MCOM Curriculum Vitae

Yarema B. Bezchlibnyk, M.D., Ph.D.
Associate Professor, Department of Neurosurgery and Brain Repair
University of South Florida, Morsani College of Medicine, Tampa, Florida

Address

2 Tampa General Circle, STC-7049, Tampa, FL. 33606
Office: 813-259-0633
e-mail: yaremab@usf.edu

Citizenship Canadian / U.S. Permanent Resident, H1-B

Education

University of Toronto Faculty of Medicine, MD, 2010, Honors	2006-2010
McMaster University Faculty of Health Sciences, Dept. of Medical Sciences, Thesis: Cellular and molecular changes in bipolar disorder, PhD, 2006	1999-2006
University of Toronto, University of St. Michael's College, HonBSc, Thesis: Investigation of the myelin/oligodendrocyte glycoprotein and HLA region CA repeat loci in obsessive compulsive disorder; Specialist: Molecular Genetics and Molecular Biology; Major: Human Biology; Minor: Bioethics, 1999, Honors.	1994-1999

Postgraduate Training

Emory University School of Medicine, Department of Neurological Surgery, 1365 Clifton Road NE, Suite B6200, Atlanta, GA 30322 Fellow, Functional and Stereotactical Neurosurgery	2016-2017
University of Calgary Cumming School of Medicine, Department of Clinical Neurosciences, Section of Neurosurgery, 1403 – 29th Street N.W., FMC 1195, Calgary, Alberta, T2N 2T9, Resident, Neurosurgery	2010-2016
Board Certified in Neurosurgery, Royal College of Physicians and Surgeons of Canada	2016-present
Fellow, Royal College of Physicians and Surgeons of Canada	2016-present
Fellow, American Association of Neurological Surgeons	2018-present

Awards, Honors, Honorary Society Memberships

University of Toronto Entrance Scholarship	1994
John Lorimer Scholarship, University of Toronto	1994
John Delplam Jr. Memorial Scholarship, University of Toronto	1994
McMaster University Graduate Research Scholarship	1999

Dr. Ronald Kum Pui Mok Admissions Scholarship, University of Toronto Faculty of Medicine	2006
Jane and Howard O. Jones Fund, University of Toronto Faculty of Medicine	2007
Dr. Charlotte Hahn Memorial Scholarship, University of Toronto Faculty of Medicine	2009
Alberta Neurosurgical Society Annual Resident Clinical Presentation Award	2014
S. Terence Myles Award for Excellence in Resident Teaching	2016
Dr. Fernando L. Vale Golden Apple Award for Excellence in Faculty Teaching	2023
USF Health 2022-2023 Patient Experience Top Performer	2023

Military Services

Private – trained, Corporal qualified, Royal Canadian Army Reserves, 25th Field Ambulance (medic)	1997-1999

Current Appointments

Surgical Director, University of South Florida Movement Disorders Neuromodulation Center	2018-present
Surgical Director, University of South Florida Comprehensive Epilepsy Surgery Center	2018-present
Surgical Director, University of South Florida Peripheral Nerve Reanimation Center	2018-present
Head, Division of Functional Neurosurgery, Department of Neurosurgery and Brain Repair, University of South Florida Morsani College of Medicine	2022-present
Program Director, University of South Florida Stereotactic and Functional Neurosurgery Fellowship (CAST accredited)	2023-present
Associate Professor, Department of Neurosurgery and Brain Repair, University of South Florida Morsani College of Medicine	2023-present

Past Appointments

Assistant Professor, Department of Neurosurgery and Brain Repair, University of South Florida Morsani College of Medicine	2017-2023
Vice-Head, Division of Functional Neurosurgery, Department of Neurosurgery and Brain Repair, University of South Florida Morsani College of Medicine	2018-2023
Vice-Program Director, University of South Florida Stereotactic and Functional Neurosurgery Fellowship (CAST accredited)	2018-2023

Teaching, Lecture

<u>Undergraduate</u>

Teaching Assistant, Nursing 1B07, McMaster University School of Nursing, Hamilton, ON; 20 students	1999-2000
Teaching Assistant, Biology 2C03: Genetics, Faculty of Health Sciences, McMaster University, Hamilton, ON; ~130 students	2000-2001
Teaching Assistant, Health Sciences 1G03: Psychobiology, Faculty of Health Sciences, McMaster University, Hamilton, ON; ~130 students	2001-2002
"Stereotactic and Functional Neurosurgery" Neurosurgery Interest Group Journal Club. Online presentation; ~30 students	2022
"DBS Workshop" USF Pre-Health Training Society (PTS) medical workshop; ~40 students	2024

Graduate
Medical

"Cerebrospinal fluid: It's physiology and management through drainage". Neuro Champions ICU Education Day. Calgary, AB, Canada	2015
"Surgical Considerations in the Management of Epilepsy". Grand Rounds, Emory University School of Medicine, Department of Neurosurgery, Atlanta, GA.	2017
"Advances in the Surgical Treatment of Epilepsy and Movement Disorders". Grand Rounds, University of South Florida Department of Neurology. Tampa, FL.	2017
"Principles of Stereotaxy". Grand Rounds, University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2018
"Surgical Management of Pain". Grand Rounds, University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2018
"Surgical Management of Spasticity". Grand Rounds, University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2018
"Surgical Treatment of Epilepsy". Grand Rounds, University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2020
"Temporal Lobe Epilepsy". Grand Rounds, University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2022

Course Director, Stealth™ Tractography White Matter Dissection Course, Department of Neurosurgery and Brian Repair, University of South Florida, Tampa, FL; 7 course participants	2022
"Surgical Management of Peripheral Nerve Injuries". Grand Rounds, University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2022
"Management of Temporal Lobe Epilepsy". Grand Rounds, University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2022
"Surgical Management of Brachial Plexus Injuries". Grand Rounds, University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2023
"Indications and operative techniques for Anatomic Temporal and Frontal Lobectomies". Grand Rounds, University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2023
"Temporal Lobectomy". 2024 Annual Summer Cranial Course, University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2024
Instructor, "Pterional Approach & Temporal lobectomy". 2024 Annual Summer Cranial Course - Skills Lab #2. University of South Florida Departments of Neurology and Neurosurgery and Brain Repair. Tampa, FL.	2024

Non-medical

"Invasive Intracranial Electroencephalography" Invited Lecture, Psychology Dept Graduate Practicum in EEG/ERP Methods. Tampa, FL.	2023

Teaching, Supervisory

Clinical supervisory and training responsibilities

Assistant Professor, Department of Neurosurgery and Brain Repair, University of South Florida	2017-2023
Vice-Program Director, University of South Florida Stereotactic and Functional Neurosurgery Fellowship (CAST accredited)	2018 2023
Associate Professor, Department of Neurosurgery and Brain Repair, University of South Florida	2023-present
Program Director, University of South Florida Stereotactic and Functional Neurosurgery Fellowship (CAST accredited)	2023-present

Stereotactic and Functional Neurosurgery Fellows

Jay Kumar (enfolded fellow)	Jan – July 2023
Farid El Hefnawi	Oct 2023 – Oct 2024
Elliot Neal (enfolded fellow)	July 2023 - present

Laboratory or other research supervisory, training

Brook Kavanaugh, Research Assistant	2005-2006
Jordan Hailey, University of Calgary Hon.B.Sc. student	2014-2015

Formally supervised trainees

David Finch, USF Medical student – SELECT program	2021-2022
Zeegan George, USF Medical student – SELECT program, Capstone	2021-present
Adam Alayli, USF Medical student – Capstone	2024-present
Emma Dunn, USF Medical student – Summer Immersion program	2024-present

Clinical research supervisory and mentorship

Functional, Epilepsy, and Brain Networks Research Group:	
Long Di, USF Medical student	2019-2022
You Jeung (Julie) Park, USF Medical student	2020-2021
Deborah Liaw, USF Medical student	2021-present
Gavin Lockard, USF Medical student	2021-present
Molly Monsour, USF Medical student	2022-present
Adam Alayli, USF Medical student	2022-present
Samantha Schimmel, USF Medical student	2023-present

Formal teaching of peers
National

"Common Brain Tumors". CME presentation at the 2018 ACLI Medical Section Annual Meeting. St. Petersburg, FL.	2018

Regional

"Minimally Invasive Treatment of Epilepsy and Movement Disorders". CME Presentation, Tampa, FL.	2018
"Surgical Management of Peripheral Nerve Injuries". CME Presentation, Tampa, FL.	2018
"Focused Ultrasound: Treatment Options for ET and PD". CME Presentation, Sarasota, FL.	2023

Lectures by Invitation

International

"Association study between CAG repeats within the KCNN3 gene and bipolar affective disorder". World Federation of Neurology Neurogenetics Research Group Meeting, in conjunction with the 1999 Annual meeting of the American Academy of Neurology. Toronto, ON.	1999
"Application of Tractography in Functional and Epilepsy Surgery". In Tractography Technology in Neurosurgery. Cohen-Gadol A (Ed.) The Neurosurgical Atlas: Atlas Innovations. https://www.neurosurgicalatlas.com/grand-rounds/tractography-technology-in-neurosurgery	2021

National

"StealthTM Tractography: The New Standard for Easier, More Advanced Tractography Visualization of White Matter Tracts with Dissection and NeuroImaging", Speaker – Lunch & Learn; Demonstrator – Hands-on Workshop; Medtronic, 2022 Annual Meeting of the American Association of Neurological Surgeons, Philadelphia, PA	2022
"LIFU BBB Opening for Liquid Biopsy in patients with GBM; Pt CH", Speaker – BT015 Investigator Meeting, Orlando, FL	2024

Regional

"Neuroplasticity & Disruptive Technologies in Ablation & Neuromodulation". Grand Rounds, University of Calgary, Department of Clinical Neurosciences. Calgary, AB.	2017
"The Places in Between: Neuroplasticity and Neuromodulation". Grand Rounds, Emory University School of Medicine, Department of Neurosurgery. Atlanta, GA.	2017
"Advances in the Stereotactic Treatment of Epilepsy". Grand Rounds, University of Arkansas for Medical Sciences, Department of Neurosurgery. Little Rock, AR.	2017
"The Places in Between: Neuroplasticity and Neuromodulation". Grand Rounds, Virginia Commonwealth University Department of Neurosurgery. Richmond, VA.	2017
"The Places in Between: Neuroplasticity and Neuromodulation". Grand Rounds, University of Alabama, Department of Neurosurgery. Birmingham, AB.	2017

"The Places in Between: Neuroplasticity and Neuromodulation". Grand Rounds, University of South Florida Department of Neurosurgery and Brain Repair. Tampa, FL.	2017
"MRI-guided Laser Interstitial Thermal Therapy for Epilepsy". Grand Rounds, Johns Hopkins All Children's Hospital. St. Petersburg, FL.	2019
"Exploring Deep Brain Stimulation and Focused Ultrasound for Parkinson's Disease". 2021 SWFL Parkinson's Disease Fall Symposium. Port Charlotte, FL.	2021
"Laser Interstitial Thermal Therapy, sEEG, and Robotic Assistance for Adult Epilepsy Surgery". 2023 Annual Meeting of the Florida Neurosurgical Society, Palm Beach, FL.	2023
"Can DBS Help Non-Motor Symptoms of PD?" 2024 SWFL Parkinson's Disease Fall Symposium. Port Charlotte, FL.	2024
"Treatment Options for Medically Refractory PD". 12th Annual Advanced Practice Conference3, Tampa, FL	2025

Clinical Activities or Innovations

Specialty Certification

Certificate, Spine and Peripheral Nerve Anatomy & Surgery Course	2013
Certificate, W. Lougheed Microsurgical Course	2015
Certificate, 2nd Calgary International Tractography Workshop	2016
Specialist Certificate in Neurosurgery, Royal College of Physicians and Surgeons of Canada	2016
Fellowship Certificate, Functional and Stereotactical Neurosurgery	2017

Professional licenses

College of Physicians and Surgeons of Alberta, License # 016678	2010-2018
Licentiate of the Medical Council of Canada	2011
Georgia Composite Medical Board, Physician License # 75605	2016-2017
DEA, Controlled Substances certificate – Sch. 2,2N,3,3N,4,5, Registration # FB5889538	2016-present
Florida Board of Health, Unrestricted Physician License # ME 133248	2017-present

Practice activities and appointments

Attending privileges, Tampa General Hospital, Tampa, FL Epilepsy Surgery, Stereotactic and Functional Neurosurgery, MR-Guided Focused Ultrasound, Peripheral Nerve Surgery, Surgical Neuro-oncology, Spine Surgery, General Neurosurgery	2017-present
Attending privileges, AdventHealth Tampa, Tampa, FL Epilepsy Surgery, General Neurosurgery.	2019-2022

Attending privileges, Johns Hopkins All Children's Hospital, St. Petersburg, FL Epilepsy Surgery, Stereotactic and Functional Neurosurgery	2024-present

Clinical, technical, and other scientific innovations

Performed the first asleep, MRI-guided DBS lead placement in Western Florida.	3/5/2019
Performed the first robot-assisted placement of stereo-EEG depth electrodes in the Tampa Bay Area.	6/18/2019
Performed the first laser ablation of a cavernous malformation in Florida.	8/13/2019
Performed the first bilateral fornix DBS lead placement for Alzheimer's disease in Western Florida	6/1/2020
Performed the first placement of responsive neurostimulator leads in the bilateral centromedian nucleus of the thalamus for epilepsy in Florida.	10/26/2020
Performed the first laser ablation of a meningioma in Western Florida.	6/4/2021
Performed the first distal anterior interosseous nerve to motor ulnar nerve transfer in Western Florida.	7/2/2021
Performed the first Stereotactic Laser Corpus Callosotomy for epilepsy in Florida.	1/14/2022
Performed the first High Intensity Focused Ultrasound procedure for essential tremor in Western Florida.	5/5/2022
Established a robot-assisted stereo-EEG program for invasive intracranial monitoring of patients with epilepsy at AdventHealth Tampa.	2022

Scholarly Activity (grant history)

A) Current Grants

Agency: Boston Scientific
I.D.# 61258297 (Clinical Research Support Grant)
Title: Vercise DBS Registry
P.I.: Theresa Zesiewicz, M.D.
Percent effort:
Total costs for project period: $128,983.70/year
Project period: 2018-present

Agency: Functional Neuromodulation
I.D.# 61188071 (Clinical Research Support Grant)
Title: ADvance II Study: DBS-f in patients with mild Alzheimer's Disease
P.I.: Jean Fils, M.D.
Percent effort:
Total costs for project period: $649,605.50/year
Project period: 2019-present

Agency: SetPoint Medical

I.D.# 61298048 (Clinical Research Support Grant)
Title: SetPoint RA Study (SPM-020)
P.I.: Yarema Bezchlibnyk, M.D., Ph.D.
Percent effort:
Total costs for project period: $13,000.00/year
Project period: 2019-present

Agency: SetPoint Medical
I.D.# 61298035 (Clinical Research Support Grant)
Title: Extension Study of VNS for RA (SPM-011)
P.I.: Yarema Bezchlibnyk, M.D., Ph.D.
Percent effort:
Total costs for project period: $9,850.00/year
Project period: 2019-2021

Agency: Abbott Laboratories
I.D.# 61298042 (Clinical Research Support Grant)
Title: Abbott DBS Post-Market Study of Outcomes for Indications Over Time (ADROIT) Study
P.I.: Yarema Bezchlibnyk, M.D., Ph.D.
Percent effort:
Total costs for project period: $56,165.50/year
Project period: 2020-present

Agency: InVivo Therapeutics
I.D.# 61298037 (Clinical Research Support Grant)
Title: Neuro-Spinal Scaffold INSPIRE 2.0
P.I.: Yarema Bezchlibnyk, M.D., Ph.D.
Percent effort:
Total costs for project period: $16,770.00/year
Project period: 2020-present

Agency: NINDS
I.D.# 61298052 (FED Clinical Research Support Grant)
Title: Placebo-Controlled Effectiveness in INPH Shunting (PENS) Trial
P.I.: Naomi Abel, M.D.
Percent effort:
Total costs for project period: $10,610 (Y1)
Project period: 2022-present

Agency: NeuroPace
I.D.# (Clinical Research Support Grant)
Title: RNS® System Responsive Thalamic Stimulation for Primary Generalized Seizures (NAUTILUS) Study
P.I.: Ushtar Amin, M.D.
Percent effort:
Total costs for project period:
Project period: 2022-present

Agency: Insightec
I.D.# STUDY004831/AL002/BRAINSTATE (Clinical Research Support Grant)
Title: Assessment of Safety and Efficacy of Exablate Blood-Brain Barrier Disruption for the Treatment of Patients with Probable Alzheimer's Disease
P.I.: Yarema Bezchlibnyk, M.D., Ph.D.
Percent effort:
Total costs for project period:
Project period: 2022-present

Agency: Insightec
I.D.# STUDY006076/BT015/LIBERATE (Clinical Research Support Grant)
Title: A pivotal Study to Evaluate the Safety and Effectiveness of Exablate Model 4000 using Microbubble Resonators to Temporarily Mediate Blood-Brain Barrier Disruption (BBBD) for Liquid Biopsy in Subjects with Glioblastoma Brain Tumors
P.I.: Yarema Bezchlibnyk, M.D., Ph.D.
Percent effort:
Total costs for project period:
Project period: 2023-present

Agency: Surgical Information Sciences, Inc. (SIS)
I.D.# STUDY006108/VISION (Clinical Research Support Grant)
Title: Visualization of the STN and GPi for DBS Surgery in Patients with Parkinson's Disease
P.I.: Yarema Bezchlibnyk, M.D., Ph.D.
Percent effort:
Total costs for project period:
Project period: 2023-present

Agency: Abbott Laboratories
I.D.#
Title: Treatment Resistant Depression Subcallosal Cingulate Network DBS (TRANSCEND)
P.I.: Ryan Wagoner, M.D.
Percent effort:
Total costs for project period:
Project period: 2024-present

B) Past Grants
Agency: Ontario Graduate Scholarship
I.D.# Postgraduate Scholarship
Title: Changes in Gene Expression in Patients with Mood Disorders
P.I.: L. Trevor Young, M.D.
Percent effort: 100%

Total costs for project period: $10,000
Project period: 2002-2003 (declined in favor of NSERC scholarship).

Agency: National Science & Engineering Research Council Postgraduate Scholarship
I.D.# Postgraduate Scholarship
Title: Changes in Gene Expression in Patients with Mood Disorders
P.I.: L. Trevor Young, M.D.
Percent effort: 100%
Total costs for project period: $38,200
Project period: 2002-2004

Agency: Ontario Graduate Scholarship
I.D.# Postgraduate Scholarship
Title: Changes in Cellular Morphology in Patients with Mood Disorders
P.I.: L. Trevor Young, M.D.
Percent effort: 100%
Total costs for project period: $10,000
Project period: 2004-2005

Published Bibliography

Peer-reviewed – H-index = 15, i10-index = 19, 969 citations

1. **Bezchlibnyk YB,** Wang JF, McQueen GM, Young LT. Gene expression differences in bipolar disorder revealed by cDNA array analysis of post-mortem frontal cortex. *J. Neurochem.* 2001, 79(4):826-834.

2. **Bezchlibnyk Y,** Young LT. The neurobiology of bipolar disorder: focus on signal transduction pathways and the regulation of gene expression. *Can. J. Psychiatry,* 2002, 47(2):135-148.

3. Young LT, **Bezchlibnyk YB,** Chen B, McQueen GM, Wang JF. Amygdala CREB phosphorylation in patients with mood disorders: Effects of diagnosis, suicide and drug Treatment. *Biol. Psychiatry,* 2004, 55(5):570-577.

4. Zai G*, **Bezchlibnyk YB*,** Arnold P, Burroughs E, Richter MA, Swinson RP, Barr CL, Mundo E, Kennedy JL. Myelin Oligodendrocyte Glycoprotein (MOG) gene associated with Obsessive Compulsive Disorder. *Am. J. Med. Genet.* 2004, 129B(1):64-68.

5. **Bezchlibnyk YB,** Wang JF, Shao L, Young LT. Insulin-like growth factor binding protein-2 expression is decreased by lithium. *Neuroreport*, 2006, 17(9):897-901.

6. Gao Y, **Bezchlibnyk YB,** Sun X, Wang JF, McEwen BS, Young LT. Effects of restraint stress on the expression of proteins involved in synaptic vesicle exocytosis in the hippocampus. *Neuroscience,* 2006, 141(3):1139-1148.

7. Tian Y, Wang JF, **Bezchlibnyk YB,** Young LT. Immunoreactivity of 43 kDa growth-associated protein is decreased in post mortem hippocampus of bipolar disorder and schizophrenia. *Neurosci. Lett.* 2007, 411(2):123-127.

8. **Bezchlibnyk YB,** Xu L, Wang JF, Young LT. Decreased expression of insulin-like growth factor binding protein 2 in the prefrontal cortex of subjects with bipolar disorder and its regulation by lithium treatment. *Brain Res.* 2007, 1147:213-217.

9. **Bezchlibnyk YB,** Sun X, Wang JF, MacQueen GM, McEwen BS, Young LT. Neuron somal size is decreased in the lateral amygdalar nucleus of subjects with bipolar disorder. *J. Psychiatry & Neurosci.* 2007, 32(2):203-210.

10. Isaacs AM, **Bezchlibnyk YB,** Yong H, Koshy D, Urbaneja G, Hader WJ, Hamilton MG. Endoscopic third ventriculostomy for treatment of adult hydrocephalus: long-term follow-up of 163 patients. *Neurosurg. Focus,* 2016, 41(3):E3,1-9.

11. **Bezchlibnyk YB,** Stone SD, Hamani C, Lozano AM. High frequency stimulation of the infralimbic cortex induces morphological changes in rat hippocampal neurons. *Brain Stimulation*, 2017, 10(2):315-323.

12. **Bezchlibnyk YB,** Willie JT, Gross RE. A Neurosurgeon`s View: Laser Interstitial Thermal Therapy of Mesial Temporal Lobe Structures. *Epilepsy Res.* 2017, 142:135-139.

13. Keifer O, Diaz A, Campbell MA, **Bezchlibnyk YB,** Boulis NM. Occipital Nerve Stimulation for the Treatment of Refractory Occipital Neuralgia: A Case Series. *World Neurosurg.* 2017, 105:599-604.

14. Sharma VD*, **Bezchlibnyk YB*,** Cheng J, Naik K, Faical I, Gale J, Miocinovic S, Butefisch C, Factor S, Willie JT, Boulis NM, DeLong M, Gross RE. Clinical outcomes of deep brain stimulation for dystonia implanted using intraoperative MRI. *J. Neurosurg.* 2019, 133(5):1582-1594.

15. Keifer OP Jr, Zeising K, Tora MS, Campbell M, **Bezchlibnyk YB,** Boulis NM. Use of a subtemporal approach for a salvage placement of a trigeminal ganglion stimulating electrode for the treatment of trigeminal neuropathic pain. *World Neurosurg.* 2019, 122:308-310.

16. Zesiewicz TA, **Bezchlibnyk Y,** Dohse N, Ghanekar SD. Management of Early Parkinson's Disease. *Clin. Geriatr. Med.* 2020, 36(1):35-41.

17. Isaacs AM, **Bezchlibnyk YB,** Dronyk J, Urbaneja G, Young H, Hamilton MG. Long-Term Outcomes of Endoscopic Third Ventricle Colloid Cyst Resection: Case Series With a Proposed Grading System. *Oper. Neurosurg. (Hagerstown),* 2020, 19(2):134-142.

18. Vakharia VN, Sparks RE, Vos SB, **Bezchlibnyk Y,** Mehta AD, Willie JT, Wu C, Sharan A, Ourselin S, Duncan JS. Computer-Assisted Planning For Minimally Invasive Anterior Two-Thirds Laser Corpus Callosotomy: A Feasibility Study With Probabilistic Tractography Validation. *Neuroimage Clin.* 2020, 25:102174,1-8.

19. **Bezchlibnyk YB*,** Sharma V*, Naik K, Faical I, Gale J, Cheng J, Triche S, Miocinovic S, Butefisch C, Willie JT, Boulis NM, Factor S, DeLong M, Gross RE. Clinical outcomes of globus pallidus deep brain stimulation for Parkinson Disease: A comparison of intraoperative MRI- and MER-guided lead placement. *J. Neurosurg.* 2020, 134(4):1072-1082.

20. Neal EG, Di L, Park YJ, Finch DA, Maciver S, **Bezchlibnyk YB,** Schoenberg MR, Vale FL. Seizure Freedom After Epilepsy Surgery and Higher Baseline Cognition May Be Associated with A Negatively Correlated Epilepsy Network in Temporal Lobe Epilepsy. *Front. Neurosci.* 2021, 14:629667,1-10.

21. Kwan V, Shum D, Haffenden A, Yeates K, Kwok A, Lau H, Poon WS, Chan D, Zhu Z, Chan D, Mok V, Chan A, Ma K, Yeung J, Lau C, **Bezchlibnyk YB,** Kiss Z, Tang V. A Retrospective Comparison of Cognitive Performance in Individuals with Advanced Parkinson's Disease in Hong Kong and Canada. *Appl. Neuropsychol. Adult.* 2022, 29(6):1562-1570.

22. Esper CD, Merola A, Patel N, **Bezchlibnyk YB,** Falconer D, Weiss D, Luca C, Cheeran B, Himes L, Mari Z. Necessity and feasibility of remote tele-programming of Deep Brain Stimulation systems in Parkinson's Disease. *Parkinsonism Relat. Disord.* 2022, 96:38-42.

23. Zesiewicz TA, Vega J, Gooch C, Ghanekar S, Huang Y, **Bezchlibnyk YB,** Steffetti JS, Kingsbury C. Therapies, Research Funding and Racial Diversity in Essential Tremor: A Systematic Review of the Literature. *Mov. Disord. Clin. Pract.* 2022, 9(6):728-734.

24. Bosch TJ, Cole RC, **Bezchlibnyk Y,** Flouty O, Singh A. Effects of Very Low- and High-Frequency Subthalamic Stimulation on Motor Cortical Oscillations During Rhythmic Lower-Limb

Movements in Parkinson's Disease Patients. J Parkinsons Dis. 2023, 13(4):549-561.

25. Shaheen N, Shaheen A, Zanaty M, Johari K, Sarica C, **Bezchlibnyk Y,** Lozano A, Flouty O. Deep brain stimulation for substance use disorder: A systematic review and meta-analysis. *Front Psychiatry.* 2023 Aug 10;14:1231760.

26. Shaheen N, Shaheen A, Elgendy A, **Bezchlibnyk YB,** Zesiewicz T, Dalm B, Jain J, Green AL, Aziz TZ, Flouty O. Deep brain stimulation for chronic pain: a systematic review and meta-analysis. *Front Hum Neurosci.* 2023 Nov 30;17:1297894.

27. Piper K, Smith T, Saez-Alegre M, Jean W, **Bezchlibnyk Y,** Van Loveren H. Does head positioning after percutaneous glycerol rhizotomy for trigeminal neuralgia matter? *World Neurosurg.* 2024 Jan;181:e447-e452.

28. Neal EG, Schimmel S, George Z, Monsour M, Alayli A, Lockard G, Piper K, Maciver S, Vale FL, **Bezchlibnyk YB**. No change in network connectivity measurements between separate rsfMRI acquisition times. *Front Netw Physiol.* 2024 Jan 15;4:1342161

29. Gordon J, Piper K, George Z, Vakharia K, **Bezchlibnyk Y,** Van Loveren H. Anatomical variations of foramen ovale as a predictor of successful cannulation in percutaneous trigeminal rhizotomies. *Oper Neurosurg (Hagerstown).* 2024 Mar 1;26(3):279-285.

30. **Bezchlibnyk YB,** Quiles R, Barber J, Osa B, Clifford K, Murtaugh R. Safety of intracranial electrodes in an MRI environment: An in vitro study. *J Med Radiat Sci.* 2024 Mar 11, Epub ahead of print

31. Sun Y, Isbaine F, Bentley N, Cheng J, **Bezchlibnyk Y,** Gross RE, Willie JT. Accuracy and Outcomes for Stereotactic Laser Amygdalohippocampectomy Using a Fully MRI-Compatible Platform. *Accepted for publication in the Journal of Neurosurgery, 2024*

32. Neal EG, Di L, Piper K, Zeegan G, Monsour M, Boscarino J, Maciver S, Schoenberg MR, Vale FL Bezchlibnyk YB. Comparison of Hippocampus-Sparing Anterior Temporal Lobectomy vs. Selective Amygdalohippocampectomy with Laser Interstitial Thermal Therapy in Language Dominant Temporal Lobe Epilepsy. *Submitted to Epilepsia – In revision*.

<u>Case Reports, Technical Notes, Letters</u>

1. Sharma VD, **Bezchlibnyk YB**, Gross RE. ClearPoint versus frame-based MRI-guided and MRI-verified deep brain stimulation - Response. *J. Neurosurg.* 2020, 133(5):1625-1626.

Books, Textbooks, Chapters

1. **Bezchlibnyk Y,** Young LT. Signal transduction abnormalities in bipolar disorder. In The Handbook of Medical Psychiatry, eds. Soares JC and Gershon S, Marcel Decker, New York, NY, 2003, 371-94.

2. **Bezchlibnyk Y,** Fawcett A, Parvez K. Neurosurgery. In Toronto Notes 2010, eds. McSheffrey G and Baxter S, Toronto Notes for Medical Students, Inc., Toronto, ON, 2010, NS1-38.

3. Yun J, Singh S, **Bezchlibnyk YB,** Cheng JC, Winfree CJ. Spinal Nerve Root and Dorsal Root Ganglion Stimulation. In Neurosurgical Operative Atlas: Functional Neurosurgery, 3rd edition, eds. Gross RE and Boulis NM, Thieme, New York, NY, 2018, 258-263.

4. **Bezchlibnyk YB,** Cheng J, Bijanki KR, Mayberg HS, Gross RE. Subgenual Cingulate Deep Brain Stimulation for Treatment-Resistant Depression. In Neuromodulation, 2nd edition, eds. Krames E, Peckham H and Rezai A, Elsevier, New York, NY, 2018, 1099-1118.

5. Keifer OP, **Bezchlibnyk YB,** Diaz A, Boulis NM. Occipital Neuralgia. In Neurosurgery by Example: Peripheral Nerve Neurosurgery, eds. Wilson TJ and Yang LJ, Oxford University Press, New York, NY, 2018, 141-158.

6. Zesiewicz TA, Dohse N, Gooch C, **Bezchlibnyk YB,** Ghanekar S. Diversity and inclusivity in Parkinson's disease and essential tremor. In Tremors, eds. Testa CM and Haubenberger D, Oxford University Press, New York, NY, 2022, 211-217.

7. Shaheen N, Khaled M, Seo S, **Bezchlibnyk Y,** Flouty O, Bharmauria V. "Neurostimulation in Neuro-Ophthalmology: Mechanisms and Therapeutic Potential" in Current Concepts in Neuro-Ophthalmology, ed. Örnek K. IntechOpen, London, UK, 2024.

Invited Publications

1. Kumar JI, Piper K, Zesiewicz T, Smith DA, Flouty O, **Bezchlibnyk YB**. Treatment of Movement Disorders with Neuromodulation. *Pract. Neurol.* September/October 2023.

Papers in Preparation

1. Neal EG, Di L, Park YJ, Finch DA, Kornelli F, Maciver S, **Bezchlibnyk YB,** Schoenberg MR, Vale FL. Default Mode Network

Ventral Hub Connectivity Is Associated with Memory Impairment in Temporal Lobe Epilepsy Surgery. (In preparation).

2. Di L, Neal EG, Park YJ, Finch DA, Maciver S, **Bezchlibnyk YB,** Schoenberg MR, Vale FL. Network Variations in Patients with Temporal Lobe Epilepsy Achieving Seizure Freedom Following Differing Types of Epilepsy Surgery. (In preparation).

3. Monsour M, Piper K, Di L, Zesiewicz T, **Bezchlibnyk YB.** DBS-STN mitigation of urinary incontinence in Parkinson's Disease - Illustrative Case. (In preparation).

4. Zeegan G, Piper K, Kumar J, Shub A, Zesiewicz T, **Bezchlibnyk YB.** Bilateral directional deep brain stimulation of the globus pallidus internus for spinocerebellar atrophy type 8. (In preparation).

5. Neal EG, Di L, Piper K, Zeegan G, Schimmel S, Monsour M, Alayli A, Amin U, Boscarino J, Schoenberg MR, Vale FL **Bezchlibnyk YB**. Preoperative Resection Modeling Accurately Predicts Pattern of Disconnection and Chance of Seizure Freedom in Patients With Medically Refractory Temporal Lobe Epilepsy. (In preparation).

<u>Conference Abstracts</u>

1. **Bezchlibnyk YB,** Sun X, Stewart RJ, Young LT, Wang JF. (2000) Differential gene expression in frontal cortex in subjects with mood disorders versus controls using cDNA array technology. *Soc. Neurosci. Abstr.* 26 (2):2308.

2. Wang JF, Bown C, Chen B, Sun X, **Bezchlibnyk Y,** Young LT. (2001) Identification of novel valproate regulated genes with neuroprotective effects. *Biol. Psychiatry* 49 (8S):74S.

3. **Bezchlibnyk YB,** Sun X, Wang JF, Young LT. (2001) Gene expression differences in mood disorders based on cDNA array analysis of postmortem frontal cortex. *World J. Biol. Psychiatry* 2 (1S):316-17S.

4. **Bezchlibnyk YB,** Wang JF, MacQueen GM, Young LT. (2001) Decreased TGF-beta expression in frontal cortex of subjects with mood disorders based on cDNA array analysis. *Soc. Neurosci. Abstr.* 27:111.14.

5. Wang JF, Shao L, Sun XJ, **Bezchlibnyk YB,** Young LT. (2002) Analysis of genome-wide valproate regulated gene expression profiles. *Soc. Neurosci. Abstr.* 28:308.5.

6. Young LT, **Bezchlibnyk YB,** Chen B, Wang JF, MacQueen GM. (2003) CREB phosphorylation in postmortem amygdala from subjects with mood disorders. *Soc. Neurosci. Abstr.* 29:640.13.

7. **Bezchlibnyk YB**, Wang JF, Sun X, Walker J, Young LT. (2004) Lithium-Induced Changes in Gene Expression Observed by cDNA Array Analysis of Primary Cultured Rat Cerebral Cortical Cells: Implications for Insulin Growth Factor Binding Protein 2. *Biol. Psychiatry* 55 (162S):577.

8. **Bezchlibnyk YB,** Sun X, Chen B, Wang JF, Young LT. (2005) Cellular pathology in the amygdala from subjects with mood disorders. *Soc. Neurosci. Abstr.* 30:445.2.

9. **Bezchlibnyk YB,** Pillay N, Wiebe S, Hader WJ (2012) Corpus Callosotomy, Risks and Benefits: A systematic review of the evidence. *Epilepsy Curr*. 12:SUPPL 1.

10. **Bezchlibnyk YB,** Gomes K, Hunka K, Lawrence P, Ranawaya R, Kraft S, Furtado S, Kiss ZHT. (2014) Long-term outcomes of pallidal DBS for cervical dystonia*. Can. J. Neurol. Sci.* 41:SUPPL 1 (S16).

11. **Bezchlibnyk YB,** Haffenden A, Hunka K, Lawrence P, Kraft S, Kiss ZHT. (2014) Different neuropsychiatric outcomes in pallidal versus subthalamic DBS for Parkinson disease. *Stereotact. Funct. Neurosurg.* 92:SUPPL 1 (61).

12. **Bezchlibnyk YB,** Sharma VD, Naik KB, Isbaine F, Gale J, Cheng J, Triche T, Miocinovic S, Buetefisch, Wille JT, Moulis N, Factor SA, DeLong M, Gross RE. (2018) A Comparison of Lead Location, Placement Accuracy, and Clinical Outcomes Following Intraoperative MRI- and MER-guided Pallidal Deep Brain Stimulation for Parkinson's Disease. *Stereotact. Funct. Neurosurg.* 96:SUPPL 1.

13. Abel NA, Goloubev A, **Bezchlibnyk Y,** Agazzi S. (2018) The risk of subdural fluid collection following high volume lumbar puncture for the evaluation of idiopathic normal pressure hydrocephalus. *Fluids Barriers CNS*. 15:SUPPL 2.

14. Shub A, **Bezchlibnyk YB,** Smith D, Malapira T, Miller WW, Huang Y, Aradi S, Zesiewicz T. (2020) Clinical Outcomes from Directional Deep Brain Stimulation in Parkinson's Disease Patients: A Retrospective Analysis. *Neurology*. 94:15 SUPPL.

15. Llanes N, MacIver S, Amin U, Rivera-Cruz A, **Bezchlibnyk Y,** Benbadis S. (2021) BIRDs on Stereoelectroencephalography (SEEG). AES 2021 Annual Meeting Abstract Database. AESnet.org.

16. Neal E, Bezchlibnyk Y, Dacpano L, Benbadis S, MacIver S, Amin U. (2021) Use of the NeuroPace RNS System at a Typical Level 4

Academic Center. AES 2021 Annual Meeting Abstract Database. AESnet.org.

17. Finch D, Li P, Park YJ, Di L, Korneli F, Neal E, MacIver S, Schoenberg M, **Bezchlibnyk Y.** (2021) Seizure Semiology Associated with Anti-Correlated Seizure Network in TLE Surgical Patients. AES 2021 Annual Meeting Abstract Database. AESnet.org.

18. Shub A, Zesiewicz T, Smith D, Malapira T, Hancock J, **Bezchlibnyk Y**. (2021) Clinical Outcomes from Deep Brain Stimulation with Multiple Independent Current Control (MICC) in Parkinson's Disease. *Neurology*. 96:15 SUPPL 1.

19. Aldred J, Zesiewicz T, **Bezchlibnyk Y,** Carlson J, Chen L, Jain R. (2021) Utilization of New Visualization Software for Deep Brain Stimulation Programming Using a Multiple-Source, Constant-Rechargeable System. *Neurology*. 96:15 SUPPL 1.

20. Aldred J, **Bezchlibnyk Y,** Carlson J, Foote K, Sani S, Papanastassiou A, Jagid J, Weintraub D, Zesiewicz T, Okun M, Mehtman L, Ramirez-Casaneda J, Luca C, Ramdhani R, Chen L, Jain R. (2021) Programming Time Using a Novel Visualization Tool in a Deep Brain Stimulation Registry. *Stereotact. Funct. Neurosurg.* 99:SUPPL 1 (80-81).

21. Groppa S, Pilitsis J, Shin-Yuan SY, Vesper J, Verhagen L, **Bezchlibnyk Y,** Garcia MN, Ashkan K, Nagel S, Pahwa R, Giordana C, Lehn A, Warnecke T, Glaser, M, Lin S, Defresne F, Karst E, Cheeran B, Schnitzler A. (2021) ADROIT study: current recruitment and DBS implant data. *Mov. Disord*. 36:SUPPL 1 (S134).

22. Aldred J, Zesiewicz T, **Bezchlibnyk Y,** Carlson J, Chen L, Jain, R. (2021) Visualization Tool for DBS Programming with a Multiple Source, Constant Current System Reduces Initial Programming Time. *Mov. Disord*. 36:SUPPL 1 (S554-S555).

23. Isaacs AM, **Bezchlibnyk YB,** Dronyk J, Urbaneja G, Yong H, Hamilton MG. (2021) Long-Term Outcomes of Endoscopic Third Ventricle Colloid Cyst Resection: Case Series With a Proposed Grading System. *Neurosurgery*. 89(S2):S141-S141.

24. Liaw D, Lockard G, George G, Alayli A, Amin U, **Bezchlibnyk Y.** (2022) Effect of Time from Diagnosis to Implantation of Vagus Nerve Stimulation on Seizure Frequency in Generalized Epilepsy Patients. *AES 2022 Annual Meeting Abstract Database. AESnet.org.*

25. Ghanekar S, Madhuri FNU, Shub A, Lozano L, Huang Y, **Bezchlibnyk Y,** Smith D, Hauser R, Mitchell A, Zesiewicz T.

(2022) Impact of COVID-19 on Movement Disorders Patients in the Outpatient Setting. *Neurology*. 98:18 SUPPL, 3573.

26. Aldred J, Zesiewicz T, Ramirez-Castaneda J, Okun MS, Luca C, Ramdhani R, Verhagen-Metman L, Durphy J, Siddiqui M, **Bezchlibnyk Y,** Carlson J, Foot K, Sani S, Papanastassiou A, Weintraub D, Jagid J, Pilitsis J, Tatter S, Chen L, Jain R. (2022) Programming Time and the Use of a Visualization Tool for DBS Programming of a Multiple-Source, Constant-Current System. *Neurology*. 98:18 SUPPL, 885.

27. Okun M, Foote K, Zesiewicz T, **Bezchlibnyk Y,** Papanastassiou A, Ramirez-Castaneda J, Carlson J, Aldred J, Krishna V, Merola A, Luca C, Jagid J, Durphy J, Verhagen-Metman L, Sani S, Ojemann S, Kern D, Weintraub D, Ramdhani R, Jain R. (2022) Prospective, Multicenter, Real-World Outcomes Study with Directional Deep Brain Stimulation Systems in the Treatment of Parkinson's Disease. *Stereotact Funct Neurosurgy* 2022;100(suppl 1):3-370

28. Aldred J, Zesiewicz T, Ramirez-Castaneda J, Okun MS, Luca C, Ramdhani R, Verhagen-Metman L, Durphy J, Siddiqui M, **Bezchlibnyk Y,** Carlson J, Foot K, Sani S, Weintraub D, Jagid J, Pilitsis J, Chen L, Jain R. (2022) Use of Image-Guided Programming with a Multiple-Source, Constant-Current DBS System Reduces Initial Programming Time. *Stereotact Funct Neurosurgy* 2022;100(suppl 1):3-370

29. Liaw D, Lockard G, Alayli A, George Z, Amin U, **Bezchlibnyk Y.** (2022) Does Earlier Implantation of Vagus Nerve Stimulation (VNS) Reduce Seizure-Related Morbidity in Generalized Epilepsy Patients? *Stereotact Funct Neurosurgy* 2022;100(suppl 1):3-370

30. Pilitsis J, Chen SY, Navas Garcia M, Schnitzler A, Verhagen Metman L, **Bezchlibnyk Y,** Gharabaghi A, Giordana S, Moretti P, Nagel S, Ashkan K, Changizi B, Lehn A, Mir P, Pahwam R, Evans A, Piano C, Solis-Cohen L, Pekkonen E, Tomycz N, Neimat JS, Frassica M, Cheeran B, Groppa S. (2022) Impact of Operative Approach on Patient Outcomes in DBS: An Interim Report of 6-month Outcomes for Parkinson's Disease and Essential Tremor Subjects in ADROIT. *Stereotact Funct Neurosurgy* 2022;100(suppl 2):3-90.

31. Aldred J, Zesiewicz T, Ramirez-Castaneda J, Okun MS, Luca C, Ramdhani R, Verhagen-Metman L, Durphy J, Siddiqui M, **Bezchlibnyk Y,** Carlson J, Foot K, Sani S, Weintraub D, Jagid J, Pilitsis J, Chen L, Jain R. (2022) Initial Programming Times Using ImageGuided Programming With a Multiple-Source, Constant-Current DBS System. *Stereotact Funct Neurosurgy* 2022;100(suppl 2):3-90.

32. Aldred J, Zesiewicz T, Ramirez-Castaneda J, Okun MS, Luca C, Ramdhani R, Verhagen-Metman L, Durphy J, Siddiqui M, **Bezchlibnyk Y,** Carlson J, Foot K, Sani S, Papanastassiou A, Jagid J, Weintraub D, Pilitsis J, Tatter S, Chen L, Jain R. (2022) Visualization Tool for DBS Programming Used with a Multiple-Source, Constant-Current System Reduces Initial Programming Time. *Neuromodulation*. 25:5 SUPPL (S6-S7).

33. Aldred J, Zesiewicz T, Okun MS, Ramirez-Castaneda J, Verhagen-Metman L, Luca C, Ramdhani R, Durphy J, **Bezchlibnyk Y,** Foot K, Sani S, Papanastassiou A, Carlson J, Jagid J, Weintraub D, Pilitsis J, Pei Y, Jain R. (2022) Programming Time and the Use of a Visualization Tool for DBS Programming of a Multiple-Source, Constant-Current System. *Neuromodulation*. 25:7 SUPPL (S373).

34. Shub A, Smith D, Zesiewicz T, Malapira T, Kingsbury C, Jain R, **Bezchlibnyk Y**. (2022) Deep Brain Stimulation Parameter Prediction using GuideXT and Traditional Monopolar Survey in Parkinson's Disease Patients. *Neurology*. 98:18 SUPPL.

35. Hancock JU, Ghanekar S, Madhuri FNU, Shub A, Lozano L, Huang Y, **Bezchlibnyk Y,** Smith D, Zesiewicz T, Kingsbury C, White C, Vega J. (2022). The Impact of the COVID-19 Pandemic on Movement Disorders Patients in the Outpatient Setting. *Tower Health Research Day*. 34. https://scholarcommons.towerhealth.org/th_researchday/2022/onlineposters/34

36. Okun M, Foote K, Zesiewicz T, **Bezchlibnyk Y,** Papanastassiou A, Carlson J, Aldred J, Krishna V, Merola A, Luca C, Jagid J, Durphy J, Verhagen-Metman L, Sani S, Ojemann S, Kern D, Weintraub D, Ramdhani R, Siadati A, Sundaram B, Zhao C, Martinez D, Siddiqui M, Tatter S, Chen L, Jain R. (2023). Real-World Outcomes in USA using DBS Systems with Directionality and Multiple Independent Current Control. *Neurology.* 100:17 SUPPL 2.

37. Aldred J, Zesiewicz T, Okun MS, Ramirez-Castaneda J, Verhagen-Metman L, Luca C, Ramdhani R, Durphy J, **Bezchlibnyk Y,** Carlson J, Foot K, Sani S, Papanastassiou A, Jagid J, Weintraub D, Pilitsis J, Chen L, Jain R. (2023) Image-Guided Programming Tool for DBS Programming Used with a Multiple-Source, Constant-Current System Reduces Initial Programming Time. *Neurology*. 100:17 SUPPL 2, 1386.

38. Shub A, Smith D, Zesiewicz T, Malapira T, Bezchlibnyk Y. (2023) Therapeutic Outcomes of Directional Deep Brain Stimulation in Essential Tremor Patients. *Neurology*. 100:17 SUPPL 2, 4241.

39. Okun M, Foote K, Zesiewicz T, **Bezchlibnyk Y,** Papanastassiou A, Ramirez-Castaneda J, Carlson J, Aldred J, Krishna V, Merola A,

Luca C, Jagid J, Durphy J, Verhagen L, Sani S, Ojemann S, Kern D, Weintraub D, Ramdhani R, Siadati A, Sundaram B, Zhao C, Martinez D, Siddiqui M, Tatter S, Chen L, Jain R. (2023). Real-World Outcomes using DBS Systems with Directionality and Multiple Independent Current Control: USA Experience. *Neuromodulation*. 26:4 SUPPL S16.

40. Aldred J, Zesiewicz T, Okun MS, Ramirez-Castaneda J, Verhagen L, Luca C, Ramdhani R, Durphy J, **Bezchlibnyk Y,** Carlson J, Foot K, Sani S, Papanastassiou A, Jagid J, Weintraub D, Pilitsis J, Chen L, Jain R. (2023) Image-Guided Programming Reduces Initial DBS Programing Time in Parkinson's Disease Patients. *Neuromodulation*. 26:4 SUPPL 17.

41. Aldred J, Zesiewicz T, Okun MS, Ramirez-Castaneda J, Verhagen-Metman L, Luca C, Ramdhani R, Durphy J, **Bezchlibnyk Y,** Carlson J, Foot K, Sani S, Papanastassiou A, Jagid J, Weintraub D, Pilitsis J, Reese B, Chen L, Goldberg E. (2023). Impact of image guided programing (IGP) on initial DBS clinic visit times and outcomes: EPoster Viewing: AS04 – Movement Disorders. *Neuromodulation*. 26:8 SUPPL S8.

42. George Z, Neal E, Alayli A, Piper K, Monsour M, Schimmel S, Di L, MacIver S, Boscarino J, Schoenberg M, Vale F, **Bezchlibnyk Y.** (2023) Neuropsychological Outcomes of Hippocampus-Sparing Anterior Temporal Lobectomy vs. Stereotactic Laser Amygdalohippocampotomy in Language-Dominant Temporal Lobe Epilepsy. AES 2023 Annual Meeting Abstract Database. AESnet.org.

43. Neal E, Piper K, Schimmel S, George Z, Monsour M, Lockard G, MacIver S, Vale F, **Bezchlibnyk Y.** (2023) No Change in Network Connectivity Measurements with Shorter Resting fMRI Acquisition Times. AES 2023 Annual Meeting Abstract Database. AESnet.org.

44. Llanes N, Azevedo M, Corso K, **Bezchlibnyk Y,** Amin U, Rivera-Cruz A, Benbadis S. (2023) Combining Neurostimulation Modalities for Intractable Epilepsy. AES 2023 Annual Meeting Abstract Database. AESnet.org.

45. Aldred J, Zesiewicz T, Okun MS, Ramirez-Castaneda J, Verhagen-Metman L, Luca C, Ramdhani R, Durphy J, **Bezchlibnyk Y,** Carlson J, Foot K, Sani S, Papanastassiou A, Jagid J, Weintraub D, Pilitsis J, Reese B, Chen L, Shivacharan R, Goldberg E. (2024). Assessment of lmage-guided Programming (IGP) on Bilateral STN and GPi Deep Brain Stimulation Programming Time. *Neurology*. 102:17 SUPPL 1

46. Okun M, Foote K, Zesiewicz T, **Bezchlibnyk Y,** Papanastassiou A, Ramirez-Castaneda J, Carlson J, Aldred J, Krishna V, Luca C, Jagid J, Durphy J, Verhagen-Metman L, Sani S, Ojemann S, Kern D, Ramdhani R, Weintraub D, Siadati A, Sundaram B, Zhao C, Martinez D, Siddiqui M, Tatter S, Chen L, Goldberg E. (2024). Real-World Outcomes using DBS Systems with Directionality and Multiple Independent Current Control: USA Experience. *Neurology*. 102:17 SUPPL 1.

47. Neal EG, Schimmel SJ, George Z, Alayli A, Lockard G, Piper K, Vale FL, **Bezchlibnyk YB.** (2024) Modeling the Epileptogenic Network Disconnection with Simulated Temporal Lobe Surgery. *Stereotact Funct Neurosurgy* 2024;102(suppl 1)

48. Okun M, Foote K, Zesiewicz T, **Bezchlibnyk YB,** Papanastassiou AM, Ramirez-Castaneda J, Carlson JD, Aldred J, Krishna V, Luca C, Jagid JR, Durphy J, Verhagen-Metman L, Sani S, Ojemann S, Kern D, Weintraub D, Rahani R, Siadati A, Sundaram B, Zhao C, Martinez D, Siddiqui M, Tatter SB, Chen L, Goldberg E. (2024). Real-World Outcomes using DBS Systems with Directionality and Multiple Independent Current Control: USA Experience. *Stereotact Funct Neurosurgy* 2024;102(suppl 1)

49. Sun Y, Bentley N, Isbaine F, Cheng J, **Bezchlibnyk YB,** Gross RE, Willie JT. (2024) Accuracy and Outcomes for Stereotactic Laser Amygdalohippocampotomy Using a Fully MRI-Compatible Platform. *Stereotact Funct Neurosurgy* 2024;102(suppl 1)

50. Aldred J, Zesiewicz T, Okun MS, Ramirez-Castaneda J, Verhagen-Metman L, Luca C, Ramdhani R, Durphy J, **Bezchlibnyk Y,** Carlson J, Foot K, Sani S, Papanastassiou A, Jagid J, Weintraub D, Pilitsis J, Reese B, Chen L, Shivacharan R, Goldberg E. (2024). Assessment of lmage-guided Programming (IGP) on Bilateral STN and GPi Deep Brain Stimulation Programming Time. *Stereotact Funct Neurosurgy* 2024;102(suppl 1)

51. Neal EG, Schimmel SJ, George Z, Monsour M, Alayli A, Lockard G, Piper K, Vale FL, **Bezchlibnyk YB.** (2024) Imaging Disconnection of The Broader Temporal Lobe Network after Resection or Ablation. *Stereotact Funct Neurosurgy* 2024;102(suppl 1)

52. Okun M, Foote K, Zesiewicz T, **Bezchlibnyk Y,** Papanastassiou A, Ramirez-Castaneda J, Carlson J, Aldred J, Krishna V, Luca C, Jagid J, Durphy J, Verhagen-Metman L, Sani S, Ojemann S, Kern D, Weintraub D, Ramdhani R, Siadati A, Sundaram B, Zhao C, Martinez D, Siddiqui M, Tatter S, Chen L, (2024). Real-World Outcomes using DBS Systems with Directionality and Multiple Independent Current Control: USA Experience. *Neuromodulation: Technology at the Neural Interface*. 27:7 SUPPL 1.

53. Schimmel S, George Z, Piper K, Correa N, Kumar J, Neal E, Zesiewicz T, **Bezchlibnyk Y**. (2024) New indication for an old tool: systematic review of deep brain stimulation for Spinocerebellar Ataxia. *Neuromodulation: Technology at the Neural Interface*. 27:7 SUPPL 1, S43.

54. Ahluwalia M, Ozair A, Burns T, McDermott M, Sahgal A, DeGroot J, Mogilner A, Hibert M, Zhu J, Shah B, Patel T, Rincon-Torroella J, Mishra M, Everson R, Sporrer J, Hilliard J, **Bezchlibnyk Y,** Weinberg J, Cifarelli C, Rezai A, Lipsman N, Woodworth G. (2024) INNV-15. A Pivotal, Multicenter Trial for Focused Ultrasound for Blood-Brain Barrier Disruption for Plasma-Based Liquid Biopsy in Patients with Glioblastoma (LIBERATE), *Neuro-Oncology*, 26:S8, viii172.

55. Cation B, **Bezchlibnyk Y,** Rivera-Cruz A, Leon Y, Schoenberg M. AGR – 1 Long-term Neuropsychological Follow-up after 7 Years of Responsive Neurostimulation (RNS). (2024) *Archives of Clinical Neuropsychology*, 39:7, 922.

<u>Oral presentations</u>

1. "The HLA region and Obsessive-Compulsive Disorder". **Bezchlibnyk YB,** Barr CL, Swinson RP, Mundo E, Kennedy JL, Richter MA. (1999) 25th Annual Harvey Stancer Research Day. Department of Psychiatry, University of Toronto. Toronto, ON. Canada

2. "Morphological changes in hippocampal neurons following stimulation in the subgenual cingulate cortex". **Bezchlibnyk YB,** Stone SS, Hamani C, Lozano AM. (2010) *2010 Meeting of the Alberta Neurosurgical Society.* Banff, AB. Canada

3. "Corpus callosotomy: A systematic review of the evidence". **Bezchlibnyk YB,** Hader WJ. (2011) *2011 Kenneth C. Petruk Resident Research Symposium.* Edmonton, AB. Canada

4. "Trauma neurosurgery in Cape Town, South Africa". **Bezchlibnyk YB,** Fieggen, G. (2012) *2012 Meeting of the Alberta Neurosurgical Society.* Banff, AB. Canada

5. "Seizure outcome and extent of resection in corpus callosotomy for intractable epilepsy; The Calgary experience". **Bezchlibnyk YB,** Pillay N, Wiebe S, Hader WJ. (2013) *2013 Meeting of the Alberta Neurosurgical Society.* Banff, AB. Canada

6. "Long-term clinical outcomes in cervical dystonia following Deep Brain Stimulation". **Bezchlibnyk YB,** Kiss ZHT. (2014). *2014 Meeting of the Alberta Neurosurgical Society.* Banff, AB. Canada

7. "Long-term outcomes of pallidal DBS for cervical dystonia". **Bezchlibnyk YB,** Gomes K, Hunka K, Lawrence P, Ranawaya R, Kraft S, Furtado S, Kiss ZHT. (2014) *49th Annual Congress of the Canadian Neurological Sciences Federation.* Banff, AB. Canada

8. "Different neuropsychiatric outcomes in pallidal versus subthalamic DBS for Parkinson disease". **Bezchlibnyk YB,** Haffenden A, Hunka K, Lawrence P, Kraft S, Kiss ZHT. (2014) *Stereotact Funct Neurosurg*; 92 (suppl 1): 1-75; *Biennial Meeting of the American Society for Stereotactic and Functional Neurosurgery.* Washington, DC. USA

9. "Chronic deep brain stimulation-induced plasticity in the rat basal ganglia". **Bezchlibnyk YB,** Hailey J, Inan S, Kiss ZHT. (2015) *2015 Meeting of the Alberta Neurosurgical Society.* Banff, AB. Canada

10. "High frequency stimulation of the infralimbic cortex induces morphological changes in rat hippocampal neurons". **Bezchlibnyk YB**, Stone SS, Hamani C , Lozano AM. (2016) *North Georgia Regional Annual Memory Meeting.* Stone Mountain, GA, USA

11. "Impact of Operative Approach on Patient Outcomes in DBS: An Interim Report of 6-month Outcomes for Parkinson's Disease and Essential Tremor Subjects in ADROIT". Pilitsis J, Chen SY, Garcia MN, Schnitzler A, Verhagen L, **Bezchlibnyk Y,** Gharabaghi A, Giordana C, Moretti P, Nagel S, Ashkan K, Changizi B, Lehn A, Mir Rivera P, Pahwal R, Evans A, Piano C, Solis-Cohen J, Pekkonen E, Tomycz N, Neimat J, Frassica M, Cheeran B, Groppa S. (2022) *Biennial Meeting of the American Society for Stereotactic and Functional Neurosurgery.* Atlanta, GA. USA

12. "Long-term Neuropsychological Follow-up after 7 Years of Responsive Neurostimulation (RNS)". Cation B, **Bezchlibnyk Y,** Rivera-Cruz A, León YC, Schoenberg MR. (2024). Grand Rounds *Annual Conference of the National Academy of Neuropsychology*, Austin, TX

Service

<u>National/International</u>

CAST Stereotactic/Functional Neurosurgery Fellowship Review Committee	2024-present
ASSFN Education Committee	2024-present

<u>University/Hospital/Professional</u>

2017-present

Member, University of South Florida Morsani College of Medicine Faculty Council

Community Service

Volunteer, Infectious Diseases in Mumbai Program, Child Family Health International	2006
Counselor, Therapeutic Communications Program, Centre for Addiction and Mental Health, Toronto, Canada	2007
Program coordinator, Therapeutic Communications Program, Centre for Addiction and Mental Health, Toronto, Canada	2007-2008
Fundraiser and Spokesperson, Medical Students Ride for HIV/AIDS, Dignitas International.	2008-2010
Speaker at various patient support groups, including:	2017
"Surgery for Parkinson's Disease". USF Parkinson's Disease Symposium, Tampa, FL.	
"Advances in the Surgical Treatment of Epilepsy". Neurology Awareness Fair, Tampa, FL.	2017
"Surgical Innovations in Diagnosing and Treating Drug Resistant Epilepsy". Epilepsy Town Hall, Tampa, FL.	2018
"Surgery for Essential Tremor". International Essential Tremor Foundation Education Forum, Tampa, FL.	2018
"Surgery for Parkinson's Disease". Parkinson's Disease Support Group. Tampa, FL.	2019
"Deep Brain Stimulation and Focused Ultrasound as Therapy". Parkinson and Movement Disorder Alliance – Spotlight on Treatment. Orlando, FL.	2020
"Advances in the Surgical Treatment of Epilepsy". Josh Provides Epilepsy Assistance Foundation, Online symposium.	2020
"Exploring Deep Brain Stimulation and Focused Ultrasound for Parkinson's Disease". JCC Lunch and Learn. Online symposium.	2020
"Parkinson's disease and advances in Abbott DBS Therapy: Directionality and Remote Programming". Neuro Challenge Foundation for Parkinson's Disease. Online symposium.	2021
"Advancements in Telemedicine and Neuromodulation Treatment Options for Parkinson's Disease". PD Neuro Challenge. Online symposium.	2022
"Parkinson's Disease and Essential Tremor" DBS and Focused Ultrasound – Improving Quality of Life. Cypress Lake Village. Online Symposium.	2023
"Deep Brain Stimulation (DBS) therapy and advancements in Remote Programming Telemedicine". Philip Shayman Parkinson's Program at the Bryan Glazer Family JCC. Tampa, FL.	2023
"Treatment Options for Medically Refractory PD". Florida Chapter Parkinson's Symposium, JCC, Tampa, FL	2024

Media Appearances

Toronto Motorcycle Show	Dec 12-14, 2008
North American International SuperShow (January 2-4, 2009)	Jan 2-4, 2009
Featured in news articles (Medical Students Ride for HIV/AIDS):	
"A Different Sudan." Agence-France Presse.	July 23, 2008
"Eat my Dust, Obi-Wan." The Sunday Times.	Sept 7, 2008
"Friends Ride 23,000 km to save lives in Africa." Toronto Star.	Sept 30, 2008
"Tampa man experiencing 'uncontrollable tremors' treated through focused ultrasound at TGH", Haley Hinds, FOX 13 News. https://www.fox13news.com/news/tampa-man-experiencing-uncontrollable-tremors-treated-through-focused-ultrasound-at-tgh	Feb 28, 2023
"Deep brain stimulation and Depression" Live interview on FOX 13 News	February 27, 2024
"Ultrasound treatment at Tampa General Hospital eliminates tremors", Chris Martinez, NewsChannel 8 (NBC/WFLA). https://www.wfla.com/bloom-tampa-bay/bloom-health-and-wellness/ultrasound-treatment-at-tampa-general-hospital-eliminates-tremors	March 26, 2024
"Pacemaker-like device offers new hope for Tampa stroke patients", Melissa Eichman, Bay News 9. https://baynews9.com/fl/tampa/news/2024/03/26/vivistim	March 26, 2024
"Tampa doctors fit device that restores arm movement to stroke victims", Christopher O'Donnell, Tampa Bay Times/Orlando Sentinel. https://www.tampabay.com/news/health/2024/03/27/tampa-general-stroke-victim-rehab-vagus/	March 27, 2024
"Deep brain stimulation could offer treatment for depression", Chris Martinez, NewsChannel 8 (NBC/WFLA). https://www.wfla.com/bloom-tampa-bay/bloom-health-and-wellness/deep-brain-stimulation-could-offer-treatment-for-depression/	April 2, 2024
"Tampa General Hospital Introduces Device Aimed at Improving Stroke Patient Recovery" Kylie Jones, FOX 13 News. https://www.fox13news.com/news/tampa-general-hospital-introduces-device-aimed-improving-stroke-patient-recovery	May 22, 2024

Society memberships

Member, Society for Neuroscience	1999-2006
Member, Canadian Medical Association/Alberta Medical Association	2010-present 2010-2018

Member, Canadian Neurological Sciences Federation/Canadian Neurosurgical Society	2018-present
Fellow, American Society for Stereotactic and Functional Neurosurgery	2018-present
Member, American Epilepsy Society	

Editorial positions

World Neurosurgery, Reviewer	2017-present
Neurobiology of Disease, Reviewer	2019-present
Journal of Neurology, Reviewer	2019-present
Neurosurgical Review, Reviewer	2020-present
Stereotactic and Functional Neurosurgery, Reviewer	2021-present
Neurosurgery, Reviewer	2021-present
Operative Neurosurgery	2022-present
Brain Sciences, Reviewer	2022-present
Frontiers in Neurology, Reviewer	2022-present