



# McGill-RIKEN Partnership

*Strengthening Canada-Japan  
collaborations in science and technology*

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**McGill**

# McGill: An Overview

## One of the world's premier universities

- Founded in 1821
- Ranked 1st in Canada and 18th in the world
- 38,000 students and 1,600 full-time faculty
- 300 programs of study in 11 faculties and 11 schools
- More than 100 affiliated hospitals, networks, and research centres and institutes



# McGill: An Overview

## Driver of prosperity and innovation

- \$5.2-billion annually to the Quebec economy
- One of the largest patent portfolios of Canadian universities
- 260 inventions for licensing
- 40 active spin-off companies
- Culture of entrepreneurship
  - Strategic Research Plan
  - McGill University Business Engagement Centre
  - Quartier de l'Innovation



# McGill: An Overview

## Globally connected

- International faculty and student body
- 215,000 alumni in 180 countries
- \$11-million in foreign research funding
- 100 international MOUs
- Key collaborations
  - Neurosciences (UK and Switzerland)
  - Cancer research (Israel)
  - Food security (Kenya)
  - Sustainability and environment (India)



# McGill and Japan

## Strong, strategic relationship

- Collaborative research projects
  - Quantum information
  - Linguistics
  - Mathematics
  - Green chemistry
  - Nanotechnology
  - Life sciences and advanced materials
- 120 Japanese students at McGill
- 11 Japanese faculty members
- More than 600 McGill alumni in Japan



# McGill and RIKEN

## Milestones in a world-class collaboration

- 2004 – Collaborations in developmental biology
- 2009 – Discussions to expand partnership
- 2010 – First workshop on green chemistry and nanotechnology
- 2011 – Green chemistry and nanotechnology projects co-funded
- 2012 – Second joint workshop and expansion into life sciences
- 2013 – Third joint workshop on advanced biomedical sciences and partnership statement

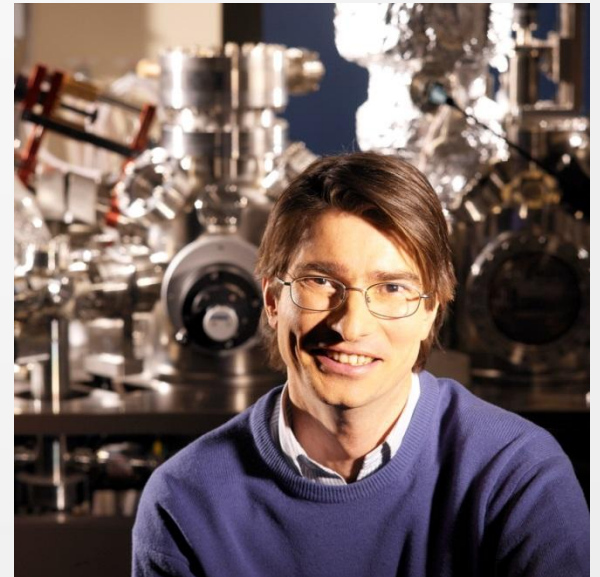




# McGill and RIKEN

## Selected preliminary outcomes

- 35 publications and presentations
- 32 visits and exchanges of researchers and students
- 5 external grants awarded or in development
- 1 patent
- 1 industry collaboration



# McGill and RIKEN

## Vision for a RIKEN-McGill Joint Centre

- Build on strengths in nanotechnology, green chemistry, and advanced biomedical sciences
- Hub for all McGill-RIKEN collaborations
  - Joint research projects
  - Researcher exchanges
  - Graduate student training
- Administrative framework for relationship
- Focus on innovation





# McGill and RIKEN

## **For Quebec industry, the McGill-RIKEN partnership is...**

- Establishing an environment conducive to R&D
- Pushing the province to the forefront of nanodevices, green chemistry, and innovative medical technologies
- Extending the frontiers of science
- Generating innovative solutions to societal challenges





To the seminar participants...

Thank you

Merci

ありがとうございます。