

*Curriculum vitae*

**Date Prepared:** 2/6/2015  
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**Place of Birth:** Anchorage, Alaska

**Education**

Year	Degree (Honors)	Field of Study (Thesis advisor for PhDs)	Institution
1988-1993	B.S.	Molecular Biology	San Jose State University
1993-1997	M.D. with Thesis	Medicine	University of California, San Francisco

**Postdoctoral Training**

Year(s)	Titles	Specialty/Discipline (Lab PI for postdoc research)	Institution
1997-2000	Resident	Pediatrics	University of California, San Francisco
2002-2005	Fellow	Pediatric Critical Care	University of Texas Southwestern Medical Center

**Current Licensure and Certification**

Licensure

Texas Medical Board

Board and Other Certification

American Board of Pediatrics, Board, General Pediatrics, 10/2000 – 12/2019  
American Board of Pediatrics, Board, Pediatric Critical Care, 8/2006 - 12/2019

**Honors and Awards**

Year	Name of Honor/Award	Awarding Organization
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1995	Lowell Glasgow Award	Western Society of Pediatric Research
1996	Deans Prize for Research	University of California, San Francisco

### **Faculty Academic Appointments**

Year(s)	Academic Title	Department	Academic Institution
2000-2002	Associate Instructor	Pediatrics	University of California, San Francisco
2005-2008	Instructor	Pediatrics	University of Texas Southwestern Medical Center

### **Current**

2008-Present	Assistant Professor	Pediatric Critical Care	University of Texas Southwestern Medical Center
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### **Appointments at Hospitals/Affiliated Institutions**

<u>Past</u>			
Year(s)	Position Title	Department/Division	Institution
2000-2002	Staff Physician	Pediatric Hospitalist Program	Marin General Hospital
2000-2002	Staff Physician	San Francisco Neonatology Medical Group	Mills Peninsula Hospital

### **Other Professional Positions**

Year(s)	Position Title	Institution
2006-2008	Research Fellow, Department of Developmental Biology	University of Texas Southwestern Medical Center
2012-Present	Secondary Faculty, Neurocritical Care Division	Parkland Memorial Hospital

### **Major Administrative/Leadership Positions**

Year(s)	Position Title	Institution
2009-Present	PICU Physician Champion, Central Line Blood Stream Infection Reduction	Children's Medical Center Dallas

### **Committee Service**

Year(s)	Name of Committee	Institution/Organization
<u>UTSW</u>		
2010	Chair, Fellow Scholarship Oversight Committee	Kyle Lieppman
2011	Fellow Scholarship Oversight Committee	Ashraf Resheidat
2014	Chair, Fellow Scholarship Oversight Committee	Robyn Puente
2015	Chair, Fellow Scholarship Oversight Committee	Amy Lee

<u>National/International</u>		
2014	Steering Committee, Approaches and Decisions in Pediatric TBI	Pediatric Neurocritical Care Research Group

**Professional Societies**

Dates	Society Name, member	
2008-2014	Perot Center for Brain and Nerve Injury, member	
2009-Present	Pediatric Neurocritical Care Research Group, member	

**Editorial Activities**

Year(s)	Journal Name	
<u>Ad Hoc Reviewer</u>		
2010	BMC Medical Research Journal	
2011	Journal of Pediatric Research	
2012	Journal of Experimental Neurology	
2012	Journal of Pediatric Critical Care	
2013	Journal of Pediatric Nephrology	

**Grant Support**

<u>Past</u>	<i>Grantor:</i> Children’s Medical Center Clinical Research Advisory Committee	
2006-2008	<i>Title of Project:</i> Transplanted Adult Neural Stem Cell Contributions to Brain Remodeling after Traumatic Brain Injury in Mice	
	<i>Role:</i> Principal Investigator	
	<i>Total Award:</i> \$15,000	

**Clinical Trials Activities**

<u>Present</u>	<i>Grantor:</i> National Institute of Neurologic Disorders and Stroke	
2014-Present	<i>Title of Project:</i> Approaches and Decisions in Pediatric Traumatic Brain Injury	
	<i>Role:</i> Site Principal Investigator	
2008-Present	<i>Grantor:</i> Perot Center for Brain and Nerve Injury	
	<i>Title of Project:</i> Genetic Factors in Outcome From Traumatic Brain Injury	
	<i>Role:</i> Principal Investigator	

**Teaching Activities**

Year(s)	Activity	
<u>Medical and graduate school didactic and small group teaching</u>		
2013	PICU Fellow Didactic Conference - Traumatic Brain Injury	

2013-Present	Monthly Neurocritical Care Conference, Director
2014	PICU Fellow Didactic Conference - Seizures, Neurologic Monitoring and ICP Therapy
2015	PICU Fellow Didactic Conference - Cerebral Resuscitation After Cardiac Arrest
2015	Solutions for Patient Safety-Building HAC Responsibility- CLABSI Focused Webinar
<u>Medical student rotations</u>	
2009	Mentor, UTSW Medical Student Summer Research Program, Emily Smitherman
2010	Mentor, UTSW Medical Student Summer Research Program, Nicci Owusu-Brackett
2010	Mentor, UTSW Medical Student Summer Research Program, Xiao Shen
2012	Mentor, UTSW Medical Student Summer Research Program, Karen Wong
2014	Mentor, Ellen Cohn, WASU Summer Student Research Trainee
2015	Mentor, UTSW Medical Student Summer Research Program, Claire Usala
<u>Postgraduate medical education (graduate &amp; continuing medical education)</u>	
2010-Present	PICU Resident Lecture Series – Pediatric Stroke, Clinical and PICU Considerations

### **Invited Lectures**

Year(s)	Title	Location
<u>National</u>		
2006	Annual Brain and Nerve Injury Center Conference: CNS Remodeling after Ischemic Injury	Dallas, TX
<u>Regional/Local</u>		
2010	Trauma Grand Rounds: Neurocognitive Outcome After Traumatic Brain Injury in Children	Dallas, TX
2010	Neurosurgery Grand Rounds: Predicting Outcome After Pediatric TBI using Quantitative MRI Volume Analysis	Dallas, TX
2011	Children’s Legacy Lecture Series: Neuroimaging and Neurocognitive Outcome After Traumatic Brain Injury in Children	Plano, TX
2013	Trauma Grand Rounds: Anatomy of Motor Vehicle Crashed in Head Injured Children	Dallas, TX

### **Service to the Community**

Year(s)	Role	Organization or institution
2010	Fundraising Chair	Dallas Heart Ball

### **Bibliography**

### **Peer-Reviewed Publications**

Original Research Articles

1.	Chen Y*, <u>Miles DK*</u> , Hoang T, Shi J, Hurlock E, Kernie SG, Lu QR. The basic helix-loop-helix transcription factor olig2 is critical for reactive astrocyte proliferation after cortical injury. <i>J Neuroscience</i> . 2008 Oct 22;28(43):10983-9. *co-first authors
2.	<u>Miles D.K.</u> , Orr B.A., Kernie S.G. Hypoxic-ischemic brain injury activates early hippocampal stem/progenitor cells to replace vulnerable neuroblasts. <i>Hippocampus</i> . 2008;18(8):793-806.
3.	Koch J.D., <u>Miles D.K.</u> , Gilley J.A., Yang C., Kernie S.G. Brief exposure to hyperoxia depletes the glial progenitor pool and impairs functional recovery following hypoxic-ischemic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> . 2008 Jul;28(7):1294-306
4.	Shi J., <u>Miles D.K.</u> , Orr B.A., Massa S.A., Kernie S.G. Injury induced neurogenesis in Bax-deficient mice: evidence for regulation by voltage-gated potassium channels. <i>European Journal of Neuroscience</i> . 2007 Jun;25(12):3499-512.
5.	<u>Miles D.K.</u> , Freedman M.H., Stephens K., Pallavicini M., Sievers E.L., Weaver M., Grunberger T., Thompson P., Shannon K.M. (1996) Patterns of Hematopoietic Lineage involvement in children with Neurofibromatosis, Type I and malignant myeloid disorders. <i>Blood</i> . 1996 Dec 1;88(11):4314-20.

Reviews, Chapters, Monographs and Editorials

1.	<u>Miles D.K.</u> , Kernie S.G. (2006) Activation of neural stem and progenitor cells after brain injury. <i>Progress in Brain Research</i> . 2006;157:187-197. Review
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Clinical Practice Guidelines

1.	Guidelines for the Management of Congenital Diaphragmatic Hernia, CMCD
2.	PICU/Neurology Guidelines for Continuous Bedside EEG Monitoring, CMCD
3.	Guidelines for Severe Traumatic Brain Injury Traumatic Brain in Children, CMCD
4.	Guidelines for the Management of Status Epilepticus
5.	Guidelines for Temperature Control in Neurologic Critical Care Patients, CMCD

**Non-peer reviewed scientific or medical publications/materials in print or other media**

1.	<u>Miles D.K.</u> , MD With Thesis Dissertation: (1997) Allelic loss at the NF1 locus and lineage involvement in children with Neurofibromatosis (NF1) and malignant myeloid disorders. Vi, 39 leaves: ill.; cm.
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