

Division Photo



First Row: Hope O'Brien, Jing Xiang, Milena Korostenskaja, Donald Gilbert, Ton deGrauw, Douglas Rose, Anna Byars; Second Row: Todd Arthur, Steve Wu, Darcy Krueger, Paul Horn, Michael Williams, David Franz, Cameron Thomas, Charles Vorhees, Andrew Hershey, Tracy Glauser, Michael Miles, Jennifer Vannest

Division Data Summary

Research and Training Details

Number of Faculty	29
Number of Research Fellows	6
Number of Research Students	6
Number of Support Personnel	125
Direct Annual Grant Support	\$1,537,005
Direct Annual Industry Support	\$1,084,117
Peer Reviewed Publications	5

Clinical Activities and Training

Number of Clinical Staff	1
Number of Clinical Fellows	1
Number of Clinical Students	4
Number of Other Students	15
Inpatient Encounters	1685
Outpatient Encounters	21,244

Significant Publications

Andrew D Hershey, Current approaches to the diagnosis and management of paediatric migraine, Lancet Neurol 2010; 9: 190-204

This is an invited review of pediatric migraine, based upon excellent migraine research at Cincinnati Children's.

Corticosteroid effects on blood gene expression in Duchenne muscular dystrophy. Lit L, Sharp FR, Apperson M, Liu DZ, Walker WL, Liao I, Xu H, Ander BP, Wong, B. Pharmacogenics J. 2009 Dec;9(6):411-8. Epub 2009 Jun 2.

This study shows the ongoing interest in transcriptomics/genomics in the search for biomarkers of disease and the effects of treatments.

Ethosuximide, valproic acid, and lamotrigine in childhood absence epilepsy. Glauser TA, Cnaan A, Shinnar S, Hirtz DG, Dlugos, D, Masur D, Clark PO, Capparelli EV, Adamson PC; Childhood Absence Epilepsy Study Group. *N Engl J Med.* 2010 Mar 4;362(9):790-9.

This is a landmark study to compare 3 AED's that have been used in absence epilepsy for some time. It is a model for future clinical pharmacology studies.

Xiang J, Liu, Y, Wang YY, Kotecha R, Kirtman EG, Huo XL, Fujiwara H, Hemasilpin, N, deGrauw T, Rose D. (2009) Neuromagnetic Correlates of Developmental Changes in Endogenous High-frequency Brain Oscillations in Children: A Wavelet-based Beamformer Study. *Brain Research* 1274:28-39.

This paper is part of an ongoing study towards high frequency brain oscillations during brain development. This will be the basis for studies in pediatric brain disorders.

Schaefer, T.L.; Vorhees, C.V., and Williams, M.T. (2009). Mouse Pet-1 knock-out induced 5-HT disruption results in a lack of cognitive deficits and an anxiety phenotype complicated by hypoactivity and defensiveness. *Neuroscience*, 164, 1431-1443.)

This study shows that mice lacking the Pet1 gene do not develop 80% of their serotonergic neurons; we showed that these mice that are abnormally inactive and hyper-reactive to sound but surprisingly have no learning and memory impairments.

Faculty Members

Antonius DeGrauw, MD, PhD, Professor ; *Director Neurology Division*

Research Interests: Neurodevelopment, mitochondrial disorders

Todd Arthur, MD, Assistant Professor Clinical

Research Interests: Brain concussion

Anna W Byars, PhD, Associate Professor Clinical

Research Interests: Cognitive effects of epilepsy

James Collins, MD, PhD, Assistant Professor Clinical

Research Interests: Congenital Muscular Dystrophy; Neuromuscular Disease

David Franz, MD, Professor Clinical ; *Director Tuberous Sclerosis program*

Research Interests: Tuberous sclerosis

Donald Gilbert, MD, Associate Professor Clinical ; *Director Movement Disorders program*

Research Interests: Tourette syndrome, Transcranial Magnetic Stimulation (TMS)

Tracy A Glauser, MD, Professor Clinical ; *Director Comprehensive Epilepsy program*

Research Interests: Epilepsy, pharmacology

Barbara Hallinan, MD, Assistant Professor Clinical

Research Interests: CSF steroid profiles

Andrew Hershey, MD, Professor Clinical ; *Director Headache Center*

Research Interests: Migraine, blood genomics

Katherine Holland-Bouley, MD, PhD, Assistant Professor Clinical

Research Interests: Ion channels and epilepsy

Sarah Hopkins, MD, Assistant Professor Clinical

Research Interests: White Matter Disease; Multiple Sclerosis

Sejal Jain, MD, Assistant Professor Clinical

Research Interests: Epilepsy, sleep

Marielle A Kabbouche, MD, Assistant Professor Clinical

Research Interests: Migraine

Darcy Krueger, MD, Assistant Professor Clinical

Research Interests: Tuberous Sclerosis

Ki Lee, MD, Associate Professor Clinical ; *Director EEG lab, EMU*

Research Interests: Epilepsy surgery

Cindy Molloy, MD, Assistant Professor Clinical

Research Interests: Autism

Diego Morita, MD, Assistant Professor Clinical
Research Interests: Epilepsy, pharmacology

Hope O'Brien, MD, Assistant Professor Clinical
Research Interests: Headaches

Douglas Rose, MD, Professor Clinical ; *Director MEG lab*
Research Interests: Magneto-Encephalography (MEG)

Mark Schapiro, MD, Professor Clinical ; *Director Neurology Residency program*
Research Interests: Neurodevelopmental disorders

Mary Sutton, MD, Assistant Professor Clinical
Research Interests: Neuro-oncology

Shannon Standridge, DO, Assistant Professor Clinical
Research Interests: Outcomes study, epilepsy

Jennifer Vannest, PhD, Research Assistant Professor
Research Interests: Speech and language development

Charles Vorhees, PhD, Professor ; *Director Animal Neurobehavior Core*
Research Interests: Drugs/toxicants and brain development

Kristen Wesselkamper, MD, Assistant Professor Clinical
Research Interests: Improvement science

Michael Williams, PhD, Research Associate Professor
Research Interests: Drugs/toxicants and brain development

Brenda Wong, MD, Associate Professor Clinical ; *Director Neuromuscular program*
Research Interests: Duchenne's Muscular Dystrophy, Spinal Muscular Atrophy

Steve Wu, MD, Assistant Professor Clinical
Research Interests: Movement Disorder; Transcranial Magnetic Stimulation (TMS)

Jing Xiang, MD, PhD, Research Associate Professor ; *Director MEG Research program*
Research Interests: MEG

Clinical Staff Members

- Irina Rybalsky, MD

Trainees

- Alice Lawrence, MD, PGYV, Milton S. Hershey Medical Center
- Cameron Thomas, MD, PGYV, University of Colorado
- Shawn Aylward, MD, PGYV, Southern Illinois University
- Keith Ridel, MD, PGYV, University of Cincinnati
- Jan-Mendelt Tillema, MD, PGYIV, St. Radboud University Nijmegen, The Netherlands
- Laura Lehman, MD, PGYIV, University of Cincinnati
- Jeffrey Tenney, MD, PGYIV, University of Massachusetts Medical School
- Jamie Fountain, MD, PGYIV, Albany Medical College
- Holly Hoenes, MD, PGYIII, Mercer University
- Andrea Pardo, MD, PGYIII, Universidad del Rosario
- John Pugh, MD, PGYIII, Boston University
- Tanishia Williams, MD, PGYIII, University of Medicine & Dentistry of New Jersey

Significant Accomplishments

Research in Childhood Absence Epilepsy

Tracy Glauser, MD, earned a Cincinnati Children's Faculty Award for a series of accomplishments in epilepsy research. The *New England Journal of Medicine* published the preliminary findings from the landmark Childhood Absence Epilepsy (CAE) study, for which he is the primary investigator. This 32-center, 453-patient double-blind, randomized comparative trial is the second of its kind for pediatric epilepsy studies in 65 years.

In March, Glauser and his team received an \$11.7 million grant to study long-term outcomes for children in the CAE study. The new study began in July 2010.

Glauser also co-authored an article on the International League Against Epilepsy (ILAE) reclassification of seizures and epilepsy. The article details the first new reclassification for seizures and epilepsy in more than 20 years.

Transcranial Magnetic Stimulation (TMS) Laboratory

Led by Donald Gilbert, MD, MS, and Steve Wu, MD, the TMS lab is exploring research in neurological function. They study motor cortex physiology in Tourette syndrome and ADHD and are co-investigators in a two-site, five-year NIH study assessing motor cortex and motor function in ADHD. Wu also received a grant this spring from the Tourette Syndrome Association for a one-year study of neuroplasticity and long-term potentiation in Tourette syndrome.

Jerzy Szaflarsky, MD, PhD, and Jennifer Vannest, PhD, are using the latest neuronavigation equipment to study aphasia in stroke. Our team is involved in additional studies that use TMS to quantify long-term potentiation (LTP) and depression (LTD) in humans.

Tuberous Sclerosis Complex Center

The Tuberous Sclerosis Complex (TSC) Center at Cincinnati Children's launched a 25-center clinical trial to determine if RAD001 is an effective treatment for sub-ependymal giant astrocytomas (SEGAs) in patients with TSC. Center director David Franz, MD, is primary investigator. Along with studying RAD001's efficacy on SEGAs, the study will investigate the drug's effects on renal function and the frequency of epileptic seizures.

Division Publications

1. Harris E, Wu S. **Children with tic disorders: How to match treatment with symptoms.** *Curr Psychiatr.* 2010; 9: 29-36.
2. O'Brien H, Kabbouche M, Hershey A. [Treatment of Acute Migraine in the Pediatric Population](#). *Current Treatment Options in Neurology.* 2010; 12: 178-185.
3. Singer HS, Mink JW, Gilbert DL, Jankovic J. (2010) **Movement Disorders in Children: Expert Consult - Online and Print.** Philadelphia, PA, Saunders.
4. Wu S, Gilbert DL. (2010) **Gilles de la Tourette Syndrome.** Conn's Current Therapy 2010. Philadelphia, Saunders.
5. Baum KT, Byars AW, deGrauw TJ, Dunn DW, Bates JE, Howe SR, Chiu CY, Austin JK. [The effect of temperament and neuropsychological functioning on behavior problems in children with new-onset seizures](#). *Epilepsy Behav.* 2010; 17: 467-73.
6. Berg AT, Berkovic SF, Brodie MJ, Buchhalter J, Cross JH, van Emde Boas W, Engel J, French J, Glauser TA, Mathern GW, Moshe SL, Nordli D, Plouin P, Scheffer IE. [Revised terminology and concepts for organization of seizures and epilepsies: report of the ILAE Commission on Classification and Terminology, 2005-2009](#). *Epilepsia.* 2010; 51: 676-85.
7. Ridel KR, Lipps TD, Gilbert DL. [The prevalence of neuropsychiatric disorders in Sydenham's chorea](#). *Pediatr Neurol.* 2010; 42: 243-8.
8. Yang Z, Funke BH, Cripe LH, Vick GW, 3rd, Mancini-Dinardo D, Pena LS, Kanter RJ, Wong B, Westerfield BH, Varela JJ, Fan Y, Towbin JA, Vatta M. [LAMP2 microdeletions in patients with Danon disease](#). *Circ Cardiovasc Genet.* 2010; 3: 129-37.
9. Tenney JR, Schapiro MB. [Child neurology: alternating hemiplegia of childhood](#). *Neurology.* 2010; 74: e57-9.
10. Hershey AD. [Current approaches to the diagnosis and management of paediatric migraine](#). *Lancet Neurol.* 2010; 9: 190-204.
11. Sankar R, Glauser TA. [Understanding therapeutic equivalence in epilepsy](#). *CNS Spectr.* 2010; 15: 112-23.
12. Sun Y, Ran H, Zamzow M, Kitatani K, Skelton MR, Williams MT, Vorhees CV, Witte DP, Hannun YA, Grabowski GA. [Specific saposin C deficiency: CNS impairment and acid beta-glucosidase effects in the mouse](#). *Hum Mol Genet.* 2010; 19: 634-47.
13. Xiang J, Wang Y, Chen Y, Liu Y, Kotecha R, Huo X, Rose DF, Fujiwara H, Hemasilpin N, Lee K, Mangano FT, Jones B, DeGrauw T. [Noninvasive localization of epileptogenic zones with ictal high-frequency neuromagnetic signals](#). *J Neurosurg Pediatr.* 2010; 5: 113-22.
14. Grace CE, Schaefer TL, Graham DL, Skelton MR, Williams MT, Vorhees CV. [Effects of inhibiting neonatal methamphetamine-induced corticosterone release in rats by adrenal autotransplantation on later learning, memory, and plasma corticosterone levels](#). *Int J Dev Neurosci.* 2010; 28: 331-42.
15. Hershey AD. [Recent developments in pediatric headache](#). *Curr Opin Neurol.* 2010; 23: 249-53.

16. Hopkins SE, Somoza A, Gilbert DL. [Rare autosomal dominant POLG1 mutation in a family with metabolic strokes, posterior column spinal degeneration, and multi-endocrine disease](#). *J Child Neurol*. 2010; 25: 752-6.
17. Kabbouche MA, Cleves C. [Evaluation and management of children and adolescents presenting with an acute setting](#). *Semin Pediatr Neurol*. 2010; 17: 105-8.
18. Kim HK, Laor T, Horn PS, Racadio JM, Wong B, Dardzinski BJ. [T2 mapping in Duchenne muscular dystrophy: distribution of disease activity and correlation with clinical assessments](#). *Radiology*. 2010; 255: 899-908.
19. Bloom MS, Houston AS, Mills JL, Molloy CA, Hediger ML. [Finger bone immaturity and 2D:4D ratio measurement error in the assessment of the hyperandrogenic hypothesis for the etiology of autism spectrum disorders](#). *Physiol Behav*. 2010; 100: 221-4.
20. Arzimanoglou A, Ben-Menachem E, Cramer J, Glauser T, Seeruthun R, Harrison M. [The evolution of antiepileptic drug development and regulation](#). *Epileptic Disord*. 2010; 12: 3-15.
21. Collins J, Bonnemann CG. [Congenital muscular dystrophies: toward molecular therapeutic interventions](#). *Curr Neurol Neurosci Rep*. 2010; 10: 83-91.
22. Henderson RC, Berglund LM, May R, Zemel BS, Grossberg RI, Johnson J, Plotkin H, Stevenson RD, Szalay E, Wong B, Kecskemethy HH, Harcke HT. [The relationship between fractures and DXA measures of BMD in the distal femur of children and adolescents with cerebral palsy or muscular dystrophy](#). *J Bone Miner Res*. 2010; 25: 520-6.
23. Holland KD, Monahan S, Morita D, Vartzelis G, Glauser TA. [Valproate in children with newly diagnosed idiopathic generalized epilepsy](#). *Acta Neurol Scand*. 2010; 121: 149-53.
24. Leen WG, Klepper J, Verbeek MM, Leferink M, Hofste T, van Engelen BG, Wevers RA, Arthur T, Bahi-Buisson N, Ballhausen D, Bekhof J, van Bogaert P, Carrilho I, Chabrol B, Champion MP, Coldwell J, Clayton P, Donner E, Evangelidou A, Ebinger F, Farrell K, Forsyth RJ, de Goede CG, Gross S, Grunewald S, Holthausen H, Jayawant S, Lachlan K, Laugel V, Leppig K, Lim MJ, Mancini G, Marina AD, Martorell L, McMenamin J, Meuwissen ME, Mundy H, Nilsson NO, Panzer A, Poll-The BT, Rauscher C, Rouselle CM, Sandvig I, Scheffner T, Sheridan E, Simpson N, Sykora P, Tomlinson R, Trounce J, Webb D, Weschke B, Scheffer H, Willemsen MA. [Glucose transporter-1 deficiency syndrome: the expanding clinical and genetic spectrum of a treatable disorder](#). *Brain*. 2010; 133: 655-70.
25. Standridge SM, Holland KD, Horn PS. [Cardiac arrhythmias and ictal events within an epilepsy monitoring unit](#). *Pediatr Neurol*. 2010; 42: 201-5.
26. Glauser TA, Cnaan A, Shinnar S, Hirtz DG, Dlugos D, Masur D, Clark PO, Capparelli EV, Adamson PC. [Ethosuximide, valproic acid, and lamotrigine in childhood absence epilepsy](#). *N Engl J Med*. 2010; 362: 790-9.
27. Sun Y, Liou B, Ran H, Skelton MR, Williams MT, Vorhees CV, Kitatani K, Hannun YA, Witte DP, Xu YH, Grabowski GA. [Neuronopathic Gaucher disease in the mouse: viable combined selective saposin C deficiency and mutant glucocerebrosidase \(V394L\) mice with glucosylsphingosine and glucosylceramide accumulation and progressive neurological deficits](#). *Hum Mol Genet*. 2010; 19: 1088-97.
28. Graham DL, Herring NR, Schaefer TL, Vorhees CV, Williams MT. [Glucose and corticosterone changes in developing and adult rats following exposure to \(+/-\)-3,4-methylenedioxymethamphetamine or 5-methoxydiisopropyltryptamine](#). *Neurotoxicol Teratol*. 2010; 32: 152-7.
29. Modi AC, Monahan S, Daniels D, Glauser TA. [Development and validation of the Pediatric Epilepsy Medication Self-Management Questionnaire](#). *Epilepsy Behav*. 2010; :
30. Wang X, Xiang J, Wang Y, Pardos M, Meng L, Huo X, Korostenskaja M, Powers SW, Kabbouche MA, Hershey AD. [Identification of Abnormal Neuromagnetic Signatures in the Motor Cortex of Adolescent Migraine](#). *Headache*. 2010; :
31. Karunanayaka P, Schmithorst VJ, Vannest J, Szaflarski JP, Plante E, Holland SK. [A group independent component analysis of covert verb generation in children: a functional magnetic resonance imaging study](#). *Neuroimage*. 2010; 51: 472-87.
32. Ercan-Sencicek AG, Stillman AA, Ghosh AK, Bilguvar K, O'Roak BJ, Mason CE, Abbott T, Gupta A, King RA, Pauls DL, Tischfield JA, Heiman GA, Singer HS, Gilbert DL, Hoekstra PJ, Morgan TM, Loring E, Yasuno K, Fernandez T, Sanders S, Louvi A, Cho JH, Mane S, Colangelo CM, Biederer T, Lifton RP, Gunel M, State MW. [L-histidine decarboxylase and Tourette's syndrome](#). *N Engl J Med*. 2010; 362: 1901-8.
33. Grace CE, Schaefer TL, Gudelsky GA, Williams MT, Vorhees CV. [Neonatal methamphetamine-induced corticosterone release in rats is inhibited by adrenal autotransplantation without altering the effect of the drug on hippocampal serotonin](#). *Neurotoxicol Teratol*. 2010; 32: 356-61.
34. Grace CE, Schaefer TL, Herring NR, Graham DL, Skelton MR, Gudelsky GA, Williams MT, Vorhees CV. [Effect of a neurotoxic dose regimen of \(+\)-methamphetamine on behavior, plasma corticosterone, and brain monoamines in adult C57BL/6 mice](#). *Neurotoxicol Teratol*. 2010; 32: 346-55.

35. Kim HK, Laor T, Horn PS, Wong B. [Quantitative assessment of the T2 relaxation time of the gluteus muscles in children with Duchenne muscular dystrophy: a comparative study before and after steroid treatment](#). *Korean J Radiol.* 2010; 11: 304-11.
36. Clarke RA, Fang ZM, Diwan AD, Gilbert DL. [Tourette syndrome and klippel-feil anomaly in a child with chromosome 22q11 duplication](#). *Case Report Med.* 2009; 2009: 361518.
37. Korostenskaja M, Kahkonen S. [What do ERPs and ERFs reveal about the effect of antipsychotic treatment on cognition in schizophrenia?](#). *Curr Pharm Des.* 2009; 15: 2573-93.
38. Charles JA, Peterlin BL, Rapoport AM, Linder SL, Kabbouche MA, Sheftell FD. [Favorable outcome of early treatment of new onset child and adolescent migraine-implications for disease modification](#). *J Headache Pain.* 2009; 10: 227-33.
39. Prows CA, Nick TG, Saldana SN, Pathak S, Liu C, Zhang K, Daniels ZS, Vinks AA, Glauser TA. [Drug-metabolizing enzyme genotypes and aggressive behavior treatment response in hospitalized pediatric psychiatric patients](#). *J Child Adolesc Psychopharmacol.* 2009; 19: 385-94.
40. Fastenau PS, Johnson CS, Perkins SM, Byars AW, deGrauw TJ, Austin JK, Dunn DW. [Neuropsychological status at seizure onset in children: risk factors for early cognitive deficits](#). *Neurology.* 2009; 73: 526-34.
41. Flanigan KM, Dunn DM, von Niederhausern A, Soltanzadeh P, Gappmaier E, Howard MT, Sampson JB, Mendell JR, Wall C, King WM, Pestronk A, Florence JM, Connolly AM, Mathews KD, Stephan CM, Laubenthal KS, Wong BL, Morehart PJ, Meyer A, Finkel RS, Bonnemann CG, Medne L, Day JW, Dalton JC, Margolis MK, Hinton VJ, Weiss RB. [Mutational spectrum of DMD mutations in dystrophinopathy patients: application of modern diagnostic techniques to a large cohort](#). *Hum Mutat.* 2009; 30: 1657-66.
42. Lit L, Sharp FR, Apperson M, Liu DZ, Walker WL, Liao I, Xu H, Ander BP, Wong B. [Corticosteroid effects on blood gene expression in Duchenne muscular dystrophy](#). *Pharmacogenomics J.* 2009; 9: 411-8.
43. Schaefer TL, Vorhees CV, Williams MT. [Mouse plasmacytoma-expressed transcript 1 knock out induced 5-HT disruption results in a lack of cognitive deficits and an anxiety phenotype complicated by hypoactivity and defensiveness](#). *Neuroscience.* 2009; 164: 1431-43.
44. Martino D, Dale RC, Gilbert DL, Giovannoni G, Leckman JF. [Immunopathogenic mechanisms in tourette syndrome: A critical review](#). *Mov Disord.* 2009; 24: 1267-79.
45. Gilbert DL. [Acute and chronic chorea in childhood](#). *Semin Pediatr Neurol.* 2009; 16: 71-6.
46. Collins J, Bove KE, Dimmock D, Morehart P, Wong LJ, Wong B. [Progressive myofiber loss with extensive fibro-fatty replacement in a child with mitochondrial DNA depletion syndrome and novel thymidine kinase 2 gene mutations](#). *Neuromuscul Disord.* 2009; 19: 784-7.
47. Seshia SS, Abu-Arafeh I, Hershey AD. [Tension-type headache in children: the Cinderella of headache disorders!](#). *Can J Neurol Sci.* 2009; 36: 687-95.
48. Huo X, Xiang J, Wang Y, Kirtman EG, Kotecha R, Fujiwara H, Hemasilpin N, Rose DF, Degrauw T. [Gamma oscillations in the primary motor cortex studied with MEG](#). *Brain Dev.* 2009; :
49. Degrauw RS, Li JZ, Gilbert DL. [Body mass index changes and chronic neuroleptic drug treatment for Tourette syndrome](#). *Pediatr Neurol.* 2009; 41: 183-6.
50. McAuliffe JJ, Loepke AW, Miles L, Joseph B, Hughes E, Vorhees CV. [Desflurane, isoflurane, and sevoflurane provide limited neuroprotection against neonatal hypoxia-ischemia in a delayed preconditioning paradigm](#). *Anesthesiology.* 2009; 111: 533-46.
51. Modi AC, King AS, Monahan SR, Koumoutsos JE, Morita DA, Glauser TA. [Even a single seizure negatively impacts pediatric health-related quality of life](#). *Epilepsia.* 2009; 50: 2110-6.
52. Slater S, Crawford MJ, Kabbouche MA, LeCates SL, Cherney S, Vaughan P, Segers A, Manning P, Burdine D, Powers SS, Hershey AD. [Effects of gender and age on paediatric headache](#). *Cephalalgia.* 2009; 29: 969-73.
53. Young LR, Franz DN, Nagarkatte P, Fletcher CD, Wikenheiser-Brokamp KA, Galsky MD, Corbridge TC, Lam AP, Gelfand MJ, McCormack FX. [Utility of \[18F\]2-fluoro-2-deoxyglucose-PET in sporadic and tuberous sclerosis-associated lymphangioleiomyomatosis](#). *Chest.* 2009; 136: 926-33.
54. Daniels ZS, Nick TG, Liu C, Cassedy A, Glauser TA. [Obesity is a common comorbidity for pediatric patients with untreated, newly diagnosed epilepsy](#). *Neurology.* 2009; 73: 658-64.

Grants, Contracts, and Industry Agreements

Grant and Contract Awards

Annual Direct / Project Period Direct

Collins, J

Transcriptomics & Proteomics in Merosin-Deficient CMD Patients

Gilbert, D**Anomalous Motor Physiology in ADHD**

Kennedy Krieger Research Institute (National Institutes of Health)

R01 MH 078160 07/01/06 - 06/30/11

\$55,374 / \$311,728

The Role of SLITRK1 in Tourette and Related Disorders

Yale University School of Medicine (National Institutes of Health)

R01 NS 056276 09/01/06 - 08/31/11

\$23,405 / \$126,424

Cortical Excitability: Phenotype and Biomarker in ADHD

University of Cincinnati (National Institutes of Health)

R01 MH 081854 08/01/09 - 05/31/11

\$66,719 / \$66,719

Glauser, T**Epilepsy Phenome/Genome Project (EPGP)**

The University of California, San Francisco (National Institutes of Health)

U01 NS 053998 05/01/07 - 04/30/12

\$119,692 / \$378,995

Epilepsy Phenome/Genome Project

The Univ of California, San Francisco (National Institutes of Health)

U01 NS 053998 09/30/09 - 08/31/11

\$75,000 / \$125,000

Holland-Bouley, K**Sodium Channel Gene Variation in the Treatment of Epilepsy**

National Institutes of Health

R01 NS 062756 04/01/09 - 03/31/14

\$216,563 / \$1,091,563

Molloy, C**Autism Intervention Research Networks**

Massachusetts General Hospital (Health Resources and Services Administration)

UA3 MC 11054 03/01/09 - 03/31/11

\$145,413 / \$188,640

O'Brien, H**AHS/Merck US Human Health Headache Specialty Fellowship**

American Headache Society

07/01/09 - 06/30/11

\$55,000 / \$95,000

Vorhees, C**Effects of Neonatal MDMA on Brain and Behavior**

National Institutes of Health

R01 DA 021394 04/01/06 - 03/31/11

\$188,413 / \$963,245

Training Grant in Teratology

National Institutes of Health

T32 ES 07051 07/01/07 - 06/30/12

\$228,830 / \$1,326,178

Williams, M**Effects of Lead, Manganese and Stress During Development**

National Institutes of Health

R01 ES 015689 09/18/06 - 06/30/11

\$244,562 / \$1,217,390

Wu, S**Neuroplasticity in Tourette Syndrome**

Tourette Syndrome Association, Inc.

04/01/10 - 03/31/11

\$68,034 / \$68,034

Current Year Direct**1,537,005****Industry Contracts**

Franz, D		
Novartis Pharmaceuticals		\$ 346,548
Hershey, A		
Endo Pharmaceuticals, Inc.		\$ 22,145
GlaxoSmithKline		\$ 15,541
Palm Beach Neurology		\$ 2,695
Holland-Bouley, K		
Novartis Pharmaceuticals		\$ 14,864
Krueger, D		
Novartis Pharmaceuticals		\$ 16,940
Vorhees, C		
Eli Lilly and Company		\$ 5,015
Tau Ta Tis, Inc.		\$ 32,002
Wong, B		
PTC Therapeutics, Inc.		\$ 501,830
Genethon		\$ 126,537
Current Year Direct Receipts		1,084,117
Total		2,621,122

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