

CHRISTOPHER C. GIZA, M.D

Research/Administrative:

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UCLA Brain Injury Research Center
Department of Neurosurgery
David Geffen School of Medicine at UCLA
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Research: (310) 825-3550

Clinical/Patient Related:

Room 22-474 MDCC
Division of Pediatric Neurology
Mattel Children's Hospital - UCLA
David Geffen School of Medicine at UCLA
Los Angeles, CA 90095
Clinical: (310) 825-6196

PROFESSIONAL POSITIONS

1996-1997 **Private Practice Physician**, locum tenens. Long Beach Memorial Medical Center. Long Beach, CA
1996-1997 **Search and Rescue Team Member**, Yosemite National Park, CA
1997-1998 **Staff Research Assistant IV**, Neuropsychiatric Institute and Div of Pediatric Neurology, UCLA Medical Center and UCLA Children's Hospital, Los Angeles, CA
1997-1998 **Private Practice Physician**, locum tenens. Neurologic Associates of the Valley Medical Group, West Hills, CA
1998-2000 **Postdoctoral Fellow**, Division of Neurosurgery, Department of Surgery, UCLA Medical Center and Brain Injury Research Center, Los Angeles, CA
2000-2001 **Assistant Researcher**, Division of Neurosurgery, Department of Surgery, UCLA Medical Center and Brain Injury Research Center, Los Angeles, CA
2001-2007 **Assistant Professor**, Divisions of Neurosurgery and Pediatric Neurology, David Geffen School of Medicine at UCLA, Mattel Children's Hospital at UCLA, Los Angeles, CA
2002- **Member**, UCLA Brain Research Institute, Los Angeles, CA
2006-2007 **Assistant Professor**, UCLA Interdepartmental Program for Neuroscience, Los Angeles, CA
2006- **Member**, Critical Care at Mattel Children's Hospital at UCLA Program, Los Angeles, CA
2007-2007 **Assistant Professor**, UCLA Interdepartmental Program in Biomedical Engineering, Los Angeles, CA
2007- **Associate Professor**, Department of Neurosurgery; Division of Pediatric Neurology, Department of Pediatrics; Interdepartmental Program for Neurosciences; Interdepartmental Program in Biomedical Engineering; David Geffen School of Medicine at UCLA & Mattel Children's Hospital - UCLA, Los Angeles, CA

EDUCATION

1986 A.B. **Dartmouth College**, Hanover, NH. High honors in biochemistry.
1990 M.D. **West Virginia University School of Medicine**, Morgantown, WV
1990-1991 **Intern**, Department of Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA
1991-1994 **Resident**, Department of Neurology, UCLA Medical Center, Los Angeles, CA
1994-1996 **Clinical Fellow**, Division of Pediatric Neurology, Department of Pediatrics, Mattel Children's Hospital at UCLA, Los Angeles, CA
2008 **Clinical Trial Methods, Course in Neurology**. Sponsored by NINDS. One week intensive course of clinical trial training. Vail, CO.

CERTIFICATIONS / LICENSES

Diplomate, American Board of Psychiatry and Neurology, certified in Neurology with Special Qualifications in Child Neurology. 1998-2008.
California Medical License, current.

GRANTS AWARDED / RESEARCH PROJECTS

- Metabolism of Alternative Fuels Following Developmental Traumatic Brain Injury. NINDS/NIH R01, NS052406, 6/1/05-5/31/08. No cost extension to 5/31/09. Principal Investigator: Mayumi L. Prins. Investigators: CC **Giza** 2.5%, B Bartnik, NG Harris, DA Hovda. Annual direct costs: \$175,000. Total direct costs: \$525,000.
- Loss of Developmental Plasticity after Head Injury. NINDS/NIH R01 NS27544, 1/1/06-12/31/09. Principal Investigator: DA Hovda. Investigators: CC **Giza** 2.5%, F Gomez-Pinilla, GS Griesbach. Annual direct costs: \$200,000. Total direct costs: \$800,000.
- Restoration of Plasticity Following Pediatric Traumatic Brain Injury. NINDS/NIH K02 NS057420, 9/1/07-8/31/12. Principal Investigator: CC **Giza** 75%. Investigators: F Gomez-Pinilla, DA Hovda, ML Prins, I Spigelman. Annual direct costs: \$163,584. Total direct costs: \$868,493.
- Enhancing Recovery after Pediatric TBI: Translating Basic Neurobiology to Clinical Intervention. Supported by the Winokur Family Foundation. Shields Fellow, 8/8/07-8/7/09. Principal Investigator: CC **Giza**. Annual direct costs: \$50,000. Total direct costs: \$100,000.
- Early Monitoring for Seizures and Long-term Global Outcomes Following Moderate to Severe Brain Injury in Children. Thrasher Research Fund. *Submitted 1/5/08; revised 4/18/08, 8/15/08*. Funding period: 1/1/09-12/31/11. Principal Investigator: CC **Giza**. Co-Investigators: Jason Lerner, Michele van Hirtum-Das. Total direct costs: \$296,071.

GRANT APPLICATIONS PENDING

- Traumatic Brain Injury Induced Cerebral Metabolic Depression and Recovery. NINDS/NIH P50 application. *Submitted 6/2008*. Priority score 109, 11/8/08. Program Director: DA Hovda. Project 2: Age-dependent use of alternative cerebral substrates during TBI-induced glucose metabolic depression. Principal Investigator: ML Prins. Investigators: B Bartnik, CC **Giza**, N Harris. Annual direct costs requested: P50 - \$1,000,000; Project 2 - \$200,000.
- Modulating Neural Activation after Pediatric Traumatic Brain Injury. NINDS/NIH R01 NS064115-01. *Submitted 2/5/08*, Priority score 228, 6/18/08. *Currently in revision*. Principal Investigator: CC **Giza**. Co-Principal Investigators: R Asarnow, NG Harris. Annual direct costs requested: \$250,000. Total direct costs requested: \$1,250,000.
- Reconnection of Neural Networks and Cognitive Recovery after Pediatric TBI. NINDS/NIH R01. *Submitted 10/5/08*. Principal Investigator: RF Asarnow. Co-Principal Investigator: CC **Giza**. Annual direct costs requested: \$450,000. Total direct costs requested: \$2,100,000.
- Enhanced Fear Conditioning after Diffuse Traumatic Brain Injury due to GABAergic Dysfunction in the Rat Hippocampus. DOD Proposal No. DR080372. *Submitted 10/15/08*. Principal Investigator: CC **Giza**. Co-PIs: M Fanselow, D Hovda. Total direct costs requested: \$150,000.

COMPLETED GRANTS / RESEARCH PROJECTS

- Glutamate Receptor Changes after Brain Trauma and Environmental Enrichment. UCLA API (Assistant Professor Initiative), 4/1/02-6/30/03. Principal Investigator: CC Giza. Annual direct costs: \$2,000.
- Post-Traumatic Seizures in the Developing Brain. University of California Neurotrauma grant, 7/1/02-6/30/03. Principal Investigators: CC **Giza** and R Sankar. Annual direct costs: \$60,000.

Loss of Developmental Plasticity after Head Injury. NINDS/NIH R01 NS27544, 5/1/01-4/30/04. Extension 5/1/04-4/30/05. Principal Investigator: DA Hovda. Investigators: CC **Giza**, MV Sofroniew, F Gomez-Pinilla. Annual direct costs: \$200,000. Total direct costs: \$600,000.

Functional Brain Activation Following Pediatric Traumatic Brain Injury. UCLA FRG (Faculty Research Grants Program), 7/1/05-6/30/06. Principal investigators: CC **Giza**, RF Asarnow. Annual direct costs: \$6,000.

Acute Pathophysiological Monitoring and Long-term Functional Outcome after Pediatric Traumatic Brain Injury. UCLA Neurosurgery Seed Grant application. 11/1/06-6/30/07. Principal Investigator: CC **Giza**. Co-Principal Investigators: A Madikians, V Nenov. Annual direct costs: \$20,000.

Headache and Psychiatric Comorbidity Following Mild Pediatric Traumatic Brain Injury (TBI). UCLA FRG (Faculty Research Grants Program), 7/1/06-6/30/07. Principal Investigators: CC **Giza**, R Caplan. Annual direct costs: \$3,000.

NMDA Receptor Dysfunction after Traumatic Brain Injury. NINDS/NIH K08 NS02197, 9/1/02-8/31/07. Principal Investigator: CC **Giza** 77%. Mentor: DA Hovda. Annual direct costs: \$162,324. Total direct costs: \$811,620.

Longitudinal Assessment of Behavioral and Biomarker Changes in a Transgenic Rat Model of Alzheimer's Disease. UCLA Alzheimer Disease Research Center (ADRC) Pilot Grant. 1/2007-1/2008. Principal Investigator: EH Teng. Co-Investigator: CC **Giza**.

Epileptogenicity in the Developing Brain. NINDS/NIH R01 NS046516, 2/1/04-1/31/08. Principal Investigator: R Sankar. Consultant: CC **Giza**. Annual direct costs: \$208,000. Total direct costs: \$832,000.

Neural Network Perturbations and Cognitive Impairment Following Pediatric Traumatic Brain Injury. UCLA FRG (Faculty Research Grants Program), 7/1/07-6/30/08. Principal Investigator: CC **Giza**. Investigator: R Asarnow. Total direct costs: \$3,000.

HONORS AND AWARDS

1982	National Merit Scholar
1985-1986	Rufus Choate Scholar (top 5% in class)
1986	Sigma Xi Scientific Research Society Grant-in-Aid of Research
1987	Alpha Omega Alpha Medical Student Research Grant
1988-	Alpha Omega Alpha Medical Honor Society
1989-1990	American Bureau for Medical Advancement in China/ Warner-Lambert Fellowship
1989-1990	Vice-President, Medical School senior class
1989-1990	Herschel C. Price Educational Foundation Grant
1996	Mead Johnson Award for Teaching Excellence in Pediatrics
1998-1999	Lind Lawrence Foundation Postdoctoral Fellow
1998	International Society for Cerebral Blood Flow and Metabolism, Junior Delegate Bursary Award
2001, 2002	University of California Neurotrauma Travel Fellowship
2001-2002	<i>J. Athletic Training</i> Clint Thompson Award 1 st runner-up for Outstanding Non-Research Manuscript, "The Neurometabolic Cascade of Concussion"
2002-2003	American Alpine Club Research Grant Award
2002-2003	UCLA Brain Injury Research Center Young Investigator Award
2005	UCLA Council on Research Conference Travel Grant for invited lectures at the 14 th Annual Conference of the Neurotrauma Society of India
2005	P.S. Ramani Oration Recipient at the 14 th Annual Conference for the Neurotrauma Society of India
2007	Visiting Professor, Pepperdine University, Malibu, CA. June 19 th
2007-2009	Shields Fellow, UCLA; supported by the Winokur Family Foundation thru the Child Neurology Foundation

JOURNAL ARTICLES

1. Liu X, **Giza** CC, Triezenburg SJ, and Vrana KE. High efficiency transient expression of eukaryotic genes: novel use of an HSV-1 immediately early promoter (ICP4). *Biotech.* 1990; 9(2): 168-173.
 2. **Giza** CC and Sankar RS. Pathogenesis of the developmental epilepsies. *Current Opin. in Ped.* 1998; 10(6): 567-574.
 3. **Giza** CC, Kuratani JD, Cokely H, and Sankar RS. Periventricular nodular heterotopia and childhood absence epilepsy: a case report. *Ped Neurol.* 1999; 20(4):315-8.
 4. Mathern, GW; **Giza**, CC; Yudovin, S; Vinters, HV; Peacock, WJ; Shewmon, DA; Shields, WD. Postoperative seizure control and antiepileptic drug use in pediatric epilepsy surgery patients: the UCLA experience, 1986-1997. *Epilepsia* 1999; 40(12):1740-9.
 5. Fineman I, **Giza** CC, Nahed B, Lee SM and Hovda DA. Inhibition of neocortical plasticity during development by moderate concussive brain injury. *J. Neurotrauma* 2000; 17(9): 739-49.
 6. Rabizadeh S, Ye X, Wang JLL, Sperandio S, Wang, JLL, Ellerby HM, Ellerby LM, **Giza** CC, Andrusiak RL, Frankowski H, Yaron Y, Moayeri NN, Rovelli G, Evans CJ, Butcher LL, Nolan GP, Assa-Munt N, and Bredesen DE. Neurotrophin dependence domain: A domain required for the mediation of apoptosis by the p75 neurotrophin receptor. *J. Molec. Neurosci.* 2000; 15: 215-229.
 7. **Giza** CC and Hovda DA. The Neurometabolic Cascade of Concussion. *J. Athletic Training* 2001; 36(3):228-235.
 8. **Giza** CC, Prins ML, Hovda DA, Herschman HR and Feldman JD. Genes preferentially induced by depolarization after concussive brain injury: Effects of age and injury severity. *J Neurotrauma* 2002 Apr;19(4):387-402.
 9. Ip EY, **Giza** CC, Griesbach G and Hovda DA. Effects of enriched environment and fluid percussion injury on dendritic arborization within the cerebral cortex of the developing rat. *J. Neurotrauma* 2002 May;19(5):573-85.
 10. Zanier ER, Lee SM, Vespa P, **Giza** CC and Hovda DA. Increased hippocampal CA3 vulnerability to low level glutamate analogue following lateral fluid percussion injury. *J. Neurotrauma* 2003 May; 20(5):409-420.
 11. Gordon BM and **Giza** CC. Tick paralysis presenting in an urban setting. *Ped Neurol* 2004 Feb; 30(2): 122-4.
 12. Bhidayasiri R and **Giza** CC. Images in Pediatric Neurosurgery - Subdural hematoma and retinal hemorrhages in an infant: accidental or non-accidental injury? *Ped Neurosurg* 2004; 40(3):147-18.
 13. **Giza** CC. Sports Concussion. *Brain Injury Professional* 2004; 1(1): 22-25.
 14. Osteen CL, **Giza** CC and Hovda DA. Injury-induced alterations in NMDA receptor subunit composition contribute to prolonged ⁴⁵calcium accumulation following lateral fluid percussion. *Neuroscience* 2004 128(2):305-322.
 15. **Giza** CC, Griesbach GS and Hovda DA. Experience-Dependent Behavioral Plasticity is Disturbed Following Traumatic Injury to the Immature Brain. *Behavioral Brain Res*, 2005; 157(1):11-22.
 16. Gurkoff GG, **Giza** CC and Hovda DA. Lateral fluid percussion injury in the developing rat causes an acute, mild behavioral dysfunction in the absence of significant cell death. *Brain Res*, 2006 Mar 10; 1077(1):24-36.
 17. Madikians A and **Giza** CC. A Clinician's Guide to the Pathophysiology of Traumatic Brain Injury. *Indian J Neurotrauma*, June 2006; 3(1):9-17.
 18. **Giza** CC. Better Never Than Late: Lasting Effects of Pediatric Traumatic Brain Injury. *Indian J Neurotrauma*, June 2006; 3(1):19-26.
 19. **Giza** CC, Santa Maria NS, and Hovda DA. N-methyl-D-aspartate receptor subunit changes following traumatic injury to the developing brain. *J. Neurotrauma*, Jun, 2006; 23(6):950-61.
 20. Prins ML and **Giza** CC. Induction of monocarboxylate transporter-2 expression and ketone transport following traumatic brain injury in juvenile and adult rats. *Dev Neurosci*, 2006; 28(4-5):447-56.
 21. **Giza** CC and Prins ML. Is being plastic fantastic? Mechanisms of impaired plasticity following developmental traumatic brain injury. *Dev Neurosci*, 2006; 28(4-5):364-79.
 22. **Giza** CC, Mink RB and Madikians A. Pediatric traumatic brain injury (TBI): Not Just Little Adults. *Curr Op Critical Care*, 2007; 13(2):143-152.
 23. Gurkoff GG, **Giza** CC, Shin D, Auvin S, Sankar R and Hovda DA. Traumatic Brain Injury Produces a State of Protection from Acute Effects of Secondary Seizures. Submitted NEU-2008-0757, *J Neurotrauma* 2008.
 24. Reger ML, Hovda DA and **Giza** CC. Ontogeny of working memory as measured by the novel object recognition task. In revision, 2008.
- Arndt D, Sankar R and **Giza** CC. Post-traumatic seizures in the pediatric population. In preparation, 2008.

- Giza** CC, Li QX, Santa Maria NS, Reger ML, Gurkoff GG, Spigelman I and Hovda DA. Glutamatergic down regulation underlies a deficit in hippocampal experience-dependent plasticity following developmental brain injury. In preparation, 2008.
- Breault JE, McArthur DL, Yudovin S and **Giza** CC. Pediatric traumatic brain injury (TBI) clinic: Meeting the medical needs of forgotten patients. In preparation, 2008.
- Giza** CC. Hitting a moving target: Basic mechanisms of recovery after acquired developmental brain injury. *Devel Neurorehab*, In preparation, 2008.
- Cazalis F, Babikian T, Newman N, Hovda DA, **Giza** CC, Asarnow R. Recovery after severe traumatic brain injury: a pediatric fMRI study. In preparation, 2008.

ABSTRACTS

1. Fritz RS, Berkowitz E, Kletzien RF, **Giza** CC, and Vrana KE. Hormonal regulation of hepatic glucose 6-phosphate dehydrogenase. *FASEB Jour.* 1988; 2: A1784.
2. Walker SJ, **Giza** CC, and Vrana KE. Pituitary corticotroph function during the stress non-responsive period in neonatal rats. *FASEB Jour.* 1990; 4(4): A1078.
3. Mathern GW, **Giza** CC, Yudovin S, Vinters HV, Peacock WJ, Shewmon DA, and Shields WD. Long-term seizure outcomes in pediatric epilepsy surgery: the UCLA experience, 1986-97. American Epilepsy Society meeting, 1998.
4. **Giza** CC, Lee SM, Fineman I, Nahed B, Moore AH and Hovda DA. Loss of plasticity after traumatic brain injury in the developing rat: anatomic, behavioral and metabolic changes. *J Cereb Blood Flow and Metab* 1999; 19:suppl. 1, S392.
5. Hovda DA, **Giza** CC, and Lee SM. Alterations in N-Methyl D-Aspartate (NMDA) receptors following developmental brain injury: implications for plasticity. *J Neurotrauma* 1999; 16 (10):1014.
6. **Giza** CC, Echiverri A, Lee SM, and Hovda DA. N-Methyl D-Aspartate (NMDA) receptor antagonism prevents neuroanatomic plasticity associated with rearing in an enriched environment (EE). *Society for Neuroscience* 1999; A710.2.
7. Osteen CL, **Giza** CC and Hovda DA. Changes in N-Methyl D-Aspartate receptor (NMDAR) number and subunit composition after fluid percussion (FP) injury appear to prepare the hippocampus for neuroplasticity in adult rats *Restorative Neurol and Neurosci* 2000; 16(3-4): 210.
8. Shieh EY, **Giza** CC, Griesbach G, Lee SM, and Hovda DA. Fluid percussion injury followed by rearing in enriched environment increases cortical dendritic density. *J Neurotrauma* 2000; 17(10): 986.
9. **Giza** CC, Lee SM, Kremen TJ and Hovda DA. Decreased N-Methyl D-Aspartate receptor (NMDAR) activity after developmental fluid percussion injury (FPI) demonstrated by changes in subunit composition. *Restorative Neurol and Neurosci* 2000; 16(3-4):170, platform presentation.
10. **Giza** CC, Lee SM and Hovda DA. Increased N-Methyl D-Aspartate (NMDA) receptor NR2A:NR2B subunit ratio induced by rearing in an enriched environment (EE). *Society for Neuroscience*, 2000; A599.12.
11. **Giza** CC, Prins ML, Hovda DA, Herschman HR and Feldman JD. Genes differentially induced by depolarization have specific age- and severity-dependent expression patterns following fluid percussion injury. *J Cereb Blood Flow and Metab* 2001; 21: suppl. 1, S188.
12. **Giza** CC, Farmani N, Shieh EY, and Hovda DA. Changes in hippocampal dendritic branching following fluid percussion injury in the immature rat. *J Neurotrauma* 2001; 18(10): 1142.
13. Hovda DA, Griesbach GS, and **Giza** CC. Experience-dependent loss of plasticity is restored after delayed exposure to an enriched environment. *J. Neurotrauma* 2002; 19(10): 1303. P221.
14. Gurkoff GG, **Giza** CC, and Hovda DA. Behavioral deficits following lateral fluid percussion injury in the rat pup due to cellular dysfunction and not cell death. *J. Neurotrauma* 2002; 19(10): 1320. P292.
15. Roncati Zanier E, Lee SM, Vespa P, **Giza** CC, and Hovda DA. Increased hippocampal vulnerability to kainic acid-induced neuronal activity following lateral fluid percussion injury. *J. Neurotrauma* 2002; 19(10): 1329. P328.
16. Osteen CL, **Giza** CC, and Hovda DA. Injury-induced changes in NMDA receptor subunit composition contribute to prolonged calcium-45 accumulation in intact cortex. *J. Neurotrauma* 2002; 19(10): 1384. P545, platform presentation.
17. Prins ML, Li HH, **Giza** CC, and Hovda DA. Microarray gene expression analysis of postnatal day 26 rat cortex after lateral fluid percussion injury. *J. Neurotrauma* 2002; 19(10): 1379. P527.
18. **Giza** CC, Li HH, Prins ML, and Hovda DA. Microarray gene expression analysis of postnatal day 19 rat cortex after lateral fluid percussion injury. *J. Neurotrauma* 2002; 19(10): 1340. P369.

19. Sankar R, Shin D, Roncati-Zanier E, Hovda DA, and **Giza** CC. Traumatic brain injury exacerbates seizure-induced damage in the hilus of developing rat pups. *Neurology*, 2003, 60 (Supp. 1):A260.
20. Gurkoff GG, Hoffman JR, **Giza** CC, and Hovda DA. Injury severity does not predict outcome in a model of developmental lateral fluid percussion. *J. Neurotrauma* 2003; 20(10): 1093. P263.
21. Hovda DA, Griesbach GS, Hoffman JR and **Giza** CC. Pre-weanling fluid percussion injury results in a Morris water maze acquisition deficit: interaction with enriched environment. *J. Neurotrauma* 2003; 20(10): 1095. P269.
22. **Giza** CC, Li HH, Prins ML, and Hovda DA. Gene expression profiling after lateral fluid percussion injury in the immature rat suggests multiple mechanisms of neural dysfunction. *J. Neurotrauma* 2003; 20(10): 1101. P294.
23. Gurkoff GG, Shin D, **Giza** CC, Sankar R and Hovda DA. Lateral fluid percussion in the developing rat produces a state of preconditioning protecting hippocampal neurons from secondary injury. *Restorative Neurol Neurosci*, 2004, 23(3,4): 168, platform presentation.
24. **Giza** CC, Cai Y, Prins ML and Hovda DA. Lateral fluid percussion injury in the juvenile rat triggers expression changes in multiple families of cell cycle, developmental and cytoskeletal genes. *Restorative Neurol Neurosci*, 2004, 23(3,4):209-10.
25. **Giza** CC, Griesbach, GS, Reger, M, diStefano, L, and Hovda, DA. Timing of environmental enrichment is critical for recovery after traumatic brain injury in the developing rat. *Ann Neurol.*, 2004, 56 (Supp.8):S89, platform presentation 23.
26. Gurkoff GG, Shin D, **Giza** CC, Sankar R and Hovda DA. Lateral fluid percussion produces a state of preconditioning at different developmental ages. *J. Neurotrauma*, 2004; 21(9): 1341. P315.
27. Santa Maria NS, Hovda DA, and **Giza** CC. Alteration in N-methyl-D-aspartate receptor subunit composition and impaired neuroplasticity after fluid percussion injury in the developing rat. *J. Neurotrauma*, 2004; 21(9): 1329. P263.
28. Reger ML, Hovda DA and **Giza** CC. Rearing in an enriched environment enhances novel object recognition in developing rats. *Society for Neuroscience*, 2004; A156.9.
29. Prins ML, **Giza** CC and Hovda DA. Traumatic brain injury-induced increase in cerebral monocarboxylate transporter: New hope for metabolic therapy. *Ann Neurol*, 2005, 58(suppl 9):S88, moderated poster M1.
30. Gurkoff GG, Shin D, **Giza** CC, Hovda DA and Sankar R. Concussive brain injury produces a state of preconditioning in the developing brain. *Ann Neurol*, 2005, 58(suppl 9):S115, poster 85.
31. Santa Maria NS, Hovda DA and **Giza** CC. Traumatic brain injury, enriched environment and N-methyl-D-aspartate receptor-mediated neuroplasticity in the immature rat. *Ann Neurol*, 2005, 58(suppl 9):S82, platform presentation 14.
32. Cazalis F, Newman N, Babikian T, Marion S, Black D, Reger ML, Hovda DA, **Giza** CC, Asarnow RF. fMRI study of recovery after pediatric traumatic brain injury. *Society for Neuroscience*, 2005; A471.5, platform presentation.
33. Gurkoff GG, Shin D, **Giza** CC, Hovda DA and Sankar R. Concussive brain injury produces a state of anatomical and behavioral preconditioning to seizures in the developing rat brain. *J. Neurotrauma*, 2005; 22(10): 1167. P13, platform presentation.
34. Reger ML, Gurkoff GG, Hovda DA and **Giza** CC. The novel object recognition task detects a transient cognitive deficit after developmental TBI. *J. Neurotrauma*, 2005; 22(10): 1206. P167.
35. Li QX, Spigelman I, Hovda DA and **Giza** CC. Decreased NMDA receptor mediated synaptic currents in CA1 neurons following fluid percussion injury in developing rats. *J. Neurotrauma*, 2005; 22(10):1249. P339.
36. Hovda DA, Asarnow R, Cazalis F, **Giza** CC, Gomez-Pinilla F, Griesbach GS, Gurkoff GG, Li Q, Prins ML, Reger ML, Spigelman I. Plasticity and enriched environment after experimental pediatric traumatic brain injury: Implications for treatment and rehabilitation. *J. Neurotrauma*, 2006; 23(5):763. IV.1.
37. **Giza** CC, Santa Maria NS and Hovda DA. Fluid percussion injury and post-injury environment affect NMDA receptor subunit composition in the immature rat. *J. Neurotrauma*, 2006; 23(5):744. O4.5, platform presentation.
38. Santa Maria NS, Ip EY, Lozada A, Hovda DA and **Giza** CC. Enriched environment promotes recovery in basal hippocampal CA3 dendrites following lateral fluid percussion injury in the immature rat. *J. Neurotrauma*, 2006; 23(6): 998. P50.
39. Gurkoff GG, Shin D, Auvin S, **Giza** CC, Sankar R and Hovda DA. Concussive brain injury and status epilepticus: Acute preconditioning does not translate to long-term hippocampal protection from seizures. *J. Neurotrauma*, 2006; 23(6): 1031. P174.
40. Breault JE, Yudovin S, McArthur DL, Hovda DA, **Giza** CC. Pediatric Traumatic Brain Injury (TBI) clinic: Cohort characteristics, neuroimaging abnormalities and outcome. *J. Neurotrauma*, 2006; 23(6); 1031. P173.
41. Morrison P, Breault JE, McArthur DL, Yudovin S and **Giza** CC. Late seizures in an outpatient pediatric traumatic brain injury population. *Ann Neurol*, 2006; 60(S10): S145, E05.

42. **Giza** CC, Breault JE, Yudovin S, Ferraro M, Morrison P, Hovda DA and McArthur DL. Pediatric traumatic brain injury (TBI) clinic: Caring for children with forgotten medical needs. *Ann Neurol*, 2006; 60(S10): S128, B24.
43. Hovda DA, **Giza** CC, Bartnik-Olson BL, Sutton R, Bergsneider M, Vespa PM, Martin NA, Prins ML, Glenn TC. Imaging and cerebral microdialysis following traumatic brain injury: a new cerebral biology of recovery of function. *European Society for Clinical Investigation (ESCI) meeting*, 2007.
44. Arndt DH, Breault JE, McArthur DL, Yudovin S and **Giza** CC. Post-traumatic headaches in an outpatient pediatric population. *Ann Neurol*, 2007; 62(S11): S129, P79.
45. Hutson CB, Gurkoff GG, **Giza** CC, Hovda DA, Chesselet M-F. Multiple risk factors for Parkinson's Disease: Pesticide exposure and traumatic brain injury. *J. Neurotrauma*, 2007; 24(7): 1232. P12.
46. Santa Maria NS, Reger ML, Hovda DA, **Giza** CC. D-Cycloserine administration promotes NR2A recovery and increases exploratory behavior following lateral fluid percussion injury in the immature rat. *J. Neurotrauma*, 2007; 24(7): 1267. P153.
47. Breault JE, Cai Y, Hovda DA, **Giza** CC. AMPA receptor subunit changes after lateral fluid percussion injury in the immature rat. *J. Neurotrauma*, 2007; 24(7): 1240. P46.
48. Baquing MA, Reger ML, Hovda DA, **Giza** CC. Age-dependent differences in performance on an olfactory novel object recognition task. *Society for Neuroscience*, 2007, 528.12, EEE1.
49. Cazalis F, Babikian T, Newman N, Hovda DA, **Giza** CC, Asarnow R. Recovery after severe traumatic brain injury: a pediatric fMRI study. *Society for Neuroscience*, 2007, 15.3, platform presentation.
50. Copeland SA, Cazalis F, **Giza** CC, Hovda DA, Asarnow R. White Matter Recovery after Traumatic Brain Injury in Adolescents: A Longitudinal DTI Study. *Devel Neurorehab*, 2007; 10(4): 309. Abstract 67.
51. Cheng Y-T, McArthur DL, Breault JE, Yudovin SL, **Giza** CC. Headache symptoms are related to injury mechanism (sports vs non-sports related activities) following pediatric mild traumatic brain injury. *Devel Neurorehab*, 2007; 10(4): 292. Abstract 41.
52. **Giza** CC, Santa Maria NS, Li QX, Reger ML, Spigelman I and Hovda DA. Glutamatergic dysfunction underlies impaired neuroplasticity following traumatic injury to the developing brain. *Devel Neurorehab*, 2007; 10(4): 301. Abstract 54.
53. Reger ML, Santa Maria NS, Hovda DA, **Giza** CC. NMDA agonist attenuates exploratory and anxiety related behavioral deficits after lateral fluid percussion injury in immature rats. *Devel Neurorehab*, 2007; 10(4): 301. Abstract 55.
54. Breault JE, McArthur DL, Yudovin SL, **Giza** CC. A Novel Approach to Patient Management Following Pediatric TBI: The UCLA Pediatric TBI Clinic. *Devel Neurorehab*, 2007; 10(4): 277. Abstract 13.
55. Asarnow RF, **Giza** CC, Cazalis F, Marion S, Vu J, Babikian T, Copeland S, Kernan C and Hilleary S. Mechanisms of neurocognitive recovery following pediatric traumatic brain injury. *Accepted, Child Neurology Society*, 2008, P140.
56. Copeland SA, Cazalis F, **Giza** CC, Hovda DA, Asarnow RF. A longitudinal DTI study of recovery after traumatic brain injury in adolescents. *Accepted, Child Neurology Society*, 2008, P141.
57. Santa Maria NS, Baquing MA, Hovda DA, **Giza** CC. Restoration of impaired experience-dependent plasticity by enhancing NMDA receptor-mediated synaptic transmission after developmental TBI. *J Neurotrauma*, 2008; 25(7): P232; Platform presentation.
58. Reger ML, Poulos A, **Giza** CC, Hovda DA, Fanselow M. Contextual fear enhancement after concussive brain injury. *J Neurotrauma*, 2008; 25(7): 884, P126.
59. Poulos AM, Reger ML, Livingston B, Giza CC, Hovda DA and Fanselow MS. A single stressful event prior to weaning enhances fear learning in adult rats. *Accepted, Society for Neuroscience*, 2008.
60. Hutson CB, Lazo CR, Dorriz P, Breault J, Cai Y, **Giza** CC, Hovda DA and Chesselet MF. Multiple risk factors for Parkinson's Disease: Pediatric traumatic brain injury and later-life pesticide exposure in rats. *Accepted, Society for Neuroscience*, 2008.

BOOK CHAPTERS

1. **Giza** CC and Hovda DA. Ionic and Metabolic Consequences of Concussion. In *Neurologic Athletic Head and Spine Injuries*. RC Cantu, ed. Philadelphia, PA. W. B. Saunders Company, 2000.
2. Samii A, Moore AH, **Giza** CC and Hovda DA. Contribution of Ionic Alterations to Metabolic Dysfunction Following Traumatic Brain Injury. In *Head Trauma: Basic, Preclinical and Clinical Aspects*. LP Miller and RL Hayes, eds. New York. John Wiley & Sons, Inc, 2001.

3. **Giza** CC and Hovda DA. The Pathophysiology of Traumatic Brain Injury. In Traumatic Brain Injury in Sports-An International Neuropsychological Perspective. Mark Lovell and Michael Collins, eds. Lisse, Netherlands. Swets and Zeitlinger, 2004.
4. **Giza** CC. Chapter 62 - Traumatic Brain Injury in Children. In Pediatric Neurology: Principles and Practice. 4th edition. Swaiman K, Ashwal S, Ferriero D, eds. Philadelphia, PA. Elsevier, 2006.
5. Arndt D and **Giza** CC. Post-Traumatic Seizures and Epilepsy. In Pediatric Epilepsy Case Studies: From Infancy and Childhood Through Adolescence. Chapman K, Roberts C, Rho J, eds. Elsevier, 2008.
6. **Giza** CC. Traumatic Brain Injury. In International Neurology: A Clinical Approach. Lisak RP, Truong DD, Carroll W, Bhidayasiri R, eds. Blackwell Publishing. In press, 2008.

BOOKS

1. Donnelly TJ and **Giza** CC. Differential Diagnosis Mnemonics. Philadelphia, PA. Hanley and Belfus, Inc., 2001.
2. Bhidayashiri R, Waters M and **Giza** CC. Neurological Differential Diagnosis: A Prioritized Approach. Malden, Massachusetts. Blackwell Publishing, 2005.
3. **Giza** CC. Section Editor, Central Nervous System Trauma. In International Neurology: A Clinical Approach. Lisak RP, Truong DD, Carroll W, Bhidayasiri R, eds. Blackwell Publishing. In press, 2008.

INVITED LECTURES/ PRESENTATIONS

1. "Concussion: More than a Bonk on the Head" lecture on effects of developmental traumatic brain injury for UCLA Pediatric Grand Rounds. Los Angeles, CA, January 14, 2000.
2. "Traumatic Brain Injury and Development: Reflections on Neuroplasticity" at the Inaugural University of California Neurotrauma meeting. Carmel, CA, August 2, 2000.
3. "Decreased N-Methyl D-Aspartate Receptor (NMDAR) Activity after Developmental Fluid Percussion Injury (FPI) Demonstrated by Changes in Subunit Composition" at the 5th International Neurotrauma Symposium. Garmisch-Partenkirchen, Germany, October 2, 2000.
4. "Increased N-Methyl D-Aspartate Receptor NR2A:NR2B Subunit Ratio Induced by Rearing in an Enriched Environment" at the Society for Neuroscience Meeting. New Orleans, LA, November 8, 2000.
5. "Effects of Pediatric Concussion: Gone Today, Here Tomorrow?" at Children's Hospital of Los Angeles, CA, May 22, 2001, and University of Texas Southwestern Children's Hospital, Dallas, TX, May 23, 2001, and UCLA Mattel Children's Hospital, Los Angeles, CA, September 20, 2001; pediatric neurology departmental lectures.
6. "Mechanisms of Altered Neuroplasticity Following Developmental Concussion" at the 2nd Annual University of California Neurotrauma meeting. Ojai, CA, August 8th, 2001.
7. "Traumatic Brain Injury: A Disease of Youth" at UCLA-Olive View Medical Center Pediatric Grand Rounds. Sylmar, CA. May 15, 2002.
8. "Mechanism of Injury and the Neurometabolic Cascade of Concussion" Keynote address for National Athletic Trainers Association annual meeting. Dallas, TX. June 16, 2002.
9. "Concussion in Athletes: Contributions from Basic Science Research" at the New Developments in Sport-related Concussion conference. University of Pittsburgh Medical Center, Pittsburgh, PA. July 21, 2002.
10. "Molecular Response of the Immature Brain to Traumatic Injury" at the 3rd Annual University of California Neurotrauma meeting. Napa, CA. August 8th, 2002.
11. "Injury-induced Changes in NMDA Receptor Subunit Composition Contribute to Prolonged Calcium-45 Accumulation in Intact Cortex" at the National and International Neurotrauma Symposium, Saddlebrook, FL, October 31st, 2002.
12. "Scientific Progress Goes Boink...or Bonk" at University of Pittsburgh Medical Center Children's Hospital, Pittsburgh, PA, November 22nd, 2002; Pediatric Center for Neuroscience lecture.
13. "Cerebral Palsy: Etiology and Early Diagnosis" at the 5th Annual Margaret Jones Conference on Cerebral Palsy, UCLA/Orthopedic Hospital, Los Angeles, CA, May 17th, 2003.
14. "Physiological Impact of Sports Concussion" at the Division of Sports Medicine noon conference, 200 Medical Plaza, UCLA, Los Angeles, CA, May 21st, 2003.
15. "Update on the UCLA Developmental TBI Program" at the 4th Annual University of California Neurotrauma meeting. La Jolla, CA. August 21, 2003.

16. "Modeling Sports Concussions" at the 21st annual National Neurotrauma Society Symposium, Biloxi, MS, November 6th, 2003.
17. "I need that like I need a hole in my head... A Clinician's Guide to Traumatic Brain Injury Pathophysiology" at the Association of California Neurologists / California Association of Neurological Surgeons annual meeting, Newport Beach, CA, January 17th, 2004.
18. "Because It Is There....Head and Spine Trauma in Rockclimbing and Mountaineering" at the Division of Sports Medicine noon conference, 200 Medical Plaza, UCLA, Los Angeles, CA, January 21st, 2004.
19. "Dysfunction without Death: Developmental Brain Injury, Vulnerability and Plasticity" at the UCLA Brain Injury Research Center meeting, UCLA, Los Angeles, CA, March 3rd, 2004.
20. "Sports Concussion Pathophysiology" at the New Developments in Sport-related Concussion conference. University of Pittsburgh Medical Center, Pittsburgh, PA, July 17, 2004.
21. "A Clinician's Guide to the Basic Science of Traumatic Brain Injury" at the Pediatric Critical Care Research Conference, Mattel Children's Hospital at UCLA, Los Angeles, CA, August 25, 2004.
22. "When Does a Head Injury Become a Brain Injury?" at the Pediatric Neurosurgery Symposium: Bridging the Gap Between Clinicians and Surgeons, Los Angeles, CA, September 18, 2004.
23. "Timing of Environmental Enrichment is Critical for Recovery after Traumatic Brain Injury in the Developing Rat" at the 33rd Annual Meeting of the Child Neurology Society, Ottawa, Ontario, Canada, October 15, 2004.
24. "Dysfunction without Death: Traumatic Brain Injury, Development, Experience and Plasticity" at the Neural Repair Group meeting, Gonda Neuroscience Building, UCLA, Los Angeles, CA, November 19, 2004.
25. "Gone Today, Here Tomorrow: Lasting Effects of Pediatric Traumatic Brain Injury" at Neuroscience Grand Rounds, David Geffen School of Medicine at UCLA, Los Angeles, CA. April 6, 2005.
26. "Because It Is There: Head Injury in the Outdoors" lecture covering basic physiology, prehospital and acute management of TBI, and climbing TBI database project, for the Yosemite Search and Rescue (YOSAR) team and the Yosemite medical clinic, Yosemite National Park, CA. June 27th, 2005.
27. "I need that like I need a hole in my head... A Clinician's Guide to Traumatic Brain Injury Pathophysiology", P. S. Ramani Oration, 14th Annual Meeting of the Indian Neurotrauma Society, Kolkata (Calcutta), India. August 19th, 2005.
28. "Better Never Than Late: Lasting Effects of Pediatric Traumatic Brain Injury" guest lecture at the 14th Annual Meeting of the Indian Neurotrauma Society, Kolkata (Calcutta), India. August 20th, 2005.
29. "Is Being Plastic Fantastic? Impaired Activation and Neuroplasticity Following Developmental Traumatic Brain Injury" at Neuroscience/Neurology Grand Rounds, University of Kentucky Medical School, Lexington, KY. October 20, 2005.
30. "Are the Lights on but Nobody Home? Impaired Brain Activation and the Timing of Intervention following Pediatric TBI" at the 3rd Annual Pediatric Brain Injury Conference, University of Miami, Miami Beach, FL. November 4th, 2005.
31. "Is Being Younger Better? Glutamatergic Responses to Pediatric Traumatic Brain Injury" at the Basic Science Lecture, Harbor-UCLA Medical Center, Torrance, CA. January 24, 2006.
32. "Pediatric Traumatic Brain Injury: A Silent Epidemic" at Pediatric Grand Rounds, Olive View-UCLA Medical Center, Sylmar, CA. February 8, 2006.
33. "Pediatric Traumatic Brain Injury: The Most Complex Injury to the Most Complex Organ" at Neurology Grand Rounds, Cedars-Sinai Medical Center, Beverly Hills, CA. March 22, 2006.
34. "Sports Concussion: The Impact of Neural Dysfunction" Plenary Lecture at the International Neurotrauma Symposium, Rotterdam, The Netherlands. May 22, 2006.
35. "Fluid percussion injury and post-injury environment affect NMDA receptor subunit composition in the immature rat" platform presentation at the International Neurotrauma Symposium, Rotterdam, The Netherlands. May 22, 2006.
36. "Pediatric Traumatic Brain Injury Clinic: Caring for Forgotten Children" at the 7th annual University of California Neurotrauma meeting, Carmel, CA. August 4th, 2006.
37. "Glutamate: A Two-Edged Sword for Pediatric Traumatic Brain Injury" at the UCLA Brain Injury Research Center meeting, UCLA, Los Angeles, CA, October 11, 2006.
38. "Glutamate as Janus: The Two Faces of Neural Activation after Pediatric Traumatic Brain Injury" at Neurosurgery/Neuroscience Grand Rounds, UCD, Davis, CA, January 9, 2007.
39. "Understanding the Clinical Implications of Traumatic Brain Injury Pathophysiology" at Neuroscience Grand Rounds, Barrow Neurological Institute, Phoenix, AZ. February 2, 2007.
40. "Is Younger Better? Basic Mechanisms of Recovery After Pediatric Traumatic Brain Injury" at Pediatric Neurology Grand Rounds, Barrow Neurological Institute, Phoenix, AZ. February 5, 2007.

41. "Pediatric Traumatic Brain Injury: A Silent Epidemic" at Pediatric Neurology Conference, Chulalongkorn University Hospital, Bangkok, Thailand. April 3, 2007.
42. "Clinical Management of Traumatic Brain Injury: From Herniation to Concussion" at the International Update in Clinical Neurosciences, Vivekananda Institute of Medical Sciences (VIMS), Kolkata, India. April 5, 2007.
43. "Evaluation and Treatment of Pediatric Seizures" at the International Update in Clinical Neurosciences, Vivekananda Institute of Medical Sciences (VIMS), Kolkata, India. April 7, 2007.
44. "A Systematic Approach to Developmental Delay in Childhood" at the International Update in Clinical Neurosciences, Vivekananda Institute of Medical Sciences (VIMS), Kolkata, India. April 7, 2007.
45. "The Pathobiology of Concussion" at the National Concussion Summit, Sports Concussion Institute, Marina del Rey, CA. April 20, 2007.
46. "The Translational Science of Concussion" at the World Boxing Council 2nd Medical Congress, Cancun, Mexico. April 25, 2007.
47. "Not Enough of a Good Thing: Impaired Neural Activation after Pediatric Traumatic Brain Injury", as Visiting Professor, Pepperdine University, Malibu, CA. June 15, 2007.
48. "Pathophysiology of Concussion: On Solid Ground or Hanging by a Thread", at the National Athletic Trainer's Association Annual Meeting, Anaheim, CA. June 29, 2007.
49. "Glutamate: A Two-Edged Sword for Pediatric Traumatic Brain Injury" at Neurosurgery Grand Rounds, Dartmouth Hitchcock Medical Center, Hanover, NH, October 10th, 2007.
50. "Not Lost in Translation: Impaired Neural Activation and Recovery of Function after Pediatric Brain Injury" at the Pediatric Translational Research Group lecture, UCLA, Los Angeles, CA, October 15th, 2007.
51. "Clinical Trials in Pediatric TBI" – Discussant at the New Frontiers in Pediatric TBI meeting, San Diego, CA. November 9th, 2007.
52. "Pathobiology of Concussion: Are the Lights On But No One Home?" at the Interdisciplinary Symposium on Cervical Spine Trauma, Southern California University of Health Sciences, Whittier, CA. February 23, 2008.
53. "Because It Is There: Head Trauma in Rockclimbing and Mountaineering" at the 4th International Meeting on Mild Traumatic Brain Injury in Sports. San Moritz, Switzerland. March 11, 2008.
54. "Found In Translation: Impaired Neural Activation and Recovery from Pediatric Brain Injury" at the 4th International Meeting on Mild Traumatic Brain Injury in Sports. San Moritz, Switzerland. March 14, 2008.
55. "Pathobiology of Concussion: The Impact of Neural Dysfunction" at the Rendezvous II meeting; 17th Annual Meeting of the American Medical Society for Sports Medicine. Las Vegas, NV. March 25, 2008.
56. "Management of Pediatric Sports Concussions: Head bumps, Dings and Hard Knocks", at Kaiser Permanente Pediatric Morning Conference. Panorama City, CA. May 6, 2008.
57. "Heads Up! Assessment and Management of Concussions in Pediatrics" at the Clinical Issues in Pediatrics Symposium. San Francisco, CA. October 30, 2008.
58. "A Pediatrician's Primer on Seizures and Epilepsy" at the Clinical Issues in Pediatrics Symposium. San Francisco, CA. October 31, 2008.
59. "It's Not a Tumor: Headaches in Children and Adolescents" at the Clinical Issues in Pediatrics Symposium. San Francisco, CA. October 31, 2008.
60. "Are the Lights On But Nobody Home? Impaired Neural Activation During Recovery from Pediatric TBI" at the Child Neurology Society 37th Annual Meeting. Santa Clara, CA. November 8, 2008.

TEACHING

Housestaff

Neurosurgery housestaff mentored (with dates mentored and current positions):

Igor Fineman, M.D. 1998-2000; Neurosurgical residency completed at UCLA in 2000; current position – Attending Physician, Neurosurgeon, Huntington Memorial Hospital with appointment at California Institute of Technology

T. J. Spinks, M.D. 2002-2005, Neurosurgical residency completed at UCLA in 2005; current position – Assistant Clinical Professor, University of Pittsburgh Medical Center, Pittsburgh, PA.

Kristen Upchurch, M.D. 2002-2003, in residency at UCLA.

Garni Barkhoudarian, M.D. 2007-present, in residency at UCLA.

Jason Hauptman, M.D. 2008-present, in residency and Ph.D. training at UCLA.

Neurosurgery didactic teaching

Neurosurgery Basic Science lecture, "A Resident's Guide to Developmental Physiology and Developmental Brain Injury". Neurosurgery Teaching Day, UCLA Division of Neurosurgery. January 19, 2005.

Neurosurgery Basic Science lecture, "Is Being Plastic Fantastic? Mechanisms for Post-Injury Plasticity and Recovery in the Developing Nervous System." Neurosurgery Teaching Day, UCLA Division of Neurosurgery. February 21, 2007.

Neurosurgery Basic Science lecture, "Found in Translation: Modulating Neural Activation After TBI from the Bench to the Clinic (and Back)." UCLA Division of Neurosurgery. April 16, 2008.

Pediatric Neurology housestaff mentored (with dates mentored and current positions):

Rinat Jonas, M.D.; 2001-2004; Pediatric neurology fellowship completed at UCLA in 2002; current position – Assistant Professor, Boston University School of Medicine, Boston, MA.

Gabrielle Glasser M.D.; 2002-2004; Pediatric neurology fellowship completed at UCLA in 2004; current position – Attending Physician, Kaiser Permanente, Woodland Hills, CA.

Pantea Sharifi, M.D.; 2003-2005; Pediatric neurology fellowship completed at UCLA in 2005; current position – Clinical Assistant Professor, Division of Pediatric Neurology, Mattel Children's Hospital at UCLA and Attending Physician, private practice, Palos Verdes, CA.

Peter Morrison, M.D.; 2004-2006, Pediatric neurology fellowship completed at UCLA in 2006; current position – Epilepsy Fellow, Johns Hopkins University, Baltimore, MD.

Jeff Ekstrand, M.D., Ph.D.; 2005-2007, Pediatric neurology fellowship completed at UCLA in 2007; current position – Assistant Professor, University of Utah, Salt Lake City, UT.

Sarah Copeland, M.D., Ph.D.; 2005-2007, Pediatric neurology fellowship completed at UCLA in 2007; Neuroscience postdoctoral fellowship completed at UCLA in 2008; current position – Clinical Instructor, UCLA.

Daniel Arndt, M.D.; 2003-2008, Pediatric neurology fellowship completed at UCLA in 2008; current position – Clinical Instructor, University of Colorado.

Meeryo Choe, M.D.; 2007-ongoing, in fellowship at UCLA

Shaun Hussain, M.D., M.P.H.; 2007-ongoing, in fellowship at UCLA

Melissa Przeklasa, M.D.; 2008-ongoing, in fellowship at UCLA

Daniel Shrey, M.D.; 2008-ongoing, in internship at UCLA

Pediatric housestaff mentored (with dates mentored and current positions):

Jerry Cheng, M.D., 2001-2002; Pediatrics residency completed at UCLA in 2003.

Brent Gordon, M.D.; 2001-2003; Pediatrics residency completed at UCLA in 2004; current position – Pediatric Cardiology Fellow, UCLA.

Myke Drayer-Federman, M.D. 2004-2007; Pediatric critical care fellowship completed at UCLA in 2007; current position – Assistant Professor of Pediatric Critical Care, UCLA, Los Angeles, CA.

Yu-Tsun Cheng, M.D. 2007-2008; completed pediatrics residency at UCLA in 2008; current position - sports medicine fellowship at Kaiser Permanente, Los Angeles.

Jeremy Moore, M.D. 2007-2008; in pediatric cardiology fellowship at UCLA.

Neurology housestaff mentored (with dates mentored, honors and current positions):

Michael Waters, M.D., Ph.D.; 2002-2004; Neurology residency completed, UCLA, 2004; Neurogenetics fellowship, Cedars-Sinai Medical Center, 2004-2006; Assistant Professor and Director, Stroke Program, Cedars-Sinai Medical Center, Beverly Hills, CA, 2006-2007.

Richard Bhidayasiri, M.D.; 2002-2004; completed residency at UCLA 2004; completed movement disorders fellowship, UCLA, 2004-2006; current position – Associate Professor of Neurology, Chulalongkorn Comprehensive Movement Disorders Centre Chulalongkorn University Hospital Bangkok and Visiting Professor (Movement Disorders), UCLA Department of Neurology, Los Angeles, CA.

Sarah Kremen, M.D.; 2006, UCLA Department of Neurology, Los Angeles, CA.

Edward Teng, M.D., Ph.D.; 2007-present, UCLA Department of Neurology, Los Angeles, CA. current position – Clinical Instructor of Neurology, UCLA.

- Recipient of *UCLA Alzheimer Disease Research Center (ADRC) Pilot Grant*, 2007-2008.

Navaz Karanjia, M.D. 2007-2008. UCLA Department of Neurology. Los Angeles, CA.

Pediatric and Pediatric Neurology clinical teaching

Pediatric Neurology outpatient clinic, UCLA Medical Center. Supervised and instructed pediatric and neurology residents. August 2001-present.

Pediatric Neurology inpatient and consultation service, UCLA Mattel Children's Hospital. Supervised and instructed pediatric and neurology residents and pediatric neurology fellows. September 2001-present.

Pediatrics, Critical Care and Pediatric Neurology didactic teaching

Pediatric Morning Report, UCLA Mattel Children's Hospital. Provided neurological perspective to pediatric housestaff clinical case presentations. September 2001-2004.

Pediatric Housestaff Noon Conference. "Management of Pediatric Traumatic Brain Injury" clinical lecture to pediatric interns and residents. UCLA Mattel Children's Hospital. February 20, 2002; February 6, 2004.

Pediatric Resident Conference. "Management of Pediatric Neurological Emergencies" clinical lecture to PGY2 residents. UCLA Mattel Children's Hospital. July 17, 2002; July 7, 2003; July 7, 2004; July 2, 2008.

Department of Pediatrics Journal Club. Presented basic science articles relevant to pediatrics. "Nature vs. Nurture: Determinants of Cognitive Development" October 24, 2002.

Neurology Outpatient Conference. "Sports-related Traumatic Brain Injury" clinical lecture to adult neurology residents and faculty. November 13, 2002.

Pediatric Housestaff Noon Conference. "Sports-related Head Injuries in Children and Young Adults" clinical lecture to pediatric interns and residents. UCLA Mattel Children's Hospital. March 12, 2003.

Pediatric Neurology Noon Conference. "A Clinician's Guide to Traumatic Brain Injury Pathophysiology (with special attention to kids and development). UCLA Mattel Children's Hospital. January 29, 2004.

Pediatric Neurology Noon Conference. "Pediatric Traumatic Brain Injury Update: New Horizons in 2005." UCLA Mattel Children's Hospital. April 21, 2005.

Pediatric Housestaff Noon Conference. "Cerebral Palsy: Diagnosis, Etiology and Management" clinical lecture to pediatric interns and residents. UCLA Mattel Children's Hospital. May 18, 2005.

Pediatric Housestaff Noon Conference. "Evidence-Based Guidelines for the Management of Severe Pediatric Traumatic Brain Injury" clinical lecture to pediatric interns and residents, UCLA Mattel Children's Hospital. September 6, 2005.

Pediatric Housestaff Noon Conference. "Management of Mild Pediatric Traumatic Brain Injury: Head bumps and Sports concussions" clinical lecture to pediatric interns and residents, UCLA Mattel Children's Hospital. May 8, 2006.

Pediatric Housestaff Noon Conference. "Pediatric Traumatic Brain Injury: Management and Follow-up" clinical lecture to pediatric interns and residents, UCLA Mattel Children's Hospital. January 5, 2007; September 10, 2007.

Pediatric Neurology Noon Conference. "Glutamate: A Two-Edged Sword for Pediatric Traumatic Brain Injury." March 29th, 2007. "The Pathobiology of Concussion", April 19th, 2007. Mattel Children's Hospital at UCLA.

Pediatric Critical Care Fellows Conference. "Pediatric Traumatic Brain Injury: Management and Research at the UCLA Brain Injury Research Center", July 20th, 2007. Mattel Children's Hospital at UCLA.

Pediatric Neurology Noon Conference. "Management of Pediatric Sports Concussions: Head bumps, dings and hard knocks", May 9, 2008. "Surfing the Neural Network: Recovery of Connectivity after Pediatric TBI and Developing a Translational Model", October 3, 2008. Mattel Children's Hospital at UCLA.

Medical Students

Medical Students mentored (with dates, degrees obtained and current positions):

Luigi diStefano, summer 2003; M.D. Washington University School of Medicine, 2006. current position – PGY3 Emergency Medicine residency, Stanford University.

Ben Cahan, fall 2007-present; current position – MS2 David Geffen School of Medicine at UCLA.

Mary Anne Baquing, fall 2008-present; current position – MS1 David Geffen School of Medicine at UCLA.

Medical student didactic teaching

Medical Student Core lectures in pediatric neurology: November 26, 2003; March 9, 2005; March 8, 2006; September 20, 2006; October 31, 2007.

Graduate/Postgraduate

Postdoctoral fellows mentored (with dates mentored, honors and current positions):

Takeshi Maeda, M.D., Ph.D.; 1999-2001; current position – Assistant Professor, Departments of Neurosurgery and Dentistry, Nihon University, Tokyo, Japan

Elisa Roncati-Zanier, M.D.; 2001-2002; current position – Assistant Professor, Department of Neurobiology, Mario Negri Institute, Milano, Italy

Qingxia Li, M.D., Ph.D.; 2003-2006, completed UCLA postdoctoral fellowship 2006.

Fabienne Cazalis, Ph.D.; 2004-ongoing, completed UCLA postdoctoral fellowship 2008; current position – Assistant Professor, Department of Neuroscience, Ross University School of Medicine, Dominica, and Staff Research Assistant (consultant), UCLA Department of Psychiatry and Biobehavioral Sciences.

- Recipient of *BRI/Semel Institute Neuroscience Postdoctoral Fellow Award* to attend the Society for Neuroscience annual meeting, 2007.

Talin Babikian, Ph.D; 2005-ongoing, current position – postgraduate researcher, UCLA Department of Psychiatry and Biobehavioral Sciences, Los Angeles, CA.

- Recipient of *NIH/NINDS National Research Service Award for the project: Neuroimaging and Recovery after Pediatric Traumatic Brain Injury*, F32 NS053169. Funding period 2006-2008 (2 years).
- Recipient of the UCLA Brain Injury Research Center Young Investigator Award 2007-2008.

Sarah Copeland, M.D., Ph.D; 2007-ongoing, completed postdoctoral fellowship 2008; current position – Clinical Instructor, UCLA Department of Neurosurgery, Los Angeles, CA.

Graduate student thesis committee member (with dates, honors and degrees obtained and current positions):

Cheri Osteen, 2000-2002; Ph.D. UCLA 2002; current position – Medical Writer, Amgen, Inc. Thousand Oaks, CA.

Shoshanna Vaynman, 2003-2005; Ph.D. UCLA 2005; completed postdoctoral fellowship, Department of Physiological Sciences, UCLA, with Dr. Fernando Gomez-Pinilla.

Gene Gurkoff, 2002-2006; Ph.D. UCLA 2006; current position – Postgraduate Researcher, Department of Neurosurgery, University of California, Davis, with Dr. Bruce Lyeth;

- Recipient of *National Neurotrauma Society Al Faden Award* for a top 5 student abstract, National Neurotrauma Society meeting, 2005.

Maxine Reger, 2005-ongoing, currently in 4th year of Ph.D. program in Psychology. Plan for oral proposal in 2008.

- Recipient of *Student Travel Scholarship* to attend the New Frontiers in Pediatric Traumatic Brain Injury meeting, 2007.
- Recipient of *Student Travel Scholarship* to attend National Neurotrauma Society meeting, 2008.

Naomi Santa Maria, 2006-ongoing, currently in 3rd year of Ph.D. in Biomedical Engineering, NeuroEngineering Training Program. Committee chair.

- Selected for the *Student Research Competition* (top 16 student abstracts) at the National Neurotrauma Society meeting, 2008.

David Johnston, 2007-ongoing; currently in 3rd year of Ph.D. in Neuroscience.

Robert Lemoyne, 2008-ongoing; currently in 3rd year of Ph.D. in Biomedical Engineering.

Graduate students supervised in lab (with dates, honors and degrees obtained and current positions):

Andrew Hufford, 1998-2000; M.S. UCLA 2000; current position – Lecturer, Humboldt State University, CA

Emily Ip, 2000-2003; Ph.D. UCLA 2003; current position – Senior Research Associate, Anacor Pharmaceuticals, Palo Alto, CA

Che Hutson, 2005-ongoing; currently in 6th year of Ph.D. in Neuroscience.

- Selected for the *Student Research Competition* (top 16 student abstracts) at the National Neurotrauma Society meeting, 2007.
- Recipient of *BRI/Semel Institute Neuroscience Postdoctoral Fellow Award* to attend the Society for Neuroscience annual meeting, 2007.

Gretchen Miller, 2006-ongoing; currently in 3rd year of Ph.D. in Neuroscience.

Kim Hathaway, 2007-ongoing; currently in 2nd year of Ph.D. in Neuroscience.

Special graduate student mentoring:

Ashley DiBattista, 2008; York University, M.S, 2008. Visiting graduate student as part of special award.

- Recipient of the *Women in Neurotrauma VISA Award* for a foreign graduate student to attend the National Neurotrauma Society annual meeting and then visit the institution and mentor of their choice for a 2 week rotation.

Graduate student didactic teaching

Psychology 298: Brain Injury and Recovery of Function. “Is a Younger Brain a Better Brain?” lecture on effects of age-at-injury for UCLA graduate course, May 16, 2000.

Physiological Science 241: Substrates for Neural Repair. “Injury to the Developing Brain” lecture for UCLA graduate course. February 20 and 27, 2002; February 19, 2003.

Physiological Science 241: Substrates for Neural Repair. "Pathophysiology of Traumatic Brain Injury" lecture for UCLA graduate course. February 26, 2003.

Physiological Science 241: Substrates for Neural Repair. "Is a Younger Brain a Better Brain?" lecture for UCLA graduate course. February 25 and March 3, 2004; February 7, 2005.

Physiological Science 241: Substrates for Neural Repair. "Glutamate and Development: Good or Bad?" lecture for UCLA graduate course. February 6, 2006.

NeuroEngineering Journal Club. Brainstorming session: Development of technologies for real-time chemical sensing in the injured brain. February 1, 2007.

Psychology Journal Club: Fear conditioning following Traumatic Brain Injury, presented by Maxine Reger. February 7, 2007.

Physiological Science 241: Substrates for Neural Repair. "Is Being Plastic Fantastic? Mechanisms of Altered Plasticity Following Developmental Traumatic Brain Injury." lecture for UCLA graduate course. February 21, 2007; February 20, 2008.

Neuroscience 210C: Journal Reading and Scientific Review. 10 week course teaching critical reading of scientific articles and studies. Wide ranging topics, from historical papers to clinical research to issues in scientific/biomedical ethics (16 students).

Undergraduate/Postbaccalaureate

Undergraduate students mentored (with dates, honors and degrees obtained and current positions):

Brian Nahed, 1998-2000; B.S. UCLA 2000; M.D. Yale University, 2005; current position – Neurosurgery residency, Massachusetts General Hospital 2005-2011.

Angela Echiverri, 1999-2000; B.S. UCLA 2000; M.P.H. Johns Hopkins University 2005; current position – MS1 University of California, San Francisco, School of Medicine, 2008-2012.

Alana Lozada, 1999-2001; lab technician; B.S.N. UCSD 2006; current position - nursing M.S. program, UCSD 2007-2008.

Niloofar Farmani, 2000-2001; B.S. UCLA 2001; M.D. St. George's University School of Medicine, Grenada, 2006; current position – Pediatrics residency, New York City, 2007-2010.

Tad Kremen, 1999-2001; B.S. UCSB 1999; lab technician UCLA 1999-2002; M.D. UCLA 2006; current position – Orthopedic Surgery residency, UCLA 2006-2010.

Jenny Hoffman, 2000-2002; B.S. UCLA 2002; M.D. UCSD 2007.

Naomi Santa Maria, 2002-2006; B.A. University of Pennsylvania 2005; current position – graduate student UCLA Neuroengineering Training (NET) Ph.D. Program.

Maxine Reger, 2003-2005; B.A. Cal State Fullerton 2003; Volunteer Lab Assistant, UCLA Neurotrauma Lab 2003-2005; current position – graduate student UCLA Ph.D. program in Psychology.

Jane So-youn Lee, 2004-2005; B.S. UCLA 2005; current position – Medical Student; University of California, Irvine School of Medicine, Irvine, CA, 2006-2010.

- Recipient of *UCLA Undergraduate Research Scholarship* 2004-2005 for undergraduate thesis work

Michaelann Ferraro, Summer 2005; B.A. Georgetown University 2007.

Julia Breault, 2005-2007; B.S. UC Berkeley; current position – MS1, Ross University School of Medicine, Dominica, 2008-2011.

Mary Anne Baquing, 2005-ongoing, B.S. UCLA 2007; Lab Assistant, UCLA Neurotrauma Lab 2007-8; current position – University of California, Los Angeles School of Medicine, 2008-2012.

- Recipient of *UCLA Undergraduate Research Fellows Program (URFP) Scholarship* for research work, winter-spring 2007.

Nick Covard, 2007; B.S. UCLA 2007; current position – Marine Biology researcher.

Farrah Vali, 2007-ongoing, currently undergraduate at UCLA, anticipated graduation 2009.

David Garfinkel, 2007-ongoing, currently undergraduate at UCLA, anticipated graduation 2009.

Hannah Valino, 2007-ongoing, currently undergraduate at UCLA, anticipated graduation 2010.

David Okikawa, 2008-ongoing, currently undergraduate at UCLA, anticipated graduation 2010.

Undergraduate research teaching

Student Research Project 99: Winter 2000-present. Supervised and mentored undergraduate students in basic science research (7 students – Nahed, Echiverri, Farmani, Hoffman, Lee, Baquing, Vali).

Independent Research 199: Winter 2000-present. Supervised and mentored undergraduate students in independent basic science research and writing of a thesis (3 students – Farmani, Lee, Baquing).

Undergraduate didactic teaching

Physiological Science 144: Neural Control of Physiological Systems. "A Nauseous Nocturne: Sleep and Dreaming" lecture on sleep physiology for combined UCLA undergraduate and graduate course. November 2001; 2002; 2003; 2004; 2005; 2006, 2007.

Psychology 372: Biological Psychology. "Acquired Brain Injury - Tumors, Stroke, Seizures, Trauma: How the Brain is Hurt" undergraduate lecture. Pepperdine University, Malibu, CA. October 2004; 2005; November 2006; 2007; 2008; February 2008.

PROFESSIONAL ACTIVITIES/ORGANIZATIONS

Alpha Omega Alpha Medical Honor Society 1988-present.
Child Neurology Society. 1994-present.
American Academy of Neurology. 1994-present.
National Neurotrauma Society. 1998-present.
Society for Neuroscience. 1999-present.
International Society for Cerebral Blood Flow and Metabolism. 1999-present.
Wilderness Medical Society. 2001-present.
American Alpine Club. 2002-present.

Ad hoc journal reviewer: *Brain* (2008), *Developmental Neuroscience* (2003, 2006), *Experimental Neurology* (2007), *Journal of Neurotrauma* (2006, 2007, 2008), *Journal of Neurosurgery* (2007), *Journal of Cerebral Blood Flow and Metabolism* (2001), *Journal of Neurochemistry* (2007), *Neurobiology of Disease* (2005), *Neurosurgery* (2007, 2008), *Pediatric Neurology* (2007, 2008), *Pediatric Research* (2004), *Psychiatric Times* (2000), *Surgical Neurology* (2004, 2007)

Completed activities

Co-chair and organizer. Session on Cerebral Development and Traumatic Brain Injury.

- 3rd Annual UC Neurotrauma meeting, August 8th, 2002, Silverado, CA.
- 4th Annual UC Neurotrauma meeting, August 21st, 2003, La Jolla, CA
- 5th Annual UC Neurotrauma meeting, August 20th, 2004, Carmel, CA.
- 6th Annual UC Neurotrauma meeting, August 10th, 2005, Ojai, CA.
- 7th Annual UC Neurotrauma meeting, August 4th, 2006, Carmel, CA.

Co-organizer. Organized scientific program and guest speakers for entire UC Neurotrauma meeting.

- 8th Annual UC Neurotrauma meeting, September 23-25th, 2007, Santa Barbara, CA.
- 9th Annual UC Neurotrauma meeting, June 23-25th, 2008. Carmel, CA.

Grant Reviewer. University of North Carolina Injury Prevention Research Center (1 proposal), 2003.

Judge. Student Poster Competition. 21st Annual National Neurotrauma Society Meeting, Biloxi, MS. November 6-7th 2003.

Abstract Reviewer. 23rd Annual National Neurotrauma Society Meeting, rated and selected abstracts for presentation, 2005.

Co-chair. Session on Mild Traumatic Brain Injury. 14th Annual Meeting of the Indian Neurotrauma Society, Kolkata (Calcutta), India. August 19th, 2005.

Panel Member, Medical Decision Making: An Interactive Session with Parents and Professionals at the 3rd Annual Pediatric Brain Injury Conference, Miller School of Medicine, University of Miami, Miami, FL. November 5th, 2005.

Judge. Student Poster Competition. 23rd Annual National Neurotrauma Society Meeting, Washington, DC. November 10-11th 2005.

Grant Reviewer. Netherlands Organization for Scientific Research (NWO), Earth and Life Sciences (ALW) Open Program, Den Haag, The Netherlands, (1 proposal) 2006.

Grant Reviewer. Citizens United for Research in Epilepsy (CURE), American Institute of Biological Sciences (AIBS), US Army Medical Research and Materiel Command (USAMRMC), Reston, VA, (2 proposals) 2007.

Panel Member, Ask the Experts Roundtable, Understanding Sports-Related Concussion: Are We Headed in the Right Direction? at the National Athletic Trainers Association annual meeting, June 29th, 2007, Anaheim, CA.

Grant Reviewer. Department of Defense Concept Awards. American Institute of Biological Sciences (AIBS), US Army Medical Research and Materiel Command (USAMRMC), Reston, VA, (8 proposals) 2007.

Grant Reviewer. University of Kansas Lied Endowed Basic Science Pilot Research Fund, KU Medical Center Research Institute, (2 proposals) 2008.

Scientific Planning Committee. 4th International Meeting on Mild Traumatic Brain Injury in Sports. San Moritz, Switzerland. March 10-15, 2008. Co-chair – session on Assessment of mild TBI and session on Pediatric Aspects of mild TBI.

Mentor. Women in Neurotrauma Research (WINTR) Annual Mentoring Session at Annual National Neurotrauma Society Meetings, St. Louis, MO, July 8, 2006. Kansas City, MO, July 2, 2007. Orlando, FL, July 29, 2008.

Co-chair. Session titled “Pathophysiology of Pediatric Traumatic Brain Injury”. 26th Annual National Neurotrauma Society meeting, Orlando, FL. July 29, 2008.

Moderator. Session on ICU management and monitoring at the Pediatric Neurocritical Care Investigator’s meeting, Chicago, IL, September 26-28, 2008.

Organizer/moderator. Session titled “Traumatic Brain Injury: Advances in Management and Emerging Treatment Options” at the Child Neurology Society 37th Annual Meeting. Santa Clara, CA. November 8, 2008.

Ongoing activities

Chair. Local Scientific Advisory Committee, February 23, 2007-present and Secretariat, October, 2008- present. International Neurotrauma Society, National Neurotrauma Society and the University of California (UC) Neurotrauma Combined Meeting – Neurotrauma 2009, scheduled for Santa Barbara, CA; planned for September 7-11, 2009.

Member. Data Safety Monitoring Board, October 28, 2008-present, A Study of Intrathecal Enzyme Replacement Therapy for Spinal Cord Compression in Mucopolysaccharidosis I and An Extension Study of Intrathecal Enzyme Replacement Therapy for Spinal Cord Compression in Mucopolysaccharidosis I. Principal investigator: Patricia Dickson, MD, Los Angeles Biomedical Institute at Harbor-UCLA Medical Center, Revised: 09-18-2008.

COMMUNITY/UNIVERSITY SERVICE

Completed service

“ICU Management of Traumatic Brain Injury” lecture for nursing staff at Northridge Hospital Medical Center, Roscoe Campus. March 24, 1999.

Symposium in Emergency Medicine Conference: “Secondary Insults following Traumatic Brain Injury” lecture to emergency room personnel and paramedics. April 18, 2001.

“What’s up with Stereology?” lecture for researchers from multiple laboratories. UCLA Brain Research Institute. August 28, 2001.

“It was Just a Bump on the Head” lecture to social workers at Orange County Social Services Agency. Orange, CA. November 6, 2001.

Sagebrush Medical Clinic, Attending Physician, Pediatric Neurology. Bakersfield, Kern County, CA. 2001-2004.

Grant Reviewer, UCLA Brain Injury Research Center, University of California Neurotrauma grant program, 2003.

Reviewer, Health Tips for Parents mailing, “How do I evaluate a head injury?”, Mattel Children’s Hospital at UCLA, January 2004.

Commissioner, appointed by Governor Arnold Schwarzenegger and approved by California State Legislature to California State Athletic Commission, which oversees boxing and contact martial arts competitions in the state of California. June 6, 2005-June 30, 2006.

Panel Member, Pediatric Palliative Care Program, 1st Comfort Care Panel. Department of Pediatrics, Mattel Children’s Hospital at UCLA. February 22, 2006; March 8, 2006.

Board Member, California Athletic Commission Program (ACP) appointed by Director Charlene Zettel, California Department of Consumer Affairs, which serves as the transition program for duties previously served by the California State Athletic Commission. July 19, 2006-December 31, 2006.

Member, Internet and Website Development Committee, Division of Neurosurgery, Geffen School of Medicine at UCLA, 2005-2007.

“Experience-Dependent Plasticity: You Are Your Environment” informative lecture about the importance of environment and consequences of changing animal housing conditions to investigators, veterinarians and laypersons at the UCLA Animal Research Committee meeting. Los Angeles, CA. October 20, 2008.

Continuing service

Olive View – UCLA Medical Center Clinic, Attending Physician, Pediatric Neurology. Sylmar, CA. 2002-present.
ThinkFirst-National Injury Prevention Foundation, UCLA chapter, physician sponsor. 2002-present.
Organizer, Neurotrauma Journal Club, monthly meetings. February, 2002-present.
Organizer, Pediatric/Developmental Brain Injury Research Group weekly meetings. Basic science meetings January, 2002-present; Clinical pediatric brain injury meetings December, 2003-present.
Resident Research Committee, Division of Neurosurgery, UCLA School of Medicine, 2003-present.
Research Space Committee, Brain Injury Research Center, Division of Neurosurgery, Geffen School of Medicine at UCLA, 2004-present.

Civilian Emergency Response Team (CERT), Culver City; training completed March 12, 2005; active member March 2005-present. Participant in city-wide disaster drills, 2006, 2007.

Contributor, “Heads Up: Brain Injury in Your Practice”, Centers for Disease Control CD-ROM educational tool kit, available to all physicians free of charge. Contribution: Journal article – Giza CC and Hovda DA, The Neurometabolic Cascade of Concussion, *J Athletic Training*, 2001.

Commissioner, re-appointed by Governor Arnold Schwarzenegger to California State Athletic Commission, which oversees boxing and contact martial arts competitions and the health and safety of these athletes in the state of California. May, 2007-present.

Chairman, Advisory Committee on Medical, Health and Safety Standards, California Athletic Commission Program (ACP) appointed by ACP Chief Armando Garcia on August 24, 2006 and later confirmed by the California State Athletic Commission on August 6, 2007.

Physician Liability and Malpractice subcommittee, California State Athletic Commission appointed by CSAC Chair June Griffith-Collison. August 6, 2007-present.

Doping and Drugs of Abuse subcommittee, California State Athletic Commission appointed by CSAC Chair Tim Noonan. February 5, 2008-present.

Board Member, American Association of Multi-Sensory Environments (AAMSE). National organization to promote awareness, access, education, research, and science for people who would benefit from Multi Sensory Environments (MSE). November 24, 2006-present.

Co-chair, Research Committee, American Association of Multi-Sensory Environments. 2007-present.

Board Member, Sarah Jane Foundation / The Brain Project. National parent-driven organization to promote awareness, educate the public and establish public policy to provide resources and care for children who have experienced acquired / traumatic brain injuries. October 29, 2008-present.