

**McGill Pathology
Department:
Research committee**

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Together we have strongly reinforced the departmental research program

- **Critical mass of highly successful research programs**
- **Well-funded research labs at several sites, supported by three Pathology cores**
- **Track record of high impact publications**
- **Research fully embedded in the Pathology residency curriculum**
- **Good connection between the graduate and post-graduate Pathology programs**
- **New generation of enthusiastic and brilliant pathologists/scientists recently recruited in the department**



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Critical mass of successful research programs (≈ 10)

- **GI pathology: led by Zu-hua Gao, Alex Griegorief**
- **GU pathology: led by Fadi Brimo**
- **HPV-related cancer: led by Alex Ferenczy, Eduardo Franco**
- **Molecular Pathology (research): led by Alan Spatz, Leon van Kempen,**
- **Neuropathology: led by Jason Karamchandani, David Haegert**
- **Ocular pathology: led by Miguel Burnier**
- **Ovarian cancer: led by Carlos Telleria**
- **Pulmonary pathology: led by Carolyn Baglole**
- **Respiratory diseases: led by Qutayba Hamid**
- **X chromosome and Cancer: led by Alan Spatz, Leon van Kempen**
- **Research programs from associate members (Morag Park, etc)**



Research labs at several sites, 3 research pathology cores

➤ Labs:

- Meakins-Christie (Respiratory diseases)
- X chromosome and Cancer
- Morag Park's lab (GCC)
- Henry C. Witelson (Ocular Pathology)
- Dr Telleria's lab (ovarian cancer)
- Dr Haegert's lab (neuro)
- Drs Gao's/ Griegorief's lab (GI)

Duff building

Burning issue:

Sustainment of the Pathology central research facility at the Duff



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Research labs at several sites, 3 Pathology cores

➤ Core facilities:

- **Molecular Pathology Center at the JGH (research)**
- **RI Pathology core: Carolyn Baglole**
- **LDI Pathology core: Naciba Benlimane**
- **(MNI cores; molecular genomics at the Glenn site)**

Actions to take:

- **To reinforce the integration of the MPC in the McGill Pathology department community (research)**
- **To better connect Pathology cores, with synergies to build**

Track record of high impact publications

➤ Overall, good metrics (2015):

- 88 publications,
- Mean IF: 5.5
- Mean n: 2.8
- Include (2016) Science TM, NEJM, Nature Medicine, PNAS, Nature Communications

➤ Publications by residents (2015-2016):

- >15, often in good journals (IF>5)
- In Science TM and NEJM

Research is integrated in the residency curriculum

- **Several residents successfully involved in a graduate program:**
 - **Funding mechanisms exist**
- **Research is a mandatory part of the Molecular Pathology rotation**
- **All residents can have a research project:**
 - **Direct interactions between residents and Faculty members**
 - **One-page research project to send to the PD or research coordinator**

Actions to take:

- **Academic mentorship for each resident**
- **Discussion with research coordinator, PD, residents**

Successful recruitment

- **New generation of enthusiastic and brilliant pathologists/scientists recently recruited in the department**

Actions to take:

- **To implement an academic/professional mentorship policy+++**
- **Connect recent recruits to existing research labs and/or cores**
- **Effective strategy to get more tenure-track positions**
- **Endowed research positions**

Conclusion

- **Thanks to all of you, the research dynamics and integration in the Pathology department have been strongly reinforced**
- **The McGill Pathology Research Center will be created:**
 - **Consolidation of the Pathology research environment at the Duff**
 - **Virtuous circle: reputation - funding - students**
 - **Synergistic network of research resources in the Pathology department**

Conclusion (cont'd)

- **Transformational change environment imposed by OPTILAB will also positively impact the Department academic activities**

Thanks to the research committee members!

- Dr Fadi Brimo
- Dr Miguel Burnier
- Dr Zu-hua Gao
- Dr Qutayba Hamid
- Dr David Haegert
- Dr Carlos Telleria
- Dr Leon van Kempen
- Dr Edith Zorychta