neuro
Montreal Neurological Institute-Hospital
Early Drug DIscovery Unit

EARLY DRUG DISCOVERY UNIT
EDDU NEWSLETTER

November - December 2023 - January 2024

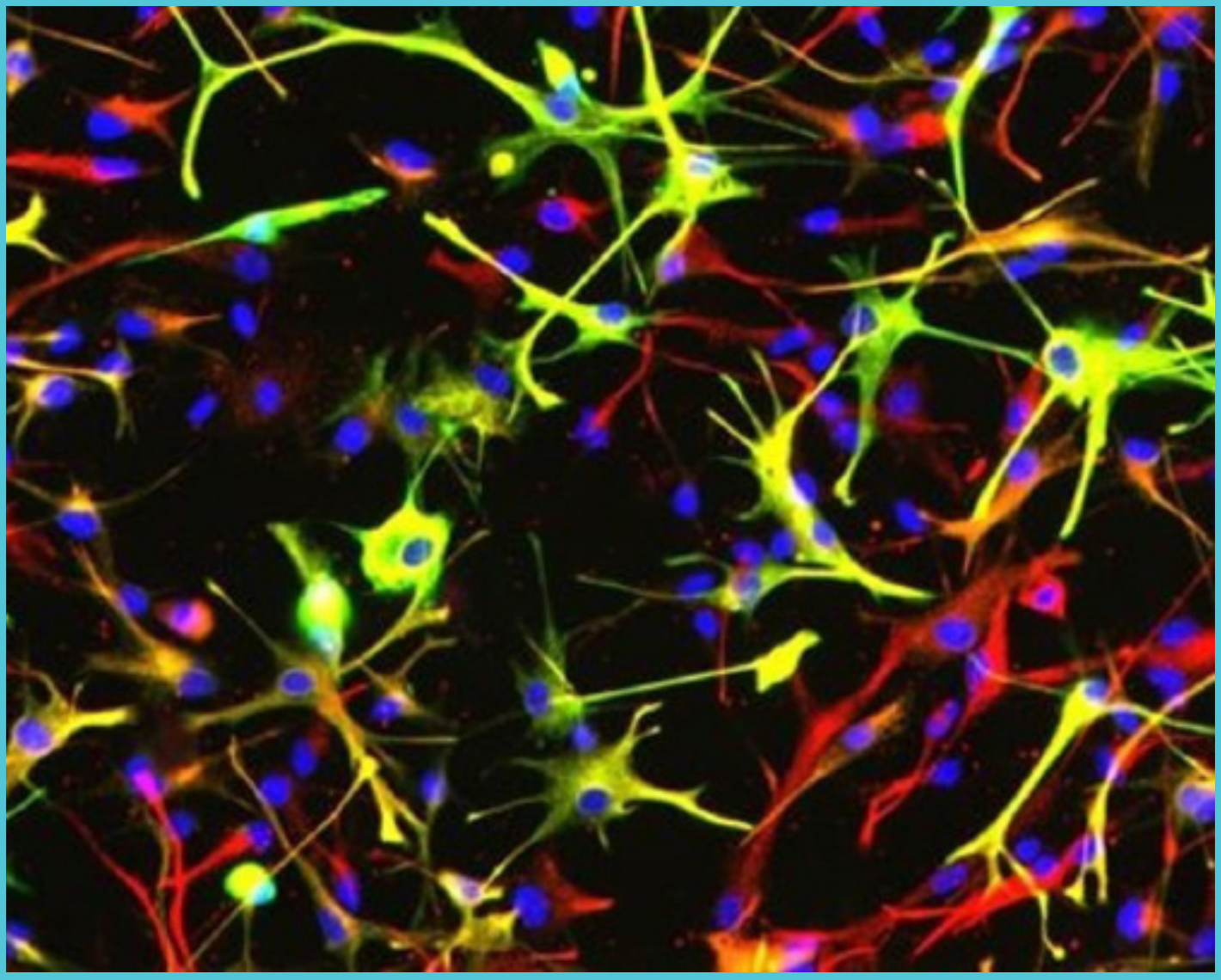


Photo: Astrocytes
By Vincent Soubannier

"All outstanding work, in art as well as in science, results from immense zeal applied to a great idea"

Santiago Ramón y Cajal (1852 - 1934) was an Spanish neuroscientist, pathologist, and histologist specializing in neuroanatomy and the central nervous system.

Outreach & Training Corner

Video:

- Check out Guada and Maria's video about how The Neuro's EDDU Open Science initiative is helping to build collaborations with researchers worldwide to advance research on stem cells and brain disorders.

Click here to watch it on YouTube.

Thanks to Guada, Maria, Doris, and Tom for making this possible!

EDDU on LinkedIn:

- The Neuro's EDDU LinkedIn account reached 500 followers in August.

We are thrilled with this milestone and are working hard to create new content, share more information, and achieve the next goal, which is 1,000 followers.
Please continue to follow us and share our publications!

LinkedIn Newsletter:

- Check out The Neuro's EDDU Newsletter now available in the LinkedIn.

We will periodically share with the followers our new publications, training videos and the latest updates on the work being done at the EDDU
Be sure to sign up, by clicking here.

Thanks to Doris, Genevive and Tom!

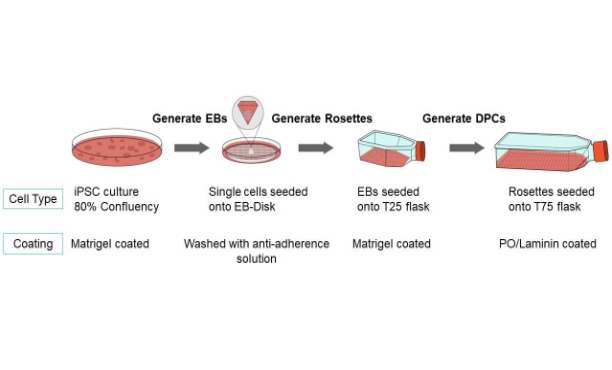
EDDU Hub:

- Do you know that now the EDDU Data Portal is called the Neuro's EDDU Community and Resource Hub? There you will know all about the EDDU's work and practice of Open Science, such as: new publications, available resources, training materials and latest updates.

Check out this video on Instagram.

New Protocol:

- Chen, Xiuqing; Pimentel, Luisa; Goldsmith, Taylor; Han, Chanshuai, Nguyen-Renou, Emmanuelle; Durcan, Thomas M.



[Induction of Dopaminergic Neuronal Progenitors From iPSCs Using Microfabricated Disk]

is now published in Zenodo!

Congrats to everyone involved!
Félicitations!

C-Big iPSC Catalog:

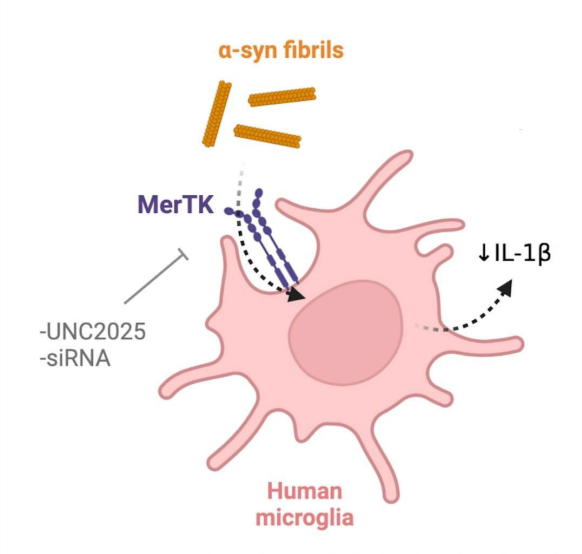
- The C-Big iPSC Catalog has been updated. Click here to check out the complete information.

What's New - Publications

● Marie-France Dorion, Moein Yaqubi, Konstantin Senkevich, Nicholas W Kieran, Adam MacDonald, Carol X -Q Chen, Wen Luo, Amber Wallis, Irina Shlaifer, Jeffery A Hall, Roy W R Dudley, Ian A Glass, Birth Defects Research Laboratory, Jo Anne Stratton, Edward Fon, Tim Bartels, Jack P Antel, Ziv Gan-or, Thomas M Durcan, Luke M Healy.

MerTK is a mediator of alpha-synuclein fibril uptake by human microglia.
is now published in Brain!

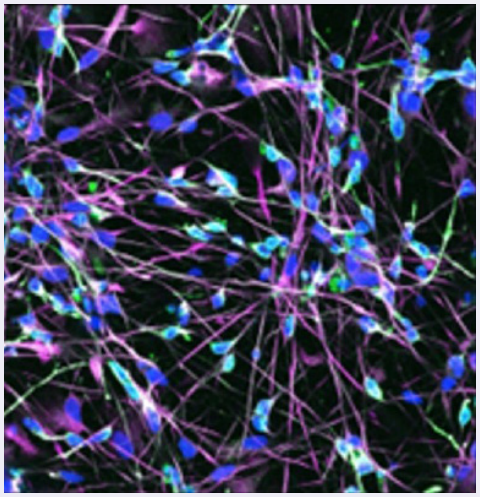
Congrats to everyone involved!
Félicitations!



● Gilles Maussion, Cecilia Rocha, Narges Abdian, Dimitri Yang, Julien Turk, Dulce Carrillo Valenzuela, Luisa Pimentel, Zhipeng You, Barbara Morquette, Michael Nicouleau, Eric Deneault, Samuel Higgins, Carol X.-Q. Chen, Wolfgang E. Reintsch, Stanley Ho, Vincent Soubannier, Sarah Lépine, Zora Modrusan, Jessica Lund, William Stephenson, Rajib Schubert, and Thomas M. Durcan.

Transcriptional Dysregulation and Impaired Neuronal Activity in FMR1Knock-Out and Fragile X Patients' iPSC-Derived Models.
is now available in the International Journal of Molecular Sciences; an Open Access MDPI Journal!

Congrats to everyone involved!
Félicitations!



Here are the recent preprints in which team members participated.

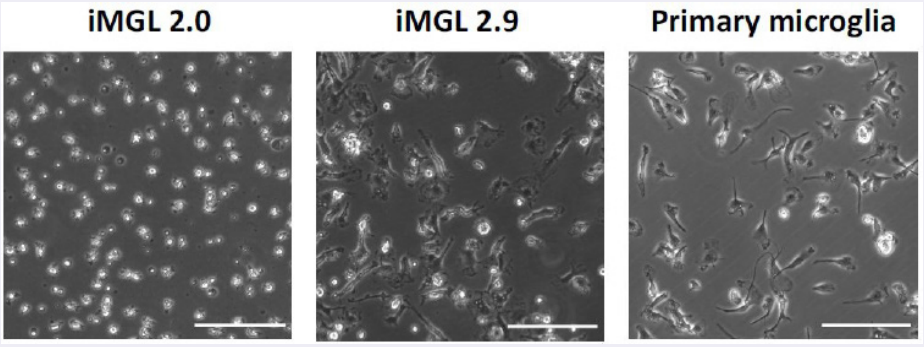
● Marie-France Dorion, Diana Casas, Moein Yaqubi, Peter Fleming, Carol X.-Q. Chen, Valerio E. C. Piscopo, Michael Nicouleau, Taylor M. Goldsmith, Irina Shlaifer, Adam MacDonald, Roy W. R. Dudley, Jeffrey A. Hall, Jack P. Antel, Jo Anne Stratton, View ORCID ProfileThomas M. Durcan, Roberta La Piana, View ORCID ProfileLuke M. Healy.

An adapted stem cell-derived microglia protocol for the study of microgliopathies and other neurological disorders.

is now published in BioRxiv.

Congrats to everyone involved!

Félicitations!



● Vincent Soubannier, Mathilde Chaineau, Lale Gursu, Sarah Lepine, David Kalaydjian, Ghazal Haghi, Guy Rouleau, Thomas M. Durcan, Stefano Stifani.

"Early nuclear phenotypes and reactive transformation in human iPSC-derived astrocytes from ALS patients with SOD1 mutations". Available in BioRxiv.

● C. Sahara Khademullah, Julien Bourbonnais, Mathilde M. Chaineau, María José Castellanos-Montiel, Iason Keramidis, Alexandra Legault, Marie-Ève Paquet, Agessandro Abrahao, Lorne Zinman, Janice Robertson, Thomas M. Durcan, Melanie A. Woodin, Antoine G. Godin, Yves De Koninck.

"KCC2 as a novel biomarker and therapeutic target for motoneuron degenerative disease". Available in BioRxiv.

Events

NOVEMBER

- **Wilder Penfield Lecture at The Neuro:**

Monday, November 13th at 4 pm

The 2023 Wilder Penfield Lecture, entitled "NASA Planetary Science: Planets and Asteroids and Moons...OH MY!", will be delivered by Eric Ianson.

To participate, click here.

- **iPSC Seminar:**

Thursday, November 16th at 4 pm

"Modelling musculoskeletal disorders and developing cell therapies using iPSC" with Dmitriy Sheyn an Assistant Professor at the Orthopedic Stem Cell Research Lab at the Cedars-Sinai Medical Center in Los Angeles, California, USA.

To register, click here.

- **5th Annual Neuro Open Science in Action Symposium 2023:**

Thursday, November 30 at 9 am

The 2023 Open Science in Action symposium will focus on how Open Science is becoming the New Normal in research, featuring speakers from leading international and local initiatives.

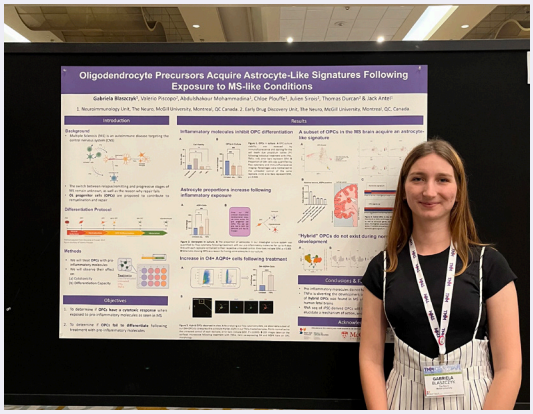
To register, click here.

EDDU on the road

Congratulations to Gabriela Blaszczyk on her participation at the 2023 Till and McCulloch Meetings.

She presented her poster entitled: "**Oligodendrocyte Precursors Acquire Astrocyte-Like Signatures Following Exposure to MS-like Conditions**", in collaboration with Tom, the Neuro's EDDU and Stem Cell Network sponsorship.

Congrats to everyone involved!



Connect with us!

- Instagram
- LinkedIn
- EDDU Hub

National Pain Awareness Week - November 6th - 12th
Check out the information on:
https://www.paincanada.ca/

Women's Brain Health Day - December 2nd
To learn more go to:
https://womensbrainhealth.org/

Next issue will come in February!

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