

AREAS OF
POSTGRADUATE
TRAINING**Neuroscience**

Expertise Techniques:

- Functional Magnetic Resonance Imaging (fMRI)
- Resting State fMRI (rsfMRI)
- Diffusion Tensor Imaging (DTI)
- Electroencephalography (EEG)
- Neural Network Modeling

Linguistics

Computational Linguistics (engineering language and speech)

- Speech Synthesis / Digital Signal Processing
- Alignment Based Morphology Induction
- Lexicon Clustering
- Computational Analysis of Spelling Change (and Phonological Change)
- Word Boundary Detection and Computational Modeling of its Acquisition

Generative Linguistics (stating natural language regularities)

- Coordinate Structure: language-universal properties of coordinate structure
- Morphological Case and its interaction with A'-movement
- Scope of Operators and their interaction with syntax

NATURAL
LANGUAGES

- Japanese (native)
- English (fluent)
- French (naïve)
- Manchu (reading)

NON-NATURAL
LANGUAGES

- Python (fluent)
- R (fluent)
- Bash (fluent)
- MatLab (reading & writing)
- Java (reading & writing)
- C (reading)

MARKUP
LANGUAGES

- L^AT_EX
- HTML
- XML

MEMBERSHIP

- The Society for Neuroscience (2007-)
- International Behavioral Neuroscience Society (2014)
- International College of Neuropsychopharmacology (2017-)

CONFERENCE/
WORKSHOP
ORGANIZATION

- Assistant Student Organizer: PhonologyFest 2006, Indiana University (June 19 -29, 2006)
- Web-designer & Webmaster: The First Conference of Slavic Linguistics Society (September, 2006)
- Organizing Committee Member: Workshop on Computational Modeling of Lexical Acquisition, Split, Croatia (July 2005)
- Chief Student Organizer: SyntaxFest 2004, Indiana University (June 19 - July 1, 2004)
- Organizing Committee Member: Midwest Computational Linguistics Colloquium , Indiana University (June 25&26, 2004)

COMMUNITY
SERVICE

- 2003-2006 Treasurer: Indiana University Coed Soccer Club.
- 2003-2004 Vice President: Indiana University Linguistics Club.
- 2005 President: Indiana University Linguistics Club.
- 2006 Social Coordinator: Indiana University Linguistics Club

-
- TEACHING
- Nominee, 2015-2016 Excellence in Advising Award, Academic Advising Network, University of Mississippi
 - Spring 2014 to present: CSD205 “Anatomy and Physiology of Speech and Hearing Mechanisms”, University of Mississippi
 - Fall 2013 to present: CSD505 “Neurophysiology of Communication”, University of Mississippi
 - Fall 2004&2005 and Spring 2006: Assistant Instructor, L103 “Introduction to the Study of Language”, Indiana University, Bloomington

- GRADUATE RESEARCH TRAINING
- Fall 2007 and Spring 2008: Research Assistant of Dr. Sharlene Newman, Indiana University, Bloomington
 - Fall 2006 and Spring 2007: Research Assistantship from Indiana Metabolomics and Cytomics Initiative, Indiana University, Bloomington
 - Spring 2005: Research Assistant of Dr. Ćavar, Indiana University, Bloomington
 - Summer 2004: Cognitive Science Summer Research Fellowship, Indiana University, Bloomington
 - Fall 2003 and Spring 2004: Research Assistant of Dr. Damir Ćavar, Indiana University, Bloomington

-
- EXTERNAL FUNDING
- NARSAD Young Investigator Grant 2012 (\$59,826)
Neurobiology of Auditory Hallucinations in Schizophrenia: An fMRI and DTI Study
 January 2013 - January 2015
 Brain and Behavior Research Foundation
<http://bbrfoundation.org/2012-YI-Grantees>

- INTERNAL FUNDING
- Faculty Travel Support, Office of Research and Sponsored Programs, University of Mississippi (2015, 2017)
 - General Clinical Research Center, North Shore-LIJ Health System (2009)
 - Householder Fund, Indiana University (2007)
 - IULC Travel Grant (2007)
 - Travel Grant, College of Arts and Sciences, Indiana University (2006)

-
- PUBLICATIONS
- Peer Reviewed Journal Articles
- Taro Kishi, **Toshikazu Ikuta**, Ken Inada, Yuki Matsuda, Kazuo Mishima and Nakao Iwata. (in press) **Effect of discontinuation v. maintenance of antipsychotic medication on relapse rates in patients with remitted/stable first-episode psychosis: a meta-analysis.** *Psychological Medicine*.
DOI:10.1017/S0033291718001393
 - Taro Kishi, **Toshikazu Ikuta**, Kazuto Oya, Shinji Matsunaga, Yuki Matsuda, and Nakao Iwata. (in press) **Anti-dementia Drugs for Psychopathology and Cognitive Impairment in Schizophrenia: A Systematic Review and Meta-analysis.** *International Journal of Neuropsychopharmacology*.
DOI:10.1093/ijnp/pyy045
 - Keith M. Shafritz, **Toshikazu Ikuta**, Allison Greene, Delbert G. Robinson, Juan Gallego, Todd Lencz, Pamela DeRosse, Peter B. Kingsley and Philip R. Szeszko. (in press) **Frontal lobe functioning during a simple response conflict task in first-episode psychosis and its relationship to treatment response.** *Brain Imaging and Behavior*.
DOI:10.1007/s11682-018-9876-2
 - **Toshikazu Ikuta**, Katherine H. Karlsgodt, and Alberto del Arco. (in press) **White Matter Integrity in the Fronto-striatal Accumbens Predicts Impulsivity.** *Brain Imaging and Behavior*.
DOI:10.1007/s11682-017-9820-x
- [45] Laura J. Hahn, Susan J. Loveall, Madison T. Savoy, Allie M Neumann, and **Toshikazu Ikuta**. (2018) *Joint attention in Down syndrome: A meta-analysis.* *Research in Developmental*

Disabilities, 78, 89-102.

DOI:10.1016/j.ridd.2018.03.013

- [44] Paul D. Loprinzi, Meghan K. Edwards, Elizabeth Crush, **Toshikazu Ikuta**, and Alberto Del Arco. (2018) **Dose-response association between physical activity and cognitive function in a national sample of older adults**. *American Journal of Health Promotion*, 32(3) 554-560. DOI:10.1177/0890117116689732
- [43] Kenichiro Harada, **Toshikazu Ikuta**, Mami Nakashima, Toshio Watanuki, Masako Hirotsu, Toshio Matsubara, Hirotaka Yamagata, Yoshifumi Watanabe, and Koji Matsuo. (2018) **Altered connectivity of the anterior cingulate and the posterior superior temporal gyrus in a longitudinal study of later-life depression**. *Frontiers in Aging Neuroscience*, 10, 31. PMC5809471; DOI:10.3389/fnagi.2018.00031
- [42] Katherine H. Karlsgodt, Angelica A. Bato, **Toshikazu Ikuta**, Bart D. Peters, Pamela DeRosse, Philip R. Szeszko, and Anil K. Malhotra. (2018) **Functional activation during a cognitive control task in healthy youth specific to externalizing or internalizing behavior**. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 3(2), 133-140. PMC5854198; DOI:10.1016/j.bpsc.2017.09.003
- [41] Ikuo Nomura, Taro Kishi, **Toshikazu Ikuta**, Nakao Iwata. (2018) **Statin add-on therapy in the antipsychotic treatment of schizophrenia: a meta-analysis**. *Psychiatry Research*, 260, 41-47. DOI:10.1016/j.psychres.2017.11.033
- [40] Taro Kishi, Reiji Yoshimura, **Toshikazu Ikuta**, and Nakao Iwata. (2018) **Brain-Derived Neurotrophic Factor and Major Depressive Disorder: Evidence from Meta-analyses**. *Frontiers in Psychiatry*, 8, 308. PMC5776079; DOI:10.3389/fpsy.2017.00308
- [39] Meghan K. Edwards, Ovuokerie Addoh, Eveleen Sng, **Toshikazu Ikuta**, Teresa Carithers, Alain G. Bertoni, and Paul D. Loprinzi. (2017) **Physical activity, body mass index and waist circumference change and normal-range glycosylated hemoglobin on incident diabetes: Jackson Heart Study**. *Postgraduate Medicine*, 129(8), 842-848. DOI: 10.1080/00325481.2017.1358065
- [38] Taro Kishi, Shinji Matsunaga, Kazuto Oya, Ikuo Nomura, **Toshikazu Ikuta**, and Nakao Iwata. (2017) **Memantine for Alzheimer's disease: an updated systematic review and meta-analysis**. *Journal of Alzheimer's Disease*, 60 (2), 401-425. DOI:10.3233/JAD-170424
- [37] Sara Kiparizoska, and **Toshikazu Ikuta***. (2017) **Disrupted olfactory Integration in schizophrenia: functional connectivity study**. *The International Journal of Neuropsychopharmacology*, 20 (9), 470-746. PMC5581488; DOI:10.1093/ijnp/pyx045
- [36] **Toshikazu Ikuta***, Koji Matsuo, Kenichiro Harada, Mami Nakashima, Teruyuki Hobara, Naoko Higuchi, Fumihiko Higuchi, Koji Otsuki, Tomohiko Shibata, Toshio Watanuki, Toshio Matsubara, Hirotaka Yamagata, and Yoshifumi Watanabe. (2017) **Disconnectivity between dorsal raphe nucleus and posterior cingulate cortex in later life depression**. *Frontiers in Aging Neuroscience*, 9, 236. PMC5539218; DOI:10.3389/fnagi.2017.00236
- [35] Nishad R. Damle, **Toshikazu Ikuta**, Majnu John, Bart D. Peters, Pamela DeRosse, Anil K. Malhotra, and Philip R. Szeszko. (2017) **Relationship among interthalamic adhesion size, thalamic anatomy and neuropsychological functions in healthy volunteers**. *Brain Structure and Function*, 222(5), 2183-2192. PMC5816973; DOI:10.1007/s00429-016-1334-6
- [34] Taro Kishi, **Toshikazu Ikuta***, Shinji Matsunaga, Yuki Matsuda, Kazuto Oya, and Nakao Iwata. (2017) **Comparative efficacy and safety of antipsychotics in the treatment of schizophrenia: a network meta-analysis in a Japanese population**. *Neuropsychiatric Disease and Treatment*, 13, 1281-1302. PMC5439983; DOI:10.2147/NDT.S134340

- [33] Yuko Nakamura, and **Toshikazu Ikuta***. (2017) **Caudate-Precuneus functional connectivity is associated with obesity preventive eating tendency**. *Brain Connectivity*, 7(3), 211-217. DOI:10.1089/brain.2016.0424
- [32] Majnu John, **Toshikazu Ikuta** (co-first author), and Janina Ferbinteanu. (2017) **Graph analysis of structural brain networks in Alzheimer's disease: beyond small world properties**. *Brain Structure and Function*, 222(2), 923-942. DOI:10.1007/s00429-016-1255-4
- [31] Robert K. McNamara, Philip R. Szeszkob Stefan Smesny, **Toshikazu Ikuta**, Pamela DeRosse, Frédéric M. Vaz, Berko Milleit, Uta-Christina Hipler, Cornelia Wiegand, Jana Hesse, G. Paul Amminger, Anil K. Malhotra, and Bart D. Peters (2017) **Polyunsaturated fatty acid status, phospholipase A2 activity and brain white matter microstructure in late childhood and adolescence**. *Neuroscience*, 343, 423-433. DOI:10.1016/j.neuroscience.2016.12.007
- [30] Pamela DeRosse, **Toshikazu Ikuta** (co-first author), Katherine H. Karlsgodt, Bart D. Peters, Chaya B. Gopin, Philip R. Szeszko, and Anil K. Malhotra. (2017) **White Matter Abnormalities Associated With Subsyndromal Psychotic-Like Symptoms Predict Later Social Competence in Children and Adolescents**. *Schizophrenia Bulletin*, 43(1), 152-159. PMC5216847; DOI:10.1093/schbul/sbw062
- [29] Andrew Schwehm, Delbert Robinson, Juan Gallego, Katherine Karlsgodt, **Toshikazu Ikuta**, Bart Peters, Anil Malhotra, and Philip Szeszko. (2016) **Age and Sex Effects on White Matter Tracts in Psychosis from Adolescence through Middle Adulthood**. *Neuropsychopharmacology*, 41 (10), 2473-2480. PMC4987845; DOI:10.1038/npp.2016.47
- [28] Yuko Nakamura, Brian R. Walker, and **Toshikazu Ikuta***. (2016) **Systematic review and meta-analysis reveals acutely elevated plasma cortisol following fasting but not less severe calorie restriction**. *Stress*, 19(2), 151-157. DOI:10.3109/10253890.2015.1121984
- [27] **Toshikazu Ikuta***, Pamela DeRosse, Miklos Argyelan, Katherine H Karlsgodt, Peter B Kingsley, Philip R Szeszko, and Anil K Malhotra. (2015) **Subcortical Modulation in Auditory Processing and Auditory Hallucinations**. *Behavioral Brain Research*, 295, 78-81. PMC4641005; DOI:10.1016/j.bbr.2015.08.009
- [26] Katherine H. Karlsgodt, Majnu John, **Toshikazu Ikuta**, Philippe Rigoard, Bart D. Peters, Anil K. Malhotra, and Philip R. Szeszko. (2015) **The Accumbens Frontal Tract: Diffusion Tensor Imaging Characterization and Developmental Change from Childhood to Adulthood**. *Human Brain Mapping*, 36 (12), 4954-4963. PMC4715564; DOI:10.1002/hbm.22989
- [25] Taro Kishi, Shinji Matsunaga, Kazuto Oya, **Toshikazu Ikuta***, and Nakao Iwata. (2015) **Protection against Brain Atrophy by Anti-dementia Medication in Mild Cognitive Impairment and Alzheimer's Disease: Meta-Analysis of Longitudinal Randomized Placebo-Controlled Trials**. *The International Journal of Neuropsychopharmacology*, 18 (12), pyv070. PMC4675981; DOI:10.1093/ijnp/pyv070
- [24] Kathryn Rhindress, **Toshikazu Ikuta**, Robin Wellington, Anil K. Malhotra, and Philip R. Szeszko. (2015) **Delineation of hippocampal subregions using T1-weighted magnetic resonance images at 3 Tesla**. *Brain Structure and Function*, 220 (6), 3259-3272. PMC4362783; DOI:10.1007/s00429-014-0854-1
- [23] Daniel M. Prendergast, Babak Ardekani, **Toshikazu Ikuta**, Majnu John1, Bart Peters, Pamela DeRosse, Robin Wellington, Anil K. Malhotra, and Philip R. Szeszko. (2015) **Age and sex effects on corpus callosum morphology across the lifespan**. *Human Brain Mapping*, 36 (7), 2691-2702. PMC4478157 DOI:10.1002/hbm.22800
- [22] Keith M. Shafritz, Joel D. Bregmanb, **Toshikazu Ikuta**, and Philip R. Szeszko. (2015) **Neural systems mediating decision-making and response inhibition for social and nonsocial**

- stimuli in autism.** *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 60 (3), 112–120.
PMC4426235; DOI:10.1016/j.pnpbp.2015.03.001
- [21] Nitin Toteja, Perihan Guvenek-Cokol, **Toshikazu Ikuta**, Vivian Kafantaris, Bart D Peters, Katherine E Burdick, Majnu John, Anil K Malhotra and Philip R Szeszko. (2015) **Age-associated alterations in corpus callosum white matter integrity in bipolar disorder assessed using probabilistic tractography.** *Bipolar Disorders*, 17 (4), 381-391.
PMC4458202; DOI:10.1111/bdi.12278
- [20] Miklos Argyelan, Juan Gallego, Delbert Robinson, **Toshikazu Ikuta**, Deepak Sarpal, Majnu John, Peter Kingsley, John Kane, Anil Malhotra, and Philip Szeszko. (2015) **Abnormal resting state fMRI activity predicts processing speed deficits in first-episode psychosis.** *Neuropsychopharmacology*, 40, 1631-1639.
PMC4915267; DOI:10.1038/npp.2015.7
- [19] Deepak K. Sarpal, Delbert G. Robinson, Todd Lencz, Miklos Argyelan, **Toshikazu Ikuta**, Katherine Karlsgodt, Juan A. Gallego, John M. Kane, Philip R. Szeszko, and Anil K. Malhotra. (2015) **Antipsychotic treatment and functional connectivity of the striatum: a prospective controlled study in first-episode schizophrenia.** *JAMA Psychiatry*, 72 (1), 5-13.
PMC4286512; DOI:10.1001/jamapsychiatry.2014.1734
- [18] Pamela DeRosse, George C. Nitzburg, **Toshikazu Ikuta**, Bart D. Peters, Philip R. Szeszko and Anil K. Malhotra. (2015) **Evidence from structural and diffusion tensor imaging for frontotemporal deficits in psychometric schizotypy.** *Schizophrenia Bulletin*, 41 (1), 104-114.
PMC4266309; DOI:10.1093/schbul/sbu150
- [17] Pamela DeRosse, **Toshikazu Ikuta**, Bart D. Peters, Katherine H. Karlsgodt, Philip R. Szeszko and Anil K. Malhotra. (2014) **Adding insult to injury: childhood and adolescent risk factors for psychosis predict lower fractional anisotropy in the superior longitudinal fasciculus in healthy adults.** *Psychiatry Research: Neuroimaging*, 224 (3), 296-302.
PMC4253644; DOI:10.1016/j.psychresns.2014.09.001
- [16] Daniel Felsky, Philip R. Szeszko, Lei Yu, William G Honer, Philip L De Jager, Julie A Schneider, Anil K Malhotra, **Toshikazu Ikuta**, Jon Pipitone, M Mallar Chakravarty, Nancy J Lobaugh, Benoit H Mulsant, Bruce G Pollock, James L Kennedy, David A Bennet and Aristotle N Voineskos. (2014) **Effects of the SORL1 Alzheimer's disease risk gene across the human lifespan.** *Molecular Psychiatry*, 19, 1125-1132.
PMC4004725; DOI:10.1038/mp.2013.142
- [15] Patricia Gruner, An Vo, Miklos Argyelan, **Toshikazu Ikuta**, Andrew J Degnan, Majnu John, Bart D Peters, Anil K Malhotra, Aziz M Uluğ, and Philip R Szeszko. (2014) **Independent component analysis of resting state activity in pediatric obsessive-compulsive disorder.** *Human Brain Mapping*, 35(10), 5306-5315.
PMC4169329; DOI:10.1002/hbm.22551
- [14] **T. Ikuta***, B. D. Peters, S. Guha, M. John, K. H. Karlsgodt, T. Lencz, P. R. Szeszko, and A. K. Malhotra. (2014) **A Schizophrenia risk gene, ZNF804A, is associated with brain white matter microstructure.** *Schizophrenia Research*, 115 (1-3), 15-20.
PMC4060886; DOI:10.1016/j.schres.2014.03.001
- [13] Philip Szeszko, Delbert Robinson, **Toshikazu Ikuta**, Bart Peters, Juan Gallego, John Kane, and Anil Malhotra. (2014) **White matter changes associated with antipsychotic treatment in first-episode psychosis.** *Neuropsychopharmacology*, 39 (6), 1324-1331.
PMC3988536; DOI:10.1038/npp.2013.288
- [12] Bart Peters, Aristotle Voineskos, Philip Szeszko, Tristram Lett, Pamela DeRosse, Saurav Guha, Katherine Karlsgodt, **Toshikazu Ikuta**, Daniel Felsky, Majnu John, David Rotenberg, James Kennedy, Todd Lencz, and Anil Malhotra. (2014) **Brain white matter development is associated With a human-specific haplotype increasing the synthesis Of long chain fatty acids.** *The Journal of Neuroscience*, 34(18), 6367-6376.
PMC4004819; DOI:10.1523/JNEUROSCI.2818-13.2014

- [11] **Toshikazu Ikuta***, Delbert G. Robinson, Juan A. Gallego, Bart D. Peters, Patricia Gruner, John Kane, Majnu John, Serge Sevy, Anil K. Malhotra, Philip R. Szeszko. (2014) **Subcortical modulation of attentional control by second-generation antipsychotics in first-episode psychosis**. *Psychiatry Research: Neuroimaging*, 221 (2), 127-134. PMC3946302; DOI:10.1016/j.psychresns.2013.09.010
- [10] Bart D. Peters, **Toshikazu Ikuta**, Pamela DeRosse, Majnu John, Katherine Burdick, Patricia Gruner, Daniel Prendergast, Philip R. Szeszko, and Anil K. Malhotra. (2014) **Age-related differences in white matter tract microstructure are associated with cognitive performance from childhood to adulthood**. *Biological Psychiatry*, 75 (3), 248-256. PMC4004819; DOI:10.1016/j.biopsych.2013.05.020
- [9] **Toshikazu Ikuta***, Keith Shafritz, Joel Bregman, Bart D. Peters, Patricia Gruner, Anil K. Malhotra, and Philip R. Szeszko. (2014) **Abnormal cingulum bundle development in autism: a probabilistic tractography study**. *Psychiatry Research: Neuroimaging*, 221 (1), 63-68. PMC3918471; DOI:10.1016/j.psychresns.2013.08.002
- [8] Miklos Argyelan, **Toshikazu Ikuta**, Pamela DeRosse, Raphael Braga, Katherine E. Burdick, Majnu John, Peter B. Kingsley, Anil K. Malhotra, and Philip R. Szeszko. (2014) **Resting state fMRI connectivity impairment in schizophrenia and bipolar disorder**. *Schizophrenia Bulletin*, 40(1), 100-110. PMC3885301; DOI:10.1093/schbul/sbt092
- [7] Erin Samplin, **Toshikazu Ikuta**, Anil K. Malhotra, Philip R. Szeszko, and Pam Derosse. (2013) **Sex differences in resilience to childhood maltreatment: effects of trauma history on hippocampal volume, general cognition and subclinical psychosis in healthy adults**. *Journal of Psychiatric Research*, 47 (9), 1174-1179. PMC3727151; DOI:10.1016/j.jpsychires.2013.05.008
- [6] Katie Mahon, Katherine E. Burdick, **Toshikazu Ikuta**, Patricia Gruner, Anil K. Malhotra, and Philip R. Szeszko. (2013) **Abnormal temporal lobe white matter as a biomarker for genetic risk of bipolar disorder**. *Biological Psychiatry*, 73 (2), 177-182. PMC3760506; DOI:10.1016/j.biopsych.2012.07.033
- [5] S. D. Newman, **T. Ikuta**, B. Pruce, and T. Burns. (2012) **When syntactic errors go unnoticed: an fMRI study of the effect of semantics on syntax**. *Revista Ilha do Desterro N. 63*, Jul/Dec 2012. ISBN 0101-4846.
- [4] B.D. Peters, P.R. Szeszko, J. Radua, **T. Ikuta**, P. Gruner, P. DeRosse, J. Zhang, A. Giorgio, D. Qiu, S. Tapert, J. Brauer, M.R. Asato, P. Khong, A.C. James, and A.K. Malhotra. (2012) **White matter development in adolescence: voxel-wise diffusion tensor imaging and meta-analytic results**. *Schizophrenia Bulletin*, 38 (6), 1308-1317. PMC3494037; DOI:10.1093/schbul/sbs054
- [3] Patricia Gruner, An Vo, **Toshikazu Ikuta**, Katie Mahon, Bart D Peters, Anil K Malhotra, Aziz M Ulug and Philip R Szeszko. (2012) **White matter abnormalities in pediatric obsessive-compulsive disorder**. *Neuropsychopharmacology*, 37 (12), 2730-2739. PMC3473339; DOI:10.1038/npp.2012.138
- [2] **Toshikazu Ikuta**, Philip R Szeszko, Patricia Gruner, Pamela DeRosse, Juan Gallego, and Anil K Malhotra. (2012) **Abnormal anterior cingulate cortex activity predicts functional disability in schizophrenia**. *Schizophrenia Research*, 137 (1-3), 267-268. PMC3351499; DOI:10.1016/j.schres.2011.12.021
- [1] Sharlene D. Newman, **Toshikazu Ikuta**, and Thomas Burns Jr. (2010) **The effect of semantic relatedness on syntactic analysis: An fMRI study**. *Brain and Language*, 113, 51-58. PMC2854177; DOI:10.1016/j.bandl.2010.02.001

Letters

- Taro Kishi, Ikuo Nomura, **Toshikazu Ikuta**, and Nakao Iwata (in Press) **Response to Dr. Kim and colleagues**. *Psychiatry Research*. DOI:10.1016/j.psychres.2018.03.040

- Taro Kishi, **Toshikazu Ikuta**, Yuki Matsuda, and Nakao Iwata (2017) **Response to the letter from Dr. Veerman and colleagues**. *Psychopharmacology*, 234 (23-24), 3537-3538. DOI:10.1007/s00213-017-4757-8

Conference Proceedings

- **Toshikazu Ikuta**. (2015) **Interactions between Quantifier Scope and Topic/Focus**. *Proceedings of the Florida Linguistics Yearly Meeting (FLYM) 2*. <http://journals.fcla.edu/floridalinguisticspapers/article/view/85091>
- A. Vo, P. Gruner, **T. Ikuta**, K. Mahon, V. Kafantaris, J. Gallego, K.E. Burdick, A. Ulug, and P.R. Szeszko. (2011) FA and tract changes in obsessive compulsive disorder. *Proceedings of the International Society for Magnetic Resonance in Medicine*, 19, 4227.
- **Toshikazu Ikuta**. (2006) **A'-movement after Case**. *Proceedings from the Annual Meeting of the Chicago Linguistic Society*. Volume 42, Number 2, 29-40.
- Damir Ćavar, Joshua Herring, **Toshikazu Ikuta**, Paul Rodrigues, and Giancarlo Schrementi. (2006) **On Unsupervised Grammar Induction from Untagged Corpora**. In: P. Kaszubski (ed.). *PSiCL: Poznań Studies in Contemporary Linguistics*. 41, Adam Mickiewicz University, Poznań, Poland. pp. 57-71.
- Damir Ćavar, Joshua Herring, **Toshikazu Ikuta**, Paul Rodrigues, and Giancarlo Schrementi. (2004) **On statistical parameter setting**. In: William Gregory Sakas (ed.). *COLING 2004. First Workshop on Psycho-computational Models of Human Language Acquisition*. pp. 9-16.
- Damir Ćavar, Joshua Herring, **Toshikazu Ikuta**, Paul Rodrigues, and Giancarlo Schrementi. (2004) **On induction of morphology grammars and its role in bootstrapping**. In: Jager, Paola Monachesi, Gerald Penn, and Shuly Winter (eds.). *Proceedings of Formal Grammar 2004*. pp. 47-62.

Conference Presentations

- Toshikazu Ikuta and Paige Rucker. (2017) **Functional Connectivity of the Pituitary Gland**. *The 46th annual meeting of the Society for Neuroscience*. Washington DC. Nov 11-15.
- Kosuke Yasuda and Toshikazu Ikuta. (2017) **Disrupted Functional Connectivity of the ILN in Schizophrenia**. *The 46th annual meeting of the Society for Neuroscience*. Washington DC. Nov 11-15.
- Toshikazu Ikuta. (2017) **Subcortical Modulation in Auditory Processing and Auditory Hallucination**. *13th World Congress of Biological Psychiatry*. Copenhagen, Denmark. June 18-22.
- Toshikazu Ikuta and Sara Kiparizoska. (2016) **Subcortical Modulation in Auditory Processing and Auditory Hallucinatinos**. *13th World Congress of Biological Psychiatry*. Copenhagen, Denmark. June 18-22.
- Toshikazu Ikuta and Sara Kiparizoska. (2016) **Piriform Functional Connectivity in Schizophrenia**. *The 45th annual meeting of the Society for Neuroscience*. San Diego, CA. Nov 12-16.
- Toshikazu Ikuta and Katherine Karlsgodt (2015) **Impulsivity and Accubofrontal White Matter Integrity**. *The 44th annual meeting of the Society for Neuroscience*. Chicago, IL. Oct 17-21.
- Toshikazu Ikuta. (2015) **Interactions between Quantifier Scope and Topic/Focus**. *Florida Linguistics Yearly Meeting 2*. St. Petersburg, FL. March 7&8, 2015.
- Vivian Kafantaris, Linda Spritzer, Toshikazu Ikuta, Peter Kingsley, and Phillip Szeszko. (2014) **A Longitudinal Pilot Study of Lithium's Effects on White Matter Volume and Microstructure**. *American Academy of Child & Adolescent Psychiatry*. San Diego, CA. Oct 20-24, 2014.
- Peters, Bart D., Stefan Smesny, Philip R. Szeszko, **Toshikazu Ikuta**, Pamela DeRosse, Anil K. Malhotra, and Robert K. McNamara. (2014) **Polyunsaturated Fatty Acid Status and Brain White Matter Microstructure Across Adolescence: A Diffusion Tensor Imaging Study**. *BIOLOGICAL PSYCHIATRY* 75 (9), 88S-88S.
- DeRosse, Pamela, **Toshikazu Ikuta**, Bart Peters, Katherine H. Karlsgodt, Philip R. Szeszko, and Anil K. Malhotra. (2014) **Accumulation of Risk Factors for Psychotic Disorders Predicts Lower Fractional Anisotropy in the Superior Longitudinal Fasciculus in Healthy Adults**. *BIOLOGICAL PSYCHIATRY* 75 (9), 248S-249S.
- Mahon, Katie, Katherine E. Burdick, bf Toshikazu Ikuta, Anil K. Malhotra, and Philip R.

- Szeszko. (2014) **Temporal White Matter Asymmetry as an Endophenotype in Bipolar Disorder**. *BIOLOGICAL PSYCHIATRY* 75 (9), 94S-94S.
- T. Ikuta, P. R. Szeszko, P. B. Kingsley, A. K. Malhotra. (2013) **External auditory perception and auditory hallucinations in schizophrenia**. *The 42nd annual meeting of the Society for Neuroscience*. San Diego, CA. Nov 9-13, 2013.
 - K. H. Karlsgodt, T. Ikuta, P. DeRosse, B. D. Peters, P. R. Szeszko, A. K. Malhotra. (2013) **Individual differences in temperament measures of reward dependence and novelty seeking relate to white matter integrity in healthy adults**. *The 42nd annual meeting of the Society for Neuroscience*. San Diego, CA. Nov 9-13, 2013.
 - Daniel Felsky, Philip R. Szeszko, Lei Yu, William G Honer, Philip L De Jager, Julie A Schneider, Anil K Malhotra, Toshikazu Ikuta, Jon Pipitone, M Mallar Chakravarty, Nancy J Lobaugh, Benoit H Mulsant, Bruce G Pollock, James L Kennedy, David A Bennet and Aristotle N Voineskos. (2013) **Effects of the SORL1 Alzheimer's Disease Risk Gene Across the Human Lifespan**. *Alzheimer's & Dementia*, 9 (4), 678.
 - Miklos Argyelan, Toshikazu Ikuta, Pamela DeRosse, Raphael Braga, Katherine E. Burdick, Majnu John, Peter B. Kingsley, Anil K. Malhotra, and Philip R. Szeszko. (2013) **Resting State fMRI Connectivity Impairment in Schizophrenia and Bipolar Disorder**. *BIOLOGICAL PSYCHIATRY* 73 (9), 297S-298S.
 - Deepak Sarpal, Miklos Argyelan, Toshikazu Ikuta, Delbert Robinson, Anil K. Malhotra, and Philip R. Szeszko. (2013) **Antipsychotic Treatment Effects on the Functional Connectome in First-Episode Psychosis**. *BIOLOGICAL PSYCHIATRY* 73 (9), 298S-298S
 - Katherine H. Karlsgodt, Bart D. Peters, Toshikazu Ikuta, Pamela DeRosse, Kimberly Cameron, Angelica A. Bato, Philip R. Szeszko, and Anil K. Malhotra. (2013) **Developmental Changes in Functional Activation During Cognitive Control**. *BIOLOGICAL PSYCHIATRY* 73 (9), 55S-56S
 - Toshikazu Ikuta, Delbert G. Robinson, Juan A. Gallego, Bart D. Peters, Patricia Gruner, John Kane, Majnu John, Serge Sevy, Anil K. Malhotra, Philip R. Szeszko. (2012) **Subcortical Modulation of Attentional Control by Second-Generation Antipsychotics in First-Episode Psychosis**. *The 41st annual meeting of the Society for Neuroscience*. New Orleans, LA. Oct 13-17, 2012.
 - Philip R. Szeszko, An Vo, Toshikazu Ikuta, Aziz Ulug, Juan A. Gallego, John Kane, Anil K. Malhotra. (2012) **Acute Antipsychotic-Induced White Matter Changes in First-Episode Psychosis**. *BIOLOGICAL PSYCHIATRY* 71 (8), 254S-255S
 - Gruner, Patricia, Toshikazu Ikuta, Katie Mahon, Aziz Ulug, An Vo, Vivian Kafantaris, Juan Gallego, Katherine E. Burdick, and Philip R. Szeszko. (2011) **Anterior Cingulate White Matter Abnormalities in Obsessive-Compulsive Disorder**. *BIOLOGICAL PSYCHIATRY* 69 (9). 72S-72S.
 - Toshikazu Ikuta, Anil K. Malhotra, Pam Derosse, Patricia Gruner and Philip R. Szeszko. (2011) **Increased left primary auditory cortex activity in patients with schizophrenia with auditory hallucinations**. *The 41st annual meeting of the Society for Neuroscience*. Washington DC. Nov 12-16, 2011.
 - P. Gruner, T. Ikuta, K. Mahon, A. Ulug, A. Vo, V. Kafantaris, J. Gallego, K.E. Burdick, and P.R. Szeszko. (2011) **Anterior cingulate white matter abnormalities in obsessive-compulsive disorder**. *Biological Psychiatry*, 69, 72S.
 - Toshikazu Ikuta, Serge Sevy, Delbert Robinson, Anil K. Malhotra, Peter B. Kingsley, Kathryn Rhindress and Philip R. Szeszko (2010) **Cingular activation in first episode psychosis and chronic schizophrenia**. *The 40th annual meeting of the Society for Neuroscience*. San Diego, CA. Nov 13-17, 2010
 - P. Gruner, T. Ikuta, K. Mahon, V. Kafantaris, J. Gallego, K.E. Burdick, P.R. Szeszko. (2010). **Clinical correlates of subcortical regions in pediatric obsessive compulsive disorder**. Poster presented at 17th Annual Conference of the International Obsessive Compulsive Disorder Foundation (IOCDF), Washington DC.
 - Toshikazu Ikuta, Patricia Gruner, Peter B. Kingsley and Philip R. Szeszko. (2009) **An fMRI Study of Primary Auditory Cortex in Healthy Humans with Sparse Sampling fMRI**. *The 39th annual meeting of the Society for Neuroscience*. Chicago, IL. Oct 17-21, 2009.
 - Toshikazu Ikuta, Laura Murray, and Sharlene Newman. (2008) **Grammatical processing in Parkinson's disease: the effect of dopaminergic medication**. *The 38th annual meeting of the*

Society for Neuroscience. Nov 15-19, 2008. Washington DC.

- **Toshikazu Ikuta**, Laura Murray, and Sharlene Newman. (2008) **Dopaminergic System in Grammar and Linguistic Comprehension: fMRI Study of Parkinson's Disease**. *International Neuropsychological Society 36th Annual Meeting*. February 6-9, 2008. Waikoloa, Hawaii, USA.
- **Toshikazu Ikuta**, Laura Murray, and Sharlene Newman. (2007) **An fMRI investigation of dopamine on grammar and linguistic comprehension in Parkinson's disease**. *The 37th annual meeting of the Society for Neuroscience*. Nov 3-7, 2007. San Diego, CA.
- **Toshikazu Ikuta**, Laura Murray, and Sharlene Newman. (2007) **Dopamine in Grammatical Processing: an fMRI investigation in Parkinson's disease**. *Mid-America Linguistics Conference*. Oct 26-28, 2007. Lawrence, KS.
- **Toshikazu Ikuta**, Laura Murray, and Sharlene Newman. (2007) **Differentiating Syntax and Working Memory in Sentence Comprehension**. *Indiana Neuroimaging Symposium*. May 14, 2007. Indianapolis, IN.
- **Toshikazu Ikuta**. (2007) **Delta QP: Quantifier Raising Reformulated as Covert Topic/Focus Movement**. *Mid-America Linguistics Conference*. Oct 26-28, 2007. Lawrence, KS.
- **Toshikazu Ikuta**. (2005) **Extracting Morphemes without #**. *The Second Midwest Computational Linguistics Colloquium*. May 14-15, 2005. Columbus, OH.
- Laura Murray, Jamie Mayer, Jacob Kean, Olga Rey, and **Toshikazu Ikuta**. (2005) **Verbal Fluency in Aphasia and Right Hemisphere Brain Damage: The Effects of Dual-Task Conditions**. *35th Clinical Aphasiology Conference*. May 31-June 4, 2005 Sanibel Island, FL.
- Jamie Mayer, Laura Murray, **Toshikazu Ikuta**, Olga Ray, and Jacob Kean. (2005) **Verbal Fluency in Aphasia and Right Hemisphere Brain Damage: Qualitative Analysis Yields Relationship to General Cognitive Factors**. *35th Clinical Aphasiology Conference*. May 31-June 4, 2005 Sanibel Island, FL.
- Jamie Mayer, Laura Murray, Jacob Kean, Olga Rey, and **Toshikazu Ikuta**. (2005) **Verbal Fluency in Aphasia and Right Hemisphere Damage: Qualitative Analysis**. *American Speech and Hearing Association Convention*. November 18-20, 2005 San Diego, CA.
- Damir Čavar, Joshua Herring, **Toshikazu Ikuta**, Paul Rodrigues, and Giancarlo Schrementi. (2004) **On Statistical Bootstrapping**. *The 20th International Conference on Computational Linguistics*. Aug 23-27, 2004. Geneva, Switzerland.
- Damir Čavar, Joshua Herring, **Toshikazu Ikuta**, Paul Rodrigues, and Giancarlo Schrementi. (2004) **Alignment Based Induction of Morphology Grammar and its Role for Bootstrapping**. *The 9th conference on Formal Grammar*. Aug 7-8, 2004. Nancy France.
- Jeremiah Blough (2018) Master of Science Thesis "Experimentally Investigating the Joint Effects of Physical Activity and Sedentary Behavior on Depression: Randomized Control Trial." (Committee Member)
- Sydney Gully (2018) Senior Thesis "Measuring the Effects of Prosthetic Tactile Pacing on Overt Stuttering Frequency in Adults Who Stutter." (Second Reader)
- Meliah K. Grant (2018) Senior Thesis "The Effects of Prosthetic Tactile Feedback on Persons Who Stutter." (Second Reader)
- Faith Harris (2018) Senior Thesis "The Effects of Acute Exercise and Learning Strategy Implementation on Episodic Memory Performance." (Second Reader)
- Paige Rucker (2017) Senior Thesis "Pituitary Gland Functional Connectivity and BMI." (Chair)
- Hannah Dau (2017) Senior Thesis "Comparative Effectiveness of an Exercise and Sedentary Break Intervention on Mood Profile and Dietary Behavior in Young Adults: Pilot Study." (Second Reader)
- Madison Jones (2017) Senior Thesis "Action Understanding via Mirror Neuron Systems: A Proposed Model for the Science and Treatment of Stuttering." (Second Reader)
- Sara Kiparizoska (2016) Senior Thesis "The Olfactory System in Schizophrenia: an rsfMRI Study of the Piriform Cortex." (Chair)
- Stephanie Trippel (2016) Senior Thesis "Newborn Diagnostics: Effects of Hearing Screening Failures, Appointment Attendance and Distance on Age of Hearing Loss Diagnosis." (Chair)
- Roya Gordji (2016) Senior Thesis "An Investigation of Abnormal Neural Connectivity Associated with Regions Implicated in ADHD." (Second Reader)
- Allison Nooe (2016) Master of Science Thesis "Influence of Exercise-Related Beliefs on Exercise Behavior." (Committee Member)

ADVISEES & THESIS
COMMITTEES

- Meghan K. Edwards (2016) Master of Science Thesis “Sedentary Behavior-Inducing Intervention on Various Health-Related Outcomes in Active, Young Adults.” (Committee Member)
- Robert E. Davis (2015) Doctoral Dissertation “Understanding Physical Activity Behavior Among Older Adults: Accelerometer-Related Methodological Issues.” (Committee Member)
- Alexandria Drakos (2015) Senior Thesis “Systematic Review and Meta-Analysis of Exercise Effects on Attention and Working Memory in Alzheimer’s Disease.” (Chair)
- Marian Rebecca Bryant (2015) Senior Thesis “A Comparison of the Deaf Community and Hard-of-Hearing Individuals on Their Knowledge and Opinions of Cochlear Implants.” (Second Reader)