

CURRICULUM VITAE
CSABA JUH ÁSZ, M.D., Ph.D.
Associate Professor (with tenure)

CONTACT

PET Center, Children's Hospital of Michigan
3901 Beaubien Blvd.
Detroit, MI 48201

Phone: (313) 966-5136 (office)
Fax: (313) 993-3845 (office)
Email: juhasz@pet.wayne.edu

EDUCATION

1983 Sándor Petofi High School, Bonyhád, Hungary

1989 M.D., *Summa cum laude*, University Medical School Pécs, Hungary

1993 Board certification in Neurology, Hungarian Board of Neurology

2002 Ph.D. degree, *Summa cum laude*, Semmelweis University, Medical School, Budapest, Hungary

TRAINING:

1989 – 1993 Residency, Department of Neurology, University Medical School, Pécs, Hungary

1994 -1995 Visiting Research Fellow, Department of Clinical Neurophysiology, University of California, Los Angeles, USA

1998 – 2001 Postdoctoral Fellow, PET imaging, Wayne State University, Detroit

FACULTY APPOINTMENTS:

1994 - 1997 Assistant Professor of Neurology, Department of Neurology, Semmelweis Medical University, Budapest, Hungary

1997 - 2000 Associate Professor, Department of Neurology, Semmelweis Medical University, Budapest, Hungary (on leave of absence between 2/1998-2/2000)

- 2001 - 2003 Assistant Professor of Pediatrics (research), Wayne State University School of Medicine, Detroit, Michigan
- 2003 – 2005 Assistant Professor on tenure-track (research), Department of Pediatrics, Wayne State University School of Medicine, Detroit, Michigan
- 2005 – 2008 Assistant Professor on tenure-track (research), Departments of Pediatrics and Neurology, Wayne State University School of Medicine, Detroit, Michigan
- 8/2008- Associate Professor with tenure (research), Departments of Pediatrics and Neurology, Wayne State University School of Medicine, Detroit, Michigan

MAJOR PROFESSIONAL SOCIETIES:

- Member American Epilepsy Society (since 2002)
- Member American Academy of Neurology (since 2003)
- Member The Society for NeuroOncology (SNO) (since 2008)

HONORS/AWARDS:

- 1994 Received the Eotvos Research Scholarship from the Hungarian Ministry of Culture and Education to visit UCLA, Department of Clinical Neurophysiology
- 2000 The presentation of Juhasz C et al., ‘Epileptogenicity of Metabolic Borderzones in Human Neocortical Epilepsy’ was selected as the highest ranked presentation in epilepsy, and has been highlighted at the 52nd Annual Meeting of the American Academy of Neurology, San Diego, CA (www.med.wayne.edu/Scribe/scribe99-00/scribesu00/notes.htm)
- 2001 The article of Juhasz et al., ‘Relationship of flumazenil and glucose PET abnormalities to neocortical epilepsy surgery outcome’ (*Neurology* 2001;56:1650-1658) was featured in the August 2001 issue of ‘*Neurology Alert*’ (a monthly survey of developments in neurology; page 94)

- 2002 The article of Juhasz et al., 'Chronic vigabatrin treatment modifies developmental changes of GABA_A receptor binding in young children with epilepsy' (*Epilepsia* 2001;42:1320-1326) has been highlighted on the "Tuberous sclerosis Alliance" website on January 10, 2002
- 2002 The presentation of Juhasz et al., 'Decreased GABA_A receptor binding and increased uptake of a [¹¹C]methyl-L-tryptophan on PET can independently identify human epileptogenic cortex' (*Neurology* 2002;58, Suppl 3:A150) has been highlighted as one of the best presentations in neuroimaging at the 54th Annual Meeting of the American Academy of Neurology, Denver, CO
- 2003 Certificate of Appreciation from the Sturge-Weber Foundation
- 2003 The paper entitled "Alpha-methyl-L-tryptophan PET detects epileptogenic cortex in children with intractable epilepsy" (Juhasz et al.: *Neurology* 2003;60:960-968) was highlighted as one of the most remarkable studies in the March 25 issue of *Neurology*, the official journal of the American Academy of Neurology
- 2004 The Summer edition of Scribe featured Dr. Juhasz's research on Sturge-Weber syndrome
- 2005, 2007 Certificate of Appreciation from the Sturge-Weber Foundation
- 2007 The article entitled "White matter volume as a major predictor of cognitive function in Sturge-Weber syndrome" (Juhasz et al., *Archives of Neurology*, 2007) has been featured as the "Image of the Month" in the October 2007 issue of the Clinical Neurology News
- 2008 Research featured on the front page of the Wayne State University School of Medicine website (www.med.wayne.edu), Research spotlight (July/August)
- 2008 WSU Service Award (10 years)
- 2008 Research (Tryptophan metabolism in human brain tumors) featured in the July 16 issue edition of the "Southend News" (official student newspaper of Wayne State University)
- 2008 Live radio interview featuring Dr. Juhasz's brain tumor research on WDET (FM 101.9) radio (Detroit Today, July 15, 2008).
- 2008 The abstract entitled "Cortical seizure foci and hypometabolism on PET: When do they not match well?" (Juhász C, Asano E, Batista C, Sood S, Chugani HT) has been selected for presentation at the Pediatric

Epilepsy Highlights session at the 62nd Annual Meeting of the American Epilepsy Society in Seattle, December 5-9.

2009 Wayne State University Career Development Chair Award

SERVICE:

Patient care:

- 1989-1994 Neurology resident, Department of Neurology, University Medical School, Pécs, Hungary
- 1994-1998 Head of Neurointensive Care Unit and the Epilepsy Clinic, Dept. of Neurology, Semmelweis Medical University, Budapest, Hungary
- 1998-present Involved in the Comprehensive Epilepsy Surgery team at WSU: provides multimodality (3-dimensional surface MRI, and objectively analyzed PET) imaging datasets for presurgical evaluation of epilepsy
- 2003-present Involved in patient and family education for the Sturge-Weber Foundation at Sturge-Weber conferences, with families visiting CHM, as well as on-line.

Journal/Editorial activity

Regular reviewer for Neurology (reviewed more than 20 papers in 2004-2006), one of the top international clinical neurology journals (impact factor: 5.0);

Ad hoc reviewer for Epilepsia (multiple reviews), Brain, Annals of Neurology (multiple reviews), Archives of Neurology, Lancet Neurology, Journal of Neurological Sciences (multiple reviews), Neuroimage, Journal of Nuclear Medicine, Journal of Pediatrics, Expert Review of Medical Devices, Expert Review of Neurotherapeutics, Journal of Pediatric Neurology, Expert Review in Dermatology, Neuropediatrics, Pediatric Neurology, Brain & Development.

- 2007 – present Invited for Board Membership for “The Open Neuroimaging Journal”
- Member of the reviewer Board, Journal of Pediatric Neurology

Grant review:

- 2003 Invited Reviewer for the Tuberous Sclerosis Alliance (reviewed 4 grant applications)
- 2007 NIH grant reviewer in the Special Emphasis Panel (ZMH1 ERB-S) at the National Institute of Mental Health; reviewed 4 applications submitted in response to RFAs entitled “Mechanisms of HIV neuropathogenesis: Emerging Domestic and Global Issues”

National and international boards/committees

- 2006 Sturge-Weber Foundation’s Translational Research Planning meeting, organized at the Rockefeller University, New York, February 2-3
- 2006 Invited panel member at the “Angiogenesis in the Nervous System Workshop”, organized by the NIH on December 11-13 in Bethesda, Maryland
- 2007- Invited panel member on the International League Against Epilepsy (ILAE) Subcommittee on Neuroimaging in Epilepsy, responsible for PET imaging issues. This subcommittee is working on international guidelines for use of neuroimaging in the management of children with epilepsy. Dr. Juhasz is responsible for PET issues.
- 2007- Panel member at the Virtual Epilepsy Academy (VIREPA) Neuroimaging panel, that provides world-wide internet-based interactive teaching courses. Dr. Juhasz is one of the two international PET-experts on this panel, wrote a textbook on PET in Epilepsy for the course and moderates the PET E-learning course on the VIREPA Internet platform.
- 2008- Panel Member at the Investigator Workshop Committee of the American Epilepsy Society

Other service

- 2000-present 29 invited lectures, including 24 lectures at national and international meetings in 9 countries (see detailed list at the end of Publications)
- 2007 Faculty evaluator for the Sheldon Brenner Resident Research and Wolf Zuelzer Fellow Research Presentations, Children’s Hospital of Michigan (4 x 1.5 hours)

TEACHING ACTIVITY

Years at Wayne State University: 10

Years at other universities: 4 (Semmelweis Medical University, Budapest, Hungary)

1994-1998 Lecturer, Department of Neurology, Semmelweis Medical University,
Budapest, Hungary

1998-present Supervisor and mentor of Research Fellows, Graduate Students and
Residents at the PET Center, Children's Hospital of Michigan

Eishi Asano M.D. 1998-2000

Zoltan Pfund M.D. 1999-2002

Joonsoo Lee M.D. 1999-2001

P. Pandey, M.D. 2001

Kenji Kagawa M.D. 2001-2003

Albert Ho, Med. Student 2002 Summer

Krisztina Benedek M.D. 2002-2003

Uma Padhye, M.D. 2003

Ross Ondersma, Med. Stud. 2003 Summer

Tomomi Kimiwada M.D. 2003-2004

Bharathi D Jagadeesan M.D. 2003-2004

Holly Yettaw, Med. Student 2004 Summer

Thomas Elutvathingal M.D. 2004-2006

Mohsin Maqbool M.D. 2005-2006

Wakamoto Hiroyuki M.D. 2005

Carlos E. Batista M.D. 2005 - 2008

Chris Lai BS Student 2006 Summer

Lesley Lawrence MD/PhD Student 2006-2007

Rajkumar Govindan M.D. 2006- present

Paul Brady M.S., student	2006 -2007
Aimee Luat M.D.	2006 -2007
Anita Dias M.D.	2007-present
Ajay Kumar M.D.	2007-present
Ben Wilson, M.S.	2008-present
Gautam Bahl, M.D. – Rad. resident	2008-2009
Balint Alkonyi, M.D.	2009-present

Faculty mentoring

2004-2009 Mentor for Eishi Asano M.D., Ph.D. on his NIH-funded K08 grant

Resident teaching

2002 Neurology Grand Round, WSU: “PET scanning in epilepsy”

2003
Detroit Pediatrics Grand Round, St. John Hospital and Medical Center,

2004-2007 Pediatric neurology weekly seminars: PET applications in
epilepsy (1 seminar / year)

2005 Neurology Grand Round, WSU: “Imaging epileptic foci and
networks” (Dec. 9.)

2005-present Radiology residents rotating in the PET Center, CHM: Brain PET
imaging consultation and case discussions (2x1-2 hours per each
resident). Teaching material: Brain PET collection on
representative disorders with epilepsy, developmental anomalies,
brain tumors and dementias

2005-2007 Neurology residents noon conference: lectures on PET
applications in neurological disorders (1 lecture /year)

2007 Pediatrics Grand Round, St. John Hospital and Medical Center,
Detroit

2008 Neurology Grand Round, WSU: “Sturge-Weber syndrome” (Sept.
19)

Postgraduate lectures and teaching

2004	CME credited Platform presentation at the Annual Meeting of the American Epilepsy Society
2004-2007	Clinical neurophysiology lecture series to neurology fellows: PET and SPECT applications in epilepsy (1 lecture/year)
2004-2007	PET Center seminar series to PET Center fellows and faculty (3 lectures/year)
2005	New York Medical College, Continuing Medical Education program "Role of neuroimaging in epilepsy: in autism and other syndromes."
2007	On-line course, moderator in VIREPA course on neuroimaging in epilepsy (textbook chapter, 2-week on-line interactive course, on-line testing and evaluation)
2008	Latin-American Summer School of Epilepsy, "Advanced Multimodality Imaging in the Evaluation of Intractable Epilepsies", Sao Paulo, Brazil
2008	Postgraduate Course, "Advanced Topics in Neurology", 3 lectures at the University of Sao Paulo, Ribeirao Preto, Brazil

GRANT SUPPORT:

Grants Completed

10/00 – 9/03	National Institutes of Health, R01 grant, PI: O. Muzik \$525,000 Co-Investigator: Csaba Juhasz, 10% effort "Ontogeny of human GABA _A receptorcomplex measured with PET"
10/02 - 9/04	National Institutes of Health, R21 grant, PI: O. Muzik \$200,000 Co-Investigator: Csaba Juhasz, 10% effort "Software tools for pediatric neuroimaging"

- 1/04 - 12/06 Children Research Center of Michigan Grant, \$100,000
PI: Csaba Juhasz, 50% effort
“Imaging brain tumors by a[¹¹C]-methyl-L-tryptophan PET in children”
- 10/06 – 12/08 NIH/National Cancer Institute, SAIC Contract, \$88,000
PI: Csaba Juhasz, 5% effort
“Extra-cranial PET imaging feasibility study of alpha-[¹¹C]methyl-L-tryptophan”
- 1/04 – 12/08 National Institutes of Health, R01 grant, PI: DC Chugani, \$925,000 (direct)
Co-Investigator: Csaba Juhasz, 10% effort
“Imaging tryptophan metabolism in children with epilepsy”

Current Grants

- 12/07 – 11/12 NIH/National Cancer Institute, R01 grant, \$1,095,000 (direct)
R01 CA123451
PI: Csaba Juhasz, 35% effort
“Tryptophan metabolism in human brain tumors”
- 7/03 – 4/13 National Institutes of Health, R01 grant, \$990,000 (direct)
R01 NS041922
PI: Csaba Juhasz, 30% effort
“Longitudinal neuroimaging in Sturge-Weber Syndrome”
- 10/05-9/10 National Institutes of Health, R01 grant, PI: HT Chugani, \$1,500,000 (direct)

- Co-Investigator: Csaba Juhasz, 10% effort
- “Localization of epileptic foci with PET in children”
- 4/07 – 3/12 National MS Society, Collaborative MS Research Center Award, \$825,000
- PI: P Dore-Duffy, PhD
- Co-Investigator: Csaba Juhasz
- 3/09 – 2/14 National Institutes of Health, R01 grant (NS064033), \$1,109,265 (direct)
- PI: Eishi Asano
- Co-investigator: Csaba Juhasz, 5% effort
- “Functional brain mapping in pediatric neurosurgery”

PUBLICATIONS

FULL-LENGTH ORIGINAL PAPERS IN PEER-REVIEWED JOURNALS

1. Szirmai I, **Juhász C**, Surek Gy, Dologh E. EEG mapping in neurological disorders. *Lege Artis Medicinae* (Budapest) 1992; 2:118-127.
2. **Juhász C**, Szirmai I. EEG analysis in patients with tick-borne encephalitis. *Clin Neurosci* (Budapest) 1992; 45:340-345.
3. **Juhász C**, Szirmai I. Spectral EEG-parameters in patients with tick-borne encephalitis. A follow-up study. *Clinical Electroencephalography* 1993; 24: 53-58.
4. Szirmai I, Kamondi A, Magyar H, **Juhász C**. Relation of laboratory and clinical variables to the grade of carotid atherosclerosis. *Stroke* 1993; 24: 1811-1816.
5. Szirmai I, Kamondi A, Magyar H, **Juhász C**. Langzeituntersuchungen von Patienten mit zerebraler Ischemie unter Pentosanpolysulfat (SP 54). *Perfusion* 1993; 6: 314-320.
6. **Juhász C**, Vespa PM, Nuwer MR, Martin N. Quantitative monitoring of EEG variability following subarachnoid hemorrhage. *Clin Neurosci* (Budapest) 1996; 49: 365-370.

7. **Juhász C**, Kamondi A, Szirmai I. Spectral EEG analysis following hemispheric stroke. Evidences of transhemispheric diaschisis. *Acta Neurol Scand* 1997; 96: 397-400.
8. Amrein I, **Juhász C**, Szirmai I. Clinical course and prognosis of intraventricular hemorrhages. *Clin Neurosci* (Budapest) 1997.
9. Vespa PM, Nuwer MR, **Juhász C**, Alexander M, Nenov V, Martin N, Becker DP. Early detection of vasospasm after acute subarachnoid hemorrhage using continuous EEG ICU monitoring. *Electroencephalogr Clin Neurophysiol* 1997;103: 607-615.
10. **Juhász C**, Nagy F, Muzik O, Watson C, Shah J, Chugani HT. ¹¹C-Flumazenil PET in patients with epilepsy with dual pathology. *Epilepsia* 1999;40:566-574.
11. Nagy F, Chugani DC, **Juhász C**, da Silva EA, Muzik O, Kupsky W, Canady A, Watson C, Shah J, Chugani HT. Altered *in vitro* and *in vivo* flumazenil binding in human epileptogenic neocortex. *J Cereb Blood Flow Metab* 1999;19:939-947.
12. Szirmai I, **Juhász C**, Nagy F, Amrein I, Kamondi A. Analysis of the activity of neurologic intensive care units. *Orv Hetil* (Budapest) 1999;140:979-986.
13. **Juhász C**, Nagy F, Watson C, da Silva EA, Muzik O, Chugani DC, Shah J, Chugani HT. Glucose and [¹¹C]flumazenil positron emission tomography abnormalities of thalamic nuclei in temporal lobe epilepsy. *Neurology* 1999;53:2037-2045.
14. Muzik O, da Silva E, **Juhász C**, Chugani DC, Shah J, Nagy F, Canady A, von Stockhausen HM, Herholz K, Gates J, Frost M, Ritter F, Watson C, Chugani HT. Intracranial EEG vs. flumazenil and glucose PET in children with extratemporal lobe epilepsy. *Neurology* 2000;54:171-179.
15. Asano E, Chugani DC, Muzik O, Shen C, **Juhász C**, Janisse J, Ager J, Canady A, Shah JR, Shah AK, Watson C, Chugani HT. Multimodality imaging for improved detection of epileptogenic lesions in children with tuberous sclerosis complex. *Neurology* 2000;54:1976-1984.
16. Pfund Z, Chugani DC, **Juhász C**, Muzik O, Chugani HT, Wilds IB, Seraji-Bozorgzad N, Moore GJ. Evidence for coupling between glucose metabolism and glutamate cycling using FDG PET and ¹H Magnetic resonance spectroscopy in patients with epilepsy. *J Cereb Blood Flow Metab* 2000;20:871-878.
17. **Juhász C**, Chugani DC, Muzik O, Watson C, Shah J, Shah A, Chugani HT. Is epileptogenic cortex truly hypometabolic on interictal positron emission tomography? *Ann Neurol* 2000;48:88-96.
18. **Juhász C**, Chugani DC, Muzik O, Watson C, Shah J, Shah A, Chugani HT. Electroclinical correlates of flumazenil and fluorodeoxyglucose PET abnormalities in lesional epilepsy. *Neurology* 2000;55:825-834.
19. Muzik O, Chugani DC, **Juhász C**, Shen C, Chugani HT. Statistical parametric mapping: assessment of application in children. *Neuroimage* 2000;12:538-549.

20. Pfund Z, Chugani HT, **Juhász C**, Muzik O, Behen ME, Chugani DC, Nigro MA, Trock GL, Squires LA. Lissencephaly: fetal pattern of glucose metabolism on positron emission tomography. *Neurology* 2000 55: 1683-1688.
21. Chugani DC, Muzik O, **Juhász C**, Janisse JJ, Ager J, Chugani HT. Postnatal maturation of human GABA_A receptors measured with positron emission tomography. *Ann Neurol* 2001;49:618-626.
22. Juhász C, Chugani DC, Muzik O, Shah A, Shah J, Watson C, Canady A, Chugani HT. Relationship of flumazenil and glucose PET abnormalities to neocortical epilepsy surgery outcome. *Neurology* 2001;56:1650-1658.
23. Lee JS, Asano E, Muzik O, Chugani DC, **Juhász C**, Pfund Z, Philip S, Behen ME, Chugani HT. Sturge-Weber syndrome: correlation between clinical course and FDG PET findings. *Neurology* 2001;57: 2001; 57:189-195.
24. **Juhász C**, Behen ME, Muzik O, Chugani DC, Chugani HT. Bilateral prefrontal and temporal neocortical hypometabolism in children with epilepsy and aggression. *Epilepsia* 2001;42:991-1001.
25. **Juhász C**, Muzik O, Chugani DC, Chengang Shen, Janisse J, Chugani HT. Prolonged vigabatrin treatment modifies developmental changes of GABA_A receptor binding in young children with epilepsy. *Epilepsia* 2001;42:1320-1326.
26. Lee JS, **Juhász C**, Kaddurah AK, Chugani HT. Patterns of cerebral glucose metabolism in early and late stages of Rasmussen's syndrome. *J Child Neurol* 2001;16:798-805.
27. Chugani HT, Behen ME, Muzik O, **Juhász C**, Nagy F, Chugani DC. Local brain functional activity following early deprivation: a study of post-institutionalized Romanian orphans. *Neuroimage* 2001;14:1290-301.
28. Pfund Z, Chugani DC, Muzik O, **Juhász C**, Behen ME, Lee J, Chakraborty P, Mangner T, Chugani HT. a-[¹¹C]Methyl-L-tryptophan PET in patients with alternating hemiplegia of childhood. *J Child Neurol* 2002;17:253-260.
29. Lee JS, Pfund Z, **Juhász C**, Behen ME, Muzik O, Chugani DC, Nigro MA, Chugani HT. Altered regional brain glucose metabolism in Duchenne muscular dystrophy: a PET study. *Muscle Nerve* 2002;26:506-12.
30. Asano E, Muzik O, Shah A, **Juhász C**, Chugani DC, Sood S, et al. Quantitative interictal subdural EEG analyses in children with neocortical epilepsy. *Epilepsia* 2003;44:425-434.
31. Juhász C, Chugani DC, Muzik O, Shah A, Asano E, Mangner T, Chakraborty PK, Sood S, Chugani HT. Alpha-methyl-L-tryptophan PET detects epileptogenic cortex in children with intractable epilepsy. *Neurology* 2003;60:960-968.
32. Pfund Z, Kagawa K, **Juhász C**, Shen C, Lee JS, Chugani DC, Muzik O, Chugani HT. Quantitative analysis of gray and white matter volumes and glucose metabolism in Sturge-Weber syndrome. *J Child Neurol* 2003;18:119-126.
33. **Juhász C**, Chugani DC, Padhye UN, Muzik O, Shah A, Asano E, Mangner T, Chakraborty PK, Sood S, Chugani HT. Evaluation with a-[¹¹C]methyl-L-

- tryptophan PET for reoperation after failed epilepsy surgery. *Epilepsia* 2004;45:124-30.
34. D'Agostino MD, Bastos A, Piras C, Bernasconi A, Grisar T, Tsur VG, Snipes J, **Juhász C**, Chugani H, Guerrini R, Cross H, Andermann E, Dubeau F, Montes J, Olivier A, Andermann F. Posterior quadrantic dysplasia or hemi-hemimegalencephaly: a characteristic brain malformation. *Neurology* 2004;62:2214-20.
 35. Asano E, Benedek K, Shah A, **Juhász C**, Shah J, Sood S, Chugani HT. Is intraoperative electrocorticography reliable in children with intractable neocortical epilepsy? *Epilepsia* 2004;45:1091-9.
 36. Benedek K, **Juhász C**, Muzik O, Chugani DC, Chugani HT. Metabolic changes of subcortical structures in intractable focal epilepsy. *Epilepsia* 2004;45:1100-5.
 37. Asano E, Muzik O, Shah A, **Juhász C**, Chugani DC, Kagawa K, Benedek K, Sood S, Gotman J, Chugani HT. Quantitative visualization of ictal subdural EEG changes in children with neocortical focal seizures. *Clin Neurophysiol* 2004;115:2718-2727.
 38. Kagawa K, Chugani DC, Asano E, Juhász C, Muzik O, Shah A, Shah J, Sood S, Kupsky WJ, Mangner TJ, Chakraborty PK, Chugani HT. Epilepsy surgery outcome in children with tuberous sclerosis evaluated with a-[¹¹C]methyl-L-tryptophan PET. *J Child Neurol* 2005;20:429-438.
 39. Chandana SR, Behen ME, **Juhász C**, Muzik O, Rothermel RD, Thomas J, Mangner TJ, Chakraborty PK, Harry T, Chugani HT, Chugani DC. Significance of abnormalities in developmental trajectory and asymmetry of cortical serotonin synthesis in autism. *Int J Dev Neurosci* 2005;23:171-182.
 40. Muzik O, Pourabdollah S, **Juhász C**, Chugani DC, Janisse J, Draghici S. Application of an objective method for localizing bilateral cortical FDG PET abnormalities to guide the resection of epileptic foci. *IEEE Trans Biomed Eng* 2005;52:1574-81.
 41. Luat AF, Asano E, **Juhász C**, Chandana SR, Shah A, Sood S, Chugani HT. Relationship between brain glucose PET and EEG in children with continuous spike and wave during slow wave sleep. *J Child Neurol* 2005;20:682-90.
 42. Asano E, **Juhász C**, Shah A, Muzik O, Chugani DC, Shah J, Sood S, Chugani HT. Origin and propagation of epileptic spasms delineated on electrocorticography. *Epilepsia* 2005;46:1086-1097.
 43. Benedek K, **Juhász C**, Chugani DC, Muzik O, Chugani HT. Longitudinal changes of cortical glucose hypometabolism in children with intractable epilepsy. *J Child Neurol* 2006;21:26-30.
 44. **Juhász C**, Chugani DC, Muzik O, Wu D, Sloan A, Barger G, Watson C, Shah A, Sood S, Ergun EL, Mangner T, Chakraborty P, Kupsky WJ, Chugani HT. In vivo uptake and metabolism of a-[¹¹C]methyl-L-tryptophan in human brain tumors. *J Cereb Blood Flow Metab* 2006;26:345-57.

45. Kimiwada T, **Juhász C**, Makki M, Muzik O, Chugani DC, Asano A, Chugani HT. Hippocampal and thalamic diffusion abnormalities in children with temporal lobe epilepsy. *Epilepsia* 2006;47:167-75.
46. Eluvathingal T, Chugani HT, Behen ME, **Juhász C**, Muzik O, Maqbool M, Chugani DC, Makki M. Abnormal brain connectivity in children following early severe socio-emotional deprivation: a diffusion tensor imaging study. *Pediatrics* 2006;117:2093-100.
47. Wakamoto H, Eluvathingal T, Makki M, **Juhász C**, Muzik O, Chugani HT. Diffusion tensor imaging of the corticospinal tract following cerebral hemispherectomy. *J Child Neurol* 2006;21:566-71.
48. Eluvathingal TJ, Behen ME, Chugani DC, Janisse J, Bernardi B, Chakraborty P, **Juhász C**, Muzik O, Chugani HT. Cerebellar lesions in tuberous sclerosis complex: neurobehavioral and neuroimaging correlates. *J Child Neurol* 2006;846-51.
49. **Juhász C**, Batista EA, Chugani DC, Muzik O, Chugani HT. Evolution of cortical metabolic abnormalities and their clinical correlates in Sturge-Weber syndrome. *Eur J Paediatr Neurol* 2007;11:277-84.
50. Asano E, Mihaylova T, **Juhász C**, Sood S, Chugani HT. Effect of sleep on interictal spikes and distribution of sleep spindles on electrocorticography in children with focal epilepsy. *Clin Neurophysiol* 2007;118:1360-8.
51. Kovacs T, Osztie E, Bodrogi L, Pajor P, Farsang M, **Juhász C**, Szirmai I. Cerebellar developmental venous anomalies with associated vascular pathology. *Br J Neurosurg* 2007;21:217-23.
52. **Juhász C**, Haacke M, Hu J, Xuan Y, Makki M, Behen ME, Maqbool M, Muzik O, Chugani DC, Chugani HT. Multimodality imaging of cortical and white matter abnormalities in Sturge-Weber syndrome. *AJNR Am J Neuroradiol* 2007; 28:900-6.
53. **Juhász C**, Lai C, Behen ME, Muzik O, Helder EJ, Chugani DC, Chugani HT. White matter volume as a major predictor of cognitive function in Sturge-Weber syndrome. *Arch Neurol* 2007;64:1169-74.
54. Batista EA, **Juhász C**, Muzik O, Chugani DC, Chugani HT. Increased visual cortex glucose metabolism contralateral to the angioma in children with Sturge-Weber syndrome. *Dev Med Child Neurol* 2007;49:567-73.
55. Behen M, Chugani HT, **Juhász C**, Helder E, Ho A, Maqbool M, Rothermel RD, Perry J, Muzik O. Abnormal brain tryptophan metabolism and clinical correlates in Tourette syndrome. *Mov Disord* 2007; 22:2256-62.
56. Haseeb A, Asano E, **Juhász C**, Shah A, Sood S, Chugani HT. Young patients with focal seizures may have the primary motor area for the hand in the postcentral gyrus. *Epilepsy Res* 2007;76:131-9.

57. Chugani HT, **Juhász C**, Behen ME, Ondersma R, Muzik O. Autism with facial port-wine stain: A new syndrome? *Ped Neurol* 2007;37:192-9.
58. Nishida M, Asano E, **Juhász C**, Muzik O, Sood S, Chugani HT. Cortical glucose metabolism correlates negatively with delta-slowing and spike-frequency in epilepsy associated with tuberous sclerosis. *Hum Brain Mapp* 2008;29:1255-1264.
59. Chugani HT, **Juhász C**, Chugani DC, Lawrenson L, Muzik O, Chakraborty PK, Sood S. Increased striatal serotonin synthesis following cortical resection in children with intractable epilepsy. *Epilepsy Res* 2008;78:124-30.
60. Batista CEA, Hu J, Haacke EM, Behen ME, Helder EJ, Chugani HT, **Juhász C**. Magnetic resonance spectroscopic imaging detects abnormalities in normal-appearing frontal lobe of patients with Sturge-Weber syndrome. *J Neuroimaging* 2008;18:306-13.
61. Sivaswamy L, Rajamani K, **Juhász C**, Maqbool M, Makki M, Chugani HT. The corticospinal tract in children with Sturge-Weber syndrome: a diffusion tensor tractography study. *Brain Dev* 2008;30:447-53.
62. Govindan RM, Makki M, Sundaram S, **Juhász C**, Chugani HT. Diffusion tensor analysis of temporal and extratemporal lobe tracts in temporal lobe epilepsy. *Epilepsy Res* 2008;80:30-41.
63. **Juhász C**, Asano E, Shah A, Chugani DC, Muzik O, Sood S, Chugani HT. Focal decreases of cortical GABA_A receptor binding remote from the primary seizure focus: what do they indicate? *Epilepsia* 2009;50:240-250.
64. Brown EC, Rothermel R, Nishida M, **Juhász C**, Muzik O, Hoechstetter K, Sood S, Chugani HT, Asano E. In-vivo animation of auditory-language induced gamma oscillations in children with intractable focal epilepsy. *Neuroimage* 2008;41:1120-31.
65. Fukuda M, Nishida M, **Juhász C**, Muzik O, Sood S, Chugani HT, Asano E. Short-latency median-nerve somatosensory-evoked potentials and induced gamma oscillations in humans. *Brain* 2008;131:1793-805.
66. Hu J, Lu Y, **Juhász C**, Kou Z, Xuan Y, Latif Z, Kudo K, Chugani HT, Haacke EM. MR susceptibility weighted imaging (SWI) complements conventional contrast enhanced T1 weighted MRI in characterizing brain abnormalities of Sturge-Weber syndrome. *J Magnetic Res Imaging* 2008;28:300-307.
67. Nishida M, **Juhász C**, Sood S, Chugani HT, Asano E. Cortical glucose metabolism positively correlates with gamma-oscillations in nonlesional focal epilepsy. *NeuroImage* 2008;42:1275-84.
68. Wakamoto H, Chugani DC, **Juhász C**, Muzik O, Kupsky WJ, Chugani HT. [Alpha-methyl-l-tryptophan positron emission tomography in epilepsy with cortical developmental malformations.](#) *Pediatr Neurol* 2008;39:181-8.

69. **Juhász C**, Muzik O, Lu X, Jahania S, Soubani AO, Khalaf M, Peng F, Mangner TJ, Chakraborty PK, Chugani DC. Quantification of tryptophan transport and metabolism in lung tumors using positron emission tomography. *J Nucl Med* 2009; 50:356-63.
70. Asano E, Nishida M, Fukuda M, Rothermel R, **Juhász C**, Sood S. Differential visually-induced gamma oscillations in human cerebral cortex. *NeuroImage* 2009;45:477-89.
71. Batista CEA, **Juhász C**, Muzik O, Kupsky WJ, Barger G, Chugani HT, Chugani HT, Mittal S, Sood S, Chakraborty PK, Chugani DC. Imaging correlates of differential expression of indoleamine 2,3-dioxygenase in human brain tumors. *Mol Imaging Biol* 2009 May 12 [Epub ahead of print]
72. Asano E, **Juhász C**, Shah A, Sood S, Chugani HT. Role of subdural electrocorticography in prediction of long-term seizure outcome in epilepsy surgery. *Brain* 132;1038-47.
73. Saporta ASD, Chugani HT, **Juhász C**, Makki M, Muzik O, Benjamin JW, Behen ME. Multimodality neuroimaging in Tourette syndrome: Alpha-[¹¹C]methyl-L-tryptophan Positron Emission Tomography and diffusion tensor imaging studies. *J Child Neurol* (in press)
74. Kumar A, Asano E, Sundaram SK, **Juhász C**, Makki M, Janisse J, Chugani DC, Sood S, Chugani HT. Diffusion Tensor Imaging study of the cortical origin and course of the corticospinal tract in normal children. *AJNR Am J Neuroradiol* (in press)

CASE REPORTS

1. **Juhász C**, Scheidl E, Szirmai I. Reversible focal MRI abnormalities following status epilepticus. *Electroencephalogr Clin Neurophysiol* 1998;107:402-407.
2. Pandey P, Shah J, **Juhász C**, Pfund Z, Chugani HT. Spontaneous long-term remission of intractable partial epilepsy in childhood. *J Child Neurol* 2002;17:466-470.
3. Chander S, Ergun EL, Chugani HT, Chugani DC **Juhász C**, Shields AF, Weaver DW. High 2-deoxy-[¹⁸F]fluoro-D-glucose accumulation in a case of retroperitoneal fibrosis following resection of carcinoid tumor. *Mol Imag Biol* 2002;4:363-368.
4. Shah JR, Juhász C, Kupsky W, Asano E, Sood S, Fain D, Chugani HT. Rasmussen encephalitis associated with Parry-Romberg syndrome. *Neurology* 2003;61:395-397.
5. [Luat AF](#), [Chugani HT](#), [Asano E](#), **Juhász C**, [Troock G](#), [Rothermel R](#). Episodic receptive aphasia in a child with Landau-Kleffner Syndrome: PET correlates. [Brain Dev](#) 2006 28:592-6.
6. **Juhász C**, Chugani HT. An almost missed leptomeningeal angioma in Sturge-Weber syndrome. *Neurology* 2007;68:243.

7. Batista CEA, Chugani HT, **Juhász C**, Behen ME, Shankaran S. Transient hypermetabolism of the basal ganglia following perinatal hypoxia. *Ped Neurol* 2007;36:330-333.
8. Peng F, **Juhász C**, Bhambhani K, Chugani HT. Assessment of progression and treatment response of optic pathway glioma with positron emission tomography using a-[¹¹C]-methyl-L-tryptophan. *Mol Imaging Biol* 2007;9:106-9.
9. Atkinson M, **Juhász C**, Shah J, Guo X, Kupsky W, Fuerst D, Johnson R, Watson C. Paradoxical imaging findings in cerebral gliomas. *J Neurol Sci* 2008;269:180-183.

REVIEW ARTICLES

1. **Juhász C**, Chugani DC, Chugani HT. The utility of PET in the evaluation of brain development and neuropsychiatric disorders of childhood. *Hungarian Science*, 1999 October:41-56.
2. **Juhász C**, Chugani DC, Muzik O, Watson C, Shah J, Shah A, Chugani HT. Relationship between EEG and PET abnormalities in clinical epilepsy. *J Clin Neurophysiol* 2000;17:29-42.
3. **Juhász C**, Chugani HT, Muzik O, Chugani DC. Neuroradiological assessment of brain structure and function and its implication in the pathogenesis of West syndrome. *Brain Dev* 2001;23:488-495.
4. Asano E, **Juhász C**, Chugani DC, Muzik O, Chugani HT. Surgical treatment of West syndrome. *Brain Dev* 2001;23:668-676
5. **Juhász C**, Chugani HT, Muzik O, Chugani DC. Epilepsy, infantile spasms and developmental encephalopathy. Hypotheses from functional neuroimaging studies. *Int Rev Neurobiol* 2002;49:37-55.
6. **Juhász C**. Positron emission tomography in presurgical localization of epileptic foci. *Ideggy Szle (Clin Neurosci)* (Budapest) 2003;56(3-4):121-125.
7. **Juhász C**, Chugani HT. Imaging the epileptic brain with positron emission tomography. *Neuroimag Clin N Am* 2003;13:705-716.
8. **Juhász C**, Chugani DC, Chugani HT. Pathophysiology and functional consequences of human partial epilepsy: lessons from positron emission tomography studies. *Acta Physiol Hung* 2003;90:281-303

BOOK CHAPTERS

1. Szirmai I, **Juhász C**, Kamondi A, Surek Gy. EEG-mapping in the follow-up of cerebrovascular lesions. In: *Quantitative EEG-analysis - clinical utility and new methods*. Eds.: M. Rother, U. Zwiener. Universitats-Verlag, Jena, Germany, 1993;42-45.

2. Muzik O, Chugani DC, Shen C, **Juhász C**, von Stockhausen HM, Chugani HT. Assessment of the performance of FDG and FMZ PET imaging against the gold standard of invasive EEG monitoring for the detection of extratemporal lobe epileptic foci in children. In: Gjedde A, Hansen SB, Knudsen GM, Paulson OB (eds.): *Physiological imaging of the brain with PET*. Academic Press, San Diego, USA. 2001; 381-387.
3. Asano E, **Juhász C**, Chugani DC, Muzik O, Chugani HT. Positron emission tomography – Localization for epilepsy surgery. In: Reisin RC, Nuwer MR, Hallett M, Medina C (eds.). *Advances in Clinical Neurophysiology (vol. 54)*, Elsevier, 2002;351-358.
4. **Juhász C**, Chugani HT. Functional Neuroimaging. In: Wallace SJ, Farrell K (eds.): *Epilepsy in children*, 2nd edition. E. Arnold Publ. Ltd. 2004; 342-351.
5. **Juhász C**, Chugani DC, Muzik O, Chugani HT. Positron-emission Tomography in epilepsy. In: Kuzniecky R & Jackson G (eds.), *Magnetic resonance in epilepsy: and other neuroimaging techniques*; 2nd edition. Academic Press 2005; 395-411.
6. Jagadeesan B, **Juhász C**, Chugani HT. Pediatric cortical dysplasia: PET studies. In: *Bioimaging in Neurodegeneration*. Eds: Broderick PA, Rahni DN, Kolodny EH. Humana Press, Totowa, NJ. 2005;131-140.
7. **Juhász C**, Chugani HT. Flumazenil PET. In: Miller JW & Silbergeld DL (eds.), *Epilepsy Surgery. Principles and controversies*. Taylor & Francis, New York, NY 2006;768-778.
8. Chugani HT, **Juhász C**. Functional Imaging. In: *Pediatric Neuropsychiatry*. 2nd edition. Coffey CE & Brumback RA (eds.). Lippincott Williams & Wilkins; Philadelphia, PA; 2006:109-133.
9. Chugani HT, **Juhász C**, Asano E, Sood S. PET in neocortical epilepsies. *Textbook of Epilepsy Surgery*. Luders HO (ed.). (in press)
10. Kou Z, **Juhász C**, Hu J. Sturge-Weber syndrome. In: *Susceptibility Weighted Imaging*. E.M. Haacke (ed). (submitted)

PUBLISHED ABSTRACTS AND PRESENTATIONS

1. **Juhász C**, Szirmai I. EEG and CT examinations in stroke patients. International Congress of Medical Students, Minsk, Belarussia, 1988.
2. Kamondi A, **Juhász C**. Spectral analysis of monoton alpha rhythm. Annual Conference of the Hungarian Society of EEG and Clinical Neurophysiology, Sopron, Hungary, 1988.
3. **Juhász C**, Salamon E. Statistical methods of EEG mapping in cerebrovascular diseases. National Conference of Young Neurologists, Pecsvarad, Hungary, 1991.

4. Szirmai I, **Juhász C**, Grexa E, Kamondi A, Surek Gy. Comparison of results of CT and EEG-mapping examinations. 2nd Annual Meeting of the Hungarian Neuroradiological Society, Szeged, Hungary, 1991.
5. **Juhász C**. EEG-mapping of patients with Tick-borne encephalitits. Annual Conference of the Hungarian Society of EEG and Clinical Neurophysiology, Szeged, Hungary, 1991.
6. **Juhász C**, Kamondi A, Szirmai I. EEG mapping in stroke. A follow-up study. 25th International Danube Symposium for Neurological Sciences, Budapest, Hungary, 1992.
7. **Juhász C**. The use of EEG-mapping in organic brain diseases. Annual Conference of the Hungarian Society of EEG and Clinical Neurophysiology, Gyor, Hungary, 1992.
8. Kamondi A, Szirmai I, **Juhász C**. Follow-up investigation of cerebral ischemic patients treated with Pentosan Polysulfat. 8th Meeting of the Danubian League against Thrombosis and Haemorrhagic Disorders, Munich, Germany, 1992.
9. **Juhász C**, Szirmai I. Relation of rheological parameters to the grade of carotid atherosclerosis. National Conference of the Hungarian Rheological Society, Balatonkenese, Hungary, 1994.
10. Szirmai I, **Juhász C**, Magyar H, Kamondi A. Relation of vascular abnormalities and laboratory findings in cerebral ischemias. *Clin Neurosci/Ideggy Szle* 1993;46:199-200.
11. **Juhász C**, Szirmai I, Kamondi A, Surek Gy. Follow-up of cerebrovascular patients by spectral EEG-analysis. *Clin Neurosci/Ideggy Szle* 1993;46:208-209.
12. **Juhász C**, Vespa PM, Nuwer MR. EEG trend analysis for monitoring patients with acute subarachnoid hemorrhage. *Clin Neurosci/Ideggy Szle* 1995;48:342-343.
13. Vespa PM, **Juhász C**, Alexander M, Alsina G, Martin N, Becker DP. Early detection of vasospasm after subarachnoid hemorrhage by decreased relative alpha variability. *Electroencephalogr Clin Neurophysiol* 1995;95: 9P.
14. **Juhász C**, Vespa PM, Nuwer MR. EEG monitoring in neurological intensive care unit. *Medical Science Monitor* 1996;2(Suppl 3): 45.
15. Scheidl E, **Juhász C**, Szirmai I. Antiphospholipid syndrome or SLE ? A case report. *Medical Science Monitor* 1996; 2 (Suppl 3): 46.
16. **Juhász C**, Vespa PM, Nuwer MR, Martin N. Correlation between dominant frequency and long-term variability of EEG during continuous ICU monitoring. *European Journal of Neurology* 1996;3(suppl 5):230. (presented: Meeting of the European Federation of Neurological Societies [EFNS], Rome, Italy, 1996).
17. **Juhász C**, Scheidl E, Szirmai I. Reversible cortical abnormalities in focal status epilepticus: an MRI, SPECT, TCD, EEG follow-up study. *European Journal of*

- Neurology* 1997; 4(Suppl 1): S84. (Presented: Meeting of the European Federation of Neurological Societies, Prague, Czech Republic, 1997).
18. **Juhász C**, Szirmai I. Changes of spectral EEG variables in patients with hemispheric stroke. *Electro-encephalogr Clin Neurophysiol* 1997; 102: 6P. (Presented: Annual Meeting of the American EEG Society, Washington DC, USA, 1995)
 19. **Juhász C**, Nagy F, Muzik O, Watson C, Shah J, Chugani HT. [¹¹C]-flumazenil PET in epileptic patients with dual pathology. *Epilepsia* 1998; 39(Suppl 6): 102. (Presented at the Annual Meeting of the American Epilepsy Society, San Diego, CA, 1998)
 20. Nagy F, **Juhász C**, da Silva EA, et al. Decreased [¹¹C]-flumazenil binding in dorsomedial thalamic nucleus in human focal epilepsy: a PET study. *Epilepsia* 1998; 39(Suppl 6): 102. (Annual Meeting of the American Epilepsy Society, San Diego, CA, 1998)
 21. da Silva EA, Nagy F, **Juhász C**, et al. Flumazenil and glucose PET scanning in extratemporal lobe epilepsy: correlation with intracranial EEG. *Epilepsia* 1998; 9 (Suppl 6): 83. (Annual Meeting of the American Epilepsy Society, San Diego, CA, 1998)
 22. Shah J, Watson C, da Silva EA, Nagy F, **Juhász C**, Fuerst D, Reddy R, Chugani HT. Lateralizing value of abdominal aura in temporal lobe epilepsy. *Epilepsia* 1998; 39(Suppl 6): 112. (Annual Meeting of the American Epilepsy Society, San Diego, CA, 1998)
 23. **Juhász C**, da Silva EA, Watson C, Muzik O, Shah J, Chugani DC, von Stockhausen HM, Chugani HT. Comparison of [¹¹C]flumazenil and glucose PET abnormalities in patients with epilepsy and brain lesions. *Neurology* 1999;52(suppl.2): A58. (Presented: 51st Annual Meeting of the American Academy of Neurology, Toronto, ON, Canada)
 24. Kaddurah AK, **Juhász C**, Chugani HT. Predilection of frontal-temporal cortex involvement in early Rasmussen's syndrome: a PET study. *Annals of Neurology* 1999;46(3):532-533. (Presented: Annual Meeting of the American Child Neurology Society, 1999, Nashville, TN)
 25. Chugani HT, **Juhász C**, Behen MA. Children with epilepsy and aggression: a distinct pattern of glucose metabolism. *Annals of Neurology* 1999;46(3):533. (Annual Meeting of the American Child Neurology Society, 1999, Nashville, TN)
 26. **Juhász C**, Muzik O, Chugani DC, Shah J, Canady A, Shah A, Watson C, Gates J, Frost M, Ritter F, Chugani HT. Non-resected [¹¹C]flumazenil PET abnormalities predict poor outcome in extratemporal lobe epilepsy surgery. *Epilepsia* 1999;40(Suppl.7):216. (Presented: Annual Meeting of the American Epilepsy Society, Orlando, FL, December 1999)

27. **Juhász C**, Watson C, Chugani DC, Muzik O, Shah J, Shah A, Chugani HT. Epileptogenicity of “metabolic borderzones” in human neocortical epilepsy. *Neurology* 2000;54(suppl 3):A107-108 (Presented: 52nd Annual Meeting of the American Academy of Neurology, San Diego, CA, USA, May 2000)
28. **Juhász C**, Muzik O, Chugani DC, Rothermel RD, Behen ME, Chugani HT. Ontogeny of human GABA_A receptors studied by positron emission tomography. *Annals of Neurology* 2000;48(3):517. (Annual Meeting of the American Child Neurology Society, St. Louis, MO, 2000)
29. Lee JS, Asano E, **Juhász C**, Pfund Z, Behen M, Muzik O, Chugani DC, Chugani HT. Sturge-Weber syndrome with unihemispheric involvement: correlation between clinical characteristics and positron emission tomography fluorodeoxyglucose findings. *Annals of Neurology* 2000;48(3):531-532. (Annual Meeting of the American Child Neurology Society, St. Louis, MO, 2000)
30. **Juhász C**, Muzik O, Chugani DC, Chugani HT. GABA_A receptors in epileptic children: age-related changes and effect of antiepileptic drugs. *Epilepsia* 2000; 41 (suppl 7):83. (Annual Meeting of the American Epilepsy Society, Los Angeles, CA, USA, 2000)
31. Asano E, Chugani DC, **Juhász C**, Muzik O, Philip S, Shah J, Shah A, Watson C, Canady A, Chugani HT. Epileptogenic zones in tuberous sclerosis complex: subdural EEG vs. MRI and FDG PET. *Epilepsia* 2000; 41 (suppl 7):128. (Annual Meeting of the American Epilepsy Society, Los Angeles, CA, USA)
32. Lee JS, Asano E, **Juhász C**, Pfund Z, Muzik O, Chugani DC, Chugani HT. Sturge-Weber syndrome with unilateral leptomeningeal angioma: degree and extent of glucose hypometabolism are related to epileptiform pattern. *Epilepsia* 2000;41(Suppl 7):188. (Annual Meeting of the American Epilepsy Society, Los Angeles, CA, USA)
33. Pfund Z, Chugani DC, **Juhász C**, et al. Evidence for coupling between glucose metabolism and glutamate cycling using FDG PET and ¹H MRS in epilepsy patients. *Epilepsia* 2000;41(Suppl 7):67. (Annual Meeting of the American Epilepsy Society, Los Angeles, CA, USA)
34. **Juhász C**, Chugani DC, Muzik O, Shah A, Shah J, Chugani HT. Role of alpha[¹¹C]methyl-L-tryptophan PET in Localization of Epileptic Foci in Intractable Partial Epilepsy. *Neurology* 2001;56:A265. (Presented: 53rd Annual Meeting of the American Academy of Neurology, 2001, Philadelphia, USA)
35. Joshi CN, Shah A, Asano E, **Juhász C**, Canady A, Watson C, Muzik O, Chugani HT. Multimodal localization of the sensorimotor cortex in pediatric epilepsy surgery patients. *Neurology* 2001;56:A390-391. (Presented: 53rd Annual Meeting of the American Academy of Neurology, 2001, Philadelphia, USA)
36. Muzik O, Chugani DC, **Juhász C**, Chugani HT. Effect of chronic vigabatrin treatment on benzo-diazepine receptor binding in children with epilepsy.

- Epilepsia 2001;42(Suppl. 2):125. (Presented: 24th International Epilepsy Congress, Buenos Aires, Argentina, May 13-18, 2001)
37. Pfund Z, **Juhász C**, Chugani DC, Muzik O, Lee JS, Chugani HT. Sturge-Weber syndrome: quantitative magnetic resonance imaging (MRI) and fluorodeoxyglucose (FDG) positron emission tomography correlations. *Epilepsia* 2001;42(Suppl. 7):168. (Presented: Annual Meeting of the American Epilepsy Society, Philadelphia, PA, USA).
38. Chugani HT, **Juhász C**, Chugani DC, Muzik O. Increased ipsilateral striatal serotonin synthesis after frontal cortical resection in children with epilepsy. *Epilepsia* 2001;42(Suppl. 7):166.
39. **Juhász C**, Chugani DC, Muzik O, Asano E, Shah A, Shah J, Canady A, Chugani HT. Increased cortical uptake of α [¹¹C]methyl-L-tryptophan detected by positron emission tomography (PET) in children with intractable epilepsy. *Epilepsia* 2001;42(Suppl. 7):167.
40. Chandana S, Pfund Z, **Juhász C**, Muzik O, Behen M, Chugani D, Chugani H. Re-evaluation of brain glucose metabolic abnormalities in autistic boys – an FDG-PET study. *International Meeting for Autism Research (IMFAR) 2001*, San Diego. B-48, Abstract No. 20.05.
41. D'Agostino DM, Bastos A, Piras C, Bernasconi A, Grisar T, Tsur VG, Andermann E, Snipes J, **Juhász C**, Chugani HT, Guerrini R, Olivier A, Andermann F. Posterior quadrantic dysplasia: a surgical approach to a characteristic brain malformation. *Neurology* 2002;58 (Suppl 3):A52. (Presented: 54th Annual Meeting of the American Academy of Neurology, Denver, CO, USA)
42. **Juhász C**, Chugani DC, Muzik O, Shah A, Asano E, Chugani HT. Decreased GABA_A receptor binding and increased uptake of α [¹¹C]methyl-L-tryptophan on PET can independently identify human epileptogenic cortex. *Neurology* 2002;58 (Suppl 3):A150. (Presented: 54th Annual Meeting of the American Academy of Neurology, Denver, CO, USA)
43. **Juhász C**, Chugani DC, Asano E, Shah A, Shah J, Muzik O, Sood S, Chugani HT. Alpha[¹¹C]methyl-L-tryptophan positron emission tomography scanning in 176 patients with intractable epilepsy. *Ann Neurol* 2002;Suppl. 1:S118. (Presented: Annual meeting of the Child neurology Society, Washington, DC, October 2002)
44. Asano E, Muzik O, **Juhász C**, Chugani DC, Sood S, Janisse J, Ergun EL, Ahn-Ewing J, Shen C, Gotman J, Chugani HT. Quantitative interictal subdural EEG analyses in children with neocortical epilepsy. *Epilepsia* 2002;43(suppl. 7):43.
45. Chugani HT, **Juhász C**, Chugani DC, Muzik O, Shah A, Asano E, Mangner T, Chakraborty P. Surgery for intractable infantile spasms: the role of alpha[¹¹C]methyl-L-tryptophan positron emission tomography scanning. *Epilepsia* 2002;43(suppl. 7):75.

46. Kagawa K, **Juhász C**, Chugani DC, Muzik O, Chugani HT. Maximal reduction of N-acetyl aspartate in metabolic borderzone of fluorodeoxyglucose-positron emission tomography in non-lesional extratemporal lobe epilepsy. *Epilepsia* 2002;43(suppl. 7): 76.
47. **Juhász C**, Chugani DC, Muzik O, Asano E, Shah A, Sood S, Mangner T, Chakraborty P, Chugani HT. Alpha^[11C]methyl-L-tryptophan (AMT) positron emission tomography can detect residual epileptic cortex after failed cortical resection in children with intractable epilepsy. *Epilepsia* 2002;43(suppl. 7): 126-127. (Presented: Annual Meeting of the American Epilepsy Society, Seattle, WA, December 2002)
48. Chugani DC, Pfund Z, Chandana S, Behen ME, Muzik O, **Juhász C**, Lee J, Chugani HT. GABA_A receptors measured with [^{11C}]flumazenil PET in children with autism, angelman and Landau-Kleffner syndromes. International Meeting for Autism Research; Abstract book pp 90; November 2002; Orlando, FL, USA.
49. **Juhász C**, Chugani DC, Heyes M, Muzik O, Chander S, Ergun EL, Sloan A, Sood S, Shah A, Watson C, Chugani HT. Tryptophan Metabolism in Epileptogenic Brain Tumors: A PET Study Using Alpha[C-11]Methyl-L-Tryptophan (AMT). *Neurology* 2003;Suppl 1:A6-7. (Platform presentation; 55th Annual Meeting of the American Academy of Neurology; March 29 – April 5, Honolulu, HI.)
50. Asano E, Muzik O, Shah A, **Juhász C**, Chugani DC, Benedek K, Shah J, Sood S, Gotman J, Chugani HT. Quantitative ictal subdural EEG analysis in children with intractable neocortical epilepsy. *Neurology* 2003;Suppl 1:A450. (Poster presentation; 55th Annual Meeting of the American Academy of Neurology; March 29 – April 5, Honolulu, HI.)
51. Kagawa K, Asano E, **Juhász C**, Muzik O, Janisse J, Shah A, Sood S, Mangner TJ, Chakraborty PK, Chugani HT, Chugani DC. Surgical Treatment and Outcome in Children with Tuberous Sclerosis Complex and Intractable Epilepsy in Relation to a^[11C]Methyl-L-Tryptophan PET. *Neurology* 2003;Suppl 1:A448-449. (Poster presentation; 55th Annual Meeting of the American Academy of Neurology; March 29 – April 5, Honolulu, HI.)
52. Ho A, **Juhász C**, Chugani HT, Behen ME. PET Scanning of Tryptophan Metabolism in Tourette Syndrome (TS). *Neurology* 2003;Suppl 1:A211. (Poster presentation; 55th Annual Meeting of the American Academy of Neurology; March 29 – April 5, Honolulu, HI.)
53. Chugani HT, **Juhász C**, Behen M, Ondersma R, Muzik O, Chugani DC. Autism with facial port-wine stain: a new syndrome? *Ann Neurol* 2003;54 (suppl 7):S129 (Poster presentation; Annual Meeting of the Child Neurology Society, October 2003, Miami, FL)
54. Muzik O, Kagawa K, **Juhász C**, Chugani HT, Chugani DC. Pattern of GABA-A receptor distribution in children with epilepsy. *Epilepsia* 2003;44(Suppl.8):183-

184. (Poster presentation; 25th International Epilepsy Congress, Lisbon, Portugal, 12-16 October, 2003)
55. Asano E, Benedek K, Shah A, **Juhász C**, Muzik O, Chugani DC, Sood S, Chugani HT. Is intraoperative electrocorticography reliable in children with intractable neocortical epilepsy? *Epilepsia* 2003; 44 (Suppl 9):163-164. (Platform presentation; Annual Meeting of the American Epilepsy Society, Boston, MA, December 5-10, 2003)
56. **Juhász C**, Chugani DC, Muzik O, Asano E, Shah A, Shah J, Sood S, Kagawa K, Benedek K, Chugani HT. Cortical GABA_A receptor-binding abnormalities remote from the primary epileptic focus: what are their electrophysiologic and clinical significance? *Epilepsia* 2003; 44 (Suppl 9):311-312. (Poster presentation; Annual Meeting of the American Epilepsy Society, Boston, MA, December 5-10, 2003)
57. Muzik O, Pourabdollah S, **Juhász C**, Chugani DC, Draghici S, Chugani HT. Quantitative assessment of the spatial relationship between electrophysiological and functional data in the cortex of epileptic children. *J Nucl Med* 2003; 44 (5) (Suppl): 13P. (Poster presentation; Annual Meeting of the Society of Nuclear Medicine, New Orleans, LA, June 21-25, 2003)
58. Muzik O, Kagawa K, **Juhász C**, Chugani HT, Chugani DC. Non-invasive imaging of the GABA-A receptor complex in children with epilepsy using PET. *J Nucl Med* 2003; 44 (5) (Suppl): 245P. (Poster presentation; Annual Meeting of the Society of Nuclear Medicine, New Orleans, LA, June 21-25, 2003)
59. Muzik O, Pourabdollah S, **Juhász C**, Chugani DC, Draghici S, Chugani HT. Application of an objective method for localizing bilateral cortical abnormalities to guide the resection of epileptic foci. *Brain* 2003; 23 (suppl 6): S659 (Poster presentation; BrainPET '03, Calgary, Canada 29 June 29 - 3 July, 2003)
60. **Juhász C**, Chugani DC, Muzik O, Sloan A, Barger G, Watson C, Sood S, Chugani HT. PET imaging of recurrent brain tumors using alpha[C-11]methyl-L-tryptophan. *Neurology* 2004;62(Suppl 5): A470. (Poster presentation; 56th Annual Meeting of the American Academy of Neurology, San Francisco, CA, April 24 – May 1, 2004)
61. **Juhász C**, Muzik O, Chugani DC, Hu J, Chugani HT. Frontal lobe magnetic resonance spectroscopic imaging (¹H-MRSI) and FDG PET abnormalities in young children with Sturge-Weber syndrome. 10th Annual Meeting of the Organization Organization for Human Brain Mapping, Budapest, Hungary, June 13-17, 2004
62. Jagadeesan BD, Behen M, Makki M, Muzik O, **Juhász C**, Chugani DC, Chugani HT. Abnormal brain connectivity in children with early severe social deprivation: diffusion tensor imaging study. *Ann Neurol* 2004;56(suppl 8):S91. (Presented at the Annual Meeting of the Child Neurology Society, Ottawa, Canada, October, 2004)

63. Kagawa K, Chugani DC, Behen M, Chandana SR, **Juhász C**, Muzik O, Chugani HT. Altered brain growth in children with tuberous sclerosis complex and autism. *Ann Neurol* 2004;56(suppl 8):S93. (Presented at the Annual Meeting of the Child Neurology Society, Ottawa, Canada, October, 2004)
64. Chandana SR, Behen M, Rothermel R, **Juhász C**, Chugani HT, Chugani DC. Serotonergic abnormalities in caudate nucleus in autism. *Ann Neurol* 2004;56(suppl 8):S94. (Presented at the Annual Meeting of the Child Neurology Society, Ottawa, Canada, October, 2004)
65. Behen M, Solomon K, Luan Phan K, Makki M, Fitzgerald DA, Muzik O, **Juhász C**, Jagadeesan BD, Chugani DC, Chugani HT. Brain activation during emotional face recognition in children with early social deprivation. *Ann Neurol* 2004;56(suppl 8):S94. (Presented at the Annual Meeting of the Child Neurology Society, Ottawa, Canada, October, 2004)
66. Behen ME, Chandana SR, Rothermel R, Muzik O, **Juhász C**, Chugani HT, Chugani DC. Lateralized cortical serotonergic abnormalities in autistic children are associated with social subtypes. *Ann Neurol* 2004;56(suppl 8):S95. (Presented at the Annual Meeting of the Child Neurology Society, Ottawa, Canada, October, 2004)
67. **Juhász C**, Chugani DC, Muzik O, Asano E, Shah A, Shah J, Sood S, Chugani HT. Flumazenil PET in children with intractable partial epilepsy or infantile spasms: does it provide additional localizing information? *Epilepsia* 2004;45(suppl 7):366. (Platform presentation at the Annual Meeting of the American Epilepsy Society, New Orleans, LA, Dec. 3-7, 2004.)
68. Guo X, Shah J, **Juhász C**, Johnson R, Kupsky W, Watson C. Paradoxical imaging findings in lesional epilepsy. *Epilepsia* 2004;45(suppl 7):111. (Presented at the Annual Meeting of the American Epilepsy Society, New Orleans, LA, Dec. 3-7, 2004.)
69. Shah AK, Asano E, **Juhász C**, Sood S, Chugani HT. Epilepsy surgery in multifocal (multilobar) partial epilepsy. *Epilepsia* 2004;45(suppl 7):170. (Presented at the Annual Meeting of the American Epilepsy Society, New Orleans, LA, Dec. 3-7, 2004.)
70. Asano E, **Juhász C**, Shah A, Muzik O, Chugani DC, Shah J, Sood S, Chugani HT. Analysis of intracranial electrocorticography in children with epileptic spasms. *Epilepsia* 2004;45(suppl 7):249. (Presented at the Annual Meeting of the American Epilepsy Society, New Orleans, LA, Dec. 3-7, 2004.)
71. Luat AF, Asano E, **Juhász C**, Chugani HT. Relationship between brain glucose PET and EEG in children with continuous spike and wave during slow-wave sleep. *Epilepsia* 2004;45(suppl 7):273. (Presented at the Annual Meeting of the American Epilepsy Society, New Orleans, LA, Dec. 3-7, 2004.)

72. Kimiwada T, **Juhász C**, Makki M, Jagadeesan BD, Muzik O, Chugani DC, Chugani HT. Thalamic and hippocampal diffusion tensor imaging (DTI) abnormalities in children with temporal lobe epilepsy. *Epilepsia* 2004;45(suppl 7):295. (Presented at the Annual Meeting of the American Epilepsy Society, New Orleans, LA, Dec. 3-7, 2004.)
73. Eluvathingal T, **Juhász C**, Chugani DC, Kagawa K, Muzik O, Shah A, Asano E, Sood S, Chugani HT. a-[¹¹C]Methyl-L-tryptophan (AMT) PET can localize epileptogenic tubers when scalp EEG is poorly localizing in children with tuberous sclerosis. *Epilepsia* 2004;45(suppl 7):296-7. (Presented at the Annual Meeting of the American Epilepsy Society, New Orleans, LA, Dec. 3-7, 2004.)
74. **Juhász C**, Chugani DC, Muzik O, Shah A, Asano E, Sood S, Chandana S, Chugani HT. Increased white matter GABA_A receptor binding in children with intractable epilepsy. Presented at the 57th Annual Meeting of the American Academy of Neurology, April, 2005, Miami, FL.
75. **Juhász C**, Chugani HT. PET imaging of the effect of epilepsy on the child's brain. *Epilepsia* 2005;46(suppl 6): 26-27. Presented at the 26th International Epilepsy Congress, Paris, France, August 2005.
76. Watson C, Atkinson M, Shah J, **Juhász C**, Guo X, Kupsky W, Johnson R. Epilepsy and tumors: unusual imaging findings. *Epilepsia* 2005;46(suppl 6): 329. Presented at the 26th International Epilepsy Congress, Paris, France, August 2005.
77. Wakamoto H, Eluvathingal T, Makki M, Behen ME, **Juhász C**, Muzik O, Sundaram S, Chugani DC, Chugani HT. Diffusion tensor imaging of the corticospinal tract after cerebral hemispherectomy. *Ann Neurol* 2005;58 (S9): S94. Presented at the 34th Annual Meeting of the Child Neurology Society, Los Angeles, CA, September 2005.
78. Eluvathingal TJ, Behen ME, Makki M, **Juhász C**, Muzik O, Chugani DC, Chugani HT. Abnormal language network is associated with language dysfunction in children subjected to early social deprivation: a diffusion tensor imaging study. *Ann Neurol* 2005;58 (S9): S94-5. Presented at the 34th Annual Meeting of the Child Neurology Society, Los Angeles, CA, September 2005.
79. Behen ME, Eluvathingal TJ, Bernardi B, Janisse J, **Juhász C**, Muzik O, Chugani DC, Chugani HT. Cerebellar lesions in patients with tuberous sclerosis complex: neuroimaging and neurobehavioral findings. *Ann Neurol* 2005;58 (S9): S95. Presented at the 34th Annual Meeting of the Child Neurology Society, Los Angeles, CA, September 2005.
80. Karia S, **Juhász C**, Chugani HT. Bilateral Sturge-Weber syndrome: glucose metabolism PET findings and cognitive outcome. *Ann Neurol* 2005;58 (S9): S98. Presented at the 34th Annual Meeting of the Child Neurology Society, Los Angeles, CA, September 2005.

81. **Juhász C**, Chugani DC, Muzik O, Chugani HT. Patterns of abnormal brain glucose metabolism in Sturge-Weber syndrome. *J Neurol Sci* 2005;238(suppl 1):S258-9. Presented at the 18th World Congress of Neurology, 5-11 November 2005, Sydney, Australia
82. **Juhász C**, Chugani DC, Chugani HT. Longitudinal changes of brain glucose metabolism in children with Sturge-Weber syndrome and epilepsy. *Epilepsia* 2005;46 (suppl 8):50-51. (Presented at the Joint Annual Meeting of the American Epilepsy Society and American Clinical Neurophysiology Society, Washington, DC, December 2-6, 2005)
83. Asano E, **Juhász C**, Shah A, Muzik O, Chugani DC, Sood S, Chugani HT. Quantitative analysis of ictal electrocorticography in children with tuberous sclerosis complex. *Epilepsia* 2005;46 (suppl 8):313. (Presented at the Joint Annual Meeting of the American Epilepsy Society and American Clinical Neurophysiology Society, Washington, DC, December 2-6, 2005)
84. Batista CEA, **Juhász C**, Chugani HT. Glucose metabolism in contralateral cortex in children with unilateral Sturge-Weber syndrome. *Ann Neurol* 2006;60(suppl 3): S144-5. Presented the Annual Meeting of the Child Neurology Society, Pittsburgh, PA, October 2006.
85. Batista CEA, **Juhász C**, Chugani HT. Dynamic changes of cortical glucose metabolism in children with unilateral Sturge-Weber syndrome. *Ann Neurol* 2006;60(suppl 3): S145. Presented the Annual Meeting of the Child Neurology Society, Pittsburgh, PA, October 2006.
86. Behen ME, **Juhász C**, Helder E, Batista CEA, Chugani DC, Chugani HT. Cognitive function in Sturge-Weber syndrome: Effect of side and extent of severe hypometabolism on PET scanning. *Ann Neurol* 2006;60(suppl 3): S122. Presented the Annual Meeting of the Child Neurology Society, Pittsburgh, PA, October 2006.
87. Sivaswamy L, Rajamani K, Maqbool M, **Juhász C**, Makki M, Chugani HT. DTI tractography detects abnormal cortico-spinal tract in children with Sturge-Weber syndrome and no severe motor deficit. *Ann Neurol* 2006;60(suppl 3): S125-6. Presented the Annual Meeting of the Child Neurology Society, Pittsburgh, PA, October 2006.
88. Haseeb A, Asano E, Shah A, **Juhász C**, Sood S, Chugani HT. Children with focal seizures may not have the primary motor cortex for the hand in the precentral gyrus. *Ann Neurol* 2006;60(suppl 3): S137. Presented the Annual Meeting of the Child Neurology Society, Pittsburgh, PA, October 2006.
89. Sundaram S, Chugani D, Munian Govindan R, Asano E, **Juhász C**, Chakraborty P, Muzik O, Sood S, Chugani HT. Alpha-methyl-L-tryptophan positron emission tomography (AMT-PET) predicts surgical outcome in children with intractable

- neocortical epilepsy. *Ann Neurol* 2006;60(suppl 3): S137. Presented at the Annual Meeting of the Child Neurology Society, Pittsburgh, PA, October 2006.
90. **Juhász C**, Haacke EM, Hu J, Muzik O, Chugani DC, Chugani HT. Susceptibility weighted imaging (SWI) in Sturge-Weber syndrome: relation to cortical hypometabolism and seizures. Presented at the 1st North American Regional Epilepsy Congress / Annual Meeting of the American Epilepsy Society, San Diego, CA, December, 2006.
91. Batista C, **Juhász C**, Hu J, Xuan Y, Behen ME, Helder EJ, Chugani DC, Chugani HT. Magnetic resonance spectroscopic imaging of the frontal lobe in children with Sturge-Weber syndrome. Annual Meeting of the Child Neurology Society, Quebec City, Canada, October 2007
92. **Juhász C**, Brady P, Batista C, Chugani HT. Hippocampal and cortical GABA_A receptor abnormalities in children with recent onset epilepsy. Annual Meeting of the American Epilepsy Society, Philadelphia, PA, December 2007. Program No. 2.115
93. Batista CEA, Chugani DC, Kupsky WJ, **Juhász C**, Chugani HT. Kynurenine pathway and multidrug resistance in Tuberous Sclerosis Complex (TSC). 37th Annual Meeting of the Society for Neuroscience, San Diego, CA, November 3-7, 2007.
94. Asano E, Nishida M, Rothermel R, **Juhász C**, Muzik O, Sood S, Chugani HT. The primary sensory-motor lip area is activated by vocalizing sounds with “F” more than “H” in human. 37th Annual Meeting of the Society for Neuroscience, San Diego, CA, November 3-7, 2007.
95. Brown EC, Asano E, Rothermel R, Nishida M, **Juhász C**, Muzik O, Sood S, Chugani HT. In-vivo animation of auditory language evoked oscillations in children with intractable focal epilepsy. Annual Meeting of the American Epilepsy Society, Philadelphia, PA, December 2007. Program No. 2.171.
96. Asano E, Nishida M, Rothermel R, **Juhász C**, Sood S, Chugani HT. In-vivo animation of visual evoked gamma oscillations in children with intractable focal epilepsy. Annual Meeting of the American Epilepsy Society, Philadelphia, PA, December 2007. Program No. 2.170.
97. Nishida M, Asano E, **Juhász C**, Muzik O, Sood S, Chugani HT. Cortical glucose metabolism correlates negatively with delta slowing and spike frequency in epilepsy associated with tuberous sclerosis. Annual Meeting of the American Epilepsy Society, Philadelphia, PA, December 2007. Program No. 2.173.
98. Fukuda M, Asano E, Nishida M, Muzik O, **Juhász C**, Pawlak K, Schaefer KA, Sood S, Chugani HT. In-vivo animation of median somato-sensory evoked potentials (SEPs) and gamma oscillations in children with intractable focal epilepsy. Annual Meeting of the American Epilepsy Society, Philadelphia, PA, December 2007. Program No. C.08.

99. Batista CE, **Juhász C**, Kupsky WJ, Chugani HT, Barger G, Muzik O, Chugani DC. Tryptophan metabolism in brain tumors associated with epilepsy: imaging and immunohistochemistry analysis of low and high-grade tumors. Annual Meeting of the American Epilepsy Society, Philadelphia, PA, December 2007. Program No. 3.073.
100. Asano EA, Nishida M, Juhász C, Sood S, Chugani HT. Cortical glucose metabolism positively correlates with gamma-oscillations in non-lesional focal epilepsy. 6th EFNS Forum of European Neuroscience, Geneva, Switzerland, July 12-16, 2008.
101. Kumar A, Asano E, Sundaram SK, Juhász C, Makki MI, Janisse J, Chugani DC, Sood S, Chugani HT. Evaluation of the cortical origin of corticospinal tract and its location in the posterior limb of internal capsule in children. *Epilepsia* 2008; 49(suppl. 7): 407-8. Presented at the Annual Meeting of the American Epilepsy Society, Seattle, WA, December 5-9, 2008.
102. Govindan RM, **Juhász C**, Behen M, Helder E, Batista C, Chugani HT. Abnormal diffusion of specific white matter regions in children with unilateral Sturge-Weber syndrome: correlation with epilepsy and cognitive functions. *Epilepsia* 2008;49(suppl. 7): 409. Presented at the Annual Meeting of the American Epilepsy Society, Seattle, WA, December 5-9, 2008.
103. **Juhász C**, Asano E, Batista C, Sood S, Chugani HT. Cortical seizure foci and hypometabolism on PET: When do they not match well? *Epilepsia* 2008;49(suppl. 7): 416-7. Presented at the Pediatric Highlights Session at the Annual Meeting of the American Epilepsy Society, Seattle, WA, December 5-9, 2008.
104. Chugani HT, Govindan RM, **Juhász C**, Makki MI. Tract based analysis of cerebral white matter in children with recent onset epilepsy. *Epilepsia* 2008;49(suppl. 7): 484. Presented as a Platform presentation at the Annual Meeting of the American Epilepsy Society, Seattle, WA, December 5-9, 2008.
105. Fukuda M, **Juhász C**, Nishida M, Sood S, Asano E. In-vivo animation of long-latency median nerve somatosensory-induced spectral changes in humans. *Epilepsia* 2008;49(suppl. 7): 488-9. Presented as a Platform presentation at the Annual Meeting of the American Epilepsy Society, Seattle, WA, December 5-9, 2008.
106. Batista C, Kupsky W, Chugani D, Chugani HT, **Juhász C**. Endothelial cell proliferation and angiogenesis in Sturge-Weber syndrome. *Ann Neurol* 2008;64(suppl12):119-120. Presented at the 37th Annual Meeting of the Child Neurology Society, November 5-8, 2008, Santa Clara, CA.
107. Bahl G, **Juhász C**, Chugani HT. Positron emission tomography imaging in MRI negative epilepsy. Presented as a teaching exhibit at the Annual Meeting of the American Roentgen Ray Society, Boston, MA, April 29 – May 1, 2009.

INVITED LECTURES

International and national meetings

1. **Juhász C**, Szirmai I. Changes of spectral EEG parameters in tick-borne encephalitis. *Neurologia Croatica* 1995; 44(Suppl 1): 8-9. Presented at the *Southeastern European Neuropsychiatric Meeting*, Pula, Croatia, June 1995.
2. **Juhász C**. PET in epilepsy. *6th Etnean Epilepsy Workshop*. Linguaglossa, Italy, June 2000.
3. **Juhász C**. PET agents and techniques in mapping the epileptogenic zone for intracranial EEG correlation. *8th International Conference on Functional Mapping of the Human Brain*. Sendai, Japan, June 6, 2002.
4. **Juhász C**. Mapping the epileptic circuit with PET. *9th International Seoul Epilepsy Conference*. Seoul National University, Seoul, South Korea, February 22, 2003.
5. **Juhász C**. Use of multiple PET tracers during presurgical evaluation of epilepsy. *9th International Seoul Epilepsy Conference*. Seoul National University, Seoul, South Korea, February 22, 2003.
6. **Juhász C**. Positron emission tomography: applications in pediatric epilepsy. Yonsei University, Seoul, South Korea, February 24, 2003.
7. **Juhász C**. NIH grant research in Sturge-Weber syndrome. *International Sturge-Weber Conference*. Denver, CO, July 11-13, 2003.
8. **Juhász C**. Flumazenil PET in the presurgical evaluation of children with intractable epilepsy. Investigators Workshop. *Annual Meeting of the American Epilepsy Society*, New Orleans, LA, Dec. 3-7, 2004.
9. **Juhász C**. Use of PET in drug resistant epilepsies. *Symposium: PET in the clinical diagnosis*. Budapest, Hungary, June 2005.
10. **Juhász C**. Update on Sturge-Weber syndrome research. *International Sturge-Weber Conference*, Harrisburg, PA, July 2005.
11. **Juhász C**. AMT PET in epilepsy. *Satellite symposium: The new and very new PET tracers in epilepsy*. *26th International Epilepsy Congress*, Orsay, France, August 27, 2005.
12. **Juhász C**. PET imaging of the effect of epilepsy on the child's brain. Parallel Session: Imaging epilepsy in the developing brain. *26th International Epilepsy Congress*, Paris, France, August 2005.
13. **Juhász C**. Alpha-[¹¹C]-methyl-L-tryptophan PET in epilepsy. *Serotonin, depression, and epilepsy. Investigator's Workshop* (chair W. Theodore). Joint Annual Meeting of the American Epilepsy Society and American Clinical Neurophysiology Society, Washington, DC, December 4, 2005
14. **Juhász C**. PET scanning for presurgical evaluation for reoperation after failed epilepsy surgery. *Reoperation after failed epilepsy surgery: what type of imaging? Special Interest Group*. Joint Annual Meeting of the American Epilepsy Society and American Clinical Neurophysiology Society, Washington, DC, December 4, 2005

15. **Juhász C**, Chugani HT. Functional neuroimaging in Sturge-Weber syndrome. *Vascular Anomalies 2007 – Update in Research & Controversies in Clinical management*. New York, April 27-28, 2007.
16. **Juhász C**. Multimodal imaging of epileptic foci and networks. *Annual Meeting of the Korean Epilepsy Society*, Seoul, Korea, June 7-9, 2007.
17. **Juhász C**. Receptor PET scanning in intractable epilepsy: beyond FDG PET. *Annual Meeting of the Korean Epilepsy Society*, Seoul, Korea, June 7-9, 2007.
18. **Juhász C**. Evidence-based PET imaging in pediatric epilepsy. *World Congress of Epilepsy*, Singapore, July, 2007.
19. **Juhász C**. PET in MRI-negative epilepsy. VIREPA E-learning Introductory session. *World Congress of Epilepsy*, Singapore, July, 2007.
20. **Juhász C**. Neuroimaging in Sturge-Weber syndrome. *National Sturge-Weber Family Conference*. Anaheim, CA, July 14, 2007.
21. **Juhász C**. Advanced multimodality imaging in the evaluation of intractable epilepsies. *Latin American Summer School of Epilepsy (LASSE)*, Sao Paulo, Brazil, February 15, 2008.
22. **Juhász C**. Multimodality imaging techniques in detecting progression and recovery of structural and functional abnormalities in Sturge-Weber syndrome and other epilepsy syndromes. *Higher Education Program “Advanced Topics in Neurology” Course*; University of Sao Paulo, Faculty of Medicine at Ribeirao Preto, Brazil, February 18, 2008.
23. **Juhász C**. Intracranial EEG correlates of functional imaging abnormalities in intractable epilepsy. *Higher Education Program “Advanced Topics in Neurology” Course*; University of Sao Paulo, Faculty of Medicine at Ribeirao Preto, Brazil, February 19, 2008.
24. **Juhász C**. PET scanning of GABA receptors in epilepsy: When is it useful? *Higher Education Program “Advanced Topics in Neurology” Course*; University of Sao Paulo, Faculty of Medicine at Ribeirao Preto, Brazil, February 20, 2008.
25. **Juhász C**. Neuroimaging of the cerebrovascular disorders. The 6th EPNS Training Course on Acute and Surgical Neurology, and Cerebrovascular Disorders. Warsaw, Poland, May 14, 2008.
26. **Juhász C**, Chugani HT. Sturge-Weber syndrome. The 6th EPNS Training Course on Acute and Surgical Neurology, and Cerebrovascular Disorders. Warsaw, Poland, May 14, 2008.
27. **Juhász C**, Chugani HT. Sturge-Weber syndrome: new mechanistic insights from multimodal imaging studies. International Conference on the Diagnosis and Therapy in Pediatric Neurology. Warsaw, Poland, May 15, 2008.
28. **Juhász C**. Neuroimaging localization of focal epileptogenic pathology in “generalized” epilepsies. 28th International Epilepsy Congress, Budapest, Hungary, July 2, 2009.

Invited lectures at regional meetings

1. **Juhász C.** Role of neuroimaging in epilepsy: in autism and other syndromes. *Update on epilepsy in adults with developmental disabilities (Annual symposium)*. New York Medical College, Valhalla, NY. March 30, 2005.

Other invited lectures

1. **Juhász C.** PET scanning of the epileptic brain. Grand Rounds, Department of Neurology, University of Texas at San Antonio, Health Science Center, San Antonio, TX. January 20, 2005.
2. **Juhász C.** Use of multiple PET tracers for imaging epilepsy. Clinical Applications. Department of Neurology, University of Texas at San Antonio, Health Science Center, San Antonio, TX. January 20, 2005.
3. **Juhász C.** Multimodal imaging of epileptic networks. Neurology Postgraduate Seminar series, Medical School, University of Pecs, Hungary. November 2006.
4. **Juhász C.** Neuroimaging in pediatric epilepsies and associated disorders. Pediatrics Grand Rounds, St. Johns Hospital and Medical Center, Detroit, MI. March 6, 2007.
5. **Juhász C.** PET imaging of tryptophan metabolism in human cancers. Karmanos Cancer Institute, Detroit, MI. October 22, 2008.