

## DMNB QUARTERLY REPORT (RESEARCH)

**Q2: July – September 2019**

### RESEARCH

#### General Update

The July to September 2019 quarter was another highly successful one for the DMNB Research Department – particularly regarding funding. Within the last three months, our team of principal investigators **brought in a whopping \$1,283,400** for various projects!

In more exciting news, Dr. Tony Reiman (Assistant Dean Research, DMNB) filed a Canadian National Phase patent application on 29 August 2019 with Dr. Alli Murugesan and Dr. Mohamed Touiabia for their “Composition and Methods for Inhibiting Blood Cancer Cell Growth.”

#### Metrics

##### Funding Awarded to Principal Investigators (PIs)

In July, Dr. Thomas Pulinilkunnil secured **\$100,000 in funding** through the Dalhousie Medical Research Foundation’s 2019 Molly Appeal for an interdisciplinary team grant on “Understanding and Treating Heart Failure: Novel Mechanisms, Diagnostics, and Potential Therapeutics.”

In August, Dr. Tony Reiman and Dr. Alli Murugesan together with Dr. Shane Nason, Dr. Mohamed Touiaibia, and Dr. Brennan Sisk brought in **\$4,874.65 in patent and legal funding** for their “Developing Novel Anti-Blood Cancer Drug Candidates” through the Springboard Innovation Mobilization Program.

Also in August, Dr. Keith Brunt brought in **a little over \$1.1 million in funding** for two projects that focus on heart disease in women: “Understanding the Cellular and Molecular Mechanisms Regulating a Novel and Sexually Dimorphic Cause of Diastolic Dysfunction” and “Enriching the Real-World Evidence Database for Cardiovascular Health in New Brunswick.”

The first, funded by the Heart & Stroke Foundation of New Brunswick, the New Brunswick Research Foundation, and the Canadian Institutes of Health Research for **a total of \$908,526**, will see Dr. Brunt working with co-principal investigator Dr. Jeremy Simpson and co-investigators Dr. Jean-François Légaré, Dr. Anthony Gramolini, and Dr. George Kararigas.

The second, funded by the Servier Canada/New Brunswick Health Research Foundation Cardiovascular Health Improvement Fund (CHIF) **for \$270,000**, will see Dr. Brunt working with co-principal investigators Dr. Sohrab Lutchmedial, Dr. Ansar Hassan, and Dr. Jean-François Légaré.



## Principal Investigator (PI) Peer-Reviewed Publications

Between July and September 2019, four DMNB Principal Investigators saw their work published:

1. **Dr. Dan Dutton**

- a. Dutton DJ. Marital Status of Those in Poverty. *Social Policy Trends*. <https://www.policyschool.ca/wp-content/uploads/2019/06/Social-Policy-Trends-AB-Deep-Pov-Dutton.pdf>

2. **Dr. Petra Kienesberger and Dr. Thomas Pulinilkunnil**

- a. Editorial: Novel Concepts in Cardiac Energy Metabolism: From Biology to Disease. Pulinilkunnil T, Kienesberger P, Nagendran J. *Front Cardiovasc Med*. 2019 Jul 12;6:97. doi: 10.3389/fcvm.2019.00097. eCollection 2019. No abstract available.
- b. Editorial: Novel Concepts in Cardiac Energy Metabolism: From Biology to Disease. Pulinilkunnil T, Kienesberger P, Nagendran J. *Front Cardiovasc Med*. 2019 Jul 12;6:97. doi: 10.3389/fcvm.2019.00097. eCollection 2019. No abstract available.

3. **Dr. Thomas Pulinilkunnil**

- a. Role of branched-chain amino acid-catabolizing enzymes in intertissue signaling, metabolic remodeling, and energy homeostasis. Biswas D, Duffley L, Pulinilkunnil T. *FASEB J*. 2019 Aug;33(8):8711-8731. doi: 10.1096/fj.201802842RR. Epub 2019 May 14.

4. **Dr. Tony Reiman**

- a. Large painful lactating adenomas effectively treated during pregnancy with bromocriptine. Mendez MA, Jones KM, Reiman TR, Kremer HL, Ahmadiyah N. *Breast J*. 2019 Sep;25(5):974-976. doi: 10.1111/tbj.13380. Epub 2019 Jun 4.