and Health Policy Challenges of New Genetic Opportunities

Operating Grants. The purpose of this program is to provide operating grant funds in support of research projects, the results of which will better equip health care providers, administrators and policy makers to improve the health of populations and strengthen the health care system in Canada in the face of the rapid growth in new technologies and understandings associated with the “genetics era”. In partnership with the IHSPR, IPPH, Canadian Coordinating Office for Health Technology Assessment (CCOHTA) and the Heart and Stroke Foundation of Canada (HSFC), \$1.65 million per annum for a term of three years has been secured for this initiative. Results of this competition will be available in the fall of 2004.

Genetics and Ethical, Legal and Social Issues

Facing our Future: Human Genetics, Ethics, Law and Society Development Grants.

This RFA was launched in partnership with the Institute of Aboriginal Peoples Health (IAPH), Institute of Aging (IA), Institute of Human Development, Child and Youth Health (IHDCYH), IPPH and the CIHR Ethics Office. The objective of this program is: i) to address ethical, legal and social issues relevant to the design and conduct of population-based genetic epidemiological research, including implications for future studies in Canada, ii) while building research capacity in this field by providing an opportunity for new investigators to develop and demonstrate their independence in initiating and conducting health research. Results of this competition will be available in the fall of 2004.

Compelling Values: Privacy, Access to Data and Health Research Grants.

Launched by CIHR's 13 Institutes and the CIHR Ethics Office, this program was designed to provide operating grant funds in support of initiatives that address issues related to the collection, use and disclosure of personal information for health research purposes. Eight applications were submitted to the October 2003 competition deadline. The IG is supporting two of the four applications approved for funding.

Encouraging Innovation

The IG re-launched two unique programs that focus on invention and high-risk/high-benefit projects in partnership with the Institute of Neurosciences, Mental Health and Addiction (Appendix 3).

Invention and Technology Application Grants: Tools, Techniques and Devices for Research and Medicine.

An array of tools, techniques and methodologies currently employed in biomedical research are an integral part of hypothesis-driven projects. The invention and development of new research tools or techniques, or the improvement and application of existing ones, is often crucial and tightly linked to scientific discovery. This program is designed to promote the engagement of Canadian scientists in research projects to advance research tools and techniques in a broad sense, where invention, application and development, rather than discovery, is expected to be the essence of those projects. Results of the February 2004 competition will be available in the summer of 2004.

New Discoveries: High-Risk Seed Grants.

The purpose of this program is to encourage novel, innovative, and inventive research. Successful applications will be unique, original, and/or extraordinary but of excellent quality and potential. The proposals are expected to i) be clearly novel and exciting to peer reviewers despite their inherent risk; and ii) demonstrate the potential for significant impact. Results of the February 2004 competition will be available in the summer of 2004.



Outstanding Researchers in Innovative Environments

Research Capacity Building

Building researcher capacity in targeted areas of importance is a key goal for the Institute. In support of this goal, the IG launched and/or funded seven RFAs during this reporting period aligned with four research priority themes (Appendix 3).

Population Genetics, Genetic Epidemiology, and Complex Diseases

Population Genetics and Genetic Epidemiology of Complex Diseases Doctoral Research Awards and Fellowships. As part of a research capacity building effort, the IG and IPPH issued an RPA to fund Doctoral Research Awards and Fellowships from the fall 2003 CIHR competitions. The Research Priority Announcement (RPA) process enables Institutes to fund highly rated applications responsive to their priorities submitted to the CIHR open competitions. Results of these competitions will be available in spring 2004. This RPA was subsequently re-launched in December 2003 to fund Fellowships - in this area of investigation - submitted to the spring of 2004 CIHR competition.

Integrating the Physical & Applied Sciences into Health Research

“Integration of Mathematics, Statistics and Biophysics into Health Research” and “Integration of Fundamental Bioengineering into Biomedical Research” New Emerging Team (NET) Grant. This novel CIHR grants program has garnered much praise and enthusiasm from the research community. This program was developed: to build capacity in new and developing areas of research; to build new research teams; and to give researchers a building block for applying for research funding in future years. The IG joined the summer 2002 launch of the NET program and is supporting one team in each of the following research foci: *Integration of Mathematics, Statistics and Biophysics into Biomedical Research and Integration of Fundamental Bioengineering into Biomedical Research.*

One-year Bridging Operating Grants

The IG provided one-year bridging operating grants to excellent operating grants that were not funded through the CIHR open competition through the Research Priority Announcement (RPA) process from the March 2003 and September 2003 competitions (Appendix 3).

Workshop Support

During this reporting period, the IG committed approximately \$140,000 towards funding 21 workshops and symposia (Appendix 4).

In response to the research community, the IG has undertaken a range of activities to build research capacity and strengthen existing research communities in vibrant, innovative and stable research environments.

Regenerative Medicine and Nanomedicine Initiative: NETs and Interdisciplinary Capacity Enhancement (ICE) Research Team Grants. In partnership with the Institute of Neurosciences, Mental Health and Addiction (INMHA), the IG is co-leading the CIHR Regenerative Medicine and Nanomedicine Initiative, with a specific interest in nanomedicine relevant to the basic understanding, diagnosis and treatment of disease. Results of the February 2004 full application deadline will be announced in October 2004. Planning is underway for a June 2004 RFA re-launch.

Proteomics and Bioinformatics

Training Program Grant in Bioinformatics. This program was developed by CIHR for the purpose of building capacity within Canada's health research community through the training and development of researchers, and fostering the development and ongoing support of the research careers of women and men in health research.

In May 2002, 51 new training programs were funded for a total investment of \$85 million over six years. Of these, 15 training program grants were co-funded by the IG and partners (Appendix 3). These programs deliver unique training, creative curriculum, and often involve faculty from diverse disciplines and background.

The IG joined the summer 2002 launch of the CIHR Strategic Training Program Grants in Health Research Initiative. From this competition, the IG is supporting one training program grant in bioinformatics.

From Genes to Genomic Medicine (including Clinical Genetics Research)

Clinical Investigatorship Awards. This program is aimed at enabling clinical geneticists to become successful clinical genetics investigators by providing two years of protected research time. The next competition deadline for this program is June 2004.

Drs. Walter and Jessie Boyd & Charles Scriver MD/PhD Studentships. This program, offered in partnership by the IG, the Canadian Gene Cure Foundation (CGCF) and the Canadian Genetic Diseases Network (CGDN), provides support for students enrolled in MD/PhD programs with a research focus in one of the following areas: genetics and genetic-related diseases (including medical genetics, bioinformatics, and bioethics of medical genetics); population genetics; translational genetics; and fundamental biochemical research in healthy and disease states.

The IG and its partners have committed \$1.23 million over six years to ten MD/PhD Studentship Awards (as of fiscal year 2002-03). Currently, eight MD/PhD students are being supported by this program. The IG, CGCF and CGDN relaunched this program in December 2003 to allocated the remaining studentship awards.

Clinical Genetics Research Strategic Training Initiative in Health Research - Training Program Grants. The purpose of this initiative is to increase the number of clinical genetics investigators in Canada, by providing specialized clinical genetics research training opportunities. Results of the November 2003 competition will be available in the fall of 2004.

Assessment and Surveillance of Existing and Required Capacity

During the reporting period, the IG was involved in the hosting and sponsoring of four nation-wide stakeholder consultations and workshops in areas of strategic research priority:

- *Integrating the Physical & Applied Sciences into Health Research Workshop* (in partnership with INMHA, ICR and III) was held on September 19-21, 2003 in Vancouver to establish a plan of action for improving the health of Canadians by accelerating the translation of research breakthroughs in the physical and applied sciences into health research and clinical practice.
- *Health Services for Genetic Diseases Workshop* (in partnership with the IHSPR) was held on October 2-3, 2003 in Ottawa to define the objectives of the December 2003 RFA in consultation with the research community, ministries of health and partners.
- *From Genes to Genomic Medicine (including Clinical Genetics Research) Consultation* was held March 27-28, 2004 in Toronto to develop an RFA scheduled to be launched in December 2004.
- *Genomics, Genetics and Society: Bridging the Disciplinary Divides Workshop* (organized during the reporting period and will take place on April 15-17, 2004 in Toronto) is designed to foster an exchange of knowledge among basic scientists, clinicians, social scientists and bioethicists whose research is involved with one or more aspects of genomics and genetics.

Facilitating the work of Principal Investigators

Events

The Annual New Principal Investigators Meeting, the Biennial Developmental Biology Symposium and International Conference of the Canadian Proteomics Initiative are events that the IG has committed to support and foster on a continuous basis:

Annual New Principal Investigators (PI)

Meeting. This annual event is organized by the IG, generally in partnership with another CIHR Institute, and is held in Jackson's Point, Ontario. The IG and INMHA sponsored and hosted the second annual meeting that took place November 14-16, 2003. The neuroscience-themed meeting was attended by over 100 outstanding researchers in their first four years of appointment in the fields of basic biochemistry, basic cell biology, genetics, developmental biology, bioinformatics and ethics. Planning is underway for the third, fall 2004 meeting, in partnership with the Institute of Cancer Research (ICR).

Biennial Developmental Biology Symposium.

During the reporting period planning was underway for this biennial event organized and sponsored by the IG. This symposium will include sessions focused on mechanisms of patterning, organogenesis, neuronal determination and synaptogenesis, stem cells and molecular mechanisms of human disease. It is anticipated that more than 250 researchers will attend the next meeting scheduled April 1-4, 2004, in Banff, Alberta.

International Conference of the Canadian

Proteomics Initiative (CPI). CPI is part of a cross-Canada effort to build on Canada's growing strengths in the field of proteomics and protein chemistry. The international conference provides a general forum for disseminating the latest developments in proteomics and protein chemistry to Canadian scientists. It is a multidisciplinary conference that brings together approximately 250 researchers with expertise in all areas of proteomics including functional proteomics, structural proteomics, protein display, protein expression, protein chemistry and protein interactions. The IG will be sponsoring and participating at the 4th International Conference scheduled for May 14-16, 2004, in Montreal, Quebec.

Career Development Grants and Awards

Recognizing that researchers are attracted to areas of investigation within the mandate of the IG from a variety of disciplines, the IG has developed two innovative funding programs - unavailable through the existing national programs - that were relaunched during this reporting period: Short-Term Research Visit Grants and Career Transition Awards.

Short-Term Research Visit Grants. This program is intended to enable developing or established researchers to spend up to three months in a specific location focusing on the acquisition of new concepts, knowledge or techniques to broaden their research perspectives and skills that align with the IG's mandate. Results of the February 2003 and June 2003 competition are available in Appendix 3.

Career Transition Awards. This program is designed to support the career transition of faculty members who are planning to undertake rigorous training in identified areas of needs outside their primary research training and expertise. Results of the February 2004 competition will be available in the spring of 2004. This program is scheduled for re-launch in June 2004.

Developing National Platforms

Canadian Multi-Generational Birth-Cohort. A central initiative for the IG has been fostering the development of the Canadian Multi-Generational Birth-Cohort with IPPH, IHDCYH and partners (a major longitudinal and intergenerational study), including the exploration of GELS issues in partnership with the CIHR Ethics Office. This initiative aligns with the IG Population Genetics and Genetic Epidemiology of Genetically Complex Diseases Research Priority Theme. Key activities during the reporting period include:

- “General Considerations for Planning the Canadian Lifelong Health Initiative” Background-Paper (Wigle: June 19, 2003)
- Legal and Ethical Issues facing the Canadian Lifelong Health Initiative Workshop (November 19-22, 2003, in Montreal, Quebec)

- “Legal Issues Facing the Canadian Lifelong Health Initiative” Background-Paper (Caulfield, Ries and Kosseim: November 2003)
- Appointment of a CLHI Ethics Policy Advisor: Mylène Deschênes (December 2003)
- “The Canadian Lifelong Health Initiative (CLHI): Rationale for a Multi-Generational Study Design” White-Paper (Gagnon, Rannala, Morgan and Bull: January 2004)
- “A Multi-Generational Canadian Birth Cohort: Vision, Rationale and Proposed Plan of Action” Background Paper on the overall design of the birth cohort in partnership with IPPH and IHDCYH (Frank: March 1, 2004)
- Multigenerational Canadian Birth Cohort Design Workshop (March 8-9, 2003, in Toronto, Ontario)

Canadian Molecular Cytogenetics Platform (CMCP). Over the past couple of years, the IG has facilitated and supported the efforts of a national consortium leading the development of a strategy for implementing the next generation of molecular cytogenetic research projects and enabling technologies in Canada. Led by Dr. Jan Friedman, this national consortium was able to secure \$4.5 million from the Canada Foundation for Innovation (CFI) in support of the CMCP in March 2004.



Translating Health Research into Action

In this context, four of the six IG research priority themes directly facilitate Knowledge Translation (KT) throughout the research process, promoting active exchange between the creators and users of knowledge to accelerate its capture into health benefits: Health Services for Genetic Diseases; From Genes to Genomic Medicine (including Clinical Genetics Research); Genetics and Ethical, Legal and Social Issues (GELS); and Integrating the Physical and Applied Sciences into Health Research.

Advancing Research in the Use of Health Knowledge

Strategies for Knowledge Translation. The IG participated in the 2002 and 2003 launching of the Strategies for Knowledge Translation RFA - led by the CIHR Knowledge Translation and Partnerships Portfolio - in support of genetic knowledge translation studies plus a specific call for proposals focused on the use of folic acid supplementation.

From the 2002 competition, the IG, IHSPR and the CIHR Knowledge Translation Portfolio have committed to fund two grants in support of genetic knowledge translation studies. In addition, the IG funded a knowledge translation research grant on the use of folic acid supplementation, in partnership with the Institute of Gender and Health and the CIHR Knowledge Translation Portfolio (Appendix 3). Results of the 2003 competition will be available at the end of 2004.

The Federal/Provincial/Territorial Task Force on Genomics and Health, the IHSPR and the IG collaborated to facilitate the linkages between policy makers and researchers who submitted applications to the Staying Ahead of the Wave: Genetics, Health Services and Health Policy RFA.

Knowledge Translation (KT)

*is the exchange, synthesis and ethically-sound application of knowledge—within a complex system of interactions among researchers and users—to accelerate the capture of benefits of research for Canadians through health, more effective services and products and a strengthened health care system.
(Definition adopted by CIHR)*

Effective Partnerships and Public Engagement

As evidenced throughout this report, the IG collaborated with other Institutes, Voluntary Health Organizations and government to build on the IG strengths and capitalize on Canada's health research investment.

Voluntary Health Organizations (VHO)

The IG VHO Working Group has been established to cultivate a full partnership between VHOs and the IG to influence an integrative health research institute and to promote public engagement among the stakeholders in the work of CIHR. The Working Group's efforts in 2003-04 included the consideration of hosting a Partners Symposium to explore facilitating funding the best research with a minimum overlap of effort, particularly in the review of applications.

International

The IG and CGDN International Collaborations in Human Genetics Priority & Planning (P&P) Committee's mandate is to identify areas of research that are synergistic between two countries and will lead to meaningful research collaborations. Examples of the committee's efforts in fiscal year 2003-04 include:

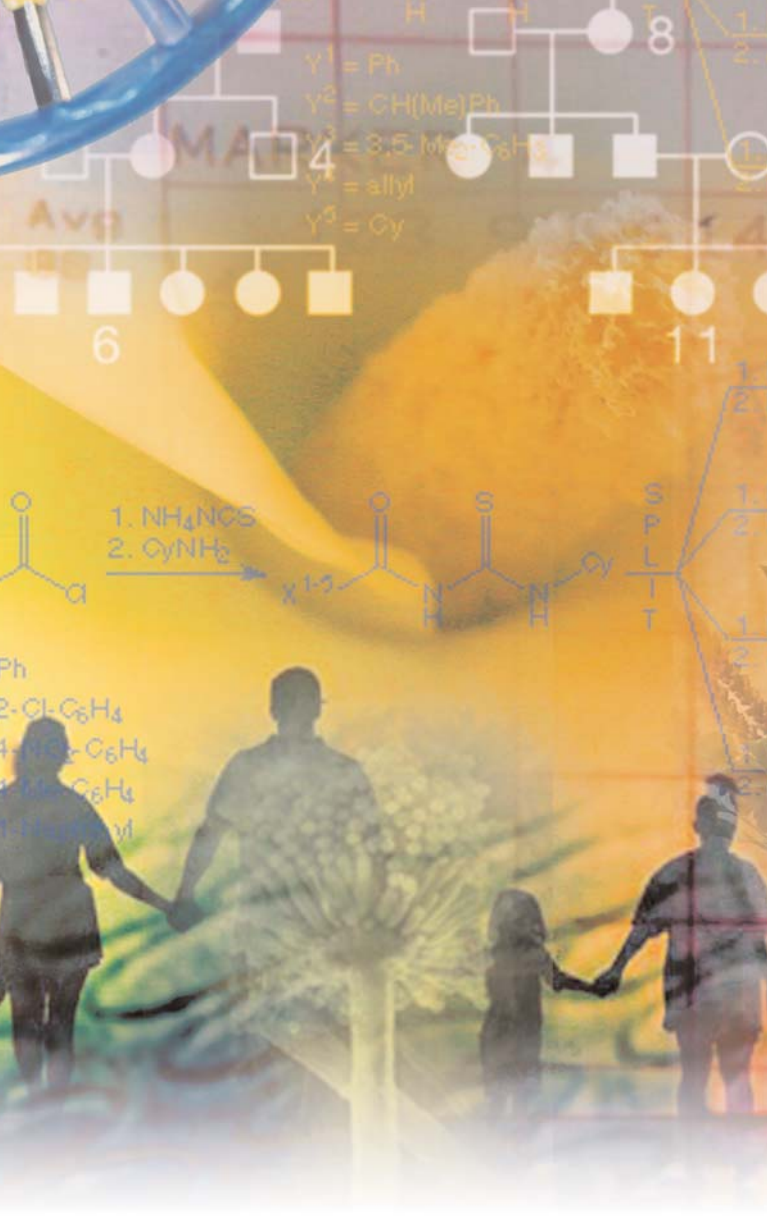
- Co-hosted and co-organized the "New Frontiers: Italian/Canadian Population Genomics and Bioinformatics Collaborations" Scientific Meeting in Laurino, Italy (October 24-28, 2003), in partnership with the Canadian Genetic Diseases Network, the Italian Embassy (in Ottawa) and Consiglio Nazionale delle Ricerche (CNR). Specific research outcomes are being documented, to validate the IG supporting this type of meeting.
- Sponsored the "Canada/Finland: The Role of Diagnostics in Different Disciplines" Workshop in Ottawa (January 28-29, 2004) hosted by the CIHR and organized in collaboration with Tekes and Finpro Canada.



Promoting Science to Canadian Youth

The "Be a Gene Researcher for a Week" Program. The IG co-sponsored the "Be A Gene Researcher for a Week-the Ramon Hnatyshyn Youth in Science Initiative" (in partnership with CGDN). This nation-wide training program in genetics provided 31 high school students the opportunity to spend their spring break in a CGDN/IG research environment. Planning is underway to relaunch this program for Spring Break 2005.

The Gee! In Genome. Opening in Ottawa (April 2003), this travelling museum exhibit is an innovative, multi-dimensional public education project developed by the Canadian Museum of Nature in partnership with Genome Canada and CIHR. In addition to participating on the concept design team, the IG has contributed to the planning of activities associated with this national touring exhibit.



Organizational Excellence

The accomplishments of the IG during this reporting period toward building a national health research agenda in genetics, basic biochemistry and basic cell biology are a direct reflection of the dedication, commitment and collaborative involvement of the Scientific Director, the Institute Advisory Board, the P&P Committees and VHO Working Group and IG staff.

Institute Advisory Board

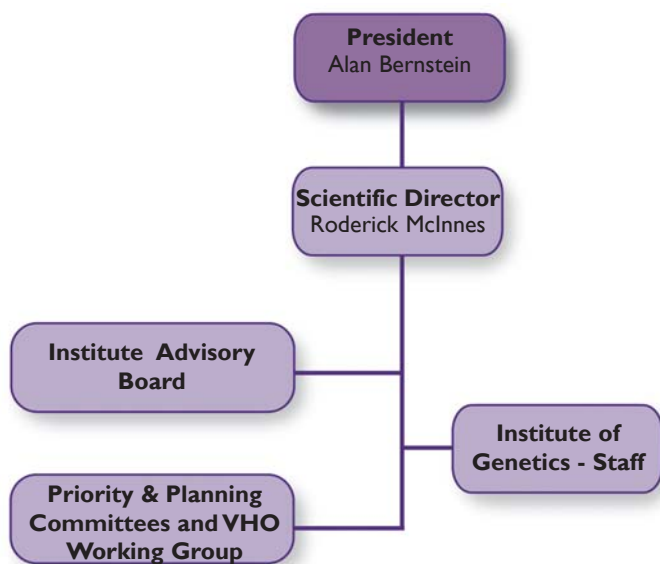
Institute Advisory Board members provide invaluable assistance and advice with the development and implementation of the IG's research priority-setting process. In addition to participating actively on P&P Committees, IAB members meet at least twice a year to discuss the activities of the IG's research priorities.

Priority & Planning (P&P) Committees and VHO Working Group

The 12 P&P Committees and VHO Working Group are integral to the IG's ability to carry out its mandate (Appendix 2). The P&P Committee for each research priority theme gathers input from that research community regarding research priorities. Additional P&P Committees and the VHO Working Group enable IG development in other critical areas, such as international collaborations in human genetics, public engagement, knowledge exchange and new principal investigators.

These P&P Committees and the VHO Working Group present recommendations to the IAB for discussion and funding consideration. Through this process, over 100 leading researchers and committed stakeholders regularly inform and advance the IG's genetic, basic biochemistry and basic cell biology health research agenda.

Figure 2.
Organizational Structure of the Institute of Genetics



Scientific Director and IG Staff

Operationally, the IG is supported by teams based at The Hospital for Sick Children in Toronto and the CIHR Secretariate in Ottawa.

TORONTO



Scientific Director

Roderick R. McInnes, MD, PhD
Tel: (416) 813-7400
Fax: (416) 813-7673
rodig@sickkids.ca



Assistant Director

Milka Popov, PhD
Tel: (416) 813-7670
Fax: (416) 813-7673
mpopov@sickkids.ca



Assistant Director

(Acting 09/03 - 08/04)
Nicola McDermott, MSc
Tel: (416) 813-7670
Fax: (416) 813-7673
nickyig@sickkids.ca



Executive Assistant and Project Manager

Jennifer Jennings, BA
Tel: (416) 813-7400
Fax: (416) 813-7673
jennig@sickkids.ca



Administrative Assistant

Esther Berzunza, BA
Tel: (416) 813-7671
Fax: (416) 813-7673
estherig@sickkids.ca

OTTAWA



Assistant Director, Ottawa

Stephanie Robertson, MA
Tel: (613) 954-0533
Fax: (613) 941-1800
srobertson@cihr-irsc.gc.ca



Institute Project Officer

Amanda Devost
Tel: (613) 941-0997
Fax: (613) 941-1800
adevost@cihr-irsc.gc.ca

STUDENTS - TORONTO



Clayton Cheng
Tel: (416) 813-7672
Fax: (416) 813-7673
adminig@sickkids.ca



Scott Tanaka
Tel: (416) 813-7672
Fax: (416) 813-7673
adminig@sickkids.ca

www.cihr-irsc.gc.ca

Mailing Addresses

CIHR Institute of Genetics
123 Edward Street, Suite 1211
Toronto, ON M5G 1E3

CIHR Corporate Headquarters
160 Elgin Street, 9th Floor, Address Locator 4809A
Ottawa, ON K1A 0W9



Financial Statement: Institute Support Grant

For the year ending March 31, 2004

AVAILABLE FUNDS

\$1,322,124.65

EXPENSES

Institute Development

Conferences, symposia and workshops	\$490,076.94
Institute Advisory Board Meetings	50,402.00
Professional Services	79,428.00
Other Costs	96,857.40
	\$716,765.13

Institute Operations

Salaries and benefits	\$464,750.43
Office accommodations	16,165.00
Telephone and communication services	9,192.49
Supplies, materials and other services	13,170.94
Computer equipment and IT support	11,364.38
Professional services	1,011.90
Travel expenditures	52,499.05
Other expenditures	7,433.64
	\$575,587.87

TOTAL EXPENSES

\$1,292,353.00

UNSPENT BALANCE *

\$29,722.00

* Note: The unspent balance as at March 31, 2004 is carried forward to the subsequent fiscal year

Financial Statement: Investments in Strategic Initiatives

Contributions through Grants and Awards

For the year ending March 31, 2004

STRATEGIC INITIATIVES	NUMBER	2003-04	2004-05	2005-06	2006 AND BEYOND	TOTAL
Career Transition Awards	5	185,000	-	-	-	185,000
Celera Genome Database Grants	5	84,120	-	-	-	84,120
Clinical Investigatorship Awards	2	240,000	120,000	-	-	360,000
Compelling Values: Privacy Access to Data and Health Research Grants	2	-	65,672	9,381	-	75,053
Facing our Future: Human genetics, Ethics, Law and Society Development Grants	6	124,715	-	-	-	124,715
Interdisciplinary Capacity Enhancement (ICE) Teams	2	194,618	199,753	199,947	349,718	944,036
Interdisciplinary Health Research Team (IHRT) Top-up Funding	3	154,087	-	-	-	154,087
Invention and technology Application Grants: Tools, techniques and Devices for Research and Medicine	4	331,045	331,045	303,459	-	965,549
Knowledge Translation Grants	3	70,740	63,926	8,334	-	143,000
NET: Gene-Environment and Obesity	1	25,000	25,000	25,000	50,000	125,000
NET: Genomics and Aging	1	25,000	25,000	25,000	50,000	125,000
NET: Integration of Fundamental Bioengineering into Health Research	1	300,000	300,000	300,000	600,000	1,500,000
NET: Integration of Mathematics, Statistics and Biophysics into Health Research	1	300,000	300,000	300,000	600,000	1,500,000
New Discoveries: High-Risk Seed Grants	4	207,376	204,147	-	-	411,523
Novel Population Genetics and Genetic Epidemiological Methods from Studies of Complex Genetic Diseases Grants	4	128,545	144,353	128,608	30,710	432,216
One-Year Bridging Fellowships	4	99,875	-	-	-	99,875
One-Year Bridging Operating Grants	23	1,241,351	1,090,536	-	-	2,331,887
Short-Term Research Visit Grants	21	96,312	-	-	-	96,312
Staying Ahead of the Wave: Genetics, Health Services and Health Policy Development Grants	3	112,089	-	-	-	112,089
Strategic Training Program Grants	16	1,286,290	1,448,170	1,448,170	3,042,757	7,225,387
Walter and Jessie Boyd & Charles Scriver MD/PhD Studentship Awards	8	70,333	82,000	73,417	171,000	396,750
Total	111	5,206,163	4,399,602	2,821,316	4,894,185	17,391,599

Note: Grants and awards in respect to these programs are approved for 1 to 6 years. Figures displayed represent CIHR financial commitments for these programs in 2003-04 and subsequent years. Availability of these funds in future years are subject to funding appropriations by Parliament. For some initiatives, partners also contributed to the funding of the grants and awards.

Appendix I

Institute of Genetics Advisory Board Membership



Joel Weiner, PhD (Chair)
University of Alberta



François Rousseau, MD (Vice-Chair)
Université Laval



Judith Allanson, MD
Children's Hospital of Eastern Ontario



Michel Bouvier, PhD
Université de Montréal



Jacques Drouin, DSc
Institut de recherches cliniques de Montréal



Béatrice Godard, PhD
Université de Montréal



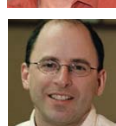
Jane Green, PhD
Memorial University of Newfoundland



Michael Hayden, MB, ChB, PhD
University of British Columbia



Philip Hieter, PhD
University of British Columbia



Tom Hudson, PhD
McGill University



Margaret Lock, PhD
McGill University



Daryl Pullman
Memorial University of Newfoundland



Janet Rossant, PhD
University of Toronto



Michael Snyder, PhD
Yale University



Andrew Storer, PhD
National Research Council of Canada



Caroline Weber
Health Canada

FORMER MEMBERS (Term end: August 2004)



James McGhee, PhD
University of Calgary



Robert Peterson, MD, PhD, MPH
Health Canada



Natalie Strynadka, PhD
University of British Columbia



Julien Veilleux, CPMQ, CRMCC
Ministère de la santé et des services sociaux

EX OFFICIO MEMBERS

Françoise Baylis, PhD
Dalhousie University

Philippe Gros, PhD
McGill University

Alexander MacKenzie, MD
Genome Canada

Joseph Rotman
CIHR Governing Council

Appendix 2

Institute of Genetics Priority and Planning Committees Membership

A. Committees Supporting the IG Research Priority Themes

Bioinformatics

Peter Lewis, University of Toronto (*Co-Chair*)
Francis Ouellette, University of British Columbia (*Co-Chair*)
Fiona Brinkman, Simon Fraser University
William Crosby, University of Saskatchewan
Steven Jones, British Columbia Cancer Agency
Paul Kearney, University of Waterloo
François Major, University of Montreal
Andrew Roger, Dalhousie University
Christoph Sensen, University of Calgary
Chris Upton, University of Victoria

From Genes to Genomic Medicine (including Clinical Genetics Research)

Jan Friedman, University of British Columbia (*Co-Chair*)
Peter St. George-Hyslop, University of Toronto (*Co-Chair*)
Jane Evans, University of Manitoba
Blair Leavitt, University of British Columbia
Alex MacKenzie, Children's Hospital of Eastern Ontario
Jacques Michaud, Hôpital Ste-Justine
David Rosenblatt, McGill University
Jacques Simard, Université Laval
Rosanna Weksberg, Hospital for Sick Children

Population Genetics, Genetic Epidemiology, and Complex Diseases

Shelley Bull, Samuel Lunenfeld Research Institute (*Co-Chair*)
Kenneth Morgan, Montreal General Hospital (*Co-Chair*)
Robert Brunham, University of British Columbia
Gail Eyssen, University of Toronto
France Gagnon, University of Ottawa
Jinko Graham, Simon Fraser University
Jane Green, Memorial University of Newfoundland
Celia Greenwood, Hospital for Sick Children
Robert Hegele, University of Western Ontario
Claude Laberge, Université Laval
John McLaughlin, Samuel Lunenfeld Research Institute
Bruce Rannala, University of Alberta

Genetics and Ethical, Legal and Social Issues

Tim Caulfield, University of Alberta (*Co-Chair*)
Margaret Lock, Université de McGill (*Co-Chair*)
Laura Arbour, University of British Columbia
Françoise Baylis, Dalhousie University (*ex officio*)
Abdallah Daar, University of Toronto
Jane Evans, University of Manitoba
Béatrice Godard, Université de Montréal
Patricia Kosseim, CIHR Ethics Office (*ex officio*)
Trudo Lemmens, University of Toronto
Daryl Pullman, Memorial University of Newfoundland

Health Services for Genetic Disease (with IHSPR)

Judith Allanson, Children's Hospital of Eastern Ontario (*Co-Chair*)
Eva Grunfeld, Ottawa Regional Cancer Centre (*Co-Chair*)
Denise Avard, Université de Montréal
Mario Cappelli, Children's Hospital of Eastern Ontario
June Carroll, Mount Sinai Hospital
Tim Caulfield, University of Alberta
Christine Kennedy, University of Calgary
François Rousseau, Université Laval
Brenda Wilson, University of Ottawa

Institute of Genetics Priority and Planning Committees Membership

A. Committees Supporting the IG Research Priority Themes (cont'd...)

Integrating the Physical and Applied Sciences into Health Research

Philip Hieter, University of British Columbia (*Co-Chair*)
Christopher Yip, University of Toronto (*Co-Chair*)
Brenda Andrews, University of Toronto
John-Bruce Green, University of Alberta
Charles Haynes, University of British Columbia
Yves de Koninck, Université Laval

Proteomics

Joel Weiner, University of Alberta (*Chair*)
Brenda Andrews, University of Toronto
John Bergeron, McGill University
Mirek Cygler, National Research Council Canada
Michel Desjardins, Université de Montréal
Peter Lewis, University of Toronto
Mike Moran, MDS Proteomics
Natalie Strynadka, University of British Columbia
Hans Vogel, University of Calgary
David Wishart, University of Alberta
Steve Withers, University of British Columbia

B. Committees Supporting the IG Enabling Strategies

Cell Biology (under development)

Richard Rachubinski, University of Alberta (*Chair*)

Developmental Genetics and Birth Defects

Jacques Drouin, Institut de recherches cliniques de Montréal (*Chair*)
Paul Lasko, McGill University
Howard Lipshitz, Hospital for Sick Children
James McGhee, University of Calgary
Jacques Michaud, Hôpital Ste. Justine
Janet Rossant, Samuel Lunenfeld Research Institute

International Collaborations in Human Genetics (with CGDN)

Stephen Scherer, Hospital for Sick Children (*Chair*)
Diane Cox, University of Alberta
Louise Desjardins, Canadian Genetic Diseases Network
Bartha Knoppers, Université de Montréal
Robert Korneluk, Children's Hospital of Eastern Ontario
François Rousseau, Université Laval

New Principal Investigators

Geoff Hicks, University of Manitoba (*Chair*)
Susan Andrew, University of Alberta
Benoit Bruneau, Hospital for Sick Children
Benedikt Fischer, University of Toronto
Nancy Hawkins, Simon Fraser University
Ridha Joober, Douglas Hospital Research Centre
Jason Robert, Dalhousie University
Jane Roskams, University of British Columbia

Public Engagement and Knowledge Exchange


François Rousseau, Université Laval (*Chair*)
Jane Green, Memorial University of Newfoundland
Michael Hayden, University of British Columbia

Voluntary Health Organizations Working Group

Teren Clarke, Muscular Dystrophy Association of Canada (*Chair*)
Nancy Amos, CIHR Partnerships Branch
Sharon Colle, Foundation Fighting Blindness–Canada
Judi Farrell, Lupus Canada
Isla Horvath, Huntington Society of Canada
Jason Robert, Dalhousie University
Alison Stephen, Heart and Stroke Foundation of Canada
Doretta Thompson, ALS Society of Canada

Appendix 3A

RFAs launched and/or under review during fiscal year 2003-2004



Program	Description	Competition Deadline	Funding Start Date
Outstanding Research			
Addressing Health Care and Health Policy Challenges of New Genetic Opportunities Grant (in partnership with IHSPR, IPPH, Canadian Coordinating Office for Health Technology Assessment, Heart and Stroke Foundation, Federal/Provincial/Territorial Task Group on Genomics and Health)	Providing operating grant funds in support of research projects, the results of which will better equip health care providers, administrators and policy makers to improve the health of populations and strengthen the health care system in Canada	June 2004	November 2004
Facing our Future: Human Genetics, Ethics, Law and Society Development Grant Second Competition (in partnership with IPPH, IA, IHDCYH)	Support critical analysis of current ethical, legal and social practices involving population-based genetic research as well as implications for future studies in Canada	May 2004	December 2005
Invention and Technology Application Grants—Tools, Techniques and Devices for research and Medicine (in partnership with INMHA)	Promote the engagement of Canadian scientists in research projects to advance research tools and techniques in a broad sense, where invention and development, rather than discovery, is expected to be the essence of those projects	February 2004	July 2004
New Discoveries: High-Risk Seed Grants (in partnership with INMHA)	Encourage novel, innovative and inventive research	February 2004	July 2004
Population Genetics and Genetic Epidemiology of Complex Diseases Operating Grants (in partnership with IPPH)	As part of the Canadian Lifelong Health Initiative, the IG developed this program to provide support to investigators in the area of complex genetic diseases	March 2004	October 2004
Outstanding Researchers in Innovative Environments			
Career Transition Awards	Support career transition of faculty members who are planning to undertake rigorous training outside of their primary area of expertise	February 2004	July 2004
Clinical Genetics Research Strategic Training Program Grants	Build the capacity of the Canadian health research community by training and supporting young talent	November 2003	October 2004

RFAs launched and/or under review during fiscal year 2003-2004 (cont'd...)

Outstanding Researchers in Innovative Environments (cont'd...)			
Clinical Investigatorship Awards	Provides two years of protected research time to pursue clinical or translational research	June 2004	October 2004
One-Year Bridging Operating Grants	These grants fund any application where the Institute of Genetics (IG) was indicated as the primary or secondary affiliated Institute and relates to the IG mandate. Grants are offered as one-time, non-renewable, one-year bridging grants	September 2003 March 2004	April 2004 October 2004
Population Genetics and Genetic Epidemiology of Complex Diseases Doctoral Research Awards and Fellowships (in partnership with IPPH)	As part of the Canadian Lifelong Health Initiative, the IG developed this program to provide support to investigators in the area of complex genetic diseases	Fall 2003 Spring 2004	April 2004 July 2004
Regenerative Medicine and Nanomedicine Initiative: NETs and Interdisciplinary Capacity Enhancement (ICE) Research Teams in the area of nanomedicine (in partnership with INMHA)	IG research focus—nanotechnology: Support for nanomedicine in this strategic initiative is directed in large part towards the development of technology relevant to basic understanding, diagnosis, or treatment of disease, emphasizing the integration and application of the physical, engineering, and chemical sciences with the biosciences	February 2004	October 2004
Regenerative Medicine and Nanomedicine: Innovative Approaches in Health Research—Team Grant Program and High-Risk Seed Grants	This strategic initiative announcement provides support for research in nanomedicine and technology development, gene therapy, stem cells, tissue engineering, and rehabilitation sciences	May 2005	October 2005
Short-Term Research Visit Grants	Facilitate cross-disciplinary training by giving health researchers financial support for short-term visits (three months or less) to research centers within Canada and abroad	October 2003 February 2004	January 2004 May 2004
Walter and Jessie Boyd & Charles Scriver MD/PhD Studentships (in partnership with the Canadian Gene Cure Foundation and the Canadian Genetic Diseases Network)	Provides support for MD/PhD students with a research focus in the areas of genetics	June 2004	September 2004

Appendix 3B

Competition Results: Request for Applications (RFAs)

NOTE. The financial amounts reflected in this appendix represent the (a) financial contribution and (b) term at the time that the grant/award was offered by the IG. For specific amounts paid out during the reporting period, please refer to the "Investments in Strategic Initiatives" table.

Fostering Research

Population Genetics, Genetic Epidemiology, and Complex Diseases

Novel Population Genetic and Genetic Epidemiological Methods for Studies of Complex Genetic Diseases in partnership with the Institute of Population and Public Health (IPPH)				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
This program was designed to support individuals or teams to develop new theories, strategies and methodologies needed to facilitate more conclusive, high-quality etiological studies of such diseases.	December 2002	12	4	33
Grantee(s): BRIOLLAIS, Laurent <i>Mount Sinai Hospital</i>	Statistical methods and study designs for penetrance estimation of genes involved in complex diseases			\$196,050 over three years
KOPCIUK, Karen <i>Alberta Cancer Board</i>				
BULL, Shelley <i>Samuel Lunenfeld Research Institute</i>	Statistical methods to improve the reliability of results from genome-wide studies of complex disease and quantitative traits			\$251,780 over three years
SUN, Lei <i>University of Toronto</i>				
GRAHAM, Jinko <i>Simon Fraser University</i>	Statistical methods for simultaneous estimation of haplotypes and haplotype and environmental risks in association studies of complex genetic diseases			\$174,000 over three years
MCNENEY, William Bradley <i>Simon Fraser University</i>				
GREENWOOD, Celia <i>Hospital for Sick Children</i>	Multi-level modeling in linkage and association analysis			\$242,600 over three years
BEYENE, Joseph <i>University of Toronto</i>				

Health Services for Genetic Diseases

Staying ahead of the Wave: Genetics, Health Services and Health Policy Development Grant in Partnership with the Institute of Health Services and Policy Research (IHSPR)				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
This program was designed to provide development funds in support of initiatives likely to lead to longer term research proposals or programs of inquiry to address the most important, emerging issues facing the Canadian health care system in response to new understandings about human genetics, and the burgeoning of genetic information, technologies, products and services.	January 2003	10	3	30
Grantee(s):				
AVARD, Denise <i>Université de Montréal</i>	Storage of dried blood spots: Genetic, health services and research policy implications			\$75,000 over one year
CAPPELLI, Mario <i>Children's Hospital of Eastern Ontario</i>	Psychosocial health service implications for genetic testing: A clinical and training needs assessment			\$74,245 over one year
ESPLEN, Mary <i>University of Toronto</i>				
MILLER, Fiona <i>McMaster University</i>	Evaluation and priority setting for genetic services: A case study			\$74,931 over one year
WEKSBERG, Rosanna <i>The Hospital for Sick Children</i>				

Genetics and Ethical, Legal and Social Issues

Compelling Values: Privacy, Access to Data and Health Research in partnership with CIHR's 13 Institutes and the CIHR Ethics Office				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
This program was designed to provide operating grant funds in support of initiatives that address issues related to collection, use and disclosure of personal information for health research purposes.	October 2003	8	4 (2 are supported by the IG)	50
Grantee(s):				
UPSHUR, Ross; <i>Sunnybrook and Women's College Health Sciences Centre</i>	The collection, use and disclosure of personal health information: The health care information directive applied to genetics			\$40,807 over two years
DAAR, Abdallah <i>University of Toronto</i>				
CAUFIELD, Timothy <i>University of Alberta</i>				
WILLISON, Donald <i>McMaster University</i>	Understanding Canadians' attitudes and expectations re: privacy, access to data, and health research—A comparison of survey and citizens' dialogue methods			\$199,226 over two year

Research Capacity Building

From Genes to Genomic Medicine (including Clinical Genetics Research)

Walter and Jessie Boyd & Charles Scriver MD/PhD Studentships in partnership with the Canadian Gene Cure Foundation and the Canadian Genetics Diseases Network				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
This award provides support for students enrolled in the MD/PhD training program whose research focus is in the areas of genetics and genetic-related diseases.	July 2003	2	2	100

Grantee(s):

HYDE, Angela <i>Memorial University of Newfoundland</i>	The molecular characterization of colorectal cancer in Newfoundland	\$123,000 over six years
WARD, Michael <i>University of Toronto</i>	Genetic and functional studies for primary pulmonary hypertension	\$123,000 over six years

Integrating the Physical and Applied Sciences into Health Research

Integration of Mathematics, Statistics and Biophysics into Health Research New Emerging Teams (NETs)				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
This initiative was designed to build capacity in this new and developing area of research and to build new research teams.	January 2003	2	1	50

Grantee(s):

ESCOBAR, Michael <i>University of Toronto</i>	Modern statistical approaches in high-throughput genomic research	\$1,500,000 over five years
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Integration of Fundamental Bioengineering into Health Research New Emerging Teams (NETS)				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
This initiative was designed to build capacity in this new and developing area of research and to build new research teams.	January 2003	1	1	100

Grantee(s):

PILARSKI, Linda <i>Cross Cancer Institute</i>	Novel platforms for genetic analysis	\$1,500,000 over five years
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Strategic Training Program Grants in Bioinformatics				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
The IG is using this program to build capacity within Canada's bioinformatics research community through the training and development of researchers, and fostering the development and ongoing support of the research careers of women and men in health research.	January 2003	2	1	50

Grantee(s):

BURGER, Gertraud
Université de Montréal

Bioinformatics training for biomedical research

\$1,800,000
 over six years

Facilitating the Work of Principal Investigators

Short-Term Research Visit Grants				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
These grants are intended to facilitate cross-disciplinary training by giving health researchers financial support for short-term visits (three months or less) to research centers within Canada and abroad	February 2003	27	17	63
	June 2003	5	3	60

Competition: February 2003

Grantee(s):

ANDERSEN, Marilyn <i>University of British Columbia</i>	Workshop that will provide training to aid in the creation of integrated databases			\$2,600 up to three months
BALABANIAN, Sylvia <i>University of Ottawa</i>	Canadian bioinformatics workshop			\$2,600 up to three months
BRAZAS, Michelle <i>University of British Columbia</i>	High-throughput analysis of the antibiotic resistance mechanisms in <i>Pseudomonas aeruginosa</i>			\$1,600 up to three months
BROWN, Carolyn <i>University of British Columbia</i>	XIST RNA localization and function in X chromosome inactivation			\$11,000 up to three months
BYERS, David <i>Dalhousie University</i>	Functional proteomics of natively-unfolded proteins: MARCKS and ACP			\$7,190 up to three months
DA SILVA, Melissa <i>University of Victoria</i>	Canadian bioinformatics workshop			\$4,429 up to three months
HOLMES, Christina <i>Dalhousie University</i>	Science, controversy, and genetically modified plants Participant observation of the creation of new genetic knowledge and edible vaccines			\$5,375 up to three months
HOWARD, Heidi <i>Montreal General Hospital</i>	Canadian bioinformatics workshop			\$2,600 up to three months

Competition: February 2003 (cont'd...)		
MAYNES, Jason <i>University of Alberta</i>	Applying unphased x-ray crystallographic data to the prediction of protein structures from mycobacterium tuberculosis	\$4,000 up to three months
MCGHEE, James <i>University of Calgary</i>	Bioinformatic analysis of the complete transcript inventory of the <i>C. elegans</i> intestine	\$2,250 up to three months
MEIJER, Inge <i>Individuals Inside Canada</i>	Canadian bioinformatics workshop	\$3,100 up to three months
RUDICH, Assaf <i>Hospital for Sick Children</i>	Canadian bioinformatics workshop	\$3,000 up to three months
SHAEPF, Manuela <i>University of British Columbia</i>	Canadian bioinformatics workshop	\$1,600 up to three months
VERLAAN, Domonique <i>Canadian Genetic Diseases Network</i>	Canadian bioinformatics workshop	\$5,265 up to three months
WEIJER, Charles <i>Dalhousie University</i>	Towards a synthesis of the ethics and epistemology of clinical research	\$9,995 up to three months
WILHELM, Brian <i>University of British Columbia</i>	Canadian bioinformatics workshop	\$6,800 up to three months
ZHU, Chang Qi <i>University of Toronto</i>	Lung cancer genomic investigation using BAC (Bacterial Artificial Chromosome) array	\$6,000 up to three months
Competition: June 2003		

Grantee(s):

CAMPBELL, Maria <i>University of Alberta</i>	Canadian bioinformatics workshop	\$3,000 up to three months
GRANT, Jason <i>University of British Columbia</i>	Canadian bioinformatics workshop	\$3,000 up to three months
MARCARDIER, Julien <i>Hospital for Sick Children</i>	Single molecule analysis of DNA replication dynamics at the mytonic dystrophy Locus in patient cells	\$4,600 up to three months

One-Year Bridging Operating Grants**Competition: September 2002****Grantee(s):**

BOGGS, Joan <i>Hospital for Sick Children</i>	Structural mechanism of osmosensing by osmosensor and osmoregulatory transporter prop of <i>Escherichia coli</i>	\$92,858 over one year
CASEY, Joseph (Joe) <i>University of Alberta</i>	Molecular physiology of sodium/bicarbonate co-transporters	\$100,000 over one year
IGDOURA, Suleiman <i>McMaster University</i>	Role of sialidase in the pathogenesis of neurodegenerative diseases	\$100,000 over one year
KHANDIJAN, Edward <i>Université Laval</i>	Function of the FMR1 gene product in protein synthesis	\$77,335 over one year
KHOKHA, Rama <i>Ontario Cancer Institute</i>	Role of TIMP-3 in progression of cardiovascular disease	\$75,330 over one year

Competition: September 2002 (cont'd...)		
MCBRIDE, Heidi <i>University of Ottawa Heart Institute</i>	The role of sumo1 conjugation in the regulation of mitochondrial morphology	\$75,332 over one year
MELACINI, Giuseppe <i>McMaster University</i>	Structural basis for the cyclic AMP-signal translation in PKA by nuclear magnetic resonance	\$77,809 over one year
MYMRYK, Joseph <i>London Regional Cancer Centre</i>	Molecular genetic analysis of adenovirus E1A function	\$94,454 over one year
OSBORNE, Lucy <i>University of Toronto</i>	Understanding the molecular basis of Williams-Beuren syndrome	\$78,433 over one year
SIMPSON, Elizabeth <i>University of British Columbia</i>	Genetic and in-vivo studies to define the role of nr2el in aggressive behaviour	\$86,318 over one year
YIP, Christopher <i>University of Toronto</i>	Direct measurement of protein-protein interactions by force microscopy	\$55,890 over one year
Competition: March 2003		
Grantee(s):		
ENGERT, James <i>Royal Victoria Hospital</i>	Linkage and association studies in a Quebec heart disease population	\$89,836 over one year
PRIVE, Gilbert <i>University Health Network</i>	Structure and function of saposin proteins	\$81,270 over one year
RAK, Janusz <i>McMaster University</i>	Tissue factor in tumour progression and angiogenesis	\$93,250 over one year
RIGGS, Kenneth <i>University of British Columbia</i>	The role of enzyme single nucleotide polymorphisms in the metabolism of anthracyclines	\$74,403 over one year
SWEEZEY, Neil <i>Hospital for Sick Children</i>	Glucocorticoid receptor and glucocorticoid-responsive genes in developing lung	\$90,472 over one year
TESSON, Frédérique <i>University of Ottawa Heart Institute</i>	Genetic approach to heart failure	\$138,561 over one year
ZANNIS-HADJOPOULOS, Maria <i>McGill University</i>	Characterization of mammalian origins of DNA replication and interacting factors	\$142,430 over one year

Appendix 3C

Financial Commitments incurred in Fiscal Year 2003-2004 from a previous reporting period

NOTE: The financial amounts reflected in this appendix represent the (a) financial contribution and (b) term at the time that the grant/award was offered by the IG. For specific amounts paid out during the reporting period, please refer to the "Investments in Strategic Initiatives" table.

Fostering Research

Invention and Technology Application Grants - Tools, Techniques and Devices for Research and Medicine				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
This program is designed to promote the engagement of Canadian scientists in research projects to advance research tools and techniques in a broad sense, where invention and development, rather than discovery, is expected to be the essence of those projects.	October 2002	23 (8 IG related)	11 (4 IG related)	50

Grantee(s):

HU, Jim <i>Hospital for Sick Children</i>	A new genetic tool for mutational analysis of genes in mammalian cells and in animals	\$294,017 over three years
KAST, Juergen <i>University of British Columbia</i>	Development of a mass spectrometry-based method for full-length sequencing of proteins	\$283,386 over three years
RANCOURT, Derrick <i>University of Calgary</i>	Development of a mouse gene rheostat	\$286,710 over three years
WOOLLEY, Andrew <i>University of Toronto</i>	Fluorescent tools for detecting protein-protein interactions	\$135,880 over three years

New Discoveries - High-Risk Seed Grants				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
The purpose of this New Discoveries–Seed Grants program is to encourage novel, innovative, and inventive research.	October 2002	10 (8 IG related)	5 (4 IG related)	50

Grantee(s):

BARKER, Philip <i>Montreal Neurological Institute</i>	MAGE genes and Autism	\$114,000 over two years
BOOTH, Stephanie <i>Canadian Science Centre for Human and Animal Health</i>	Microarray expression profiling in prion induced neurodegenerative diseases using novel statistical classification strategies	\$119,252 over two years
SOMORJAI, Rajmund <i>Institute for Biomedical Research, NRC</i>		
TIELEMAN, Dirk <i>University of Calgary</i>	Computer modeling of ABC-transporter domains	\$77,500 over two years
WOOLLEY, Andrew <i>University of Toronto</i>	Fluorescence imaging of ion channels in action	\$104,000 over two years

Facing our Future: Human Genetics, Ethics, Law and Society in partnership with IA & IPPH				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
This initiative will support critical analysis of current ethical, legal and social practices involving populationbased genetic research as well as implications for future studies in Canada.	November 2002	11	6	55
Grantee(s):				
HOY, Michael <i>University of Guelph</i>	Impact on consumer welfare of genetic testing in insurance markets			\$35,000 over one year
KNOPPERS, Bartha <i>Université de Montréal</i>	Towards a common language for biobanking?			\$28,600 over one year
LEE, Robert <i>Calgary Health Region</i>	A systematic review of the social, ethical, and legal dimensions of genomic and proteomic cancer risk assessment and screening technologies			\$34,300 over one year
LOCK, Margaret <i>McGill University</i>	The consumer DNA profiling industry: The production of bodily commodities, explanatory narratives and uncertainty			\$40,237 over one year
MILLER, Fiona <i>McMaster University</i>	Re-defining disease: Molecular genetics, ethics and health system implications			\$74,960 over one year
PULLMAN, Daryl <i>Memorial University of Newfoundland</i>				
LATUS, Andrew <i>Memorial University of Newfoundland</i>	Benefit sharing: Commercial sponsors' perspectives			\$34,900 over one year

Research Capacity Building

Clinical Investigatorship				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
This award provides two years of protected research time to pursue clinical or translational research.	July 2002	4	2	50
Awardee(s):				
ARBOUR, Laura <i>University of British Columbia</i>	The genetic and environmental bases of two complex diseases in the First Nations People of British Columbia			\$240,000 over two years
LEWIS, Suzanne <i>University of British Columbia</i>	New approaches toward understanding the genetic bases of form function and phenotype in Autism Spectrum Disorder			\$240,000 over two years

Interdisciplinary Capacity Enhancement (ICE) Teams Grant Program in partnership with IHSPR				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
These grants will enhance the capacity of groups of researchers to: (a) create strong intra- and interinstitution mentoring arrangements, and (b) developing knowledge translation.	October 2002	3	2	66
Grantee(s):				
BATTISTA, Renaldo <i>McGill University</i>	Genetic health policy support research program—to promote quality, efficiency and social well-being			\$1,000,000 over five years
WILSON, Brenda <i>University of Ottawa</i>	Translating genetics discoveries into appropriate health policy and services: Enhancing research capacity and developing an interdisciplinary approach			\$998,668 over five years
CAUFIELD, Timothy <i>University of Alberta</i>				
WELLS, George <i>University of Ottawa</i>				

Strategic Training Program	Partners:	
	Alberta Heritage Foundation for Health Research Canadian Institutes of Health Research (CIHR) Heart and Stroke Foundation of Canada Institute of Aboriginal Peoples' Health Institute of Cancer Research Institute of Circulatory and Respiratory Health Institute of Gender and Health Institute of Genetics Institute of Health Services and Policy Research Institute of Human Development, Child and Youth Health Institute of Infection and Immunity Institute of Neurosciences, Mental Health and Addiction Institute of Nutrition, Metabolism and Diabetes CIHR Knowledge Translation Branch Fonds de recherche en santé du Québec (FRSQ) Michael Smith Foundation for Health Research	
Competition: May 2001		
IG Lead (or Co-Lead):		
COTE, Graham <i>Queen's University</i>	Queen's University proteomics and protein function discovery training program	\$1,478,710 over six years
HOURY, Walid <i>University of Toronto</i>	Training program in protein folding: Principles and diseases	\$1,800,000 over six years
JONES, Steven <i>B.C. Cancer Research Centre</i>	Bioinformatics training for health research	\$1,800,000 over six years
MAI, Sabine <i>University of Manitoba</i>	Innovative technologies in multidisciplinary health research training	\$1,800,000 over six years
MEYN, Stephen <i>University of Toronto</i>	Collaborative graduate program in molecular medicine	\$1,800,000 over six years

Competition: May 2001 (cont'd...)		
REINTHMEIER, Reinhart <i>University of Toronto</i>	Training program in structural biology of membrane proteins linked to disease	\$1,800,000 over six years
THOMAS, David <i>McGill University</i>	CIHR strategic training program in chemical biology	\$1,770,000 over six years
IG Sponsored:		
CROSS, James <i>University of Calgary</i>	Training program in genetics, child development and health	\$1,469,160 over six years
DOWNIE, Jocelyn <i>Dalhousie University</i>	Training program in health law and policy	\$1,575,000 over six years
FENSTER, Aaron <i>John P. Robarts Research Institutes</i>	Vascular and cerebrovascular transdisciplinary training program (vcTTP): Integrated training in genetics, biology, mathematics, physics and engineering towards an understanding and prevention of vascular and cerebrovascular disease	\$1,075,000 over six years
LABRIE, Fernand <i>Université Laval</i>	Functional genomics and endocrine diseases	\$1,680,000 over six years
LIU, Peter <i>University of Toronto</i>	A training program in cardiovascular research: Molecules to populations, heart failure to prevention	\$1,410,000 over six years
LYE, Stephen <i>Mount Sinai Hospital</i>	The Samuel Lunenfeld Research Institute training program: Applying genomics to human health	\$1,800,000 over six years
MCDONALD, Michael <i>University of British Columbia</i>	Training program in ethics of health research	\$1,599,782 over six years
ROSENBLUM, Norman <i>Hospital for Sick Children</i>	Canadian child and youth health research clinician-scientist development program (CCYHR-CSDP)	\$1,800,000 over six years

Drs. Walter and Jessie Boyd & Charles Scriver MD/PhD Studentship Award in partnership with the Canadian Gene Cure Foundation and the Canadian Genetic Diseases Network

Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
This award provides support for MD/PhD students with a research focus in the areas of genetics	July 2002	6	6	100

Awardee(s):

CARLSON, Christopher <i>University of Alberta</i>	Characterization of Cox15p in heme metabolism and it's role in COX deficiencies	\$123,000 over six years
DOLGETTA, Speranza <i>University of Calgary</i>	Germ line engineering—Ethical aspects and public policy	\$123,000 over six years
HYRCZA, Martin <i>University of Toronto</i>	A functional genomics approach to elucidate the molecular mechanisms of T cell dysfunction in HIV-/AIDS	\$123,000 over six years
LEVESQUE, Sébastien <i>Université Laval</i>	Identification des gènes de susceptibilité à la prééclampsie	\$123,000 over six years
MAYNES, Jason <i>University of Alberta</i>	Identification of potential drug targets in mycobacterium tuberculosis	\$123,000 over six years
ST-PIERRE, Julie <i>Université Laval</i>	Genetic study of intermediate phenotypes in type 2 diabetes mellitus and its cardiovascular-associated complications in the Saguenay-Lac-St. Jean population	\$123,000 over six years

Facilitating the Work of Principal Investigators

Institute of Genetics Career Transition Awards				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
These awards support career transition of faculty members who are planning to undertake rigorous training outside of their primary area of expertise in order to transition into an area of need identified by the IG community.	November 2001	6	4	67
	October 2002	2	1	50
Competition Deadline: November 2001				
Awardee(s):				
FLIBOTTE, Stephane <i>Simon Fraser University</i>	Bioinformatics and comparable genomics			\$80,000 over one year
PEGNA, Joseph <i>École Polytechnique de Montréal</i>	Exploratory training toward a capacity in biomedical nanotechnologies			\$70,000 over one year
HOGG, David <i>University of Toronto</i>	Bioinformatics and software engineering			\$80,000 over one year
ROBERTSON, Ann <i>University of Toronto</i>	The meaning and use of genetic risk as evidence: Policy and practice issues at the intersection of human genomics, public health and bioethic			\$68,333 over one year
Competition Deadline: October 2002				
Awardee(s):				
WILD, Gary <i>McGill University</i>	The identification of inflammatory bowel disease alleles using haplotype analysis			\$80,000 over one year

Celera Genome Database Grant in partnership with CIHR				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
By subsidizing the database licensing fee, this program enables more researchers to access Celera's proprietary genomic database.	May 2002	21	15	71
Competition: May 2002				
Grantee(s):				
BARBER, Dwayne <i>Ontario Cancer Institute</i>	Identification of novel genes involved in normal and leukemogenesis hemapoiesis			\$18,000 over three years
BULMAN, Dennis <i>Ottawa Hospital Research Institute</i>	Celera genome database grant			\$18,000 over three years
DER, Sandy <i>University of Toronto</i>	Utility of Celera database in the analysis of microarray mRNA expression data and the development of novel gene promoter/CpG island DNA microarrays			\$18,000 over three years
GROS, Philippe <i>McGill University</i>	A genetic approach to understand host defences against infections			\$18,000 over three years

Competition: May 2002 (cont'd...)		
HAYDEN, Michael <i>University of Manitoba</i>	Celera genome database	\$18,000 over three years
HICKS, Geoffrey <i>University of Manitoba</i>	Bioinformatic analysis to identify defined embryonic stem cell mutations in genetic determinants of human disease and cancer	\$18,000 over three years
MAGER, Dixie <i>University of British Columbia</i>	Use of Celera database to facilitate mammalian genomic studies	\$18,000 over three years
RANCOURT, Derrick <i>University of Calgary</i>	Mitochondrial genetics	\$18,000 over three years
SCHRADER, John <i>University of British Columbia</i>	Celera genome database	\$18,000 over three years
SHOUBRIDGE, Eric <i>McGill University</i>	Mitochondrial genetics	\$18,000 over three years
STEWART, Alexander <i>Princess Margaret Hospital (Toronto)</i>	Celera genome database as a tool for studies in the biology of multiple myeloma and in the characterization of novel lipase genes	\$18,000 over three years
TONIN, Patricia <i>McGill University</i>	Celera genome database grant	\$18,000 over three years
TREMBLAY, Michel <i>McGill University</i>	Use of the CELERA database in the identification of new human cancer suppressor genes and in the functional analysis of the protein tyrosine phosphatase gene family	\$18,000 over three years
WROGEMANN, Klaus <i>University of Manitoba</i>	A genetic approach to understand host defences against infections	\$18,000 over three years
Competition: November 2002		
HEGELE, Robert <i>John P. Robarts Research Institute</i>	Celera genome database initiative	\$18,000 over three years
SIMINOVITCH, Katherine <i>University Health Network (Toronto)</i>	Identification of genes underlying immunological diseases	\$18,000 over three years

Short-Term Research Visits				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
These grants facilitate cross-disciplinary training by giving biomedical and health researchers financial support for short-term visits (three months or less) to research centres within Canada and abroad.	February 2002	12	9	75

Competition: February 2002		
Grantee(s):		
BARR, Cathy <i>University Health Network</i>	Quantitative trait analysis of cognitive and behavioural phenotypes in clinical and population based samples	\$10,000 over three months
BROCK, Hugh <i>University of British Columbia</i>	Short-term exchange to learn mammalian tissue-culture and chromatin analysis techniques	\$10,000 over three months
GIACOMINI, Mita <i>McMaster University</i>	Incorporating ethical analysis of values into genetic services coverage policies	\$10,000 over three months
LANDRY, Josette-Renée <i>Terry Fox Laboratory</i>	Canadian bioinformatics workshop	\$10,000 over three months

Competition: February 2002 (cont'd...)

MAYNES, Jason <i>University of Alberta</i>	Deriving constraints from low resolution X-ray data for the prediction of protein structures from myobacterium tuberculosis	\$ 7,860 over three months
RAJCAN-SEPAROVIC, Evica <i>B.C.'s Children's Hospital</i>	High resolution whole genome analysis of recurrent spontaneous abortions	\$ 4,540 over three months
SHAW, Gary <i>University of Western Ontario</i>	Folding and misfolding of disease-related proteins	\$ 7,160 over three months
VACHER, Jean <i>Institut de recherches cliniques de Montréal</i>	Molecular signalling pathway in pheomelanogenesis	\$ 6,600 over three months
WEVRICK, Rachel <i>University of Alberta</i>	Investigation of the zebrafish homologue of necdin, a candidate gene for Prader-Willi syndrome	\$ 8,610 over three months
WILHELM, Brian <i>University of British Columbia</i>	Canadian bioinformatics workshop	\$ 2,100 over three months

One-Year Bridging Operating Grants**Competition: March 2002****Grantee(s):**

DANSKA, Jayne <i>Hospital for Sick Children</i>	Control of Type I Diabetes pathogenesis by Idd4 and Idd11	\$178,662 over one year
EVANS, Jane <i>University of Manitoba</i>	Numerical, clinical and epidemiological approaches to complex patterns of human malformations	\$72,610 over one year
HUGHES, Timothy <i>University of Toronto</i>	A proactive bioinformatics system for genome-scale hypothesis testing	\$95,760 over one year
JURILOFF, Diana <i>University of British Columbia</i>	Genetic and developmental studies of a mouse model of genetically multifactorial neural tube defects	\$117,009 over one year
RAHMAN, Proton <i>Memorial University of Newfoundland</i>	Disease related genes in psoriatic arthritis	\$130,464 over one year
ROBERT, Jason <i>Dalhousie University</i>	Conceptual and ethical issues at the intersection of genomics, developmental biology, ecology, and health	\$17,910 over one year
ROGER, Andrew <i>Dalhousie University</i>	The origin and early evolution of gene families and organelles in eukaryotes	\$102,759 over one year
ROUSSEAU, François <i>Université Laval</i>	Validation of genetic markers of preeclampsia	\$88,884 over one year
ROUSSEAU, François <i>Université Laval</i>	Validation of genetic markers of the risk of sporadic breast cancer using a large matched case-control study	\$168,493 over one year
TIELEMAN, Dirk <i>University of Calgary</i>	Theoretical approaches to membrane protein structure: Molecular simulation and computer modeling of helical membrane proteins and peptides	\$38,000 over one year

Competition: November 2001		
Grantee(s): DEGAARD, Kurt <i>McGill University</i>	Molecular mechanisms of transmembrane proteins in the exocytic and endocytic pathways	\$41,500 over one year
GAGNON, Cynthia <i>Hôpital de Jonquière</i>	Functional and social consequences of myotonic dystrophy: Impact of personal and environment factors on social participation	\$41,500 over one year
GARENC, Christophe <i>Université de Lausanne</i>	Role of PPARs in lipase gene expression in adipocytes, monocytes and macrophages: Physiopathological and therapeutic pathways	\$41,500 over one year
LAGNEUX, Caroline <i>McGill University</i>	The genetic dissection of stroke in the mouse model	\$41,500 over one year
PETRYSHEN, Tracey <i>Whitehead Institute of Biomedical Research</i>	Identification of sensorimotor gating genes by mouse DNA microarray gene expression studies	\$46,500 over one year
ROY, Marie-France <i>McGill University</i>	Study of the role of toll-like receptor 4 (tlr4) in the host inflammatory response of the <i>mdm</i> mouse mutant	\$51,000 over one year

Knowledge Translation (KT) Strategies for Health Research				
Summary	Competition Deadline	Applications Received (#)	Applications Approved (#)	Success Rate (%)
General call: IG specific objectives of this program were to integrate an understanding of KT principles and practice into the training of health professionals.	October 2002	3	2	67
Special Topic: Folic Acid and the Prevention of Birth Defects (In partnership with IAPH, IGH and INMD)	October 2002	1	1	100

In partnership with the CIHR KT and Partnerships Portfolio and IHSPR

Grantee(s): CARROLL, June <i>Mount Sinai Hospital</i>	Evaluation of the impact of a multifaceted intervention to enhance the delivery of genetics services by family physicians	\$282,964 over three years
ALLANSON, Judith <i>Children's Hospital of Eastern Ontario</i>		
WILSON, Brenda <i>University of Ottawa</i>		
WILSON, Brenda <i>University of Ottawa</i>	The public and genetics: Understanding, expectations and priorities	\$172,336 over two years

In partnership with the CIHR KT and Partnerships Portfolio and IGH

Grantee(s): ST-CYR TRIBBLE, Denise <i>Université de Sherbrooke</i>	Application des connaissances liées à l'acide folique dans la prévention des anomalies congénitales : évaluation de l'implantation d'un programme et des effets sur les pratiques professionnelles	\$251,027 over three years
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Appendix 4

Workshop and Symposium Applications: Reviewed and Funded



Date and Location	Event	Financial Contribution (\$)
April 25-26, 2003 (Kananaskis, Alberta)	Crossing Over: Genomics in the Public Sphere Workshop	\$10,000
May 3, 2003 (Denver, Colorado)	Genomic Approaches to the Immune System	\$5,000
May 8-9, 2003 (Montreal, Quebec)	First Canadian State of the Art Conference on Von Willebrand Disease	\$5,000
May 13-14, 2003 (Winnipeg, Manitoba)	Canadian Student Health Research Forum	\$5,000
May 23-27, 2003 (Vancouver, B.C.)	3rd International Conference - Canadian Proteomics Initiative (CPI)	\$10,000
May 27-28, 2003 (Montreal, Quebec)	Pore-Forming Toxins and Maxi-Channels: From Structure to Therapeutics	\$5,000
June 6-7, 2003 (London, Ontario)	Symposium on Molecular and Cellular Basis of Human Disease	\$5,000
June 16-17, 2003 (Toronto, Ontario)	2nd International Congress on Schwachman-Diamond Syndrome	\$5,000
June 19, 2003 (Toronto, Ontario)	International Symposium on Molecular Evolution	\$5,000
July 16-18, 2003 (Montreal, Quebec)	Conférence internationale sur les facteurs de transcription GATA-Rôle des facteurs de transcription GATA dans l'homéostasie	\$5,000
August 7-12, 2003 (Vancouver, B.C.)	David W. Smith 24th Annual Workshop on Malformations and Morphogenesis	\$10,000
September 7-11, 2003 (Mont-Tremblant, QC)	6th Conference on Protein Expression in Animal Cells	\$5,000
September 29 - October 1, 2003 (Toronto, Ontario)	Genome Policy Program: Preparing for the Genomics Revolution in Health	\$2,500
October 7 - November 18, 2003 (Vancouver, B.C.)	Mini Med School Series entitled "Public Lectures in Genetics, Genomics and Health Research: Demystifying the Research, Engaging the Public, Capturing the Imagination"	\$2,500
October 8 - 11, 2003 (Montreal, QC)	International Union of Biochemistry and Molecular Biology (IUBMB) 2003	\$26,500

Workshop and Symposium Applications: Reviewed and Funded (cont'd...)

Date and Location	Event	Financial Contribution (\$)
October 8 -11, 2003 (Montreal, QC)	The Human Proteome Organization (HUPO) 2nd Annual World Congress	\$5,000
October 17-19, 2003 (Toronto, Ontario)	Great Lakes G Protein-coupled Receptor (GPCR) Retreat	\$5,000
October 27-29, 2003 (Toronto, Ontario)	Harmonizing Research and Privacy: Standards for a Collective Future Workshop	\$10,000
November 6-8, 2003 (Manoir du lac delage, Quebec)	Congr�s Institut national de la recherche scientifique (INRS) - Institute Armand-Frappier 2003	\$2,500
January 23-24, 2004 (Vancouver, B.C.)	Nursing in the Genomic Era: A Canadian Planning Forum	\$2,500
February 28 - March 4, 2004 (Banff, Alberta)	4th International Conference on Unstable Microsatellites and Human Diseases	\$15,000
Total Contribution in Fiscal Year 2003-2004		\$140,000