

Senate Research Report

February 27, 2018



News

Strategic Research Plan Renewal

The Queen's Strategic Research Plan (SRP) is a foundational governing document that supports and guides the institutional research mission. The Advisory Writing Group has received an initial draft of the 2018 SRP, along with the members of the Senate Advisory Research Committee. Consultation on the SRP research themes and sub-themes is proceeding with many groups across campus. Open discussion regarding the SRP was scheduled for two Town Hall sessions on February 12 and 13, where the university community heard updates from the Vice-Principal (Research) on the progress of the SRP, and were invited to provide their insight on research at Queen's.

Following further feedback from multiple sectors, a Committee of the Whole session will be held at the February Senate meeting to discuss the proposed themes. A penultimate version of the full SRP will be presented to Senate in March, with an accompanying Notice of Motion. The current process timeline anticipates a final draft to be completed for Senate in April 2018.

Innovation Superclusters

It is anticipated that the outcome of the [Innovation Superclusters Initiative](#) (ISI) will be known by the February Senate meeting. The ISI enables industry, in consortia with universities and other innovation partners, to apply for \$125-250M in seed funding to support innovation superclusters, and up to \$950M over five years (2018-2023) will be allocated. The ISI will allocate a small number of high-value, strategic investments to industry-led consortia. While universities are not intended to be lead applicants in a supercluster, applications must include participation of at least one post-secondary institution. Queen's provided letters of support for seven proposed superclusters, and three of the proposals were accepted for full applications, which are in the areas of clean mining and land remediation, advanced manufacturing, and mobility systems and technologies. It is anticipated that up to five innovation superclusters will qualify for federal investment.

Faculty Recognition and Awards

Dr. Stéfanie von Hlatky has been admitted into the Global Young Academy (GYA). As a member-based organization with members from over 50 countries and on all 6 inhabited continents, GYA members are selected from leading scientists and scholars across all disciplines who are also committed to the promotion of knowledge and the community of young researchers in the broadest sense.

Public Lectures: Prizes for Excellence in Research

The annual Prizes for Excellence in Research Public Lectures will occur on April 3, 6:30 – 8:30pm in the Biosciences Complex Atrium. The Prizes for Excellence in Research are Queen’s highest form of recognition for research excellence.

This year, the speakers will be:

- Dr. Denis O’Donnell, Department of Medicine (Health Sciences)
- Dr. Sam McKegney, Department of English Language and Literature (Humanities)
- Dr. Pascale Champagne, Department of Civil Engineering (Engineering)
- Dr. Cathleen Crudden, Department of Chemistry (Natural Sciences)
- Dr. Liying Cheng, Faculty of Education (Social Sciences)

Research Funding

Researcher	Department	Project Title	Amount
Canadian Medical Foundation			
Duffy, Anne	Psychiatry	Predicting the onset of bipolar disorder: A longitudinal high-risk study	\$10,000
Canadian Institutes of Health Research			
Levesque, Lucie	School of Kinesiology and Health Studies	Community Physical Activity Resources for All: the COMUDE Model for Enhancing Physical Activity among Mexican Youth	\$19,996
Miller, Jordan	School of Rehabilitation Therapy	Developing a stakeholder endorsed methodology to measure the outcome of pain education in Canadian physiotherapy programs	\$10,000
Moore, Kieran	Family Medicine	Building research capacity to reduce the burden of Lyme disease in Canada - Developing a research strategy	\$30,000
Sharma, Sanjay	Ophthalmology	Diabetes eye disease screening recommendation (Multimedia tools)	\$14,500

Sharma, Sanjay	Ophthalmology	Visual Distortion - An educational update on how to manage a patient with Macular Degeneration	\$19,998
Velez, Maria	Obstetrics and Gynaecology	The FERTILE network (FERTility therapy and its impact on Long-term health Events)	\$15,000
Foundation for Advancing Family Medicine			
Purkey, Eva	Family Medicine	Global Health	\$2,500
Mitacs			
Fam, Amir	Civil Engineering	Investigation of Thermal Bowing in UHPC Precast Double Sythe Wall Panels	\$45,000
Kontopoulou, Marianna	Chemical Engineering	Exfoliation of graphite within polypropylene compounds by melt compounding	\$30,000
Kontopoulou, Marianna	Chemical Engineering	Expanded graphite/thermoplastic composites	\$30,000
Networks of Centres of Excellence – Canadian Glycomics Network			
Walia, Jagdeep	Paediatrics	Preparatory studies for phase I/II clinical trial to correct GM2 gangliosidosis using AAV9 based gene therapy	\$196,780
National Institutes of Health			
Elaine, Petrof	Medicine	Microbes that matter: Defining optimal formulations for microbial ecosystem therapeutics	\$927,604
Natural Sciences and Engineering Research Council			
Harrison, Stephen	Mechanical & Materials Engineering	Modelling of a Liquid Desiccant System for Northern Community Greenhouses	\$24,994

This research report is meant to be an illustration of research activity at Queen's University and is based, on information provided to the Office of the Vice-Principal (Research) by University Research Services.

Piomelli, Ugo	Mechanical & Materials Engineering	Numerical simulation and modelling of non-equilibrium flows in hydro-power applications	\$246,347
Physicians' Services Inc.			
Seitz, Dallas	Psychiatry	Comparative safety and efficacy of antipsychotic medications in late-life psychotic disorders: A population-based study from Ontario	\$200,000
Social Sciences and Humanities Research Council			
Cote, Jean	Kinesiology & Health Studies	Living the true sport principles: An intersectoral exchange to move from theory to practice in a youth sport setting	\$17,377
The LEO Foundation			
Petkovich, Martin	Cancer Biology & Genetics	Determining the role of retinoic acid metabolism in acne treatment: Genetic and small molecule blockade of CYP26 in Rhino mouse model of cystic acne	DKK 2,180,000 (Denmark)