

# Clinical Investigator Program

## Faculty of Medicine and Dentistry

Surgical Research Retreat  
Department of Surgery  
September 11, 2018





# Disclosure

- **Faculty:**

- Michael Sean McMurtry, MD PhD FRCPC CIP
- Program Director, Clinical Investigator Program, University of Alberta

- **Meeting:**

- Department of Surgery – Surgical Research Retreat
- September 11, 2018 – Glacier Room at the Lister Centre

- **Relationships with commercial interests:**

- Grants/Research Support: None
- Speakers Bureau/Honoraria: None
- Consulting Fees: None
- Other: None

# Clinical Investigator Program Goal:

*To educate physicians and surgeons towards an independent career combining clinical practice and research*

# Clinical Investigator Program

- An accredited post-graduate medical education program of the Royal College of Physicians and Surgeons of Canada (since 1995).
- A formal residency program open only to medical graduates enrolled in other RCPSC subspecialty training programs.
- Flexibly incorporates formal health research training in utilizing existing post-graduate training programs.
- Leads to the distinction CIP.

# University of Alberta CIP Program

- Championed by Dr. Jody Ginsberg
  - MD, GIM - University of Toronto
  - Endocrinology - University of Alberta
  - MRC Research Fellow in Cardiff
  - Clinician Scientist with expertise in Thyroid Disease at the University of Alberta (1983-2009)
- Started Enrollment in 2004



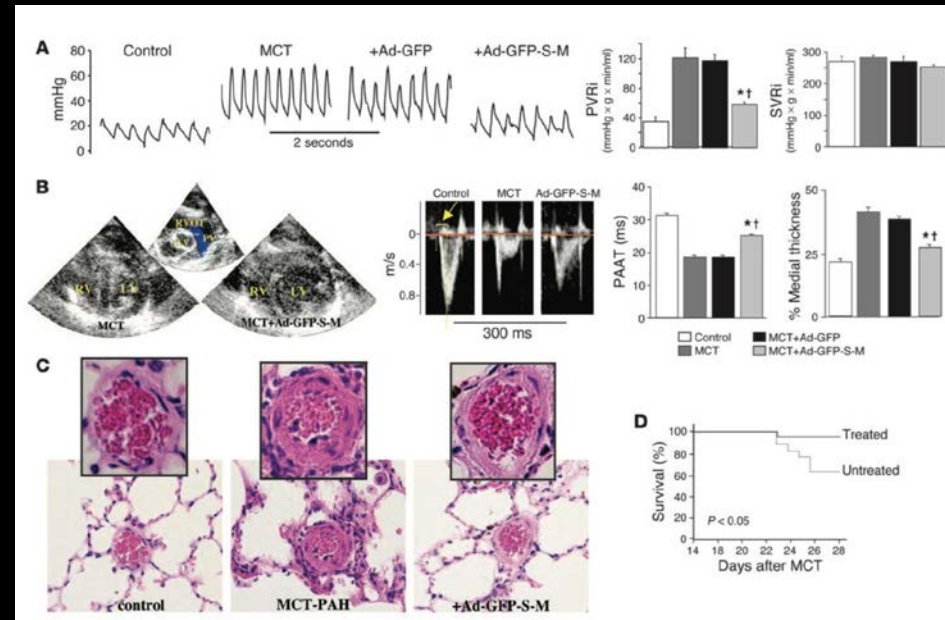
# Gene therapy targeting *survivin* selectively induces pulmonary vascular apoptosis and reverses pulmonary arterial hypertension

M. Sean McMurtry,<sup>1</sup> Stephen L. Archer,<sup>1</sup> Dario C. Altieri,<sup>2</sup> Sebastien Bonnet,<sup>1</sup> Alois Haromy,<sup>1</sup> Gwyneth Harry,<sup>1</sup> Sandra Bonnet,<sup>1</sup> Lakshmi Puttagunta,<sup>3</sup> and Evangelos D. Michelakis<sup>1</sup>

<sup>1</sup>The Vascular Biology Group and Pulmonary Hypertension Program, University of Alberta, Edmonton, Alberta, Canada.

<sup>2</sup>Department of Cancer Biology and the Cancer Center, University of Massachusetts Medical School, Worcester, Massachusetts, USA.

<sup>3</sup>Department of Pathology, University of Alberta, Edmonton, Alberta, Canada.



McMurtry et al. *J Clin Invest.* 2005 Jun;115(6):1479-91

First Graduate 2006 – McMurtry MS (PhD, Department of Medicine)

# Current Program

## 3. 018-2020 CIP Residents

BOZSO, Sabin (Cardiac Surgery)	18-20	Ministry
GRANT, Chantelle (GNSG)	18-20	Ministry
MACDONALD, Andrew (GNSG)	18-20	Ministry
MOCANU, Valentin (GNSG)	18-20	Ministry
ROBERTSON, Emile (Plastic Surgery)	18-20	Ministry
SKUBLENY, Daniel (GNSG)	18-20	Ministry

## 4. 2017-2019 CIP Residents

DANG, Jerry (GNSG)	17-19	Ministry
NOSTEDT, Jordan (GNSG)	17-19	Ministry
BEVERIDGE, Julie (Plastic Surgery)	17-19	NACTRC
GOPLIN, Michael (Ortho)	17-19	Ministry
BUCHKO, Max (Cardiac Surgery)	17-19	Ministry
SARAVANA-BAWAN, Bianca (GNSG)	17-19	Ministry
DENSKY, Ashley (Obs/Gyne)	17-19	Ministry
JENSEN-STAFFORD, Shawna Marie (Obs/Gyne)	17-19	Ministry

## 5. 2016-2018 CIP Residents

SENGER, Jenna-Lynn (PGY2) – Plastic Surgery	16-18	Ministry
RUDZINSKI, Jan (PGY2) – Urology	16-18	Ministry
DINAKARAN, Deepak (PGY2) – Radiation Oncology	16-18	Ministry
HOPKINS, Jessica (PGY2) - GNSG	16-18	Ministry
LAW, Brenda (PGY5) – Neonatal-Perinatal Medicine	16-18	Ministry
LEES, Mackenzie (PGY3) – GNSG	16-18	Ministry

## Past CIP Residents Progress Updates

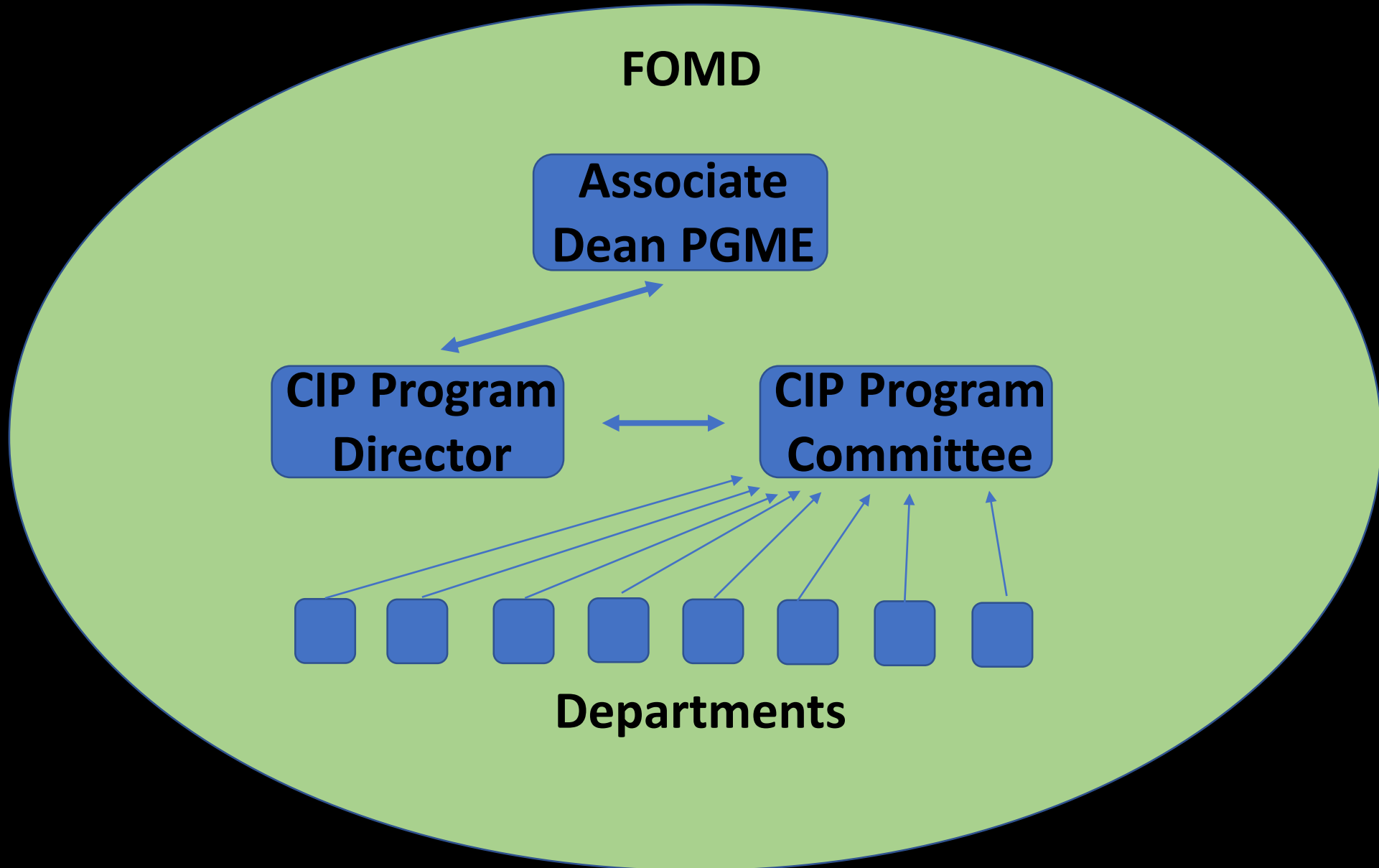
Dr. Cameron Elliot (13-15) -	Defending PhD in September
Dr. Adam Kinnaird (13-15) -	Successfully defended, graduating spring 2018
Dr. David Lim (12-14) -	Defended May 2016 and graduated October 2016
Dr. Michael Laffin (14-16) -	Successfully defended PhD in 2018

# Advantages

- Formal research training
  - Master's of Science, Doctor of Philosophy, etc.
- Economic advantage
  - Funding for research training
  - Lower opportunity cost
- Dedicated research time
  - Expected 80% time should be research related
- Identity
  - Receive a certificate of completion from the RCPSC
- Positioned for success
  - research training credentials and practical research experience
  - Competitive for subsequent subspecialty fellowships or for jobs



# Structure



# National Landscape

- RCPSC Clinician Investigator Program Advisory Committee oversees 14 CIP programs nationally
- University of Alberta was accredited in 2017-2018
- Clinician Investigator Program Advisory Committee meets biannually
  - Once in Ottawa
  - Once in conjunction with the CSCI annual meeting

July 23, 2018

**CONFIDENTIAL**

Dr. Ramona Kearney  
Associate Dean; Post Graduate Medical Education  
Faculty of Medicine and Dentistry  
University of Alberta  
2-76 Zeidler Leduc Centre  
130 University Campus N.W.  
Edmonton AB T6G 2X8

**RE: Regular Accreditation Review of the Residency Program in Clinician Investigator Program - University of Alberta**

Dear Dr. Kearney:

The following is the decision of the Residency Accreditation Committee with respect to the above named program. In making this decision, careful consideration was given to the pre-survey questionnaire, the accreditation report and recommendation of the survey team, the program response to the accreditation report, and the recommendation of the Specialty Committee.

<b>Category of Accreditation</b>	Accredited Program
<b>Follow-up</b>	Regular Accreditation Review in 2025  <i>Accreditation is based on the standards (and process) in effect 12 months in advance of the applicable deadline. In this case, as the follow-up deadline follows full implementation of the new (CanERA) accreditation system on July 1, 2019, the CanERA accreditation standards and process will apply.</i>

<b>Strengths of the Program</b>	<b>Reference to Standard</b>
1. Dedicated and respected program director, who is a resident advocate.	B1.1
2. Very well organized and highly supportive program administrator.	B1.1
3. High quality of research environment and scholarship with attendant large repertoire of high quality supervisors and projects.	B1.6
4. Flexibility in the program for individualizing training and modifying research work to tailor to their line of inquiry.	B3.6

<b>Weakness of the Program</b>	<b>Reference to Standard</b>
1. Inadequate resources to support the website which is key to recruitment.	B4.5

Prior to the next regular accreditation review, the program is expected address the weakness listed above.

If you have any questions, please contact the Educational Standards Unit at [accredadmin@royalcollege.ca](mailto:accredadmin@royalcollege.ca) or by phone 1-800-668-3740 or 613-730-8177.

Sincerely,



Sarah Taber, MHA/MGSS  
Associate Director, Education Strategy and Accreditation  
Royal College of Physicians and Surgeons of Canada

c.c. Dr. Richard Fedorak, Dean, Faculty of Medicine & Dentistry  
Dr. Shirley Schipper, Vice-Dean, Education  
Dr. Parveen Wasi, Chair, Royal College Residency Accreditation Committee  
Dr. Michael Rieder, Chair, Specialty Committee

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CSCI

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## Awards

- CSCI-CIHR Resident Research Awards
- Joe Doupe Young Investigator Award
- CSCI Distinguished Service Award
- CSCI Distinguished Scientist Lecture and Award
- The Henry Friesen Award and Lecture (CSCI/RCPSC)

<http://www.csci-scrc.ca>

# Current Challenges - Internal

1. Administrative
  - University of Alberta CIP Program Website
2. Increasing CIP utilization across FOMD
3. Funding
  - Number of spots
  - PhD funding issue
  - PGY advancement
4. Training Pathways
  - PhD
  - Postdoctoral fellows
  - Supporting different training timelines

# Current Challenges - External

1. External engagement
2. Career Planning in a constrained environment
3. Availability of operating funds
4. Competence by Design

# Competence by Design (CBD)

- Competence by Design (CBD) breaks training down into several different stages.
- Each stage has its own entrustable professional activities (EPAs) and milestones.
- RCPSC National CIP Advisory Committee will be designing CIP curricula including EPA's

# Entrustable Professional Activities

- EPAs are authentic tasks of a discipline. A supervisor can delegate a task to a resident and observe their performance in the workplace. Overtime, frequent observations of a trainee's performance of an EPA, will provide a comprehensive image of their competence and inform promotion decisions.
- Royal College EPAs are related to each stage of training (transition to discipline, foundations of discipline, core of discipline, transition to practice).
- EPAs are designed to be developmental — they go from smaller tasks to bigger tasks as trainees progress through stages of training.



# Milestones

- Milestones provide learners and supervisors with discrete information about the relevant skills of the discipline.
- Milestones that have been linked to an EPA are the individual skills that are needed to perform that task.

# Clinical Investigator Program Goal:

*To educate physicians and surgeons towards an independent career combining clinical practice and research*

# CIP Program Website



<https://www.ualberta.ca/medicine/programs/residency/postgraduateprograms/clinician-investigator-program>

# Faculty of Medicine & Dentistry

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### Clinician Investigator Program (CIP)

## Welcome to the University of Alberta Clinician Investigator Program

The Clinician Investigator Program is a RCPSC accredited program where postgraduate medical trainees looking to obtain either their MSc or PhD can begin their careers with a well-rounded research background and connections firmly established in a highly competitive environment.

This page includes links to help you understand if the program is right for you, the application process, funding resources, and a news section highlighting the successes of our past and future graduates.

A message from the Director:

Content Coming Soon

[CONTACT CIP](#)

Professionalism is a priority 



We believe professional behaviors should be commended and support safe processes in reporting professionalism lapses.

The Office of Professionalism wants to help:

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[▶ Submit an accolade](#)

[▶ Submit an incident](#)

# CIP Program Contact Information

Nicole Sutton, CIP Program Administrator



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Edmonton, AB, T6G 2X8

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F: 780-492-4144

Email: [pgcip@ualberta.ca](mailto:pgcip@ualberta.ca)

# Key Messages

1. CIP program offers many advantages to those residents seeking formal research training to become clinician investigators.
2. The UofA CIP program has many advantages, but can yet improve.
3. CIP program information is available on the website



# Questions?



Sean McMurtry

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780-407-2799