



The Multiple
Sclerosis
Scientific
Research
Foundation

**MULTIPLE SCLEROSIS
SCIENTIFIC RESEARCH FOUNDATION**

**MULTI-CENTRE, COLLABORATIVE GRANT
POLICIES AND PROCEDURES**

Revised for the 2011-2012 Competition

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ADMINISTRATION OF THE COLLABORATIVE GRANTS

The Multiple Sclerosis Scientific Research Foundation (MSSRF) oversees funds to stimulate innovative and collaborative research which will lead to major advances in understanding the pathogenesis of multiple sclerosis (MS) or to new or enhanced therapies for the disease. These funds are separate from the regular research program funded by the Multiple Sclerosis Society of Canada (MSSOC) and are meant to support large, multi-centre, collaborative studies that are beyond the scope of the regular research program.

Interested applicant teams must first submit a letter of intent (LOI). It is expected that the majority of the team members, as well as the team leader, will be from Canadian institutions. LOIs will be reviewed and ranked by non-conflicted members of the Medical Advisory Committee (MAC) of the MSSOC. Depending on the MSSRF budget available, applicant teams will be informed in a timely manner whether they are invited to submit a full application. If the team does not wish to apply within the same calendar year as the LOI, the entire process must be reinitiated commencing with an LOI in any subsequent year.

An international review panel will be assembled to review full applications. If necessary, its deliberations, summary and recommendation will be forwarded the MAC that will rank the applications and provide additional consideration of budget. Following due diligence and unless there are exceptional circumstances, the recommendations of the international review panel will be upheld and transmitted by the MAC to the MSSRF for approval of funding. The review process for MSSRF grants will be anonymous, and will be impeccable in quality and integrity.

RESEARCH INVOLVING HUMAN SUBJECTS OR ANIMALS

The MSSRF will not support research involving human subjects without proper approval of the specific research proposed from the grantee institution's human institutional review board. This approval must be signed by the Chairperson of the Committee.

The MSSRF believes that there is evidence of important benefits to people with MS through stem cell research. Accordingly, it will consider funding research on all types of human cells if that research follows federal government legislation.

For research involving animals, approval from the grantee's institutional animal use and care committee must be granted prior to the release of any funds from the MSSRF. This approval must be signed by the Chairperson of the Committee.

INDEMNIFICATION POLICY

The MSSRF is not responsible for any claim, judgment, award, damages, settlement, negligence or malpractice arising from the research project or investigation related to this grant. The Grantee and Institution acknowledge responsibility for the conduct of research

or investigation related to this grant, and release the MSSRF from all claims or liability that may arise from the conduct of research or investigation related to this grant or award resulting from any act or omission on the part of the Grantee and Institution, their employees, agents or representatives to the extent allowed by applicable law.

EQUAL OPPORTUNITY REGULATIONS

The MSSRF adheres to a policy of equal opportunity in employment and requires that all Canadian institutions to which its research or training awards are made adhere to federally mandated equal opportunity policies; institutions outside of Canada must adhere to locally applicable equal opportunity policies.

AVAILABILITY OF RESOURCES

Investigators who receive funds from the MSSRF are expected to share research resources developed with the MSSRF's support with other qualified investigators working on multiple sclerosis. Examples of such resources include (but are not limited to) cell lines and clones, antibodies, and nucleotide and protein sequences.

POLICY ON SCIENTIFIC MISCONDUCT AND FRAUD

Any institution that receives funds from the MSSRF must have written policy guidelines on conflict of interest and scientific misconduct and fraud. It is the responsibility of the institution and the grantee/awardee to inform the MSSRF immediately, in writing, of any institutional investigation into the conduct of an investigator whose work is supported by the MSSRF, and to keep the MSSRF informed in a timely manner of the progress and outcome of such investigation. A finding by the institutional investigation that the investigator was guilty of research fraud or misconduct is sufficient grounds to terminate MSSRF support of a project, and may jeopardize future support for the investigator from the MSSRF.

ELIGIBILITY

Principal Investigator is defined as the designate Principal Investigator, holding M.D., Ph.D., or equivalent degree, who will assume the scientific and administrative oversight for the operating of the collaborative effort. This Principal Investigator should be an established, highly qualified scientist with adequate administrative and leadership experience and authority to manage the collaborative program.

It is expected that the person indicated as the Principal Investigator in an application for a grant is the one who is personally and actively responsible for the conduct of the research and who is considered eligible by his or her institution to apply for a research grant. The Principal Investigator need not be a Canadian citizen but must be conducting research in a Canadian institution. The Principal Investigator is autonomous regarding their research activities, has an academic or research appointment which allows the individual to pursue

the proposed research project, to engage in independent research activities for the entire duration of the funding and is to supervise trainees and to publish research activities.

Co-Investigator is defined as an individual who shares responsibility for the direction of the proposed research project with the Principal Investigator and meets the eligibility criteria of a Principal Investigator.

Collaborator is defined as an individual whose role in the proposed research project is to provide a specific service (e.g., access to equipment, training in a specialized technique, statistical analysis, etc.)

Institution is defined as where the Principal Investigator is located, and is the recipient of the funds. The awardee institution must be located in Canada and must be a non-profit research and/or clinical institution.

GUIDELINES FOR SUBMISSION OF A LETTER OF INTENT (LOI)

Application Procedure: The MSSRF has converted to a Web-based apply online facility for the submission of all research applications. This facility can be accessed through the MSSOC's website: <https://www.mscanadagrants.ca>

Timing: The deadline for LOI submission is December 16th, 2011 at 23:59pm Eastern Time. Incomplete LOIs, or LOIs that are submitted after the deadline, will not be accepted.

Term and Amount of Award: The MSSRF will provide support in a total amount of up to \$1.5 million a year per project for up to three years for a total of \$4.5 million. As of 2011, all eligible applicants are allowed to request the maximum amount of funding of \$4.5 million over 3 years. For all successful applicants as of 2011 the Principal Investigator may only renew their collaborative grants twice with decreasing support of funds from the MSSRF for each renewal. The first renewal has a maximum funding of \$3.0 million for up to three years and the second renewal has a maximum funding of \$1.5 million for up to three years. As the MSSRF is a Canadian non-profit entity, the award will not cover overhead/indirect costs or the salary of the Principal Investigators, Co-Investigators and Collaborators.

Documents: The following list are required documents that will be requested for upload to complete the LOI, some of the uploads will have templates provided.

- **Letter of Intent Contents:** It is expected that a complete LOI will outline the research program and indicate the participating investigators. Using a text of 12-font size, and page margins of at least 0.75 inches, and a maximum of five pages (including figures but excluding references), additional pages will not be reviewed. The LOI must clearly outline each of the elements below:
 - The relevant background and objectives of the research program to be undertaken by the team over the period of funding

- How the team effort can lead to a major advance in understanding the cause of MS or to the development or improvement of therapy for the disease;
 - The extent of collaboration between members of the investigative team, with an explanation of the anticipated value added to the research program through the synergy of the group (i.e. why this cannot be funded through one or more regular operating grants and/or conducted at fewer sites);
 - Novelty and the uniqueness of the projects;
 - A description of the importance and novelty of hypotheses or questions to be addressed and expected findings;
 - The ability of the group to carry out the program of research proposed;
 - The preliminary plan for the research program and schedule of work, including integration of work by the collaborators (i.e. why this should not be a string of independent studies);
 - The plan, including proposed organizational structures for engaging and linking with groups (researchers or patients) that will ultimately use the research findings; and
 - The nature and extent of the loss to the Canadian MS community were this project not funded.
- **External Funding:** List other peer review funding sources that this research program may be supported by. As the MSSRF has moved to a tapered funding model, it is expected that applicants demonstrate that their research activities may be supported by other competitive peer review funding sources. It is expected that the initial MSSRF funding be used in large part, though not exclusively to create support for the collaborative nature of the research program.
 - **CV:** Please upload the CV for a maximum of five of the key members of the application, including the Principal Investigator. The MSSOC endorses the Common CV and requests that all applications working at a Canadian Institution submit a Common CV, the template for which can be found at http://www.commoncv.net/index_e.html, please choose MS Society as the agency.
 - **Publications:** Please upload a list of publications from the key members of the collaborative team that are relevant to the application. Only list the publications from the last 5 years.
 - **External Referees:** Suggest the names of up to 10 external referees. The list must include international referees although reviewers based in Canada will not be excluded if they have the relevant expertise and are not in conflict. Applicants may request to exclude referees.
 - **Required Signatures:** The signature of the Principal Investigator that will lead the Collaborative Grant, the Chair of the Department of the Principal Investigator and the Dean of the Faculty or Director of the Institution of the Principal Investigator.

GUIDELINES FOR FULL SUBMISSION

Eligibility: Full submission is only open for the applicants that have received noticed inviting them to submit a full application.

Application Procedure: The MSSRF has converted to a Web-based apply online facility for the submission of all research applications. This facility can be accessed through the MSSOC's website: <https://www.mscanadagrants.ca>.

Timing: Incomplete applications, or applications that are submitted after the deadline, will not be accepted.

Term and Amount of Award: The MSSRF will provide support in a total amount of up to \$1.5 million a year per project for up to three years for a total of \$4.5 million. As of 2011, all eligible applicants are allowed to request the maximum amount of funding of \$4.5 million over 3 years. For all successful applicants as of 2011 the Principal Investigator may only renew their collaborative grants twice with decreasing support of funds from the MSSRF for each renewal. The first renewal has a maximum funding of \$3.0 million for up to three years and the second renewal has a maximum funding of \$1.5 million for up to three years. As the MSSRF is a Canadian non-profit entity, the award will not cover overhead/indirect costs or the salary of the Principal Investigators, Co-Investigators and Collaborators.

Documents: The following list are required documents that will be requested for upload to complete the full submission, some of the uploads will have templates provided.

- **Collaborative Research Proposal:** A maximum of 30 pages (12-font size, and page margins of at least 0.75 inches), describe the proposal as guided by the headings below and addressing the review criteria for the MSSRF grant program. Please refer to the Online Application Guidelines for more information. Page limits do not include references, tables, charts, figures and photographs. Legends should be succinct. Detailed description of methods and discussion of results should be included in the body of the proposal. They should not be in legends nor included as an attachment. Questionnaires and consent forms may be attached, where applicable. General criteria for assessing applications are listed below:

Overview of the team's research program

- Describe the background, objectives, hypotheses, approaches, research plan and milestones of the proposed team; clearly state how the team effort can lead to a major advance in understanding the cause of MS and/or to the development or improvement of therapy for the disease;
- Describe the nature of the team's linkages and how the results will be integrated to achieve the objectives;
- Describe the anticipated value of the results highlighting the

relevance of the scientific or technical advances, new expertise and the innovative techniques that will be developed; and

- Clearly state why this cannot be funded through one or more regular operating grants and/or fewer sites.

Background

- Relate the proposal to current research developments in the field referring to the current literature and explain the relationship of the research program to other initiatives in this area in Canada and abroad; and
- Describe the background research on which the research team has been built.

Advantages of a team approach

- Explain how the team brings added value, in terms of the approach to MS, by showing how the research components together form an integrated research program able to address issues which could not readily be approached were the components to be funded separately; and
- Show how working as a team will result in sharing of intellectual material (e.g. specimens, patients, cells, animals, databases), equipment and facilities and reduce redundancies in research efforts.

Organizational aspects of team structure, interactions and communications

- The administrative and operational structures and their roles in coordinating activities, enhancing interactions among team members, monitoring progress, setting schedules and controlling expenditures;
- The responsibility for planning, decision making and resource allocation within the team;
- The communications mechanisms proposed for internal communications among the team members and how they will accelerate the exchange of research results, material and techniques within the team; and
- Plans for dissemination of the team's research findings through linkages with the appropriate user community.

For each major component research project and core facility

- Identify the project leader and participants;
- Summarize the specific objectives, hypotheses, approaches, research plan, methods, and milestones;

- Provide details on where the research will be carried out;
 - Describe the pertinent expertise, role and expected contributions of the team members and how they will be integrated; and,
 - Describe how the project fits into the overall research program and contributes to achieving the objectives of the MSSRF.
- **Budget Justification:** Funding requests on the Foundation grant may include:
 - Research operating costs for the proposed collaborative research program, which must be distinct in its objectives from those for which team members currently receive funding;
 - Purchase of equipment and maintenance contracts for common services and shared facilities;
 - Costs of data collection, database and maintenance of information holdings directly related to the MSSRF grant program;
 - Costs of regional, national and international networking activities, including collaboration, planning, and knowledge exchange activities, directly related to the MSSRF grant program;
 - Salaries of research assistants and technicians who will enhance the collaborative research productivity of the team; PI salary is not eligible for funding;
 - Support of research trainees, at the rate specified by the MS Society of Canada for trainees. Foundation grants are expected to provide a superior training environment;
 - Salary of a professional coordinator and/or administrative assistant;
 - Costs involved in linkage with and dissemination of research findings to those who use the results, as appropriate for the research program, (including other researchers, the public, practitioner and policy communities, and the industrial sector);
 - Institutional overhead is not permitted.
- **Letters of Endorsement:** The applicant is required to upload letters of endorsement from other competitive peer review funding sources that their research program may be eligible to obtain funding from. The letters must be submitted on the funding agency letterhead and have a signature from an official of the funding agency.
- **CV:** The applicant is required to upload the CV of the Principal Investigator, Co-Investigators and Collaborators. The MSSOC endorses the Common CV and requests that all applicants working at a Canadian Institution submit a Common CV, http://www.commoncv.net/index_e.html. Please choose “MS Society” as the agency.

- **Publications List:** Please upload a list of publications from the key members of the collaborative team that are relevant to the application. Only list the publications from the last 5 years.
- **Publications:** Full publications from the past five years, relevant to the MSSRF Collaborative Grant proposal, may be uploaded. A maximum of 10 publications may be uploaded for the entire Collaborative Team.
- **Operating Grant Required Signatures:** Signatures of the following will be required
 - **Collaborative Grant Required Signatures:** The signature of the Principal Investigator, Department Head and Dean of Faculty or Head of Research Institution
 - **Co-Investigator Required Signatures:** The signature of each Co-Investigator is required. Please upload a separate signature page for each Co-Investigator.
- **Appendix:** Additional supporting documents and publications may be added here

REVIEW PROCESS

MSSRF Collaborative Grant applications will be evaluated as a single, integrated entity. While each research component included in the application must be meritorious, it is critical to demonstrate that the MSSRF Collaborative Grant brings added value, in terms of the approach to MS, health care, and the speed and efficiency with which new knowledge in MS will be generated, or translated into improvements in health, when compared with funding the proposed work as a series of separate operating grants.

General criteria for assessing applications are listed below. Because different applicant teams will emphasize different approaches to research and to knowledge translation, it is understood that reviewers and committees will weigh questions such as these differently from one application to another.

Applications will be assessed on the extent to which they:

- Approach the research issue through an original, innovative, coordinated and feasible research plan which will generate valid, reliable and useful data;
- Demonstrate that funding of the MSSRF Collaborative Grant will enhance the understanding and accelerate the resolution of MS, when compared to independent research projects;
- Contain novel ideas;
- Constitute a major new effort not previously applied to MS;
- Consist of team members who have been productive, creative and original in their approach to research, or who have the potential to develop these attributes. The inclusion of a member who is previously not involved in MS research is advantageous;

- Key members have a track record of having participated and/or having provided leadership to collaborative research teams; and
- Describe a research training program that provides a superior experience for graduate and post-doctoral trainees, including those with a health professional background.

Each full application received will be reviewed by an international review panel. The chair of the international review panel will be appointed by the MAC Chair and the MSSOC's Vice-President, Research. If the MAC Chair is in conflict with an application, previous MAC Chairs or another member of the MAC with no declared conflicts, along with the, MSSOC's Vice-President, Research will appoint the Chair for the international review panel. The Chair, in consultation with the Chair of the MAC (or, in conflicts, previous MAC chairs or other non-conflicted MAC members), will appoint a minimum of three and up to a maximum of six reviewers to the committee. These reviewers shall be, and will remain, anonymous to the applicants. It is imperative that the Chair and reviewers of each panel declare no conflict with the applicants and must not be a co-investigator on any other MSSRF grant(s) being reviewed in the same cycle. The Chair and reviewers will be asked to sign a confidentiality document and must guarantee confidentiality about the content and deliberation of all MSSRF grants in the review cycle.

Each reviewer of a given application will receive a complete copy of the applications and will be expected to submit written comments, identifying major issues on each application. All written reviews will be distributed amongst the members of the review panel members. A conference call will be held amongst the review panel members and the Chair to identify major issues. Following this call, the unidentified critiques which focus on major issues will be summarized by the chair of the review panel and sent to the Principal Investigator of an application. Depending on the enthusiasm of the reviewers, the international review panel may request that the collaborative team rebut the reviewers' comments in writing within 14 business days of receiving the comments. The team's written response will then be circulated to the members of the review panel.

If applicants are requested to rebut the international review panel's comments, a second conference call of the review panel will be held to determine whether the applicants have addressed the major issues identified. The review panel then comes to a consensus on its recommendation of "Approve" or "Not approve". If the consensus is to "Approve", the level of enthusiasm for funding will then be considered. Budget considerations will be reviewed and a recommendation of funding amount made. For 2012, only one application may be recommended for funding.

The final recommendation phase will then begin. The recommendation of the international review panel will be forwarded to the MAC. Following due diligence and discussions, the MAC is expected (unless in exceptional circumstances) to uphold the decision of the international review panel and transmit this decision to the Trustees of the MSSRF for recommendation of funding. The decision is final and cannot be appealed.

CONDITIONS OF AWARD

Notification: The Principal Investigator will be advised of the duration and amount of the grant awarded. A fully executed letter of agreement must be returned to the MSSRF in order for the funds to be released. Payment of the grant will be remitted as stated in the Letter of Agreement and Accounting Procedures. Payment of subsequent quarters is dependent upon a) receipt, review, and approval by the MSSRF of the semi-annual financial reports and b) receipt, review and approval by the MSSRF and MAC of annual research progress reports.

Renewal Grants: Collaborative Grants are not renewed automatically. Support beyond the term originally approved is dependent upon submission and approval of a renewal application for a new grant.

If a renewal grant is approved for support, funds will not be made available until the MSSRF and MAC have received and deemed to be reasonable and acceptable a report of all funds expended during the term of the previous project.

Unspent Funds: Budgets in applications for grants are estimates of the funds required to perform the research indicated, unexpended funds may be carried over to the next year. If renewal support is provided, remaining funds from the previous grant will be applied to the first payment of the renewal grant and the renewal budget will be reduced accordingly. Only in certain circumstances will the renewal budget not be reduced.

However, unexpended funds remaining at the termination of the grant must be returned to the MSSRF within 6 months if renewal support is not awarded

Extension of Term: An extension of the term of a grant without additional funds may be approved when requested and justified in writing. Extensions of term will be for either 6 or 12 months and may only be requested once for any given grant. A request for an extension must include: (1) the amount of money to be carried into the extension period; (2) a statement of why the funds were not used in the original grant period; (3) a statement of how the funds will be used during the extension. A request for an extension must be made at least 90 days before the termination date of a grant.

Transfer of a Grant: The MSSRF retains the right to transfer a grant from one institution to another (only if institution is Canadian), along with the transfer of the Principal Investigator, upon the Principal Investigator's written request. For the approval of such a transfer, the MSSRF requires a letter of acknowledgment signed by the new institution. For research involving human subjects and/or animals, written approval from the new institution's Institutional Review Board and/or the Animal Care and Use Committee must be received prior to initiation of payment. In addition, the original institution must submit an acceptable report of expenditures and return all unexpended funds to the MSSRF before a final transfer can be made. No interruption of financial support should be involved if the request to transfer the grant is received by the MSSRF

at least 90 days prior to the anticipated date of transfer and the financial report is submitted from the old institution prior to the transfer date.

Change of Principal Investigator: In most cases, a grant terminates when the Principal Investigator becomes unable to continue supervision of the research. However, within 30 days after such an occurrence, the original institution may request that the grant be continued with the responsibility transferred to a new Principal Investigator until the grant can be terminated appropriately or until a new, complete application can be submitted by the new Principal Investigator. Such changes cannot be effected without prior approval in writing by the MSSRF.

Termination of grant: A research grant may be terminated before the end of the project: (1) if the Principal Investigator requests, in writing, that the award be terminated; (2) if the Principal Investigator is unable to carry out the research at the original institution; (3) if the sponsoring institution requests in writing that the award be terminated because of the awardee's termination of his/her academic appointment; (4) if the Principal Investigator fails to notify the MSSRF of any change in his/her affiliation with the department or institution on record at the time the award was made; (5) if the Principal Investigator changes any aspect of the award from that which was originally approved by the MSSRF, including significant changes in the specific aims of the research studies, without prior notification and approval by the MSSRF; (6) when annual reports of progress are not received from the principal investigator by January 15th of every year of each award anniversary year; (7) if the Principal Investigator is found by an institutional investigation to have committed scientific misconduct or fraud; or (8) by action of the Board of Directors of the MSSRF.

ACCOUNTING PROCEDURES

Semi-Annual Financial Reports: The MSSRF will release the first and second quarter of the first year of funding to the grantee. From that point forward, it is the responsibility of the grantee to demonstrate semi-annually that the majority (greater than 75%) of the funds previously provided are expended prior to release of the following quarter payments. Therefore, we request that a financial report be completed semi-annually and returned at least two weeks before the end of the half year, if additional funds are required at this point. If the grantee has not expended at least 75% of the funds previously provided, the grantee will need to submit a financial report once 75% of the funds have been spent in order to receive the next two quarterly payments from the MSSRF. Future quarterly payments will continue to be contingent upon receiving confirmation semi-annually that at least 75% of funds previously provided have been spent. If it is determined that the funds are not expended or properly expended, the MSSRF has the right to withhold funds until further notice. Forms will be provided.

Final Financial Reports: A full account of all expenses incurred over the entire lifecycle of a research project is due within 90 days of the termination of the grant. Unexpended funds remaining as of the termination date of the grant must be returned to the MSSRF, if

renewal support is not awarded. Grantees agree to return to the MSSRF the remaining funds within six months following the termination date. Forms will be provided.

PROGRESS REPORTS

Annual Research Progress Report: An annual research progress report is due January 15th of every year. The report must include a written description of progress made, referring to the hypothesis and aims proposed in the original application. Compliance with this policy is necessary for ongoing funding of your research project. A template for the annual research progress report will be provided.

Final Research Report: A final report of the progress is due within 90 days of the termination of your grant. This report must include documentation of all milestones achieved during the entire cycle with reference to the initial hypothesis and aims of the research project. A template for the final research report will be provided.

PUBLICATIONS AND COMMUNICATION

Publications: The MSSRF expects that the results of research will be published in appropriate journals. The responsibility for publications lies with the Principal Investigator. The results of any work supported by a grant from the MSSRF must be acknowledged in all dissemination materials (e.g., publications, scientific exhibits, scientific presentations, press releases, etc.) The following acknowledgment or its equivalent should be used: “This investigation was supported (in part) by a grant(s) from the Multiple Sclerosis Society of Canada and the Multiple Sclerosis Scientific Foundation.” As soon as a manuscript is accepted for publication, it is expected that the grantee will inform the MSSOC’s Research Department with the name of the journal, title of article and expected date of publication.

Media and Communications: The MSSRF expects that if a grantee’s host institution and/or publisher is preparing a press release or other media announcement related to an MSSRF funded grant, the institution and/or publisher and the researcher shall contact and inform the MSSOC’s Research Department in advance.

Knowledge Translation: To help increase stakeholder awareness of the research funded by the MSSRF, the grantees may expect the MSSRF to call upon them during the term of the grant to summarize research related activities to a lay audience or the media. It is also expected that the grantee participate in public awareness events that promote awareness the MSSRF’s research program.

OPEN ACCESS TO RESEARCH OUTPUTS

The MSSRF is strongly committed to enhancing the application of research results. This section on Open Access to Research Outputs' ("**Open Access**") has been adopted with the expectation that all research funded by the MSSRF will be made freely accessible and useable for others in the international and national research community. The objective of Open Access is to enhance access to and disclosure of all MSSRF funded research to a broad audience.

Research Outputs: The MSSRF has adopted the definition of "research outputs" from the Canadian Institutes of Health Research (CIHR) definition as "conceptual or practical knowledge, data, information, and physical or biological materials developed during the course of a research project that are integral for building on research discoveries."

Application and Compliance with Open Access: The Open Access requirements under this Policy apply to all grants awarded after July 1st, 2011 and onward, in whole or in part, from the MSSRF. The MSSRF encourages compliance of these Open Access requirements from research funded by the MSSRF prior to July 1st, 2011

Journal Publication: As previously noted, Principal Investigators (Grant Recipients) are required to make every effort to ensure that their peer-reviewed publications are freely accessible through an online repository as soon as possible and in any event within six months of publication.

This may be done by publishing research findings:

1. to a non-subscription based journal;
2. to a subscription based journal where the authors may also self-archive peer reviewed papers in an online repository; or
3. through a "Hybrid" journal that also has open access publishing options.

(see Appendix "A" for examples of journals and research outputs)

Research Data: The MSSRF requires Grant Recipients to deposit bioinformatics, atomic, and molecular coordinate data into an appropriate public database immediately upon publication of research results. *(see Appendix "A" for examples of journals and research outputs)*

Grant Recipients are required to retain original data sets arising from MSSRF funded research for a minimum of five years after the end of the term of their funding agreement with the MSSRF. This applies to all data, whether published or not.

Publication Costs: Funding received through the MSSRF may also be used by the Grant Recipient to pay expenses incurred in the publication of MSSRF funded research.

Consents: In order for the MSSRF to achieve the Open Access goals of this Policy, Grant Recipients are required to use their best efforts to acquire the appropriate level of

consent from individual participants involved in any research funded, whether in whole or in part, by the MSSRF.

All consents acquired by the Grant Recipients must be done in accordance with all applicable laws including, without limitation, all applicable privacy and health information laws, government regulations and Health Canada guidelines, including but not limited to the ICH Harmonised Tripartite Good Clinical Practice Consolidated Guideline, the Declaration of Helsinki, the 2nd edition of the Tri-Council Policy Statement, “Ethical Conduct for Research Involving Humans” and in accordance with generally accepted clinical practices.

Monitoring and Adherence: In accepting any grant from the MSSRF, Grant Recipients accept the terms and conditions of their grant, which include the Open Access Requirements of this Policy. In the event of any breach or non-compliance with this, the MSSRF may take steps to investigate the allegation, which may result in termination of funding, grants or awards at the sole discretion of the MSSRF.

OBLIGATIONS UNDER LAW

These Policies should be read in conjunction with all applicable laws including, without limitation, all applicable privacy and health information laws, government regulations and guidelines.

APPENDIX “A”

Examples of research outputs and corresponding publicly accessible archive, repository or database*	
<u>Journals</u> PubMed Central Institutional Repositories at Canadian universities Directory of Open Access Repositories (international)	
<u>Research data</u>	<u>Public database or archive</u>
Nucleic acid sequences	GenBank
Gene expression data	Gene Expression Omnibus
Structure data	Research Collaboratory for Structural Bioinformatics (RCSB) Protein Data Bank
Single nucleotide polymorphisms (SNPs)	The Single Nucleotide Polymorphisms Database
Molecular interaction data	See International Molecular Exchange Consortium (IMEx) partners
DNA and clinical data related to the human major histocompatibility complex (MHC).	dbMHC
Proteomics data (Deposition of proteomics data)	<ul style="list-style-type: none"> • PRoteomics IDentifications database (PRIDE) [European Bioinformatics Institute (EBI)] • PeptideAtlas [Institute for Systems Biology (ISB)] • Global Proteomics Machine (GPM)

* As provided for in the CIHR ‘Policy on Access to Research Outputs’.