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Health Research

Instituts de recherche  
en santé du Canada

# The CIHR International Collaborative Research Strategy for Alzheimer Disease



# Some Facts ...



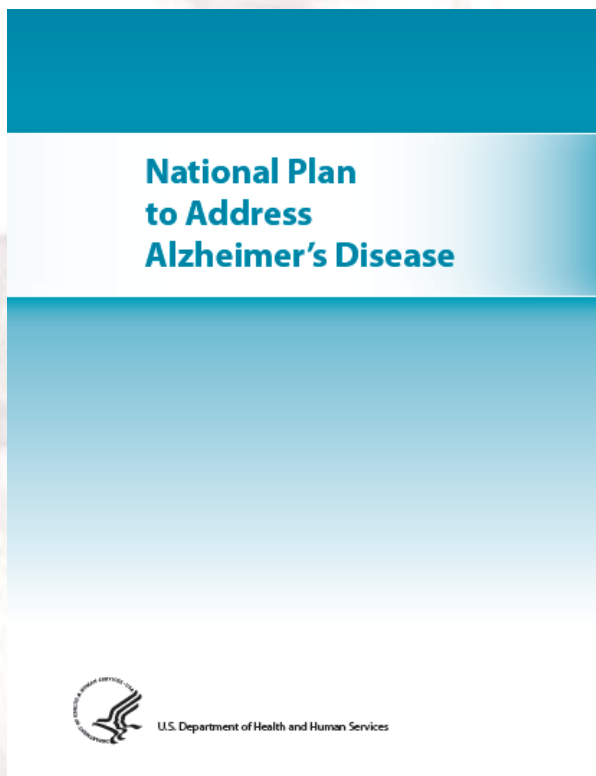


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# A Favourable International Context

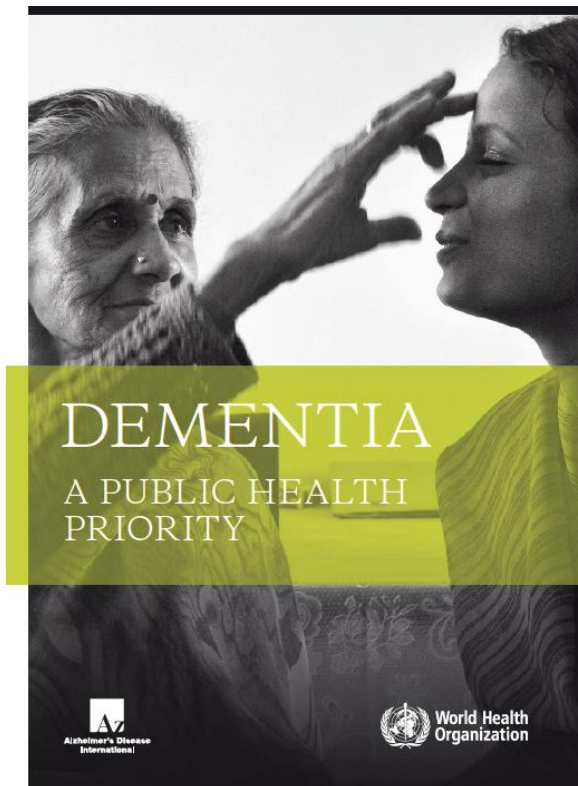
January 2012  
NAPA (USA)



February 2012  
JPND (Europe)



March 2012  
WHO

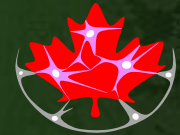




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# In a Nutshell ...



ICRSAD SIRCMA

International Collaborative  
Research Strategy for  
Alzheimer's Disease  
Stratégie internationale  
de recherche concertée  
sur la maladie  
d'Alzheimer

## The International Collaborative Research Strategy for Alzheimer's Disease

- Is one of CIHR's Roadmap Signature Initiatives
- Covers Alzheimer's Disease and related neurodegenerative disorders
- Focuses on two complementary objectives
  - Strengthen the Canadian innovative and collaborative research efforts on neurodegenerative diseases
  - Support international leadership and the insertion of Canadian research in international collaboration
- Timely given the international context (NAPA, JPND, WHO)
- Is advised by a CIHR Inter-Institute Advisory Group
  - IA and INMHA IAB members

# The General Concept

## Canadian Component



## International Component

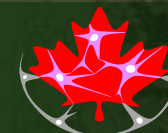


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# The General Concept



ICRSAD SIRCMA

International Collaborative Research Strategy for Alzheimer's Disease

Stratégie internationale de recherche concertée sur la maladie d'Alzheimer

**Collaborating with Asia**  
China (NSFC)

**Strengthening Canadian Research on AD**  
• Supporting innovative research conducted through collaborating expert cores

**Collaborating with European Union**  
Canada-France-Québec  
COEN/JPND

**Collaborating with USA**  
ADNI-2

# UK Neurodegenerative Initiative

ICRSAD is contributing a total of \$500,000 to the Cambridge Bristol Toronto Hamburg Neurodegenerative Disease Consortium for a project on the mechanisms of neurotoxicity of amyloid aggregates, led by Prof. Peter St George-Hyslop, Universities of Toronto and Cambridge.



With many contributors, being Wellcome Trust the major funder in this initiative

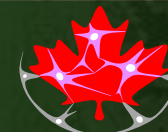


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# France-Canada-Quebec Initiative



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## ENTENTE FRSQ-INSERM-IRSC SUR LA MALADIE D'ALZHEIMER



Le Fonds de la recherche en santé du Québec (FRSQ), l'Institut national de la santé et de la recherche médicale de la France (Inserm) et les Instituts de recherche en santé du Canada (IRSC) ont signé le 4 juillet 2008 une entente de collaboration pour accélérer la recherche sur la maladie d'Alzheimer. On retrouve à la première rangée : M. Thierry Damerval, directeur-général adjoint de l'Inserm, Mme Marielle Gascon-Barré, présidente-directrice générale par intérim du FRSQ et M. Alain Beaudet, président des IRSC. À la deuxième rangée, on retrouve M. François Fillon, premier ministre de la France et M. Jean Charest, premier ministre du Québec.

4 juillet 2008

Canada



## Centres of Excellence in Neurodegeneration Research (COEN)



*Ministero della Salute*

Gemeinsam Lösungen finden

Finding solutions together

Trouver la solution ensemble

Scoprendo soluzioni insieme

Samen oplossingen vinden



Standards for determining the vascular contribution to neurodegeneration

Joanna Wardlaw (MRC), Martin Dichgans (DZNE), Eric Smith (CIHR)



Integrated approach to identify novel genes for frontotemporal lobar degeneration

Marc Cruts (VIB), Christian Haass (DZNE), Dieter Edbauer (DZNE)



Mitochondrial dysfunction and susceptibility to Parkinson's disease: New models of pathogenetic interactions

Donato A. Di Monte (DZNE), David S. Park (CIHR), Fabio Blandini (MDS), Anthony H.V. Schapira (MRC)



Early synaptic plasticity and network dysfunction in transgenic (tg) rat models of

Alzheimer's disease (AD)

Michael Rowan (HRB/SFI), Claudio Cuello (CIHR), Martin Fuhrmann (DZNE)



Immune subtype in Parkinson disease

Thomas Gasser (DZNE), Antonio P. Strafella (CIHR)



C. elegans models of mitochondrial deficiency in the nervous system

Daniele Bano (DZNE), Siegfried Hekimi (CIHR), Mario de Bono (MRC)



The GENetic Frontotemporal Dementia Initiative (GENFI): a new multi-centre platform

for the study of frontotemporal lobar degeneration

Martin Rossor (MRC), Giovanni B. Frisoni (MDS), Torik Ayoubi (VIB), Mario Masellis (CIHR)



Identification of generic suppressors of proteinopathies

David Rubinsztein (MRC), Joerg Gsponer (CIHR)

# China-Canada Team Grants (NSFC-CIHR)

## Round 1:

2010–11 CIHR-National Science Foundation of China Teams

- Joint RFA focused on common interests: Early detection, treatment, Prevention of AD and related diseases, Animal models, Biomarkers and imaging, genetics/epigenetics, Drug development, Vascular disease and clinical studies
- Three projects funded

## Round 2:

- Re-launch to support an additional two grants in 2012-2013
  - Animal Models
  - Brain Imaging and Biomarkers
  - Drug Development
  - Vascular Dementia
  - Clinical Studies

<b>Competition</b>	<b>201206TAD</b>
<b>Application Deadline</b>	2012-06-21
<b>Anticipated Notice of Decision</b>	2012-11-01
<b>Funding Start Date</b>	2013-01-01

# USA and International Component



ADNI-2 is a NIA-initiated international effort to standardize neuroimaging in ADRD, along with biological and clinical data

## Phase 1 - Integrating Canadian Centers in ADNI-2

- Supporting 5 Canadian Centers in North-American ADNI-2
  - 300 000 \$ per year for 5 years to 5 Canadian ADNI Centers
  - CIHR participation in the ADNI-2 Executive Committee as well as the Private Partner Scientific Board
- **Phase 2 – Supporting collaborative research on ADNI Data**
  - First program internationally to support the use of ADNI data bases
  - Secondary analysis and methodological research
  - \$700 k/y over 5 years

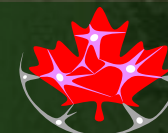


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# International Component



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Stratégie internationale de recherche concertée sur la maladie d'Alzheimer

Year	Program	# teams funded	CIHR \$	Total \$
2009	Wellcome Trust Neurodegeneration Program	1	500K	7.34M
2009	Team Grant: Alzheimer's Disease (France-Quebec-Canada)	5 (Includes Institute commitment)	1.37M	5.05M
2010	Centres of Excellence in Neurodegeneration	7	1.22M	5.66M
2011	Canada-China Team Grants in Alzheimer's Disease and Related Disorders	3	2.98M	4.30M
2012	ADNI Canadian Centers	5	1.5M	3.00M
2012	ADNI Secondary and Methodological Analyses	30	3.5M	3.5 M
2012	Canada-China Round 2	2	2.00 M	2.89M
<b>TOTAL</b>		<b>53</b>	<b>13.07M</b>	<b>31.74M</b>

## **CCNA**

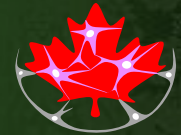
The Canadian Consortium on Neurodegeneration in Aging

### **The need for CCNA**

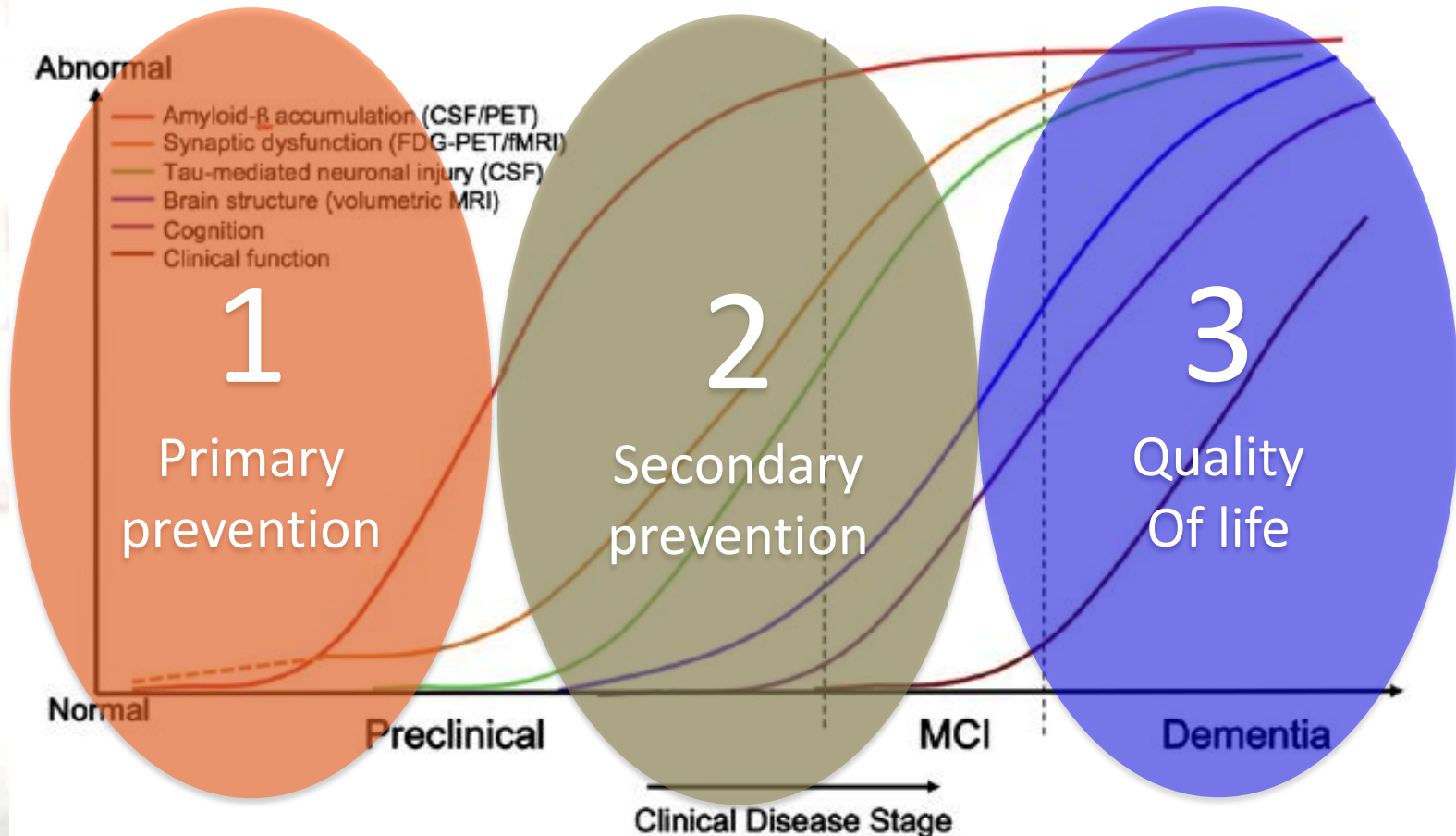
To support an integrated strategically-oriented consortium on Alzheimer's and related disorders in order to

- Strengthen and synergize Canadian innovative and collaborative research to face the challenge
- Become the Canadian landing strip for international collaborations
- Reinforce the international positioning and the impact at the global level

# ICRSAD Goals



*R.A. Sperling et al. / Alzheimer's & Dementia 7 (2011) 280–292*





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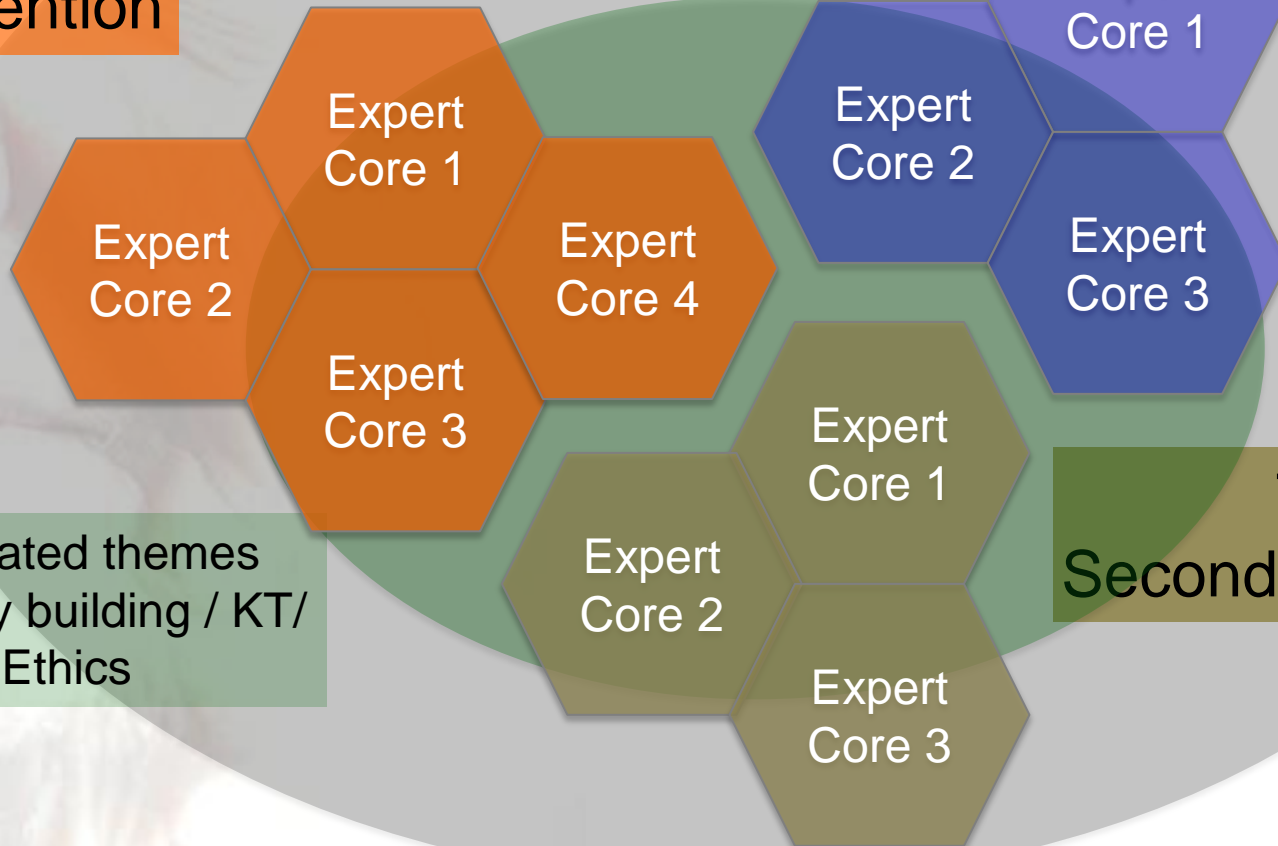
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# CCNA – Bringing Together Canadian Expertise

Theme  
Primary  
Prevention

Theme  
Quality of life

## CCNA



Theme  
Secondary Prevention

Integrated themes  
Capacity building / KT/  
Ethics





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# CCNA – Bringing Together Canadian Expertise

Consortium of  
expert cores





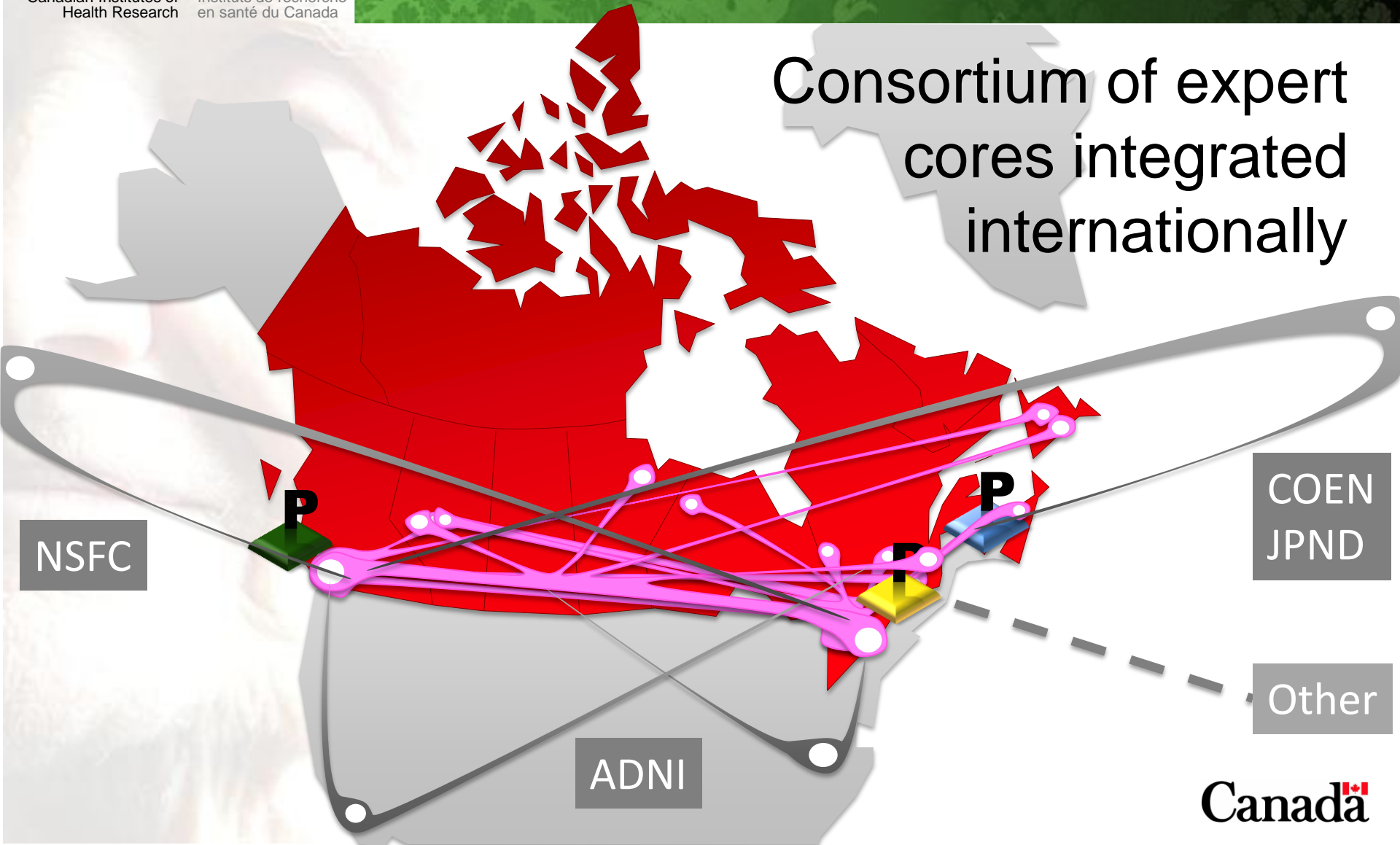
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# CCNA – Bringing Together Canadian and International expertise

Consortium of expert cores integrated internationally





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# CCNA – 5-year Targeted Budget (2013/14-2018/19)

Partners		
CIHR	ICRSAD	12.0 M\$
	CIHR Institutes	7.0 M\$
Donations	Private donors	25.0 M\$
	Matching Brain Canada	10.0 M\$
Foundations/Agencies	Provincial Agencies	7.0 M\$
Charities/Not for profits	All involved in neurodegeneration in aging having an impact on cognition	4.0 M\$
Industry	Minimally 5 partners @ 2,5 M\$ each	12.5 M\$
<b>TOTAL</b>		<b>77.5 M\$</b>

# IA – Current Strategic Initiatives

## Canadian Dementia Knowledge Translation Network

- Education and Training
- Information, education and tools

<http://www.lifeandminds.ca/>



The screenshot shows the website's navigation bar with links for LIFEANDMINDS.CA, MEDIA, RESEARCH, NEWS, EVENTS, and CONTACT. Below the navigation is a banner featuring a woman's face and the CDKTN logo, which includes a maple leaf and the text 'CDKTN Canadian Dementia Knowledge Translation Network' and 'www.lifeandminds.ca'.

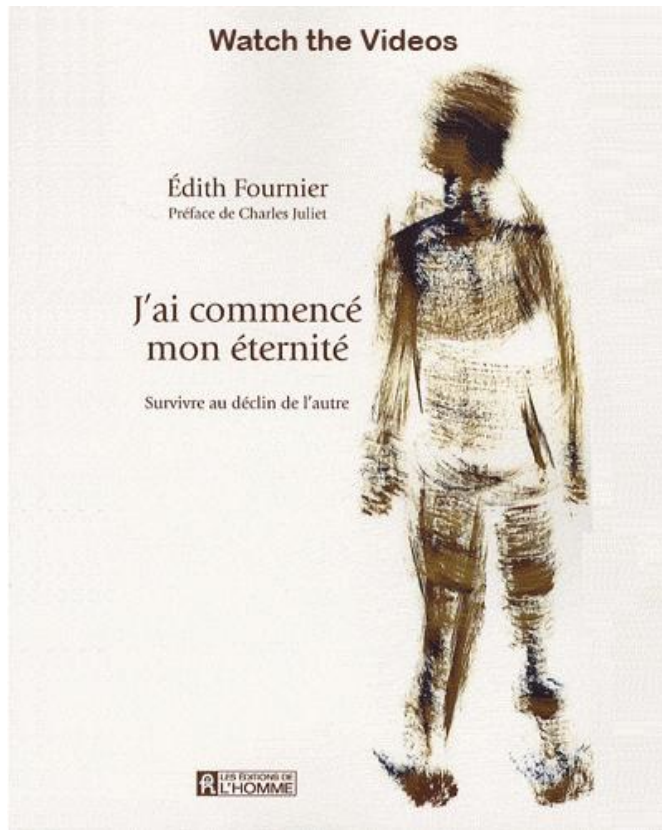
**ABOUT US:** Life and Minds is the web publication of the Canadian Dementia Knowledge Translation Network, or CDKTN. Established on March 31, 2008 through a 5-year CIHR grant, the CDKTN is a network for knowledge translation (KT) and exchange (KE) of research in Alzheimer's disease and dementia. In a nutshell, KT is the adaptation of research findings into effective treatments, services, and products. KE is collaborative information sharing and problem solving between researchers, caregivers, and policy makers.

**RECENT ARTICLES**

**Canadian Dementia Knowledge Translation Network Member Survey**  
 What are your thoughts on being a CDKTN member? Please take the time to answer our [survey](#).

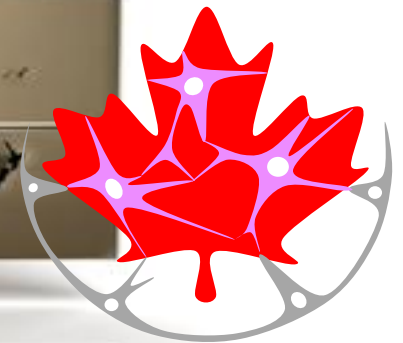
**Life and Minds User Survey**  
 We would appreciate if you would take the time to provide us with your feedback about Life and Minds. Please take the time to answer our [survey](#).

**World Alzheimer's Day**  
 The Canadian Dementia Knowledge Translation Network is proud to support world Alzheimer's Day.



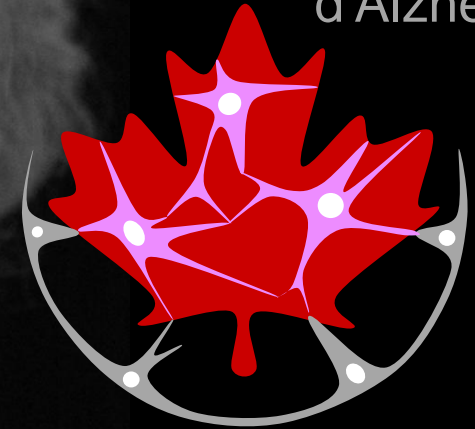


# CCNA: Bringing Together Canadian and International Expertise



Innovative Global Research Effort on  
Neurodegenerative Diseases in Aging  
Putting Canada on the Map

Stratégie internationale de  
recherche concertée  
sur la maladie  
d'Alzheimer



International  
Collaborative Research  
Strategy for Alzheimer's Disease

INNOVATIVE RESEARCH  
COLLABORATION  
IMPACT

RECHERCHE INNOVANTE  
COLLABORATION  
IMPACT