



### **Dr. Dang Nguyen, MD, PhD, FRCPC**

Dang K. Nguyen is the current chief of neurology at the Montreal University Hospital Center (CHUM). He obtained his MD, PhD and neurology degrees at the University of Montreal and completed his epilepsy fellowship training at Yale University. For the last 23 years, he has been caring for complex epilepsy cases at the CHUM. He is also a principal scientist at the CHUM Research Center, full professor in the Department of Neurosciences at the University of Montreal and holds a Canada Research Chair in Epilepsy. Having previously been the president of the Canadian League against Epilepsy, he is currently on the executive board of the North American Commission of the International League against Epilepsy.

#### **Talk abstract:**

The routine EEG is ubiquitous in epilepsy, from the decision to initiate antiseizure medications all the way through their attempted withdrawal. However, detection of interictal epileptiform discharges can be elusive as they may not always be present (low to moderate sensitivity) and several spiky transients can mimic interictal epileptiform discharges (moderate interrater reliability). Because routine EEGs are performed dozens of times a day in most hospitals and the recording equipment and protocols are relatively standardized, there is an opportunity for assemble large amount of data to develop algorithms for automated EEG analysis using artificial intelligence.