



Epilepsy  **Épilepsie**
CANADA

FUND RESEARCH
FIND A CURE

2019 Donors'

RESEARCH REPORT

We are proud to inform you that the four major research projects, now underway at leading Canadian Universities have been renewed for a second year. These projects are fueling hope for those living with epilepsy. All received significant funding from Epilepsy Canada earlier this year-made possible by your generous gifts.

Four key research projects receive a second year of Epilepsy Canada funding.

A total of \$429,000 invested in the last 12-months.

Epilepsy Canada is proud to announce the awarding of four important research grants. The Board of Directors has approved a second year of significant funding to researchers at MNI McGill University, The Toronto General and Western Hospital Foundation and Krembil Research Institute, The University of Montreal and CRCH-University of Montreal. Together, these projects are expected to impact future treatment for patients who suffer from intractable (medication resistant) seizures. Benefits are being pursued in the areas of seizure forecasting, and improvement in defenses against SUDEP (Sudden Unexpected Death in Epilepsy).

Gary Collins, President of Epilepsy Canada said, "We are extremely excited about this news. These grants bring the total dollars we've invested in epilepsy research, in the past 12-months, to \$429,000."

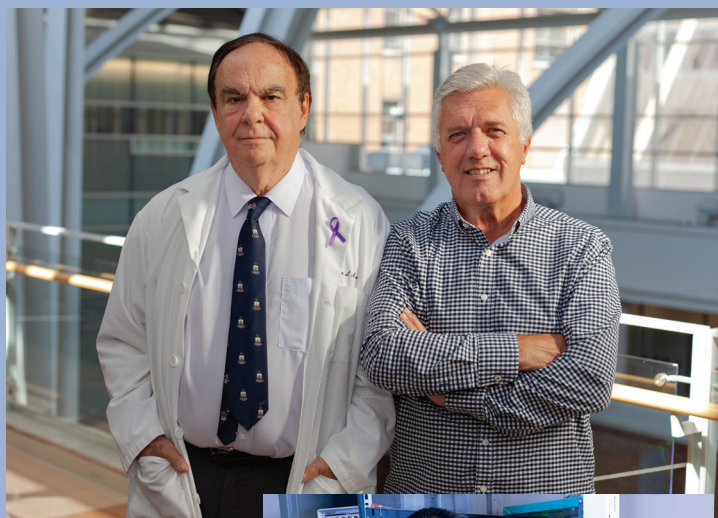
The grants announced today are for the following projects:

Your brain under the microscope - Dr. Peter Carlen of the Krembil Research Institute

This project will push the boundaries of personalized medicine for patients with intractable epilepsy. By using tissue obtained from an affected patient it aims to create a miniaturized cerebral model that can be rapidly analyzed and tested for effective treatments
2019 Grant: \$72,000 (\$145,00 since 2018)

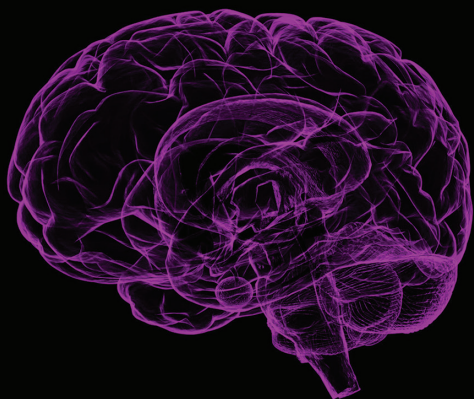
Krembil  **UHN**

Epilepsy Canada 2019
Research Grant Awards in Clinical
and Basic Sciences.



Dr. Peter Carlen's work received a second round of funding as progress is being made on his 'personalized medicine' research.

Gary Collins visited his lab to see the progress being made firsthand.



Advanced imaging techniques to predict medically-intractable epilepsy

- Dr. Andrea Bernasconi

- Montreal Neurological Institute, McGill University

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By testing the utilization of advanced imaging techniques at the time of diagnosis the potential impact includes earlier surgical referral in high risk patients and identifying insights into underlying conditions of drug-resistant seizures.

2019 Grant: \$40,000 (\$80,000 since 2018)



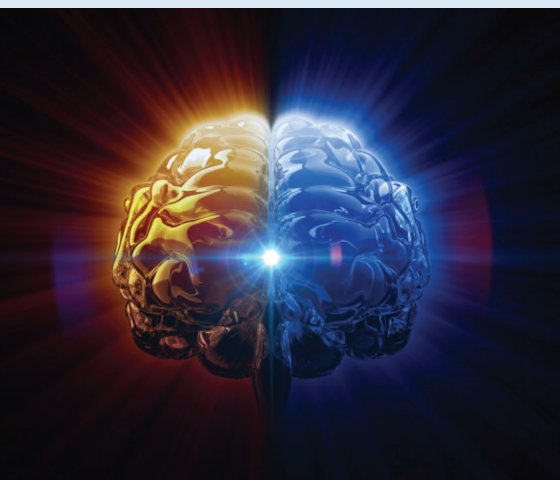
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Functional investigation for personalized medicine in epileptic encephalopathies

- Dr. Elsa Rossignol of the University of Montreal CHU Ste-Justine

Dr. Rossignol will identify genes that are responsible brain malformations resulting in epilepsy. She will gather this information from across Canada and use it to look for commonalities that will permit targeted and personalized treatment strategies in newly diagnosed childhood epilepsies, permitting physicians to choose the best medications for treatment.

2019 Grant: \$66,750 (\$133,500 since 2018)



Seizure-prediction to improve management of refractory epilepsy

- Dr. Dang K Nguyen Le Centre de recherche du Centre hospitalier de l'Université de Montréal

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This project aims to develop a functional seizure forecast system that if successful, has potential for almost immediate patient impact. Outcomes include the developing of automated triggered seizure alarms.

2019 Grant: \$35,750 (\$71,500 since 2018).



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Epilepsy Canada is a registered Canadian charity dedicated to positively affecting the lives of those living with epilepsy. Through its active financial support of epilepsy research, it strives to help the Canadian neurology community find a cure for epilepsy. It also undertakes education and awareness activities to build understanding, acceptance and hope for those affected by epileptic seizures or SUDEP (Sudden Unexplained Death in Epilepsy).