



## COEN Workshop on Neuroimaging of Neurodegenerative Disorders

Monday, November 22 – Tuesday, November 23, 2010

**Montreal Neurological Institute**  
3801 University Street  
**Amphitheatre de Grandpré**  
Montréal, Québec



*Ministero della Salute*

**COEN Workshop on Neuroimaging of Neurodegenerative Disorders  
Montreal Neurological Institute**

Amphitheatre de Grandpré, 3801 University Street, Montreal

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**Dear colleagues,**

We would like to thank you for accepting to participate in this workshop first sponsored by the Canadian Institutes of Health Research (CIHR), the Deutsches Zentrum für Neurodegenerative Erkrankungen (DZNE) and the Medical Research Council (MRC). This workshop is the result of a Memorandum of Understanding that was established and signed by the three parties in June 2010 in order to establish a collaborative funding initiative focused on neurodegenerative disorders, and Alzheimer's disease in particular. The present collaboration with MRC and DZNE was negotiated within the "CIHR – International Collaborative Research Strategy for Alzheimer's Disease (ICRSAD)" (<http://www.cihr-irsc.gc.ca/e/42103.html>).

This Canada-Germany-UK partnership aims to establish a cross-border network of Centres of Excellence in Neurodegeneration (COEN) Research, and is motivated by a shared understanding that the diagnosis, treatment and ultimate cure and prevention of these diseases requires a concerted research effort to better understand disease mechanisms, develop new therapies and conduct clinical trials to evaluate their effectiveness. Following the signing of the agreement, the three founding members – CIHR, DZNE and MRC – extended an invitation to other European countries to join the collaboration. Consequently, three additional partners have recently come on board: the Department of Economy, Science and Innovation (EWI Flanders, Belgium), Health Research Board (Ireland), and Ministry of Health (Italy).

The objective of this meeting is to explore joint definition of funding concepts relating to areas of common collaborative interest, and to agree on the specific funding process applicable to jointly funded pilot research projects. It is part of a two step process for the implementation of the initiative, involving expert workshops to scope the requirements, followed by a call for proposals to establish collaborative teams.

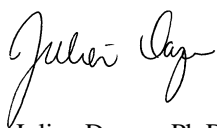
The specific questions to be addressed during the workshop include:

- What are the critical needs of the field (short and longer term)?
- What are the opportunities for progress?
- What are the barriers for progress?
- Do all areas of neurodegenerative disease share the same issues?
- What are the key questions / issues that are best answered by collaborative approaches?
- Are there any common resources or infrastructures that are needed to underpin the area?
- What should be the priorities/topics for funding under the pilot phase?
- Are there any requirements for standard procedures / guidelines?

The workshop will begin with an introduction to the CIHR- IRCSAD proposal and three “State-of-the-art” review talks on issues related to clinical imaging of neurodegenerative disorders with a focus on Alzheimer’s Disease. These presentations will be followed by a short description of national initiatives on neurodegenerative diseases by representatives of Germany, England, Belgium, Ireland and Italy, and by a series of roundtable discussions targeted to address the meeting objectives.

We look forward to meeting with you next week.

With best regards,



Julien Doyon, Ph.D.  
Scientific Director  
Functional Neuroimaging Unit  
University of Montreal



Alan Evans, Ph.D.  
James McGill Professor of Neurology  
McConnell Brain Imaging Centre  
Montreal Neurological Institute  
McGill University



Michael Borrie, MB ChB, FRCPC  
Professor, Division of Geriatric  
Medicine Department of Medicine  
University of Western Ontario

## COEN Workshop on Neuroimaging of Neurodegenerative Disorders

### PRELIMINARY PROGRAM

November 22, 2010

|                      |   |
|----------------------|---|
| <b>7:30 – 8:00</b>   | <b>Breakfast</b>  |
| <b>8:00 – 8:30</b>   | <b>Welcome, Introduction &amp; Workshop Objectives</b><br>Dr. Rémi QUIRION, CIHR-ICRSAD   |
| <b>8:30 – 10:00</b>  | <b>Presentations</b><br>Dr. Sandra BLACK, University of Toronto:<br><i>Update on Neuroimaging Biomarkers for Alzheimer's and Other Dementias: What, Why and When?</i><br><br>Dr. Yong HE, Beijing Normal University:<br><i>Recent Advances on Structural and Functional Neuroimaging in Alzheimer's Disease</i><br><br>Dr. Alan EVANS, McGill University:<br><i>Multi-Site Brain Imaging Networks for the Study of Neurodegenerative Disorders</i>  |
| <b>10:00 – 10:30</b> | <b>Refreshment break</b>  |
| <b>10:30 – 12:00</b> | <b>Overview</b> <ul style="list-style-type: none"><li>• <b>Germany</b> (15 min)<br/>Prof. Pierluigi NICOTERA, DZNE<br/><i>DZNE the German Centre for Neurodegenerative Diseases</i></li><li>• <b>United Kingdom</b> (15 min)<br/>Dr. Martin ROSSOR, Dementia Research Centre<br/><i>MRC Research Activity and Strategy in Neurodegeneration Research</i></li><li>• <b>Flanders Belgium</b> (15 min)<br/>Dr. Rik VANDENBERGHE, Leuven Centre<br/><i>COEN: Contributing Centres in Belgium-Flanders</i></li><li>• <b>Ireland</b> (15 min)<br/>Drs. Joshua BALSTERS and Richard REILLY, Trinity College Institute<br/><i>Combined EEG-fMRI and the Databasing of Young Onset Neurodegeneration</i></li><li>• <b>Italy</b> (15 min)</li></ul> |
| <b>12:00 – 13:00</b> | <b>Lunch</b>  |

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## PRELIMINARY PROGRAM

### November 22, 2010 (suite)

- 13:00 – 14:30**     **Round-Table Discussions**
- Critical needs of the clinical imaging field
  - Opportunities for progress
  - Barriers for progress
  - Key questions best answered by collaborative approaches
  - Common resources or infrastructure needed
- 14:30 – 15:00**     **Refreshment break**
- 15:00 – 17:00**     **Request for Application: Guidelines**
- Key research priorities to address under the pilot phase
  - Standard procedures / guidelines
  - Format for funding (one consortium, multiple projects)
- 19:00**                 Dinner at the Molivos Restaurant  
2310 Guy St., Montreal

### November 23, 2010

- 8:00 – 8:30**             **Breakfast**
- 8:30 – 9:00**             **Presentation of Areas for Further Discussion**
- Dr. Julien DOYON, Chair, Université de Montréal  
Dr. Michael BORRIE, Co-Chair, University of Western Ontario  
Dr. Alan EVANS, Co-Chair, McGill University
- 9:00 – 10:15**           **Round-Table Discussions**
- Key research priorities to address with possible extended budget
  - Standard procedures / guidelines
  - Format for funding (one consortium, multiple projects)
- 10:15 – 10:30**         **Refreshment break**
- 10:30 – 11:45**         **Round-Table Discussions**
- Key research priorities to address with possible extended budget
  - Standard procedures / guidelines
  - Format for funding (one consortium, multiple projects)
- 11:45 – 12:00**         **Summary and Next Steps**
- Dr. Rémi QUIRION, CIHR-ICRSAD
- 12:00 – 13:00**         **Lunch**

## COEN Workshop on Neuroimaging of Neurodegenerative Disorders

### PARTICIPANTS

|  |   |
|--|---|
| <b>Germany:</b>  | <b>United Kingdom:</b>                                      |
| <b>Monique BRETHER</b><br>DZNE   | <b>Gareth BARKER</b><br>King's College London               |
| <b>Emrah DÜZEL</b><br>University Medical Center Magdeburg                              | <b>Andrew BLAMIRE</b><br>Newcastle University               |
| <b>Harald HAMPEL</b><br>Goethe University  | <b>David BROOKS</b><br>Imperial College London              |
| <b>Hans-Jochen HEINZE</b><br>University Medical Center Magdeburg                       | <b>Martin ROSSOR</b><br>University College London           |
| <b>Arne HENGERER</b><br>Siemens  | <b>Andy SIMMONS</b><br>King's College London                |
| <b>Karl HERHOLZ</b><br>University of Manchester  | <b>Tarek YOUSRY</b><br>University College London            |
| <b>Bernd PICHLER</b><br>University Hospital Tübingen                                   | <b>Flanders Belgium:</b>                                    |
| <b>Jon SHAH</b><br>Research Centre Juelich   | <b>Rik VANDENBERGHE</b><br>Leuven Centre                    |
| <b>Oliver SPECK</b><br>University Magdeburg  | <b>Ireland:</b>   |
| <b>Stefan TEIPEL</b><br>University Rostock   | <b>Joshua BALSTERS</b><br>The University of Dublin          |
| <b>Jens WILTFANG</b><br>University Duisburg/Essen                                      | <b>Richard REILLY</b><br>The University of Dublin           |
| <b>Veronika ERMER</b><br>DZNE Representative   | <b>Italy:</b>   |
| <b>Sarah JEWELL</b><br>DZNE Representative   | <b>Fabrizio PIRAS</b><br>IRCCS Santa Lucia Foundation       |
| <b>Pierluigi NICOTERA</b><br>DZNE Representative                                       | <b>Gianfranco SPALLETTA</b><br>IRCCS Santa Lucia Foundation |
| <b>Other International:</b>  | <b>Other International:</b>                                 |
| <b>Bruno DUBOIS</b><br>Pitié-Salpêtrière - Groupement hospitalier<br>universitaire Est | <b>Yong HE</b><br>Beijing Normal University                 |



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### PARTICIPANTS

| Canada:  | Canada:  |
|--|--|
| <b>Julien DOYON, Chair</b><br>Université de Montréal             | <b>Howard CHERTKOW</b><br>McGill University            |
| <b>Michael BORRIE, Co-Chair</b><br>University of Western Ontario | <b>Simon DUCHESNE</b><br>Université Laval              |
| <b>Alan EVANS, Co-Chair</b><br>McGill University                 | <b>Anthony Randy McINTOSH</b><br>University of Toronto |
| <b>Robert BARTHA</b><br>University of Western Ontario            | <b>Jon STOESSL</b><br>University of British Columbia   |
| <b>Barry BEDELL</b><br>McGill University                         | <b>Marilyn DESROSIERS</b><br>CIHR Representative       |
| <b>Sylvie BELLEVILLE</b><br>Université de Montréal               | <b>Astrid EBERHART</b><br>CIHR-ICRSAD Representative   |
| <b>Sandra BLACK</b><br>University of Toronto                     | <b>Serge GAUTHIER</b><br>Special Advisor, ICRSAD       |
| <b>Richard CAMICOLI</b><br>University of Alberta                 | <b>Rémi QUIRION</b><br>CIHR-ICRSAD Representative      |
| Workshop Support Staff:  | Workshop Support Staff:                                |
| <b>Francine BÉLANGER</b><br>Université de Montréal               | <b>Colette PARÉ</b><br>Project Officer, CIHR-ICRSAD    |