OpenScience

McConnell Brain Imaging Centre (BIC)
Neuroimaging & Neuroinformatic Research Group
Director: Julien Doyon, Ph.D., FRSC, FCAHS
McConnell Brain Imaging Centre (BIC)
Faculty members (n=31)

U. Anazodo  D. Arnold  S. Baillet  A. Bernasconi  N. Bernasconi  B. Bernhardt  D. Bzok  X. Chai  J. Cléry  L. Collins
B. Misic  S. Narayanan  J.B. Poline  P. Rosa-Neto  D. Rudko  A. Shmuel  D. Small
J.P. Soucy  N. Spreng  C. Lucas Tardif  S. Villeneuve  R. Zatorre

#OpenScience
McConnell Brain Imaging Centre (BIC)

Who we Are:

▪ One-of-a-kind multidisciplinary, fully research-dedicated, regional neuroimaging centre.

▪ Group of researchers with interests covering a wide spectrum of neuroimaging and neuroinformatics scientific domains.

▪ Experts in the study of the healthy brain as well as neurological and psychiatric conditions.

▪ Leaders in various local, national and international neuroimaging initiatives.

▪ Developers of multimodal data pre-processing, analysis and visualization tools, as well as neuroinformatic platforms allowing data sharing and the promotion of Open Science.
McConnell Brain Imaging Centre (BIC)

Infrastructure: 7 Platforms

1. Human MRI Unit: Siemens 3T
2. Pre-clinical MRI Unit: Siemens 7T Terra
3. PET Unit: Siemens HRRT
4. PET/7T MRI Insert: Cubresa μ-PET Insert
5. Radiochemistry Unit: IBA Cyclotron
6. MEG Unit: CTF 275 channels
7. Neuro-Informatic Unit: Helium Recycler

Planned upgrades at the BIC:
- IBA Cyclotron: Kiube
- Radiochemistry laboratories

√ = Newly funded equipment
McConnell Brain Imaging Centre (BIC)
Unique Infrastructure: Translational Research

Human MRI Unit
1. Siemens 3T

PET Unit
2. Siemens HRRT
First IR&T Ultra-High Resolution Worldwide

Radiochemistry Unit
3. IBA Cyclotron Laboratories

MEG Unit
4. CTF 275 channels
5. Helium Recycler

Neuro-Informatic Unit
6. Liquid Helium Plant (LHeP)

Planned upgrades at the BIC
7. IBA Cyclotron: Kiube Radiochemistry Laboratories

Pre-clinical
8. Siemens 7T Terra
9. PET/7T MRI Insert
10. Bruker 9.4T/30
11. Cubresa μ-PET Insert

√ = Already funded
McConnell Brain Imaging Centre (BIC): A Few Statistics 2018 - 2022

- HQP (n=25)
- Total Nb of Users (n=107)
  - McGill Internals = 71
  - External Institutions = 36 +CRU
- Avg.: > 60 PI’s/year
  - From The Neuro, McGill & Other Institutions
- Avg.: 4,149 hours
  - Scans / Year (without 2020-2021)

Average number of trainees/year

<table>
<thead>
<tr>
<th>Undergraduates</th>
<th>M Sc/Ph.D</th>
<th>Postdocs</th>
<th>Lab staffs</th>
</tr>
</thead>
<tbody>
<tr>
<td>49</td>
<td>130</td>
<td>53</td>
<td>98</td>
</tr>
</tbody>
</table>

Total new grant funding/year awarded to BIC Faculty as PI or co-PI: Avg. $28.5M/year from 2018-2022.

<table>
<thead>
<tr>
<th>Year</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$16,571,806</td>
<td>$31,164,968</td>
<td>$28,774,634</td>
<td>$48,253,518</td>
<td>$17,608,285</td>
</tr>
</tbody>
</table>

Publications: Total = 1659 papers 2018-2022); Avg. 332/year