



CRBS Bench-to-Bedside online workshop
April 22nd 2021, 10:00am-noon
Ion channels and personalized medicine.

Dear colleagues,

The *Centre de Recherche en Biologie Structurale* (CRBS) is proud to announce the second event of the CRBS Bench-to-Bedside workshop series. This initiative seeks to bring awareness of the power of structural biology to the greater biomedical community, as well as to foster collaborations between clinicians and basic scientists.

The event, titled “**Ion channels and personalized medicine**”, will take place online via Zoom on **April 22nd 2021 from 10:00 to noon**. First, **Dr. Derek Bowie** (*McGill University, Canada*) will give an introduction of ion channel families and how they give insight into understanding complex diseases. Then **Dr. David Bennett** (*University of Oxford, UK*) will focus on the diagnosis and clinical outcomes of mutations in Nav channels with therapeutic avenues. Finally, **Dr. Steve Traynelis** (*Emory University School of Medicine, USA*) will discuss the translational potential of studying point mutations in NMDA-type ionotropic glutamate receptors towards personalized medicine. The presentations will be followed by a panel discussion with the speakers and CRBS members Jean-François Trempe and Gergely Lukacs.

Program:

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| 10:00 – 10:15 | Introduction – Dr. Derek Bowie Title: Introduction to ion channel structure and function |
| 10:15 – 10:30 | Guest speaker, Dr. David Bennett Title: Human Pain Channelopathies |
| 10:30 – 11:00 | Guest speaker, Dr. Steve Traynelis Title: Insight into the glutamate receptor function provided by genetic variation |
| 11:00 – 11:30 | Panel Discussion with Dr. Jean-François Trempe and Dr. Gergely Lukacs |
| 11:30 – 11:35 | Conclusion |

Registration: <https://forms.gle/PACfWHq4sYBUuhGMA>

Zoom link:

<https://mcgill.zoom.us/j/5150839283?pwd=OHd3M0hMQlVyb1E2ZGZNaXc5SGJCUT09>

Meeting ID: 515 083 9283

Passcode: CRBS2021

Finally, we would like to ask all of you to **distribute this invitation** to whoever you think could be or **SHOULD be involved** in this initiative, or just wants to listen in. If you know a clinician scientist whose work could benefit from structural biology, or conversely if you know a structural biologist who seeks greater interactions with clinicians, please invite them!

We are looking forward to seeing you at the event and hope many participate!

The CRBS Outreach committee:

Jean-François Trempe (CRBS Outreach committee)

Susanne Bechstedt (CRBS Outreach committee)

Annick Guyot (CRBS coordinator)