




[\(/rnr16/LoginServlet?language=E\)](#)

[Home](#)

[Search Again \(/rnr16/srch.do?view=search\)](#)

| [Back to Results \(srch.do?](#)

[incArc=true&next=1&org=CIHR&prog=2945&resultCount=25&terms=201811GER&type=EXACT&view=search&language=E&return=true\)](#)

[Print Preview](#)  [\(vwOpprtntyDtls.do?](#)

[incArc=true&next=1&org=CIHR&prog=2945&resultCount=25&terms=201811GER&type=EXACT&view=search&language=E&printfriendly=true\)](#)

| [Notify a Colleague \(notifyAColleague.do?prog=2945&progCtx=6098\)](#)

Funding Opportunity Details

Funding Organization

Canadian Institutes of Health Research

Program Name

Operating Grant : Geroscience Demonstration Grants ARCHIVED

Sponsor(s)

The CIHR Institute of Aging (IA), in partnership with the Institute of Cancer Research (ICR), and Institute of Nutrition, Metabolism and Diabetes (INMD)

Program Launch Date

2018-08-14

Deadline Date

TBD (To be determined)

Important Dates

Competition	201811GER CLOSED
Application Deadline	2018-11-15
Anticipated Notice of Decision	2019-03-14
Funding Start Date	2019-03-01

Table of Contents

- [Description](#)
- [Objectives](#)
- [Eligibility](#)
- [Guidelines](#)
- [Review Process and Evaluation](#)
- [How to Apply](#)
- [Contact Information](#)
- [Sponsor Description](#)
- [Additional Information](#)

Description

As Canada's demographic continues to shift with the population of those over age sixty-five increasing to historic levels and those over 85 increasing even more, it is expected that the prevalence of age-related chronic diseases will increase significantly. Since prevalence increases exponentially with age, it is crucial to have a better understanding of how the mechanisms related to biological aging can act as major risk factors for chronic diseases.

The frequent co-occurrence between chronic diseases and aging points to a link between the biology of aging and the interaction with different physiological systems. This interaction results in an initial trigger for the development of various chronic diseases.

The geroscience approach seeks to understand the molecular and cellular mechanisms responsible for aging that are considered as major risk factors and drivers of the development of common chronic conditions and diseases in the trajectory of life. While aging itself is not a disease, the aging process represents a major risk factor for the development of a number of chronic diseases and conditions, including cardiovascular disease, diabetes, many cancers, arthritis, and frailty, among others. The knowledge that will be acquired using the geroscience approach will inspire novel and innovative public health interventions for the prevention of chronic diseases.

There is now growing evidence in animal models that interventions at the level of these biological mechanisms of aging could lead to the very early prevention of many chronic diseases associated with aging.

One of the main outcomes of the position paper by [Kennedy et al.](#) was to identify and promote the concept of the relationship between the biological pillars of the aging process and the development of chronic disease. This paper concludes that these biological pillars may in fact represent the potential drivers of the aging process. The pillars of research that have been considered to date include inflammation, adaptation to stress, epigenetics, metabolism, macromolecular damage, proteostasis, and stem cells and regeneration.

It is known that aging is associated with metabolic changes. Some of these changes are related to adaptive responses and some are associated with age-related diseases such as diabetes, cardiovascular diseases, cancer, and neurodegenerative diseases. By being able to identify specific metabolic changes during the process of aging that may be related to the development of one or several chronic diseases, future targets for therapeutic interventions may be developed. For instance, one such study looked at how obesity and metabolic dysfunction alter the inflammatory process with age.

This geroscience approach has the potential to become a powerful new way to prevent or delay the onset of chronic diseases in aging. The goal of this funding opportunity is to promote the use of the new geroscience approach for research on aging and on the prevention of chronic diseases in Canada.

Funds Available

CIHR and partner(s) financial contributions for this initiative are subject to availability of funds. Should CIHR or partner(s) funding levels not be available or are decreased due to unforeseen circumstances, CIHR and partner(s) reserve the right to reduce, defer or suspend financial contributions (http://www.nserc-crsng.gc.ca/Professors-Professeurs/FinancialAdminGuide-GuideAdminFinancier/AnnualFunding-FinancementAnnuel_eng.asp#payment) to grants received as a result of this funding opportunity.

- The total amount available for this funding opportunity is \$3,600,000, enough to fund approximately 8 grants. The maximum amount per grant is \$150,000 per year for up to 3 years for a total of \$450,000 per grant. This amount may increase if additional funding partners participate.

[Top](#)

Objectives

The Geroscience Demonstration Grants are expected to:

- Accelerate, catalyze, and build capacity for research on the early prevention of chronic diseases in aging using a geroscience approach
- Support the creation of new knowledge to improve our understanding of the relationship between mechanisms in the biological processes of aging and the development of one or several chronic conditions (e.g., diabetes, cancer, neurodegenerative diseases, arthritis, cardio-respiratory diseases)
- Support research using a geroscience approach that could lead to potential clinical impacts.

[Top](#)

Eligibility

Eligibility to Apply

For an application to be eligible:

1. The Nominated Principal Applicant must be an independent researcher (<http://www.cihr-irsc.gc.ca/e/34190.html#r6>) appointed at an eligible institution (See Institutional Eligibility Requirements (<http://www.cihr-irsc.gc.ca/e/22630.html#F31>) for eligibility process and associated timelines).

An inter-disciplinary approach is encouraged where appropriate.

For additional eligibility requirements for individuals, refer to the Individual Eligibility Requirements (<http://www.cihr-irsc.gc.ca/e/22630.html#F10>).

[Top](#)

Guidelines

General CIHR Policies

Successful applicants funded through this funding opportunity and any other persons working on the project must fully comply with the applicable [CIHR Funding Policies \(http://www.cihr-irsc.gc.ca/e/204.html\)](http://www.cihr-irsc.gc.ca/e/204.html).

Allowable Costs

Applicants should review the [Use of Grant Funds \(http://www.nserc-crsng.gc.ca/Professors-Professeurs/FinancialAdminGuide-GuideAdminFinancier/FundsUse-UtilisationSubventions_eng.asp\)](http://www.nserc-crsng.gc.ca/Professors-Professeurs/FinancialAdminGuide-GuideAdminFinancier/FundsUse-UtilisationSubventions_eng.asp) section of the Tri-Agency (CIHR, NSERC and SSHRC) Financial Administration Guide for a complete listing and description of allowable costs and activities.

Conditions of Funding

- The applicant must consent to the use and disclosure of full application and nominative information for relevance review and funding decisions at the time of application.
- The Nominated Principal Applicant will be required to submit an electronic Final Report to CIHR. This online report will be made available to the Nominated Principal Applicant on ResearchNet at the beginning of the grant funding period and can be filled in as the research progresses.
- The Principal Applicants who are successful in this competition are strongly encouraged to actively participate in peer review, and as members of the CIHR College of Reviewers, when invited.

[Top](#)

Review Process and Evaluation

Relevance Review Process

All CIHR Institutes involved in this funding opportunity will perform relevance review to identify applications that are in alignment with the [objectives](#) of the initiative.

Applications that are not deemed to be relevant will be withdrawn from the competition.

Review Process

For information on CIHR's peer review principles, see the [Peer Review: Overview \(http://www.cihr-irsc.gc.ca/e/39380.html\)](http://www.cihr-irsc.gc.ca/e/39380.html) section of CIHR's website.

Evaluation Criteria

To support the strategic objectives of this funding opportunity, the following evaluation criteria will be used.

1. Quality and Originality of the Proposal
 - a. Quality of the research proposal and proposed plan
 - b. Potential for the creation of new knowledge on the relationship between mechanisms in the biological processes of aging and the development of chronic conditions
 - c. Originality of the proposed research (including hypotheses/research questions addressed, methods and data analysis)
2. Applicant(s)
 - a. Appropriateness of applicant(s) to carry out the proposed research, in terms of complementarity of expertise and synergistic potential.
3. Impact of the Research
 - a. How significant are the anticipated impacts of the research
 - b. How significant are the anticipated potential clinical impacts
 - c. Appropriateness and adequacy of the proposed plan for knowledge dissemination and exchange including sharing experience regarding the geroscience approach

Funding Decision

Applications will be funded from the top down in order of ranking.

Partner and Internal Collaborator Participation

The opportunity to add new partners and internal collaborators to this funding opportunity may arise after publication of the Funding Opportunity. These partners and internal collaborators may not be listed; however, the principles that govern relevance review, including consent to share information, and funding decisions will still apply.

[Top](#)

How to Apply

- To complete your Full Application, follow the instructions in the [Grants - Application Guidelines \(http://www.cihr.gc.ca/e/50454.html\)](http://www.cihr.gc.ca/e/50454.html) along with any additional instructions found below under “Specific Instructions”.
- All application participants, with the exception of Collaborators, will require:
 - A [CIHR PIN \(http://www.cihr-irsc.gc.ca/e/38201.html\)](http://www.cihr-irsc.gc.ca/e/38201.html)
 - To complete the [Equity and Diversity Questionnaire \(http://www.cihr-irsc.gc.ca/e/50959.html\)](http://www.cihr-irsc.gc.ca/e/50959.html)

Specific instructions to complete your ResearchNet application

Task: Identify Participants

- Provide a Canadian Common CV for each of the participants.
 - A Biosketch CV is required for all participants with the exception of Collaborators.

Task: Enter Proposal Information

- The Research Proposal is limited to **10 pages**, not including references, charts, tables, figures and photographs. Please refer to the evaluation criteria to describe how the proposal addresses the objectives of this initiative.

Task: Complete Summary of Research Proposal

Task: Enter Budget Information

- In order to enhance networking with colleagues at the national and international levels, projects funded through this program are strongly encouraged to put aside up to \$5000 for up to two investigators to participate in an upcoming NIH Summit in Geroscience (place and date to be confirmed).

Task: Attach Other Application Materials (optional)

Task: Complete Peer Review Administration Information (optional)

Task: Print/Upload Signature Pages

[Top](#)

Contact Information

For all inquiries please contact:

CIHR Contact Centre

Telephone: 613-954-1968

Toll Free: 1-888-603-4178

Email: [support@cihr-irsc.gc.ca \(mailto:support@cihr-irsc.gc.ca\)](mailto:support@cihr-irsc.gc.ca)

For service hours, please consult our [Contact us \(http://www.cihr-irsc.gc.ca/e/9833.html\)](http://www.cihr-irsc.gc.ca/e/9833.html) page.

[Top](#)

Sponsor Description

Internal Collaborators

Canadian Institutes of Health Research (<http://www.cihr-irsc.gc.ca/>)

At the Canadian Institutes of Health Research (CIHR), we know that research has the power to change lives. As Canada's health research investment agency, we collaborate with partners and researchers to support the discoveries and innovations that improve our health and strengthen our health care system.

CIHR – Institute of Aging (IA) (<http://www.cihr-irsc.gc.ca/e/8671.html>)

IA's mandate is the aging person in an aging society, and the effects of different diseases and conditions on aging. Its goal is to improve the quality of life and health of older Canadians by understanding and addressing or preventing the consequences of a wide range of factors associated with aging. More details can be found under [research priorities \(http://www.cihr-irsc.gc.ca/e/46837.html\)](http://www.cihr-irsc.gc.ca/e/46837.html).

CIHR – Institute of Cancer Research (ICR) (<http://www.cihr-irsc.gc.ca/e/12506.html>)

ICR is dedicated to supporting research that reduces the burden of cancer on individuals and families through prevention strategies, screening, diagnosis, effective treatment, psycho-social support systems, and palliation. More details can be found under [research priorities \(http://www.cihr-irsc.gc.ca/e/22754.html\)](http://www.cihr-irsc.gc.ca/e/22754.html).

CIHR – Institute of Nutrition, Metabolism and Diabetes (INMD) (<http://www.cihr-irsc.gc.ca/e/13521.html>)

INMD supports research to enhance health in relation to diet, digestion, excretion, and metabolism; and to address causes, prevention, screening, diagnosis, treatment, support systems, and palliation for a wide range of conditions and problems associated with hormone, digestive system, kidney, and liver function. More details can be found under [research priorities](http://www.cihr-irsc.gc.ca/e/27308.html) (<http://www.cihr-irsc.gc.ca/e/27308.html>).

[Top](#)

Additional Information

References:


Brian K. Kennedy, Shelley L. Berger, Anne Brunet, Judith Campisi, Ana Maria Cuervo, Elissa . Epel, Claudio Franceschi, Gordon J. Lithgow, Richard I. Morimoto, Jeffrey E. Pessin, Thomas A. Rando, Arlan Richardson, Eric E. Schadt, Tony Wyss-Coray, and Felipe Sierra. Geroscience: Linking Aging to Chronic Disease. Cell 159, 2014, 709-713.

[Top](#)

[Search Again \(/rnr16/srch.do?view=search\)](#)

| [Back to Results \(srch.do?](#)

[incArc=true&next=1&org=CIHR&prog=2945&resultCount=25&terms=201811GER&type=EXACT&view=search&language=E&return=true\)](#)

[Print Preview](#)  ([vwOpprntyDtls.do?](#)

[incArc=true&next=1&org=CIHR&prog=2945&resultCount=25&terms=201811GER&type=EXACT&view=search&language=E&printfriendly=true\)](#)

| [Notify a Colleague \(notifyAColleague.do?prog=2945&progCtx=6098\)](#)

Date Modified:

2019-04-04