Miklos Argyelan, MSc, MD.

CONTACT INFORMATION

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Center for Neuroscience
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PERSONAL DATA

Date of birth: 12 July 1976
Place of birth: Bekescsaba, Hungary

EDUCATION

University of Szeged, Faculty of Medicine , Szeged, Hungary

M.D., summa cum laude, 2001
USMLE Step 1, Score: 94, 2007
USMLE Step 2 CK, Score: 93, 2008
USMLE Step 2 CS, 2009

University of Szeged, Faculty of Science , Szeged, Hungary

M.Sc., Physics and Informatics, 2004

POSITIONS

2001-2004	researcher, Department of Nuclear Medicine, University of Szeged
2004-2005	psychiatry resident, Department of Psychiatry, University of Szeged
2005-2006	post-doc, Department of Neurology, SUNY Downstate Medical Center
2006-2007	post-doc, Center for Neuroscience, Feinstein Institute for Medical Research, Manhasset, NY
2007-	research scientist, Center for Neuroscience, Feinstein Institute for Medical Research, Manhasset, NY

FELLOWSHIPS

2000 May	Applications of laser technology: Intensive Programme, University of Applied Sciences, Oldenburg, Germany
2000 July	IFMSA (International Federation of Medical Students' Associations) Elective for clinical medical students, Tel-Aviv, Israel
2002-2004	Part-time Research Fellow, Department of Psychiatry, University of Szeged, Szeged, Hungary

RESEARCH SKILLS

- experiences in the field of biostatistics, utilized R and SPSS statistical program extensively
- programming in languages C, C++, php, unix script, MATLAB, etc.
- database managing with SQL
- EEG and functional neuroimaging (SPECT, PET, fMRI, DTI), SPM and FSL experience

SUMMARY OF ACTIVITY

From the very beginning of my medical career, my interest became focused on neuroscience. While still an undergraduate I took great interest in neuroimaging and participated in the clinical testing of a dopamine transporter binding radiopharmaceutical, which we synthesized in our lab (Department of Nuclear Medicine, Szeged, Hungary). Using ^{99m}Tc-HMPAO SPECT, I also investigated changes in regional cerebral blood flow associated with certain forms of dementia. My thesis focused on this topic (Title of Thesis: Acetazolamide combined rCBF ^{99m}Tc-HMPAO SPECT investigations in dementia). Starting in 2001 I worked as a researcher in the Department of Nuclear Medicine, and had the opportunity to work with neuroreceptor binding radiopharmaceuticals, such as ^{99m}Tc-TRODAT, and ^{123}I-IBZM. My MSc thesis was based on a pharmacokinetical study that used compartment methods to compare the distribution of these radiopharmaceuticals in healthy subjects, and in

subjects diagnosed with depression, schizophrenia, or Parkinson's disease. During statistical analysis of these data I became familiar with the widely used image analyzing techniques. Since 2006 I have had the opportunity to work in the Center of Neuroscinece, Manhasset, NY. Dr. Eidelberg's neuroimaging lab provides access to a series of modalities (PET, fMRI, DTI) and we extensively use multivariate tools in the analysis of neuroimaging data. The lab mainly focuses on the neuroimaging studies of motor movement related disorders, such as Parkinson's disease, dystonia.

SELECTED PUBLICATIONS

Miklos Argyelan, Maren Carbon, Martin Niethammer, Aziz M. Ulug, Henning U. Voss, Susan B. Bressman, Vijay Dhawan, David Eidelberg (2009) Cerebellothalamocortical connectivity regulates penetrance in dystonia. Journal of Neuroscience 29, 9740-9747.

Jochem W. Rieger, Alexander Kim, **Miklos Argyelan**, Mark Farber, Sofya Glazman, Marc Liebeskind, Thomas Meyer, Ivan Bodis-Wollner (2008) Cortical functional anatomy of voluntary saccades in Parkinson disease. Clinical EEG and Neuroscience Journal 39,169-74.

Miklos Argyelan, Maren Carbon, Maria-Felice Ghilardi, Andrew Feigin, Paul Mattis, Chengke Tang, Vijay Dhawan, and David Eidelberg (2008) Dopaminergic suppression of brain deactivation responses during sequence learning. Journal of Neuroscience 28, 10687-10695.

Maren Carbon, Maria-Felice Ghilardi, **Miklos Argyelan**, Vijay Dhawan, Susan B Bressman, David Eidelberg (2008) Increased cerebellar activation during sequence learning in DYT1 carriers: an equiperformance study. Brain 131, 146-154.

Miklos Argyelan, Zoltan Szabo, Balazs Kanyo, Attila Tanacs, Zsuzsanna Kovacs, Zoltan Janka, Laszlo Pavics (2005) Dopamine transporter availability in medication free and in bupropion treated depression: a 99mTc-TRODAT-1 SPECT study Journal of Affective Disorders 89, 115-123.

Janos Kalman, Andras Palotas, Gabriella Kis, Krisztina Boda, Piroska Turi, Ferenc Bari, Ferenc Domoki, Ildiko Doda, **Miklos Argyelan**, Gabor Vincze, Terez Sera, Laszlo Csernay, Zoltan Janka Laszlo Pavics (2005) Regional cortical blood flow changes following sodium lactate infusion in Alzheimer's disease. European Journal of Neuroscience 21 (6), 1671-1678.

Zoltan Szabo, **Miklos Argyelan**, Balazs Kanyo, Laszlo Pavics, Zoltan Janka (2004) Change of dopamine transporter activity (DAT) during the action of bupropion (in depression) Neuropsychopharmacol Hung. 2004 Jun;6(2):79-81.

Laszlo Pavics, Gyorgy Szekeres, Edit Ambrus, Szabolcs Keri, Zoltan Kovacs, **Miklos Argyelan**, Balazs Kanyo, Laszlo Csernay, Zoltan Janka (2004) The prognostic value of dopamine receptor occupancy by [123I]IBZM-SPECT in schizophrenic patients treated with quetiapine. Nucl Med Rev Cent East Eur. 2004;7(2):129-33.

Balazs Kanyo, **Miklos Argyelan**, Gyorgy Dibo, Zsolt Szakonyi, Laszlo Vecsei, Ferenc Fulop, Adrienn Lancz, Peter Forgacs, Laszlo Pavics (2003) Imaging of dopamine transporter with Tc99m-Trodat-SPECT in movement disorders Clin Neurosci 2003; 56: 231-40.