

# **Dr. Taufik Valiante**

**Neurosurgeon, Krembil Neuroscience Centre at University Health Network**

Toronto, ON, CA

Leader in treatment and research for epilepsy

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## **Biography**

Dr. Taufik Valiante completed his residency in the Neurosurgery Training Program at the University of Toronto in 2002, and an Epilepsy Surgery Fellowship at the University of Washington, Seattle, under the mentorship of Dr. George Ojemann in 2003. In 2007 he established a state of the art five-bed Epilepsy Monitoring Unit at the Toronto Western Hospital, significantly increasing surgical services to those with medically refractory epilepsy throughout the Province of Ontario. Through his involvement with professional and not-for profit epilepsy organizations, he is a strident advocate for the standardization of epilepsy care. His CIHR-funded research focuses on in vivo and in vitro electrophysiological recordings of brain activity. His particular interest is in the association of such activity with cognitive processes, and the cellular mechanisms that underlie them. He studies the pathological disruption of such activity using optogenetics, and computational techniques.

He is currently the Director of the Surgical Epilepsy Program at the Krembil Neuroscience Center, and an Affiliate Scientist at the Toronto Western Hospital Research Institute. His neurosurgical staff appointment is at the Toronto Western Hospital, and he is currently Associate Professor of Neurosurgery at the Institute of Biomaterials and Biomedical Engineering at the University of Toronto.

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## **Industry Expertise**

Health and Wellness, Education/Learning, Health Care - Services, Health Care - Providers, Health Care - Facilities, Advanced Medical Equipment, Research

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## **Areas of Expertise**

Neurosurgery, Neuroscience, Surgery, Clinical Research, Medical Education, Neuroimaging, Electrophysiology, Neurophysiology, Pain Management, Biomedical Engineering, Translational Research, Epilepsy, Epilepsy Monitoring Unit

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## **Affiliations**

Cross Appointment to IBBME University of Toronto, Surgical Associate Epilepsy Program Krembil Neuroscience Centre, Epilepsy Toronto : Board Member, Association of Stereotactic and Functional Neurosurgery, American Association of Neurological Surgeons, Canadian League Against Epilepsy, University of Toronto Faculty of Medicine : Associate Professor of Surgery, University of Toronto Institute of Medical Science : Associate Member, Islamic History Month Canada : Advisory Board, Affiliate Scientist Krembil Research Institute

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## **Event Appearances**

**Epilepsy Surgery Program Update and Vagus Nerve Stimulation**  
Epilepsy Conference 2014 : Emerging Treatments Changing Lives

**Keynote Speaker**  
Epilepsy Care in Ontario

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**Education**

**University of Washington**  
Fellowship Epilepsy Neurosurgery

**University of Toronto**  
Residency Neurosurgery

**University of Toronto**  
MD/Ph.D. Medicine

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