

Curriculum Vitae: Toshikazu Ikuta, Ph.D.

NAME	Toshikazu Ikuta aka <i>Tossi Ikuta</i>
ELECTRIC DIRECTORY	<i>e-mail:</i> tikuta@olemiss.edu <i>website:</i> http://www.olemiss.edu/~tikuta/ <i>orcid:</i> http://orcid.org/0000-0003-0848-302X
ADDRESS	311 George Hall 352 Rebel Drive, PO Box 1848 University, MS 38677-1848
CURRENTLY	Assistant Professor Department of Communication Sciences and Disorders School of Applied Sciences University of Mississippi (Ole Miss)
ALSO	Data Curator NHLBI/NIH Jackson Heart Study, Oxford Vanguard Center
UNIVERSITY COMMITTEE MEMBERSHIP	<ul style="list-style-type: none">• Faculty Senate, University of Mississippi. August 2014 to present.• University Research Board, University of Mississippi. August 2014 to present.• University Assessment Committee, University of Mississippi. November 2013 to present.
PREVIOUSLY	Post Doctoral Research Fellow (2008-2010) Research Scientist (2011-2013) Center for Psychiatric Neuroscience Feinstein Institute for Medical Research and Zucker Hillside Hospital
EDUCATION	Ph.D., Neural Science & Linguistics (2008) Indiana University, Bloomington, IN Dissertation Title: Dopamine and Dopaminergic System in Linguistic Comprehension and Grammar: fMRI study of Parkinson's Disease M.A., Computational Linguistics (2005) Indiana University, Bloomington, IN B.A., Liberal Arts (2001) International Christian University, Mitaka, Tokyo
RESEARCH INTERESTS	<ul style="list-style-type: none">• Mental disorders and cognitive diversity• Genetics in neuroimaging• Optimal statistical analysis in neuroimaging• Molecular and genetic basis for hearing, language and mind
COMPLETED PROJECTS	<ul style="list-style-type: none">• Influence of schizophrenia risk gene (<i>ZNF804A</i>) to the brain white matter• Neurobiology of Auditory Hallucinations in schizophrenia (fMRI and DTI)• Attentional control modulated by second-generation antipsychotics in first-episode psychosis• Diffusion Tensor Imaging of cingulum bundle development in Autism• Anterior cingulate cortex activity and functional disability in schizophrenia• Dopamine and dopaminergic system in grammatical processing

AREAS OF
POSTGRADUATE
TRAINING**Neuroscience**

Expertise Techniques:

- Functional Magnetic Resonance Imaging (fMRI)
- Resting State fMRI
- 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 (naive)
- Manchu (reading)

UNNATURAL
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)

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

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- TEACHING
- 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

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- 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)
 - 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)

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- PUBLICATION
- Peer Reviewed Journal Articles
- Katherine H. Karlsgodt, Majnu John, **Toshikazu Ikuta**, Philippe Rigoard, Bart D. Peters, Anil K. Malhotra, and Philip R. Szeszko (in press) **The Accumbens Frontal Tract: Diffusion Tensor Imaging Characterization and Developmental Change from Childhood to Adulthood**. *Human Brain Mapping*.
 - **Toshikazu Ikuta**, Pamela DeRosse, Miklos Argyelan, Katherine H Karlsgodt, Peter B Kingsley, Philip R Szeszko, and Anil K Malhotra. (in press) **Subcortical Modulation in Auditory Processing and Auditory Hallucinations**. *Behavioral Brain Research*.
DOI:10.1016/j.bbr.2015.08.009
 - Taro Kishi, Shinji Matsunaga, Kazuto Oya, **Toshikazu Ikuta**, and Nakao Iwata. (in press) **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*.
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.
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.pscychresns.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.pscychresns.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.pscychresns.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

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

- 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 Psy-**

- chosis. *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.