

Stanford



Fiona Baumer

Instructor, Neurology & Neurological Sciences

CLINICAL OFFICES

- **Child Neurology**

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Bio

CLINICAL FOCUS

- Neurology - Child Neurology
- Pediatric Epilepsy

ACADEMIC APPOINTMENTS

- Instructor, Neurology & Neurological Sciences
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Residency: Boston Children's Hospital Training Verifications (2015) MA
- Residency: Boston Children's Hospital Training Verifications (2012) MA
- Board Certification: Epilepsy, American Board of Psychiatry and Neurology (2016)
- Fellowship: Lucile Packard Children's Hospital (2016) CA
- Board Certification: Neurology - Child Neurology, American Board of Psychiatry and Neurology (2015)
- Medical Education: Harvard Medical School (2010) MA

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am researching the neurobiology underlying cognitive problems in pediatric epilepsy. I am using transcranial magnetic stimulation paired with EMG and EEG to study cortical excitability and plasticity in children with benign epilepsy with centrotemporal spikes (BECTS or Rolandic Epilepsy). I am investigating whether changes in plasticity affect a child's ability to learn.

Publications

PUBLICATIONS

- **Growing identification of genetic aetiologies for neonatal-onset epilepsies: lessons from the Neonatal Seizure Registry.** *Acta paediatrica (Oslo, Norway : 1992)*
Sandoval Karamian, A. G., Baumer, F. M.
2018
- **Clinical and electrographic features of sunflower syndrome.** *Epilepsy research*
Baumer, F. M., Porter, B. E.
2018; 142: 58–63
- **Refractory focal epilepsy in a paediatric patient with primary familial brain calcification.** *Seizure*
Knowles, J. K., Santoro, J. D., Porter, B. E., Baumer, F. M.
2018; 56: 50–52
- **Language Dysfunction in Pediatric Epilepsy.** *The Journal of pediatrics*
Baumer, F. M., Cardon, A. L., Porter, B. E.
2018; 194: 13–21
- **Systemic Manifestations in Pyridox(am)ine Phosphate Oxidase (PNPO) Deficiency** *Pediatric Neurology*
Guerriero, R. M., Patel, A. A., Walsh, B., Baumer, F. M., Shah, A. S., Peters, J. M., Rodan, L. H., Agrawal, P. B., Pearl, P. L., Takeoka, M.
2017
- **Corpus Callosum White Matter Diffusivity Reflects Cumulative Neurological Comorbidity in Tuberous Sclerosis Complex.** *Cerebral Cortex*
Baumer, F. M., Peters, J. M., Clancy, S., Prohl, A. K., Prabhu, S. P., Scherrer, B., Jansen, F. E., Braun, K. P., Sahin, M., Stamm, A., Warfield, S. K.
2017: 3665–72
- **Quinidine-associated skin discoloration in KCNT1-associated pediatric epilepsy.** *Neurology*
Baumer, F. M., Sheehan, M.
2017; 89 (21): 2212
- **Diagnosis of adenylosuccinate lyase deficiency by metabolomic profiling in plasma reveals a phenotypic spectrum.** *Molecular genetics and metabolism reports*
Donti, T. R., Cappuccio, G., Hubert, L., Neira, J., Atwal, P. S., Miller, M. J., Cardon, A. L., Sutton, V. R., Porter, B. E., Baumer, F. M., Wangler, M. F., Sun, Q., Emrick, et al
2016; 8: 61-66
- **A 10-Month-Old With Intermittent Hypotonia and Paralysis** *PEDIATRICS*
Beinvogl, B. C., Rosman, N. P., Baumer, F. M., Rodan, L. H., Forster, C. S., Kwon, A. H., Berry, G. T.
2016; 138 (1)
- **Fatal Central Nervous System Disease Following First Infliximab Infusion in a Child With Inflammatory Bowel Disease** *PEDIATRIC NEUROLOGY*
Baumer, F. M., Ouahed, J., Verhave, M., Rivkin, M. J.
2016; 57: 91-94
- **SCN2A-Related Early-Onset Epileptic Encephalopathy Responsive to Phenobarbital.** *Journal of pediatric epilepsy*
Baumer, F. M., Peters, J. M., El Achkar, C. M., Pearl, P. L.
2016; 5 (1): 42-46
- **Longitudinal Changes in Diffusion Properties in White Matter Pathways of Children With Tuberous Sclerosis Complex** *PEDIATRIC NEUROLOGY*
Baumer, F. M., Song, J. W., Mitchell, P. D., Pienaar, R., Sahin, M., Grant, P. E., Takahashi, E.
2015; 52 (6): 615-623
- **Teaching Video NeuroImages: Nonepileptic myoclonus in a neonate following severe hypoxic-ischemic injury** *NEUROLOGY*
Walsh, B. H., Baumer, F. M., Bernson-Leung, M. E., Lerou, P., Peters, J. M.
2015; 84 (12): E90-E90
- **Neuromyelitis Optica in an Adolescent After Bone Marrow Transplantation** *PEDIATRIC NEUROLOGY*

Baumer, F. M., Kamihara, J., Gorman, M. P.

2015; 52 (1): 119-124

- **Normative Apparent Diffusion Coefficient Values in the Developing Fetal Brain** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Schneider, M. M., Berman, J. I., Baumer, F. M., Glass, H. C., Jeng, S., Jeremy, R. J., Esch, M., Biran, V., Barkovich, A. J., Studholme, C., Xu, D., Glenn, O. A.
2009; 30 (9): 1799-1803
- **Fast 3D H-1 MRSI of the Corticospinal Tract in Pediatric Brain** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Kim, D., Gu, M., Cunningham, C., Chen, A., Baumer, F., Glenn, O. A., Vigneron, D. B., Spielman, D. M., Barkovich, A. J.
2009; 29 (1): 1-6
- **A pilot study of antidepressant-induced mania in pediatric bipolar disorder: Characteristics, risk factors, and the serotonin transporter gene** *Conference on Pediatric Bipolar Disorder*
Baumer, F. M., Howe, M., Gallelli, K., Simeonova, D. L., Hallmayer, J., Chang, K. D.
ELSEVIER SCIENCE INC.2006: 1005-12
- **A pilot study of antidepressant-induced mania in pediatric bipolar disorder: Characteristics, risk factors, and the serotonin transporter gene.** *Biological Psychiatry*
Baumer, F. M., Howe, M., Gallelli, K., Simeonova, D. I., Hallmayer, J., Chang, K. D.
2006; 60 (9): 1005-12
- **Mercaptoacetate induces feeding through central opioid-mediated mechanisms in rats** *BRAIN RESEARCH*
Stein, J. A., Znamensky, V., Baumer, F., Rossi, G. C., Pasternak, G. W., Bodnar, R. J.
2000; 864 (2): 240-251