

Division Photo



B. Koch, D. Babcock, M. Care, K. Helton, L. Linam, J. Racadio, J. Strife, B. Ball, S. O'Hara, K. Emery, T. Laor, S. Kraus, A. Towbin, R. Fleck, B. Jones, A. Brody, E. Rubio, S. Sharp, K. Cecil, M. DeFrancesco, D. Nielsen, L. Donnelly, C. Anton, J. Leach, K. Kukreja, M. Halsted, S. Holland

Division Data Summary

Research and Training Details

Number of Faculty	41
Number of Joint Appointment Faculty	1
Number of Research Fellows	4
Number of Research Students	5
Number of Support Personnel	203
Direct Annual Grant Support	\$1,524,927
Direct Annual Industry Support	\$2,223
Peer Reviewed Publications	72

Clinical Activities and Training

Number of Clinical Staff	2
Number of Clinical Fellows	7
Number of Other Students	68
Inpatient Encounters	150270
Outpatient Encounters	51,306

Faculty Members

Lane F. Donnelly, MD, Professor ; *Director and Radiologist-in-Chief*

Christopher G. Anton, MD, Assistant Professor

Diane S. Babcock, MD, Professor

Alan S. Brody, MD, Professor ; *Associate Director, Radiology Research, IRC, Division Lead, Thoracic Imaging*
Maria A. Calvo, MD, Assistant Professor
Marquerite M. Care, MD, Assistant Professor
Kim M. Cecil, PhD, Research Professor
Eric J. Crotty, MD, Assistant Professor ; *Director, Pediatric Radiology Fellowship Program*
Mark DiFrancesco, PhD, Research Assistant Professor
John C. Egelhoff, DO, Professor ; *Division Co-Chief, CT*
Kathleen H. Emery, MD, Professor ; *Division Co-Chief, MRI*
Robert J. Fleck, MD, Assistant Professor ; *Division Chief, Cardiac MRI*
Michael J. Gelfand, MD, Professor ; *Division Chief, Nuclear Medicine*
Marilyn J. Goske, MD, Professor
Mark J. Halsted, MD, Assistant Professor ; *Division Chief, Informatics Research Core*
Kathy J. Helton, MD, Assistant Professor
Scott Holland, PhD, Research Professor ; *Division Chief, Pediatric Neuroimaging Research Consortium*
Neil D. Johnson, MD, Professor
Blaise V. Jones, MD, Associate Professor ; *Division Chief, Neuroradiology, Division Co-Chief MRI*
Beth M. Kline-Fath, MD, Assistant Professor ; *Division Chief, Fetal Imaging*
Bernadette L. Koch, MD, Associate Professor ; *Associate Director, Physician Services and Education*
Steven J. Kraus, MD, Associate Professor ; *Division Chief, Radiography and Fluoroscopy*
Kamlesh U. Kukreja, MD, Instructor
Tal Laor, MD, Professor ; *Division Lead, Musculoskeletal Imaging*
James L. Leach, MD, Associate Professor
Leann Linam, MD, Assistant Professor
Diana Lindquist, PhD, Research Assistant Professor
Michael P. Nasser, MD, Assistant Professor
David B. Nielsen, MD, Assistant Professor ; *Division Lead, Abdominal Imaging; Division Co-Chief, CT*
Alan E. Oestreich, MD, Professor
Sara M. O'Hara, MD, Associate Professor ; *Division Chief, Ultrasound*
Manish N. Patel, MD, Assistant Professor
John M. Racadio, MD, Associate Professor ; *Division Chief, Interventional Radiology*
John W. Rampton, MD, Assistant Professor
Eva I. Rubio, MD, Assistant Professor
Susan E. Sharp, MD, Assistant Professor
Janet L. Strife, MD, Professor ; *Assistant Director, Pediatric Radiology Fellowship Program*
Vincent J. Schmithorst, PhD, Research Assistant Professor
Jennifer Vannest, PhD, Research Assistant Professor
Janaka Wansapura, PhD, Research Assistant Professor
Weihong Yuan, PhD, Research Assistant Professor

Joint Appointment Faculty Members

William S. Ball, MD, Professor
Biomedical Engineering, University of Cincinnati

Clinical Staff Members

- **Henry J. Baskin, MD**

- **Arnold C. Merrow, MD**

Trainees

- **Carolina V. Guimaraes, MD**, PL6, Hospital Mae de Deus, Porto Alegre, Rio Grande do Sul, Brazil
- **Hee Kyung Kim, MD**, PL6, Korea University Gu-ro Hospital, Korea
- **Marica Komlos, MD**, PL6, Hospital Mae de Deus, Porto Alegre, Brazil
- **Preeyacha Pacharn, MD**, PL6, Siriraj Hospital, Mahidol University, Bangkok
- **Alexander J. Towbin, MD**, PL6, University of Pittsburgh School of Medicine
- **Mark Warren, MD**, PL6, Grandview Hospital, Dayton OH
- **Anthony Zarka, MD**, PL6, San Antonio Uniformed Services Health Education Consortium, Lackland AFB, TX

Significant Publications in FY08

Brody AS, Frush DP, Huda W, and Brent RL, Radiation risk to children from computed tomography. *Pediatrics*.120(3):677-82, 2007

Cecil KM, Brubaker CJ, Adler CM, Dietrich KN, Altaye M, Egelhoff JC, Wessel S, Elangovan I, Hornung R, Jarvis K, and Lanphear BP, Decreased brain volume in adults with childhood lead exposure. *PLoS Med*.5(5):741-749 (e112), 2008.

Holland SK, Vannest J, Mecoli M, Jacola LM, Tillema JM, Karunanayaka PR, Schmithorst VJ, Yuan W, Plante E, and Byars AW, Functional MRI of language lateralization during development in children. *Int J Audiol*.46(9):533-51, 2007

Holland SK, Karunanayaka P, Plante EJ, and Schmithorst VJ, An fMRI-based structural equation model for natural language processing shows age-dependent changes in brain connectivity. *J Acoust Soc Am*.123(5):3425, 2008

Kim HK, Laor T, Shire NJ, Bean JA, and Dardzinski BJ, Anterior and posterior cruciate ligaments at different patient ages: MR imaging findings. *Radiology*.247(3):826-35, 2008

Mihaescu M, Murugappan S, Gutmark E, Donnelly LF, and Kalra M, Computational modeling of upper airway before and after adenotonsillectomy for obstructive sleep apnea. *Laryngoscope*.118(2):360-2, 2008

Division Publications

1. Baskin HJ, Hedlund G. [Neuroimaging of herpesvirus infections in children](#) . *Pediatr Radiol*. 2007; 37: 949-963.
2. Brody AS. [Computed tomography scanning in cystic fibrosis research trials: practical lessons from three clinical trials in the United States](#) . *Proc Am Thorac Soc*. 2007; 4: 350-4.
3. Brody AS. [New perspectives in imaging interstitial lung disease in children](#) . *Pediatr Radiol*. 2008; 38 Suppl 2: S205-7.
4. Brody AS, Frush DP, Huda W, Brent RL. [Radiation risk to children from computed tomography](#) . *Pediatrics*. 2007; 120: 677-82.
5. Davis SD, Brody AS, Emond MJ, Brumback LC, Rosenfeld M. [Endpoints for clinical trials in young children with cystic fibrosis](#) . *Proc Am Thorac Soc*. 2007; 4: 418-30.
6. Deterding RR, Lavange LM, Engels JM, Mathews DW, Coquillet SJ, Brody AS, Millard SP, Ramsey BW. [Phase 2 randomized safety and efficacy trial of nebulized denufosol tetrasodium in cystic fibrosis](#) . *Am J Respir Crit Care Med*. 2007; 176: 362-9.
7. Deutsch GH, Young LR, Deterding RR, Fan LL, Dell SD, Bean JA, Brody AS, Nogee LM, Trapnell BC, Langston C, Albright EA, Askin FB, Baker P, Chou PM, Cool CM, Coventry SC, Cutz E, Davis MM, Dishop MK, Galambos C, Patterson K, Travis WD, Wert SE, White FV. [Diffuse lung disease in young children: application of a novel classification scheme](#) . *Am J Respir Crit Care Med*. 2007; 176: 1120-8.
8. Thomas H, Risma KA, Graham TB, Brody AS, Deutsch GH, Young LR, Joseph PM. [A kindred of children with interstitial lung disease](#) . *Chest*. 2007; 132: 221-30.
9. Tiddens HA, Brody AS. [Monitoring cystic fibrosis lung disease in clinical trials: is it time for a change?](#) . *Proc*

Am Thorac Soc. 2007; 4: 297-8.

10. Sherafat-Kazemzadeh R, Mehta SN, Care MM, Kim MO, Williams DA, Rose SR. [Small pituitary size in children with Fanconi anemia](#). *Pediatr Blood Cancer*. 2007; 49: 166-70.
11. Cecil KM, Brubaker CJ, Adler CM, Dietrich KN, Altaye M, Egelhoff JC, Wessel S, Elangovan I, Hornung R, Jarvis K, Lanphear BP. [Decreased brain volume in adults with childhood lead exposure](#). *PLoS Med*. 2008; 5: 741-749 (e112).
12. Patel NC, Delbello MP, Cecil KM, Stanford KE, Adler CM, Strakowski SM. [Temporal change in N-acetyl-aspartate concentrations in adolescents with bipolar depression treated with lithium](#). *J Child Adolesc Psychopharmacol*. 2008; 18: 132-9.
13. Walz NC, Cecil KM, Wade SL, Michaud LJ. [Late proton magnetic resonance spectroscopy following traumatic brain injury during early childhood: relationship with neurobehavioral outcomes](#). *J Neurotrauma*. 2008; 25: 94-103.
14. Browne LP, Boswell HB, Crotty EJ, O'Hara SM, Birkemeier KL, Guillerman RP. [Van Wyk and Grumbach syndrome revisited: imaging and clinical findings in pre- and postpubertal girls](#). *Pediatr Radiol*. 2008; 38: 538-542.
15. Difrancesco MW, Holland SK, Ris MD, Adler CM, Nelson S, Delbello MP, Altaye M, Brunner HI. [Functional magnetic resonance imaging assessment of cognitive function in childhood-onset systemic lupus erythematosus: A pilot study](#). *Arthritis Rheum*. 2007; 56: 4151-4163.
16. Donnelly LF. [Performance-based assessment of radiology practitioners: promoting improvement in accordance with the 2007 joint commission standards](#). *J Am Coll Radiol*. 2007; 4: 699-703.
17. Donnelly LF, Dickerson J, Racadio JM. [Is hand injection of central venous catheters for contrast-enhanced CT safe in children?](#). *AJR Am J Roentgenol*. 2007; 189: 1530-2.
18. Donnelly LF, Racadio JM, Strife JL. [Exposure of first-year medical students to a pediatric radiology research program: is there an influence on career choice?](#). *Pediatr Radiol*. 2007; 37: 876-878.
19. Fricke BL, Abbott MB, Donnelly LF, Dardzinski BJ, Poe SA, Kalra M, Amin RS, Cotton RT. [Upper airway volume segmentation analysis using cine MRI findings in children with tracheostomy tubes](#). *Korean J Radiol*. 2007; 8: 506-11.
20. Mihaescu M, Murugappan S, Gutmark E, Donnelly LF, Kalra M. [Computational modeling of upper airway before and after adenotonsillectomy for obstructive sleep apnea](#). *Laryngoscope*. 2008; 118: 360-2.
21. Mihaescu M, Murugappan S, Gutmark E, Donnelly LF, Khosla S, Kalra M. [Computational fluid dynamics analysis of upper airway reconstructed from magnetic resonance imaging data](#). *Ann Otol Rhinol Laryngol*. 2008; 117: 303-9.
22. Kogan JM, Egelhoff JC, Saal HM. [Interstitial deletion of 13q associated with polymicrogyria](#). *Am J Med Genet A*. 2008; 146: 910-6.
23. Huang IH, Emery KH, Laor T, Valentine M, Tiefermann J. [Fast-recovery fast spin-echo T2-weighted MR imaging: a free-breathing alternative to fast spin-echo in the pediatric abdomen](#). *Pediatr Radiol*. 2008; 38: 675-679.
24. Gelfand MJ, Lemen LC. [PET/CT and SPECT/CT Dosimetry in Children: The Challenge to the Pediatric Imager](#). *Semin Nucl Med*. 2007; 37: 391-398.
25. Wu SW, Graham B, Gelfand MJ, Gruppo RE, Dinopolous A, Gilbert DL. [Clinical and positron emission tomography findings of chorea associated with primary antiphospholipid antibody syndrome](#). *Mov Disord*. 2007; 22: 1813-5.
26. Goske MJ, Applegate KE, Boylan J, Butler PF, Callahan MJ, Coley BD, Farley S, Frush DP, Hernanz-Schulman M, Jaramillo D, Goske, Kaste SC, Morrison G, Strauss KJ, Tuggle N. [The Image Gently campaign: working together to change practice](#). *AJR Am J Roentgenol*. 2008; 190: 273-4.
27. Goske MJ, Applegate KE, Boylan J, Butler PF, Callahan MJ, Coley BD, Farley S, Frush DP, Hernanz-Schulman M, Jaramillo D, Johnson ND, Kaste SC, Morrison G, Strauss KJ, Tuggle N. [The 'Image Gently' campaign: increasing CT radiation dose awareness through a national education and awareness program](#). *Pediatr Radiol*. 2008; 38: 265-269.
28. Tantiwongkosi B, Goske MJ, Steele M. [Congenital solid neck mass: a unique presentation of Langerhans cell histiocytosis](#). *Pediatr Radiol*. 2008; 38: 575-8.
29. Guimaraes CV, Donnelly LF, Warner BW. [CT findings for blebs and bullae in children with spontaneous pneumothorax and comparison with findings in normal age-matched controls](#). *Pediatr Radiol*. 2007; 37: 879-884.
30. Guimaraes CV, Kalra M, Donnelly LF, Shott SR, Fitz K, Singla S, Amin RS. [The frequency of lingual tonsil enlargement in obese children](#). *AJR Am J Roentgenol*. 2008; 190: 973-5.
31. Vijayasekaran S, Halsted MJ, Boston M, Meinzen-Derr J, Bardo DM, Greinwald J, Benton C. [When is the vestibular aqueduct enlarged? A statistical analysis of the normative distribution of vestibular aqueduct size](#). *AJNR Am J Neuroradiol*. 2007; 28: 1133-8.

32. Eaton KP, Szaflarski JP, Altaye M, Ball AL, Kissela BM, Banks C, Holland SK. [Reliability of fMRI for studies of language in post-stroke aphasia subjects](#). *Neuroimage*. 2008; 41: 311-22.
33. Holland SK, Karunanayaka P, Plante EJ, Schmithorst VJ. [An fMRI-based structural equation model for natural language processing shows age-dependent changes in brain connectivity](#). *J Acoust Soc Am*. 2008; 123: 3425.
34. Holland SK, Karunanayaka P, Rajagopal A, Smith K. [fMRI evidence for central auditory processing of speech in deaf infants under sedation](#). *J Acoust Soc Am*. 2008; 123: 3319.
35. Holland SK, Vannest J, Mecoli M, Jacola LM, Tillema JM, Karunanayaka PR, Schmithorst VJ, Yuan W, Plante E, Byars AW. [Functional MRI of language lateralization during development in children](#). *Int J Audiol*. 2007; 46: 533-51.
36. Karunanayaka PR, Holland SK, Yuan W, Altaye M, Jones BV, Michaud LJ, Walz NC, Wade SL. [Neural substrate differences in language networks and associated language-related behavioral impairments in children with TBI: a preliminary fMRI investigation](#). *NeuroRehabilitation*. 2007; 22: 355-69.
37. Kramer ME, Chiu CY, Walz NC, Holland SK, Yuan W, Karunanayaka P, Wade SL. [Long-term neural processing of attention following early childhood traumatic brain injury: fMRI and neurobehavioral outcomes](#). *J Int Neuropsychol Soc*. 2008; 14: 424-35.
38. Pirko I, Nolan TK, Holland SK, Johnson AJ. [Multiple sclerosis: pathogenesis and MR imaging features of T1 hypointensities in murine model](#). *Radiology*. 2008; 246: 790-5.
39. Szaflarski JP, Holland SK, Jacola LM, Lindsell C, Privitera MD, Szaflarski M. [Comprehensive presurgical functional MRI language evaluation in adult patients with epilepsy](#). *Epilepsy Behav*. 2008; 12: 74-83.
40. Yuan W, Holland SK, Jones BV, Crone K, Mangano FT. [Characterization of abnormal diffusion properties of supratentorial brain tumors: a preliminary diffusion tensor imaging study](#). *J Neurosurg Pediatrics*. 2008; 1: 263-9.
41. Yuan W, Holland SK, Schmithorst VJ, Walz NC, Cecil KM, Jones BV, Karunanayaka P, Michaud L, Wade SL. [Diffusion tensor MR imaging reveals persistent white matter alteration after traumatic brain injury experienced during early childhood](#). *AJNR Am J Neuroradiol*. 2007; 28: 1919-25.
42. Stehr W, Farrell MK, Lucky AW, Johnson ND, Racadio JM, Azizkhan RG. [Non-endoscopic percutaneous gastrostomy placement in children with recessive dystrophic epidermolysis bullosa](#). *Pediatr Surg Int*. 2008; 24: 349-54.
43. Neely JC, 2nd, Jones BV, Crone KR. [Spontaneous extracranial decompression of epidural hematoma](#). *Pediatr Radiol*. 2008; 38: 316-8.
44. Kim HK, Laor T, Shire NJ, Bean JA, Dardzinski BJ. [Anterior and posterior cruciate ligaments at different patient ages: MR imaging findings](#). *Radiology*. 2008; 247: 826-35.
45. Kim YW, Donnelly LF. [Round pneumonia: imaging findings in a large series of children](#). *Pediatr Radiol*. 2007; 37: 1235-1240.
46. Kline-Fath B, Bitters C. **Prenatal imaging**. *Newborn Infant Nurs Rev*. 2007; 7: 197-204.
47. Koch BL. [Avoiding sedation in pediatric radiology](#). *Pediatr Radiol*. 2008; 38 Suppl 2: S225-6.
48. Koch BL, Moosbrugger EA, Egelhoff JC. [Symptomatic spinal epidural collections after lumbar puncture in children](#). *AJNR Am J Neuroradiol*. 2007; 28: 1811-6.
49. Hebert KJ, Laor T, Divine JG, Emery KH, Wall EJ. [MRI appearance of chronic stress injury of the iliac crest apophysis in adolescent athletes](#). *AJR Am J Roentgenol*. 2008; 190: 1487-91.
50. Jaramillo D, Laor T. [Pediatric musculoskeletal MRI: basic principles to optimize success](#). *Pediatr Radiol*. 2008; 38: 379-391.
51. Laor T. [Musculoskeletal imaging: evaluation of congenital anomalies](#). *Pediatr Radiol*. 2008; 38 Suppl 2: S246-50.
52. Taylor JA, Laor T, Warner BW. [Extralobar pulmonary sequestration](#). *Surgery*. 2008; 143: 833-4.
53. Mahajan V, Minshew PT, Khoury J, Shu PP, Muzaffar M, Abruzzo T, Leach JL, Tomsick TA. [Eye position information on CT increases the identification of acute ischemic hypoattenuation](#). *AJNR Am J Neuroradiol*. 2008; 29: 1144-6.
54. Rankey D, Leach JL, Leach SD. [Emergency MRI utilization trends at a tertiary care academic medical center: baseline data](#). *Acad Radiol*. 2008; 15: 438-43.
55. Strub WM, Leach JL. [First-year radiology residents not taking call: what is your position?](#). *Emerg Radiol*. 2008; 15: 81-2.
56. Linam LE, Darolia R, Naffaa LN, Breech LL, O'Hara S M, Hillard PJ, Huppert JS. [US findings of adnexal torsion in children and adolescents: size really does matter](#). *Pediatr Radiol*. 2007; 37: 1013-1019.
57. Merrow AC, Laor T. [Leukemia and treatment: imprint on the growing skeleton](#). *Pediatr Radiol*. 2008; 38: 594.
58. Oestreich AE. [The usefulness of magnification in postgastric magnetopathy](#). *Pediatr Radiol*. 2007; 37: 1268-

59. Goldschneider KR, Racadio JM, Weidner NJ. [Celiac plexus blockade in children using a three-dimensional fluoroscopic reconstruction technique: case reports](#). *Reg Anesth Pain Med*. 2007; 32: 510-5.
60. Jafri M, Alonso M, Kaul A, Dierig J, Racadio J, Inge T, Brown R, Ryckman F, Tiao G. [Intraoperative manometry during laparoscopic Heller myotomy improves outcome in pediatric achalasia](#). *J Pediatr Surg*. 2008; 43: 66-70; discussion 70.
61. Racadio JM, Babic D, Homan R, Rampton JW, Patel MN, Racadio JM, Johnson ND. [Live 3D guidance in the interventional radiology suite](#). *AJR Am J Roentgenol*. 2007; 189: W357-64.
62. Sheyn DD, Racadio JM, Ying J, Patel MN, Racadio JM, Johnson ND. [Efficacy of a radiation safety education initiative in reducing radiation exposure in the pediatric IR suite](#). *Pediatr Radiol*. 2008; 38: 669-74.
63. Rubio EI, Bassignani MJ, White MA, Brant WE. [Effect of an audience response system on resident learning and retention of lecture material](#). *AJR Am J Roentgenol*. 2008; 190: W319-22.
64. Bissler JJ, McCormack FX, Young LR, Elwing JM, Chuck G, Leonard JM, Schmithorst VJ, Laor T, Brody AS, Bean J, Salisbury S, Franz DN. [Sirolimus for angiomyolipoma in tuberous sclerosis complex or lymphangioleiomyomatosis](#). *N Engl J Med*. 2008; 358: 140-51.
65. Espay AJ, Schmithorst VJ, Szaflarski JP. [Chronic isolated hemifacial spasm as a manifestation of epilepsy partialis continua](#). *Epilepsy Behav*. 2008; 12: 332-6.
66. Patel AM, Cahill LD, Ret J, Schmithorst V, Choo D, Holland S. [Functional magnetic resonance imaging of hearing-impaired children under sedation before cochlear implantation](#). *Arch Otolaryngol Head Neck Surg*. 2007; 133: 677-83.
67. Schmithorst VJ, Holland SK, Plante E. [Object identification and lexical/semantic access in children: A functional magnetic resonance imaging study of word-picture matching](#). *Hum Brain Mapp*. 2007; 28: 1060-74.
68. Tillema JM, Byars AW, Jacola LM, Schapiro MB, Schmithorst VJ, Szaflarski JP, Holland SK. [Cortical reorganization of language functioning following perinatal left MCA stroke](#). *Brain Lang*. 2008; 105: 99-111.
69. Towbin AJ, Paterson B, Chang PJ. [A computer-based radiology simulator as a learning tool to help prepare first-year residents for being on call](#). *Acad Radiol*. 2007; 14: 1271-83.
70. Towbin AJ, Paterson BE, Chang PJ. [Informatics in Radiology: Computer-based Simulator for Radiology: An Educational Tool](#). *Radiographics*. 2008; 28: 309-316.
71. Vannest J, Szaflarski JP, Privitera MD, Schefft BK, Holland SK. [Medial temporal fMRI activation reflects memory lateralization and memory performance in patients with epilepsy](#). *Epilepsy Behav*. 2008; 12: 410-418.
72. Diwan A, Wansapura J, Syed FM, Matkovich SJ, Lorenz JN, Dorn GW, 2nd. [Nix-mediated apoptosis links myocardial fibrosis, cardiac remodeling, and hypertrophy decompensation](#). *Circulation*. 2008; 117: 396-404.

Grants, Contracts, and Industry Agreements

Grant and Contract Awards

Annual Direct / Project Period Direct

Holland, S

fMRI, Genes and Outcome for Cochlear Implants in Infants

National Institutes of Health

R01 DC 007186

12/01/04 - 11/30/09

\$312,594 / \$1,635,025

fMRI of Normal Language Development in Children

National Institutes of Health

R01 HD 038578

08/01/06 - 06/30/11

\$145,650 / \$750,000

Schmithorst, V

fMRI Of Neural Development In Speech Recognition

National Institutes of Health (University of Cincinnati)

R03 DC 006771

09/01/05 - 08/31/08

\$7,340 / \$66,635

Cortical Reorganization in Children with Unilateral Sensorineural Hearing Loss

National Institutes of Health

K25 DC 008110

05/01/06 - 04/30/11

\$122,062 / \$618,842

Ball, W

Neuroimaging Training in Pediatrics & Brain Development

National Institutes of Health

T32 EB 001656	09/20/03 - 06/30/08	\$49,498 / \$330,392
Silent Cerebral Infarct Multi-Center Clinical Trial		
National Institutes of Health (Washington University)		
U01 NS 042804	09/30/03 - 06/30/10	\$12,052 / \$145,600
Brody, A		
High-Resolution Computed Tomography CF Lung Disease		
Cystic Fibrosis Foundation Therapeutics, Inc.		
TRAPNE03Y2	04/01/03 - 10/31/08	\$75,892 / \$295,641
Cecil, K		
Early Lead Exposure, ADHD and Persistent Criminality: Role of Genes and Environment		
National Institutes of Health (University of Cincinnati)		
R01 ES 015559	06/01/07 - 03/31/12	\$156,621 / \$740,306
Neurofunctional and Neurochemical Markers of Treatment Response in Bipolar Mania		
National Institutes of Health (University of Cincinnati)		
R01 MH 078043	08/14/07 - 05/31/12	\$11,281 / \$74,215
Bipolar Disorder Imaging & Treatment Research Center		
National Institutes of Health (University of Cincinnati)		
P50 MH 077138	07/01/07 - 06/30/12	\$73,387 / \$407,685
Holland, S		
3 Tesla Magnetic Resonance Imaging for Studies of Child Development and Disorders		
National Institutes of Health		
S10 RR 024537	03/10/08 - 03/09/09	\$500,000 / \$500,000
Lindquist, D		
Antipsychotic Effects of N-acetyl Aspartate in Rat Brain		
National Institutes of Health		
R01 MH 074645	08/01/06 - 07/31/08	\$48,550 / \$100,000
Sharp, S		
[F-18] FDOPA Imaging of Brain Tumor in Children		
Society of Pediatric Radiology		
	01/01/08 - 12/31/08	\$10,000 / \$10,000
Current Year Direct		\$1,524,927
Industry Contracts		
Gelfand, M		
Bristol-Myers Squibb		\$ 2,030
GE Healthcare		\$ 193
Current Year Direct Receipts		\$2,223
		Total \$1,527,150