

CURRICULUM VITAE**Yarema Basil Bezchlibnyk, MD, PhD, FRCSC**

Assistant Professor of Neurosurgery

Department of Neurosurgery and Brain Repair

University of South Florida, Morsani College of Medicine

South Tampa Center, 7th Floor

2 Tampa General Circle, Room 7049

Tampa, FL. 33606

Office: 813-259-0633*e-mail:* yaremab@health.usf.edu**ACADEMIC APPOINTMENTS**

2017 – present **Assistant Professor of Neurosurgery**, Department of Neurosurgery and Brain Repair,
University of South Florida Morsani School of Medicine
Focus: Stereotactic, Functional Neurosurgery & Epilepsy Surgery

EDUCATION AND TRAINING

2016 – 2017 **Fellow, Stereotactic, Functional Neurosurgery & Epilepsy Surgery**, Emory University
Program Director: Dr. Robert E. Gross

2017 *Advancing Epilepsy Treatment with Brain-Responsive Neurostimulation*, NeuroPace

2016 *DBS Graduating Fellows Program*, Medtronic

2016 *Stereotactic and Functional Neurosurgery Hands-on Workshop*, University of Colorado

2010 – 2016 **Resident, Division of Neurosurgery**, Faculty of Medicine, University of Calgary
Program Director: Dr. R. John Hurlbert (2010-2016); Dr. Jay Riva-Cambrin (2016)

2016 *2nd International Tractography Workshop*, University of Calgary

2015 *W. Lougheed Microsurgical Course*, University of Toronto

2013 *Spine and Peripheral Nerve Anatomy and Surgery Course*, University of Calgary

2012 *International observership:* Dr. Graham Fieggen; Groote Schuur Hospital & Red Cross War Memorial Children's Hospital, Cape Town, South Africa.

2013 – 2014 **Post-Doctoral Research Fellow**, Hotchkiss Brain Institute, University of Calgary
Supervisor: Dr. Zelma H.T. Kiss
Focus: DBS-induced plasticity in the basal ganglia-thalamic system.

2006 – 2010 **Doctor of Medicine**, Faculty of Medicine, University of Toronto

1999 – 2006 **Doctor of Philosophy**, Dept. of Medical Sciences, Faculty of Health Sciences,
McMaster University
Supervisor: Dr. L. Trevor Young
Thesis title: Cellular and molecular changes in bipolar disorder.
Courses: Clinical neuroanatomy; Psychoneuroimmunology; Neurochemistry; Drug-receptor interactions; Statistics.

- 1994 – 1999 **Honours Bachelor of Science**, University of St. Michael's College, University of Toronto
Supervisor: Dr. James L. Kennedy
Thesis title: Investigation of the myelin/oligodendrocyte glycoprotein (MOG) and HLA region CA repeat loci in obsessive compulsive disorder.
Specialist: Molecular Genetics and Molecular Biology
Major: Human Biology; *Minor:* Bioethics.

HOSPITAL AFFILIATIONS

- 2017 – present **Tampa General Hospital**, Tampa, FL (Attending)
2016 – 2017 **Emory University Hospital**, Atlanta, GA (Attending privileges)
2016 – 2017 **Emory University Midtown Hospital**, Atlanta, GA (Attending privileges)
2016 – 2017 **Emory Saint Joseph's**, Atlanta, GA (Attending privileges)
2016 – 2017 **Grady Memorial Hospital**, Atlanta, GA (Attending privileges)
2016 – 2017 **Children's Healthcare of Atlanta**, Atlanta, GA (Attending privileges)

HONOURS AND AWARDS

- 2014 **Alberta Neurosurgical Society Annual Resident Clinical Presentation Award**
2006 – 2010 **Honours Standing**, University of Toronto Faculty of Medicine
2009 **Dr. Charlotte Hahn Memorial Scholarship**, University of Toronto Faculty of Medicine
2007 **Jane and Howard O. Jones Fund**, University of Toronto Faculty of Medicine
2006 **Dr. Ronald Kum Pui Mok Admissions Scholarship**, University of Toronto Faculty of Medicine
2004 – 2005 **Ontario Graduate Scholarship** (Graduate research grant)
2002 – 2004 **National Science & Engineering Research Council Postgraduate Scholarship** (Graduate research grant)
2002 – 2003 **Ontario Graduate Scholarship** (Graduate research grant, declined in favour of NSERC)
1999 **McMaster University Graduate Research Scholarship**
1999 **Graduated With Distinction**, University of Toronto
1994 **John Delplam Jr. Memorial Scholarship** (Academic achievement)
1994 **John Lorimer Scholarship** (Academic achievement)
1994 **University of Toronto Entrance Scholarship**

LICENSURE AND CERTIFICATIONS

- 2017 **Florida Board of Health**, Unrestricted Physician Licence # ME 133248
2016 **Georgia Composite Medical Board**, Physician Licence # 75605
2016 **DEA**, Controlled Substances certificate – Sch. 2,2N,3,3N,4,5, Registration # FB5889538
2016 **Royal College of Physicians and Surgeons of Canada**, Specialist Certificate in Neurosurgery
2014 **National Board of Medical Examiners (NBME) USMLE Steps 1, 2 CK/CS, 3**
2011 **Licentiate of the Medical Council of Canada**

- 2010 **College of Physicians and Surgeons of Alberta (CPSA)**, License # 016678
2010 **Doctor of Medicine, University of Toronto**

PROFESSIONAL ASSOCIATIONS AND MEMBERSHIPS

- 2016 – present **Fellow, Royal College of Physicians and Surgeons of Canada**
2014 – present **American Society for Stereotactic and Functional Neurosurgery (ASSFN)**
2012 – present **Congress of Neurological Surgeons**
2010 – present **American Association of Neurological Surgeons**
2010 – present **Canadian Neurological Sciences Federation/Canadian Neurosurgical Society**
2010 – present **College of Physicians and Surgeons of Alberta**
2010 – present **Canadian Medical Association/Alberta Medical Association**
1999 – present **Society for Neuroscience**

RESEARCH

- 2013 – 2014 **Dr. Zelma Kiss**, Associate Professor, Department of Clinical Neurosciences, University of Calgary; Clinical Scientist, Hotchkiss Brain Institute
Post-Doctoral Fellow
Project title: DBS-induced plasticity in the basal ganglia-thalamic system.
- 2007 – 2008 **Dr. Andres M. Lozano**, Dan Family Chair in Neurosurgery, University of Toronto; RR Tasker Chair in Functional Neurosurgery; Professor, Division of Surgery, University of Toronto; Head, Applied & Interventional Research, Toronto Western Research Institute
Research Scholar
Project title: Morphological changes in hippocampal neurons subsequent to the application of deep brain stimulation in the subgenual cingulate cortex.
- 2007 – 2008 **Karen O'Connor**, Senior Director, Clinical Programs and Strategic Planning, Canadian Mental Health Association
Student Researcher
Project title: Characterization of the psychosocial and sociodemographic factors associated with inter-subject variability in weight gain subsequent to treatment with atypical antipsychotics in subjects with affective psychoses.
- 1999 – 2006 **Dr. L. Trevor Young**, Dean, Faculty of Medicine, University of Toronto; Vice Provost, Relations with Health Care Institutions; Professor, Departments of Psychiatry and Pharmacology, University of Toronto
- 2005 – 2006 *Research Scholar*
Project title: Effects of restraint stress on the expression of proteins involved in synaptic vesicle exocytosis in the hippocampus
- 1999 – 2005 *Ph.D. Student*
Project title: The role of cellular and molecular changes in the aetiology and pharmacotherapy of mood disorders

- 1998 – 1999 **Dr. James L. Kennedy**, Head, Department of Psychiatric Neurogenetics; Head, Tanenbaum Centre for Pharmacogenetics, Centre for Addiction and Mental Health; Director, Neuroscience Research Department; I'Anson Professor and Co-Director, Brain and Therapeutics Division, Department of Psychiatry; Professor, Institute of Medical Science, University of Toronto
- 1998 – 1999 *Honours Thesis Student*
Project title: Association of the Myelin Oligodendrocyte Glycoprotein (MOG) Gene with Obsessive-Compulsive Disorder.
- 1998 *Student Researcher*
Project title: Characterization of the contribution of trinucleotide repeats in the KCNN3 gene to bipolar and schizoaffective disorders.
- 1996 **Dr. Philip Seeman**, Professor Emeritus, Department of Pharmacology, University of Toronto
Student Researcher
Project title: The role of dopamine receptors in the pathogenesis of Schizophrenia.

PUBLICATIONS, ABSTRACTS, AND PRESENTATIONS

**indicates authors contributed equally to the manuscript*

MANUSCRIPTS IN PREPARATION

1. Sharma V*, **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 pallidal deep brain stimulation for dystonia using intraoperative MRI. (*In preparation*).
2. **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 pallidal deep brain stimulation for Parkinson Disease comparing intraoperative MRI- and MER-guided lead placement. (*In preparation*).
3. **Bezchlibnyk YB**, Cheng J, Keebaugh A, Kelly E, Willie JT, Boulis NM, Gross RE. Accuracy of MR-guided placement of deep-brain stimulating electrodes using the ClearPoint system. (*In preparation*).
4. **Bezchlibnyk YB**, Inan SY, Hailey J, Dyck RH, Kiss ZHT. Long-term deep brain stimulation in rat basal ganglia: Behavior and immunohistochemistry. (*Awaiting final approval from corresponding author*).
5. **Bezchlibnyk YB**, Gomes K, Hunka K, Lawrence P, Ranawaya R, Kraft S, Furtado S, Kiss ZHT. Long-term outcomes of pallidal DBS for cervical dystonia. (*Awaiting final approval from corresponding author*).
6. **Bezchlibnyk YB**, Haffenden A, Hunka K, Lawrence P, Kraft S, Kiss ZHT. Different neuropsychiatric outcomes in pallidal versus subthalamic DBS for Parkinson disease. (*Awaiting final approval from corresponding author*).
7. Isaacs AM, **Bezchlibnyk YB**, Hamilton MG. Endoscopic resection of colloid cysts: long-term follow-up in 63 patients. (*In preparation*).
8. **Bezchlibnyk YB**, Pillay N, Wiebe S, Hader WJ. Corpus callosotomy: a systematic review of the evidence. (*Awaiting final approval from corresponding author*).

PEER-REVIEWED PUBLICATIONS

1. **Bezchlibnyk YB**, Willie JT, Gross RE. (2017). A Neurosurgeon`s View: Laser Interstitial Thermal Therapy of Mesial Temporal Lobe Structures. *Epilepsy Res. E-pub ahead of print Oct 27*.
2. Keifer O, Diaz A, Campbell MA, **Bezchlibnyk YB**, Boulis NM. (2017). Occipital Nerve Stimulation for the Treatment of Refractory Occipital Neuralgia: A Case Series. *World Neurosurgery*. 105:599-604.
3. **Bezchlibnyk YB**, Stone SD, Hamani C, Lozano AM. (2017). High frequency stimulation of the infralimbic cortex induces morphological changes in rat hippocampal neurons. *Brain Stimulation*. 10:315-23.
4. Isaacs AM, **Bezchlibnyk YB**, Yong H, Koshy D, Urbaneja G, Hader WJ, Hamilton MG. (2016). Endoscopic third ventriculostomy for treatment of adult hydrocephalus: long-term follow-up of 163 patients. *Neurosurg Focus*. 41:E3.
5. **Bezchlibnyk YB**, Sun X, Wang JF, MacQueen GM, McEwen BS, Young LT. (2007). Neuron somal size is decreased in the lateral amygdalar nucleus of subjects with bipolar disorder. *J. Psychiatry & Neurosci*. 32:203-10.
6. **Bezchlibnyk YB**, Xu L, Wang JF, Young LT. (2007). 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*. 1147:213-7.
7. Tian Y, Wang JF, **Bezchlibnyk YB**, Young LT. (2007). Immunoreactivity of 43 kDa growth-associated protein is decreased in post mortem hippocampus of bipolar disorder and schizophrenia. *Neurosci. Lett*. 411:123-7.
8. Gao Y, **Bezchlibnyk YB**, Sun X, Wang JF, McEwen BS, Young LT. (2006) Effects of restraint stress on the expression of proteins involved in synaptic vesicle exocytosis in the hippocampus. *Neuroscience* 141:1139-48.
9. **Bezchlibnyk YB**, Wang JF, Shao L, Young LT. (2006) Insulin-like growth factor binding protein-2 expression is decreased by lithium. *Neuroreport* 17:897-901.
10. Zai G*, **Bezchlibnyk YB***, Arnold P, Burroughs E, Richter MA, Swinson RP, Barr CL, Mundo E, Kennedy JL. (2004) Myelin Oligodendrocyte Glycoprotein (MOG) gene associated with Obsessive Compulsive Disorder. *Am. J. Med. Genet*. 129B:64-8.
11. Young LT, **Bezchlibnyk YB**, Chen B, McQueen GM, Wang JF. (2004) Amygdala CREB phosphorylation in patients with mood disorders: Effects of diagnosis, suicide and drug Treatment. *Biol. Psychiatry* 55:570-7.
12. **Bezchlibnyk Y**, Young LT. (2002) The neurobiology of bipolar disorder: focus on signal transduction pathways and the regulation of gene expression. *Can. J. Psychiatry* 47:135-48.
13. **Bezchlibnyk YB**, Wang JF, McQueen GM, Young LT. (2001) Gene expression differences in bipolar disorder revealed by cDNA array analysis of post-mortem frontal cortex. *J. Neurochem*. 79:826-34.

BOOK CHAPTERS AND NON PEER-REVIEWED PUBLICATIONS

1. **Bezchlibnyk YB**, Cheng J, Bijanki KR, Mayberg HS, Gross RE. (*Final draft approved*) Subgenual Cingulate Deep Brain Stimulation for Treatment-Resistant Depression. In "*Neuromodulation, 2nd Ed.*" Krames E, Peckham H and Rezai A (Eds.) New York: Elsevier.
2. Keifer OP, **Bezchlibnyk YB**, Diaz A, Boulis NM. (*Draft submitted*) Neurosurgery by Example – Occipital Neuralgia. In "*Neurosurgery by Example Case Series: Peripheral Nerve Neurosurgery*" Seldon N, Yang LJ, and Wilson TJ (Eds.) New York: Oxford University Press.

3. **Bezchlibnyk Y**, Fawcett A, Parvez K. (2010) Neurosurgery. In “*Toronto Notes 2010*” McSheffrey G and Baxter S (Eds.) Toronto: Toronto Notes for Medical Students, Inc.
4. **Bezchlibnyk Y**, Young LT. (2003) Signal transduction abnormalities in bipolar disorder. In “*The Handbook of Medical Psychiatry*” Soares JC and Gershon S (Eds.) New York: Marcel Decker 371-94.

ABSTRACTS

1. **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.
2. **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.
3. 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.
4. 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.
5. **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.
6. **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.
7. 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.
8. **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.

INVITED PRESENTATIONS

1. “The Places in Between: Neuroplasticity and Neuromodulation”. **Bezchlibnyk YB**. (2017) Grand Rounds, University of South Florida Department of Neurosurgery and Brain Repair. Tampa, FL. (*Oral Presentation*).
2. “The Places in Between: Neuroplasticity and Neuromodulation”. **Bezchlibnyk YB**. (2017) Grand Rounds, Virginia Commonwealth University Department of Neurosurgery. Richmond, VA. (*Oral Presentation*).
3. “The Places in Between: Neuroplasticity and Neuromodulation”. **Bezchlibnyk YB**. (2017) Grand Rounds, University of Alabama, Birmingham, Department of Neurosurgery. Birmingham, AL. (*Oral Presentation*).
4. “Advances in the Stereotactic Treatment of Epilepsy”. **Bezchlibnyk YB**. (2017) Grand Rounds, University of Arkansas for Medical Sciences, Department of Neurosurgery. Richmond, VA. (*Oral Presentation*).
5. “The Places in Between: Neuroplasticity and Neuromodulation”. **Bezchlibnyk YB**. (2017) Grand Rounds, Emory University Department of Neurosurgery. Atlanta, GA. (*Oral Presentation*).
6. “The Places in Between: Neuroplasticity and Disruptive Technologies in Neuromodulation”. **Bezchlibnyk YB**. (2017) Grand Rounds, University of Calgary, Department of Clinical Neurosciences. Calgary, AB. Canada. (*Oral Presentation*).
7. “Cerebrospinal fluid: It’s physiology and management through drainage”. **Bezchlibnyk YB**. (2015) *Neuro Champions ICU Education Day*. Calgary, AB. Canada (*Oral presentation*).

8. "Gene expression, mood disorders, and their treatment". Young LT, Wang JF, **Bezchlibnyk YB**, Sun XJ. (2002) *25th Annual meeting of the Canadian College of Neuropsychopharmacology*. Ottawa, ON. Canada. (Oral presentation).
9. "Investigation of the Myelin/oligodendrocyte glycoprotein (MOG) and HLA Region CA Repeat Loci in Obsessive Compulsive Disorder". Kennedy JL, **Bezchlibnyk YB**, Barr CL, Swinson RP, Mundo E, Richter MA. (2001) *5th International OCD Conference*. Sardinia, Italy. (Oral presentation).
10. "Association study between CAG repeats within the *KCNN3* gene and bipolar affective disorder". **Bezchlibnyk YB**, Paterson A, Vincent JB, Mundo E, Kennedy JL. (1999) *World Federation of Neurology Neurogenetics Research Group Meeting, in conjunction with the 1999 Annual meeting of the American Academy of Neurology*. Toronto, ON. (Oral presentation).

ORAL PRESENTATIONS AT SCIENTIFIC MEETINGS

1. "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 (Oral presentation).
2. "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 (Oral presentation).
3. "Different neuropsychiatric outcomes in pallidal versus subthalamic DBS for Parkinson disease". **Bezchlibnyk YB**, Haffenden A, Hunka K, Lawrence P, Kraft S, Kiss ZHT. (2014) *Biennial Meeting of the American Society for Stereotactic and Functional Neurosurgery*. Washington, DC. USA (Oral presentation).
4. "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 (Platform presentation).
5. "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 (Oral presentation).
6. "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 (Oral presentation).
7. "Trauma neurosurgery in Cape Town, South Africa". **Bezchlibnyk YB**, Fieggen, G. (2012) *2012 Meeting of the Alberta Neurosurgical Society*. Banff, AB. Canada (Oral presentation).
8. "Corpus callosotomy: A systematic review of the evidence". **Bezchlibnyk YB**, Hader WJ. (2011) *2011 Kenneth C. Petruk Resident Research Symposium*. Edmonton, AB. Canada. (Oral presentation).
9. "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 (Oral presentation).
10. "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. (Oral presentation).

POSTER PRESENTATIONS

1. Kadom N, Cheng JJ, **Bezchlibnyk YB**, Soares BP, Saindane A, Drane D, Willie J, Gross R. (2017) The role of MRI in thermal laser ablation for epilepsy. *2017 Annual Meeting of the American Society of Neuroradiology*. Long Beach, CA. USA. (Poster).
2. **Bezchlibnyk YB**, Cheng J, Willie JT, Boulis NM, Gross RE. (2017) Stereotactic accuracy and clinical outcomes of deep brain stimulation in the globus pallidus internus for dystonia using an MR-guided skull-mounted aiming system. *2017 Annual Scientific Meeting of the American Association of Neurological Surgeons*. Los Angeles, CA. USA. (Electronic poster).
3. **Bezchlibnyk YB**, Hailey J, Inan SY, Dyck RH, Kiss ZHT (2015) Chronic deep-brain stimulation-induced plasticity in the rat basal ganglia. *2015 Annual Meeting of the Congress of Neurological Surgeons*. New Orleans, LA. USA. (Poster).
4. **Bezchlibnyk YB**, Pillay N, Wiebe S, Hader WJ (2011) Corpus Callosotomy, Risks and Benefits: A systematic review of the evidence. *65th Annual Meeting of the American Epilepsy Society*. Baltimore, MD. USA. (Poster).
5. **Bezchlibnyk YB**, Stone S, Hamani C, Lozano, AM. (2008) Morphological changes in hippocampal neurons subsequent to the application of deep brain stimulation in the subgenual cingulate cortex. *Comprehensive Research Experience for Medical Students (CREMS) Research Day. Faculty of Medicine, University of Toronto*. Toronto, ON. Canada. (Poster).
6. **Bezchlibnyk YB**, Xu L, Wang JF, Young LT. (2005) Expression of insulin-like growth factor binding protein 2 mRNA is decreased in subjects with bipolar disorder, and may be normalized by lithium pharmacotherapy. *31st Annual Harvey Stancer Research Day. Department of Psychiatry, University of Toronto*. Toronto, ON. Canada. (Poster).
7. **Bezchlibnyk YB**, Sun X, Wang JF, Young LT. (2004) Density and morphology of neurons in the amygdala of subjects with psychiatric disorders. *30th Annual Harvey Stancer Research Day. Department of Psychiatry, University of Toronto*. Toronto, ON. Canada. (Poster).
8. **Bezchlibnyk YB**, Young LT, Chen B, Wang JF, MacQueen GM. (2004) CREB phosphorylation in the amygdala of subjects with mood disorders. *Program In Neuroscience (PIN) Poster Day 2004. Collaborative Program in Neuroscience, University of Toronto*. Toronto, ON. Canada. (Poster).
9. **Bezchlibnyk YB**, Chen B, Wang JF, MacQueen GM, Young LT. (2003) Levels of phosphorylated CREB in postmortem amygdala sections from subjects with mood disorders. *29th Annual Harvey Stancer Research Day. Department of Psychiatry, University of Toronto*. Toronto, ON. Canada. (Poster).
10. **Bezchlibnyk YB**, Young LT, Chen B, Wang JF, MacQueen GM. (2003) Amygdala CREB phosphorylation in patients with mood disorders: effects of diagnosis, suicide and drug treatment. *26th Annual meeting of the Canadian College of Neuropsychopharmacology*. Montreal, QE. Canada. (Poster).
11. **Bezchlibnyk YB**, Sun XJ, Walker J, Wang JF, Young LT. (2002) Analysis of gene expression following treatment with lithium and valproate. *25th Annual meeting of the Canadian College of Neuropsychopharmacology*. Ottawa, ON. Canada. (Poster).
12. **Bezchlibnyk YB**, Wang JF, MacQueen GM, Young LT. (2001) TGF-beta1 expression in subjects with mood disorders and lithium-treated rats. *7th Symposium on the Neurovirology and Neuroimmunology of Schizophrenia and Bipolar Disorder – Focus on Genomics, Proteomics and Clinical Trials*. Bethesda, MD. U.S.A. (Poster).

13. **Bezchlibnyk YB**, Wang JF, MacQueen GM, Young LT. (2001) Gene expression differences in mood disorder based on cDNA array analysis of postmortem frontal cortex. *13th Annual Research Day of the Department of Psychiatry and Behavioural Neurosciences. McMaster University.* Hamilton, ON. Canada. (Poster).
14. **Bezchlibnyk YB**, Wang JF, MacQueen GM, Young LT. (2000) Differential gene expression in frontal cortex in subjects with mood disorders versus controls using cDNA arrays. *Graduate Programmes in Health Sciences Annual Research Day. McMaster University.* Hamilton, ON. Canada. (Poster).
15. **Bezchlibnyk YB**, Wang JF, MacQueen GM, Young LT. (2000) Differential gene expression in post-mortem brain tissue of subjects presenting with mood disorders. *12th Annual Research Day of the Department of Psychiatry and Behavioural Neurosciences. McMaster University.* Hamilton, ON. Canada. (Poster).

EDITORIAL CONTRIBUTIONS

World Neurosurgery

MEDIA APPEARANCES

North American International SuperShow (Jan 2-4, 2009) and
Toronto Motorcycle Show (Dec 12-14, 2008)

Guest Speaker

Discussed my motorcycle trip from London, UK to Cape Town, South Africa on stage to raise funds for, awareness of, HIV/AIDS treatment and prevention in Africa.

Featured in news articles (Medical Students Ride for HIV/AIDS):

"Friends Ride 23,000 km to save lives in Africa." Toronto Star, Sept. 30, 2008.

"Eat my Dust, Obi-Wan." The Sunday Times, Sept. 7, 2008.

"A Different Sudan." Agence-France Presse, July 23, 2008.

RESEARCH SUPERVISION

2014	Jordan Hailey (<i>Undergraduate student</i>)
2005	Brook Kavanaugh (<i>Undergraduate student</i>)

TEACHING

2016 – 2017	Department of Neurosurgery , School of Medicine, Emory University <i>Fellow, Stereotactic, Functional Neurosurgery & Epilepsy Surgery</i>
2015 – 2016	Division of Neurosurgery , Faculty of Medicine, University of Calgary <i>Chief Resident</i>
2013 – 2014	Division of Neurosurgery , Faculty of Medicine, University of Calgary <i>Co-Chief Resident</i>
2001 – 2002	Health Sciences 1G03: Psychobiology , Faculty of Health Sciences, McMaster University <i>Teaching Assistant</i>
2000 – 2001	Biology 2C03: Genetics , Faculty of Health Sciences, McMaster University <i>Teaching Assistant</i>

1999 – 2000 **Nursing 1B07**, McMaster University
Teaching Assistant

MILITARY SERVICE

1997 – 1999 **25th Field Ambulance**, Royal Canadian Army Reserves
Medic (Private – Trained; Corporal qualified): Administered pre-hospital emergency and paramedical care to patients in the course of diverse events and exercises; inventory and upkeep of medical supplies.

LEADERSHIP AND COMMUNITY INVOLVEMENT

LEADERSHIP

2008 – 2010 **Medical Students Ride for HIV/AIDS**, Dignitas International
Fundraiser and Spokesperson: Created a calendar based on our trip from London to Cape Town; continue to sell the calendar and speak at various events to raise funds for, and awareness of, Dignitas International's efforts to treat and prevent HIV/AIDS in Africa.

2008 **Ride for Dignity**, Dignitas International
Fundraiser and Spokesperson: Rode 24,000 km by motorcycle from London, UK to Cape Town, South Africa to raise money for Dignitas International.

2007 – 2008 **Therapeutic Communications Program**, Centre for Addiction and Mental Health
Supervisor: Dr. Solomon Shapiro
Program coordinator: Selected, contacted, and scheduled participants; administered intake and exit surveys and maintained a database of responses; provided support and served as an interface between students and Dr. Solomon Shapiro.

2006 **Infectious Diseases in Mumbai Program**, Child Family Health International
Volunteer: Studied the presentation and treatment of infectious diseases in urban and rural India; observed and assisted in providing medical services at public hospitals and primary care clinics in underserved regions of Mumbai and tribal villages.

COMMUNITY INVOLVEMENT

2009 – 2010 **Toronto Notes 2010**
Chapter Editor: Co-edited neurosurgery chapter in Toronto Notes 2010, a comprehensive medical reference and review for the MCCQE – Part 1 and the USMLE – Step 2.

1998 – 2010 **Tutor**, High school and 1st and 2nd year undergraduate university students
Courses: Biology, English, Philosophy, History, and Political Science.

2007 – 2008 **Candidate Selection Committee, Faculty of Medicine, Dept. of Admissions and Awards**, University of Toronto
Reviewed application materials of candidates for admission into the 2008-2009 academic year at the University of Toronto Faculty of Medicine

2007 **Therapeutic Communications Program**, Centre for Addiction and Mental Health
Counselor: Provided confidential, non-judgmental, and therapeutic support through weekly one-to-one meetings with clients to help them address personal issues.

- 2002 – present **UrbanToronto Architectural Forum** (Online news reporting and discussion forum)
Contributor/Member
- 2001 – 2002 **Let's Talk Science**, McMaster University
Lecturer and Mentor: Prepared and presented lectures and designed interactive experiments to introduce and stimulate interest in science to high school students.
- 2000 – 2001 **Psychiatry Inpatient Ward 3A**, McMaster University Health Sciences Centre
Volunteer: Provided comfort and companionship to psychiatric inpatients; assisted them with daily activities and participation in hobbies, athletics, and social events.
- 2000 – 2001 **McMaster Marauders**, Varsity Fencing team, McMaster University
Epee team member
- 1998 – 1999 **Schizophrenia Social Rehabilitation Clinic**, Centre for Addiction and Mental Health
Volunteer: Provided companionship and support to chronic schizophrenics seeking community re-integration; facilitated and moderated group sessions; assisted clients in planning and executing athletic, social, and educational events.
- 1995 – 1998 **USMC Mountain Biking Club**, University of St. Michael's College
Member

RESEARCH SKILLS

Behavioural analysis: Handling of freely moving animals (rats, mice); anxiety, limb use and memory-specific tasks (open field, cylinder, horizontal ladder, water maze, elevated plus maze, etc.)

Sample handling: Management of human post-mortem brain tissue; acquisition and handling of patient blood samples; animal handling; stereotactic surgical implantation of stimulating electrodes; general small animal surgery; tissue preparation/fixation; primary cell culture

Deoxyribonucleic acid (DNA): Extraction and concentration; polymerase chain reaction (PCR); sequencing; Restriction-Fragment Length Polymorphism (RFLP) analysis; nucleic acid labelling; agarose and polyacrylamide gel electrophoresis; cloning; generation/screening of cDNA libraries; in vitro transcription

Ribonucleic acid (RNA): Extraction and concentration; real-time (quantitative) PCR; RT-PCR (semi-quantitative); gene expression analysis via nylon membrane arrays and Affymetrix gene chip arrays

Protein: Isolation and extraction; Bradford protein quantification; SDS-PAGE electrophoresis; immunohistochemistry; ELISA

Cellular: Histological staining (Nissl, myelin, Golgi-Cox, acetylcholinesterase, etc.); microscopy (phase contrast, fluorescent); stereological (non-biased) cell counting, camera lucida neuronal tracing and counting of dendritic spines

Clinical studies: Chart/database review, database creation/management, patient enrolment

Statistics: Proficiency with SPSS; familiar with diverse statistical analyses including multivariate, repeated measures, survival and non-parametric analyses

LANGUAGES

Fluent in English, some proficiency in Ukrainian and French.

- 1989 – 1993 **Yuri Lypa Ukrainian Heritage Academy**, Ukrainian Cultural Centre, Toronto