

## Biographical sketch

NAME	CURRENT POSITION TITLE
	<b>NGUYEN, Dang</b>

EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Montreal, Canada	Medical Doctor	1990---1995	Medicine
University of Montreal, Canada	Specialty Residency	1995---2000	Neurology
Yale University, United States	Fellowship	2000---2002	Epilepsy
University of Montreal, Canada	Ph.D.	2009---2013	Neuroscience

### A. PERSONAL STATEMENT

I am a neurologist at the University of Montreal Health Centre (CHUM), providing care to patients with epilepsy since 2002. Our comprehensive epilepsy program has been active for over 60 years and remains central to the tertiary care of people with epilepsy in the province of Quebec.

I am also a clinical researcher focusing on innovative techniques to improve the evaluation and treatment of patients living with epilepsy, especially drug-resistant cases. Over the last two decades, my team has notably worked on a) the development and validation of an array of novel techniques such as near infrared spectroscopy, magnetoencephalography, tractography; b) studying the **role of the insula in drug-resistant epilepsy** and other neurological/neuropsychiatric conditions; c) the detection and prediction of seizures using various sensors (either implanted or unobtrusive) and techniques of artificial intelligence. I currently supervise/co-supervise an interdisciplinary team composed **34 highly-qualified personnel**: 2 research assistants, 1 EEG technologist, 1 research nurse, 1 epilepsy fellow, 7 B.Sc. students, 3 M.Sc. students, 11 Ph.D. students, 3 Post-doc and 5 medical students/residents. My research program is currently funded by 3 Canadian Institutes of Health Research (CIHR) operating grants, a Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant, 2 CIHR-NSERC Collaborative Health Research Project (CHRP) grants, my Tier 2 Canada Research Chair in Epilepsy, and the CHUM Foundation.

In addition to my clinical and research work, I have helped in the organization of various educational activities on epilepsy including the North American Regional Epilepsy Meeting (2020 –postponed to 2021), the CLAE meetings (2007-now), the Annual Quebec Epilepsy Day (since 2014, which I co-founded), the International North-American SEEG course (since 2012), and the Annual epileptology course in Hue (Vietnam; since 2013, which I founded). Finally, I've had the privilege to serve as the CLAE secretary-treasurer (2006-2009), president-elect (2017-2018), president (2018-2020), and past-president (2020-now).

### B. SELECTED POSITIONS AND HONORS

#### Positions and employment

2002 – 2010	Assistant Professor, Faculty of Medicine; University of Montreal, Canada
2011 – 2019	Associate Professor; Department of Neurosciences; University of Montreal, Canada
2019 –	Full Professor, Department of Neurosciences, University of Montreal, Canada
2003 – 2012	Associate researcher; University of Montreal Health Research Centre, Canada
2012 –	Principal researcher; University of Montreal Health Research Centre, Canada
2019 –	Director, Clinical Investigative Program; University of Montreal

#### Other Professional Activities

2006 – 2009	Secretary-treasurer, Canadian League against Epilepsy (CLAE)
2017 – 2018	President-elect, CLAE
2018 – 2020	<b>President, CLAE</b>
2020 – 2020	Past-president, CLAE
2009 – 2018	Member, Neurology residency program, University of Montreal
2019 –	Director, Clinical Investigator Program, Faculty of Medicine, University of Montreal
2015 –	Member, Clinical researcher bursary evaluation committee, Fonds Recherche Santé Québec
2016 –	Fellow, American Epilepsy Society

**Honors and Distinctions**

1988	Merit Medal of the General Governor of Canada
1991	Academic Prize, Fonds de Recherche en Santé du Québec
2000	Chartier Foundation Prize
2000	Dean's honor list, University of Montreal
2006	Esculape Teaching Prize, University of Montreal
2014 – Now	Honorary visiting professor, Faculty of Medicine and Pharmacy, Hue University, Vietnam
2016	Charcot Teaching Prize, University of Montreal
2019 – 2024	Canada Research Chair in Epilepsy and Functional Anatomy of the Brain
2019	CLAE Excellence in Research Award

**C. RESEARCH FUNDING**

**Current funding as PI (total = 3,043,883\$):** CFI John R. Evans Leader Fund (279,400\$; 2021); CIHR (596,700\$; 2021-2026); CIHR-NSERC CHRP (898,294\$; 2019-2023); NSERC (168,000\$; 2016-2022); CIHR (405,833\$; 2016-2022); CIHR (616,956\$; 2018-2024); CHUM Foundation (50,000\$; 2021); ILAE (28,700\$; 2019-2021).

**Current funding as co-PI (total = 663,360\$):** CHRP (498,000\$, 2018-2023); UCB for Investigator-initiated study (165,360\$; 2018-2021).

**Past funding as PI (total = 2,771,562\$):** FUCRC (29,168\$); IVADO (190,575\$); Epilepsy Canada (119,125\$); CIHR (862,216\$); FRSQ (319,495\$), QBIN (40,000\$); University of Montreal (10,000\$); CHUM Foundation (641,281\$); Quebec Ministry of International Relations (20 500\$); Charles Guindon Foundation (10,000\$); Pharmaceutical multicenter drug trials (retigabine, pregabalin, levetiracetam, brivaracetam, lacosamide, USL261, VNS, allopregnanolone; Inventiv) (435,762\$); UCB (28,690\$), Savoy Foundation (64,750\$).

**Past funding as co-PI (total = 3,164,335\$):** FRQS-QBIN (12,500\$; 2019-2020); CIHR (2,334,500\$); NSERC (309,000\$); FRQS (34,000\$); FRQS-QBIN (85,000\$), Savoy foundation (121,000\$); Sick-Kids Foundation (268,335\$; 2015-2018).

**Bursaries (total = 927,753\$):** FRSQ summary bursary (3,000\$; 1991); CRM summary bursary (3,000\$; 1992); AAN annual meeting bursary (1,000\$; 1999); Chartier foundation fellowship bursary Research (10,000\$; 2000); Bernard Leboeuf fellowship bursary (10,000\$; 2001); CIHR/Epilepsy Canada fellowship bursary (35,000\$; 2001); CHUM Research Centre clinical researcher bursary (2006-2007; 31,486\$); FRQS clinical researcher Junior 2 (2013-2015; 75,765\$); FRQS clinical researcher Senior (2015-2019; 158 502\$); Tier 2 Canada Research Chair in Epilepsy (600,000\$; 2019-2024).

**D. PUBLICATIONS AND PRESENTATIONS:**

Peer-reviewed articles: **155** (4 cover pages); H-index 29

Review articles: 20

Book chapters: 21

Abstracts/posters: 283

Peer-reviewed conference papers: 11

Patents/copyrights: 1) Hybrid insular-opercular electrodes; 2) Seizure onset detector and detection method; 3)

Superparamagnetic nanoparticles for the detection of cerebral activity.

**E. LEADERSHIP IN THE FIELD:**

**Presentations:** 190 (122 provincial, 34 national, 51 international)

**Organization of meetings:** CLAE Annual Meeting (2007, 2009, 2019, NAEC 2021); Quebec Annual Epilepsy Day (2014, 2015, 2017, 2018, 2019, 2020, 2021); Quebec EEG annual course tutor (2012-2018, 2021); Annual North-American SEEG course tutor (2012-now); 'AI in medicine' (University of Montreal, 2018); 'AI in Neurology/Neurosurgery (CHUM Research Center; 2019); North-American Virtual Epilepsy Congress (2020).

**Global health:** Epileptology courses and consultations in Hue (**Vietnam**; 2007, 2013, 2014, 2015, 2017, 2019), Dakar (Senegal; 2013), Port-au-Prince (**Haiti**; 2016, 2017, 2018), **Trinidad** (2019).

**Public health:** Member the Quebec Ministry of Health's working group on epilepsy (2019-2021); External expert for INESSS for the evaluation of Vimpat (2011), Vimpat IV (2011), VNS (2012); MEG (2014); Fycompa (2013; 2014; 2016); Diacomit (2014); Aptiom (2014); Mogadon (2015); Brivlera (2017), Brivlera IV (2019), Levetiracetam IV (2020).

**F. PROFESSIONAL ACTIVITIES:**

**Review of manuscripts:** 113

**Review of grant applications:** MITACS (2014x2; 2017), Poland National Science Center (2015); French Foundation for Research on Epilepsy (2015), Fonds de Recherche du Québec en Santé Clinical Scholar Program (2016-now) University of Saskatchewan

College of Medicine Research Award (CoMRAD) (2017-2018); Centre de Recherche du Centre Hospitalier de l'Université de Montréal (Biomedical sciences MSc/PhD bursary program) (2017-2018), Savoy Foundation (2018-now), CIHR College of Reviewers (2018-now); German Research Foundation) (2018); Swiss National Science Foundation (2018; 2019); Israel Science Foundation (2019).

**G. SUPERVISORY ACTIVITIES/GRADUATE COMMITTEES/TEACHING**

**Supervision of students:** Postdoc (n=7); PhD (n=18); MSc (n=14); BSc (n=17); Epilepsy fellows (n=18); MD students/residents (n=34); high school/college summer students (16).

**Graduate committees:** Jury member for Ph.D. student exams (n=15); Jury member for Ph.D. thesis (n=7); Jury member for MSc student memoirs (n=9); Member of sponsorship committee (n=3); Member of mentorship committee for early career clinical researchers (n=7).

**Teaching:** Direct supervision of students/residents/fellows (~400 hrs/yr); courses to graduate students: 30-40 hrs/yr).

**Director of Clinical Investigative Program:** Supervision of 41 residents in the Royal College of Physicians of Canada Clinical Investigator Program of the University of Montreal.