

CURRICULUM VITAE

NAME: Smith, Jodi L.

EDUCATION:

UNDERGRADUATE: Weber State College – Ogden, UT
B.S. (Summa cum Laude) – Zoology/Chemistry
1979-1983

GRADUATE: University of Utah School of Medicine – Salt Lake City, UT
Ph.D. – Department of Anatomy
1983-1988

DOCTORAL DISSERTATION: “Role of Neuroepithelial Cell
Wedging in Bending of the Chick Neural Plate”

University of Utah School of Medicine – Salt Lake City, UT
M.D. (A.O.A., 1992)
1989-1993 (graduated #1 in class of 108 students)

POSTDOCTORAL: University of Utah School of Medicine - Salt Lake City, UT
Postdoctoral Fellowship – Department of Anatomy
1988-1989

University of Utah School of Medicine - Salt Lake City, UT
Internship - Department of Surgery
1993-1994

University of Utah School of Medicine - Salt Lake City, UT
Residency - Department of Neurosurgery
1994-1999

Children’s Hospital/Harvard Medical School – Boston, MA
Shillito Fellow - Pediatric Neurosurgery
1999-2000

ACADEMIC APPOINTMENTS:

Visiting Professor
Department of Surgery – Division of Neurological Surgery
Indiana University School of Medicine – Indianapolis, IN
7/1/2000 – 11/15/2001

Assistant Professor
Department of Neurological Surgery

Indiana University School of Medicine – Indianapolis, IN
11/16/2001 – 2006
Associate Professor
Department of Neurological Surgery
Indiana University School of Medicine – Indianapolis, IN
2007 - present

HOSPITAL APPOINTMENTS:

James Whitcomb Riley Hospital for Children – Indianapolis, IN
7/1/2000 – present

Indiana University Hospital – Indianapolis, IN
7/1/2000 – present

Wishard Memorial Hospital – Indianapolis, IN
7/1/2000 – present

OTHER APPOINTMENTS AND PROFESSIONAL CONSULTANTSHIPS:

None

SPECIALTY BOARD STATUS:

Board Certified – American Board of Neurological Surgery: 5/20/2004 – 12/31/2014

Board Certified – American Board of Pediatric Neurological Surgery: 4/21/2006 –
12/31/2016

LICENSURE AND CERTIFICATION:

UT: Physician and Surgeon - full, unrestricted 277380-1205
1994-present

MA: Physician and Surgeon - full, unrestricted 160489
1999-2002

IN: Physician and Surgeon - full, unrestricted 01052779A
2000-present

PROFESSIONAL ORGANIZATIONS:

American Association of Anatomists	1984-present
Society for Neuroscience	1984-present
British Brain Research Association	1984-present
International Brain Research Organization	1984-present
World Federation of Neuroscientists	1984-present
Alpha Omega Alpha Honor Medical Society	1992-present
American Medical Association	1993-present
Indianapolis Neurosurgical Society	2000-present
American Association of Neurological Surgeons (AANS)	2001-present
Congress of Neurological Surgeons (CNS)	2001-present
Indiana State Medical Association	2002-present
Indianapolis Medical Society	2002-present
Women in Neurosurgery	2002-present
AANS Pediatric Section	2003-present
Indiana State Neurosurgical Society	2005-present
American Society of Pediatric Neurological Surgery (ASPN)	2008-present
Collegium Aesculapium	2008-present
Spina Bifida Association of Central Indiana (SBACI)	2007-present

HONORS AND AWARDS:

PRIOR TO APPOINTMENT:

1979-1983	Athletic Scholarship – WSC, Softball (NCAA Division I, full-ride)
1979-1980	National Dean's List
1981-1982	National Dean's List
1980-1983	Weber State College Scholastic Society
1981-1982	Who's Who among Students in American Universities and Colleges
1981-1983	Alpha Epsilon Delta Premedical Fraternity
1982-1983	Phi Kappa Phi Honor Society
1983	All-Conference Scholar Athlete
1983	WSC Dean's Award for outstanding scholastic achievement
1983	WSC Zoology Department Award for outstanding academic achievement
1983	WSC Athletic Department, Outstanding Female Scholar Athlete
1984	Outstanding Young Women of America
1983-1988	University of Utah Departmental Fellowship - Anatomy Department
1985-87	University of Utah Graduate Research Fellowship
1988-89	Postdoctoral Research Fellowship - Anatomy Department, University of Utah School of Medicine
1990	University of Utah School of Medicine Summer Research Fellowship

- 1992 Alpha Omega Alpha Honor Medical Society - University of Utah School of Medicine (elected junior year)
- 1993 Paul Wintrobe Memorial Award, Outstanding Senior Medical Student University of Utah School of Medicine (award received for graduating first in the University of Utah School of Medicine Class of 1993)
- 1993 Lange Medical Publications Award for outstanding achievement as a medical student, University of Utah School of Medicine
- 1993 American Medical Women's Association Glasgow Memorial Award for graduating first in the University of Utah School of Medicine Class of 1993
- 1999 Shillito Pediatric Neurosurgery Fellowship, The Children's Hospital, Harvard Medical School, Boston, MA

WHILE IN RANK:

- 2005-08 23 Red Shoes Awards (recognize physicians, nurses, and staff at Riley Hospital for Children who exemplify outstanding dedication and commitment to pediatric patients and their families)
- 2008 Weber State University Distinguished Alumni Award

TEACHING ASSIGNMENTS:

Daily clinical/teaching rounds with fellow, resident, and occasional 3rd/4th year medical students who rotate on the pediatric neurosurgery service – estimated time spent: 10 hrs/week, 50 weeks/year

Teaching/supervising fellow, resident, and rotating 3rd/4th year medical students during neurosurgical operative cases, in neurosurgery specialty outpatient clinics, on inpatient neurosurgery consultations and inpatient follow-up to OR procedures, and on emergency department neurosurgery consultations and admissions – estimated time spent: at least 15 hrs/week, 50 weeks/year

Neurosurgery weekly didactic teaching sessions for neurosurgery residents and rotating 3rd/4th year medical students – 2-3 hrs/week

Neurosurgery Journal Club – monthly meeting during which 3-4 articles from peer-reviewed neurosurgical journals are discussed by faculty, residents, and students

Neurosurgery Morbidity and Mortality Conferences – monthly conference designed to review/discuss complications related to neurosurgical procedures performed on adult and pediatric neurosurgery patients to educate rotating medical students, residents, fellows, and staff how to improve/reduce numbers of complications

Trauma Morbidity and Mortality – monthly meeting designed to review/discuss complications related to pediatric trauma patient's admitted to Riley Hospital for Children

UNIVERSITY/HOSPITAL LECTURES

1. Neurosurgery Conference at Methodist Hospital, Indianapolis, Indiana
"Neurulation: coming to closure" (2001)
2. Indiana University Hospital and Riley Hospital for Children Operating Room Nurses weekly conference ***"Moyamoya Syndrome"*** (9/19/2001)
3. Pediatric Noon Resident Conference at Riley Hospital for Children, Indianapolis, Indiana ***"Treatment of Pediatric Hydrocephalus"*** (11/14/2001)
4. Pediatric Noon Resident Conference at Methodist Hospital, Indianapolis, IN
"Treatment of Pediatric Hydrocephalus" (11/15/2001)
5. Pediatric Grand Rounds at Riley Hospital for Children ***"Advances in the Surgical Treatment of Childhood Epilepsy"*** (12/12/2001)
6. Noon Resident Conference at Riley Hospital for Children ***"Treatment of Childhood Hydrocephalus"*** (12/20/2001)
7. Neurosurgery Grand Rounds, Indiana University School of Medicine ***"Surgical Treatment of Childhood Epilepsy"*** (1/26/2002)
8. Surgery Grand Rounds, Department of Surgery, Indiana University School of Medicine ***"Treatment of Childhood Moyamoya Syndrome"*** (2/13/2002)
9. Pediatric Neurology Noon Conference, Department of Neurology, Indiana University School of Medicine ***"Surgical Treatment of Pediatric Epilepsy"*** (5/14/2002)
10. Pediatric General Surgery Journal Club, Department of Surgery, Indiana University School of Medicine ***"Anorectal Anomalies and Spinal Cord Defects"*** (6/17/2002)
11. Neurosurgery Grand Rounds, Indiana University School of Medicine
"Neurosurgical Techniques: Midline Cerebellar Tumors" (11/2/2002)
12. Riley Hospital for Children Emergency Department Physicians ***"Evaluation and Management of Minor Closed Head Injury in Children"*** (11/7/2002)
13. Department of Pediatrics Problems Conference, Riley Hospital for Children, Indiana University School of Medicine ***"Case management of pediatric patient presenting with periorbital cellulitis and epidural empyema (Pott's Puffy Tumor)"*** (1/27/2003)

14. Pediatric Neurology Noon Conference, Department of Neurology, Indiana University School of Medicine ***"Pediatric intraspinal tumors"*** (5/20/2003)
15. 32nd Annual Graduate Course in Pediatrics, Department of Pediatrics, Indiana University School of Medicine/Riley Hospital for Children ***"Cranial abnormalities in Kids"*** (6/18/2003)
16. Neurosurgery Grand Rounds, Indiana University School of Medicine ***"Management of hydrocephalus and shunt complications in children"*** (7/30/2003)
17. Pediatric Neurology Noon Conference, Department of Neurology, Indiana University School of Medicine ***"Surgical Management of Pediatric Epilepsy: Bringing Treatment Home to Indiana's Children"*** (9/29/2003)
18. Neurosurgery Grand Rounds, Indiana University School of Medicine ***"Pediatric Intraspinal Tumors"*** (1/7/2004)
19. Neurosurgery Grand Rounds, Indiana University School of Medicine ***"Neurodevelopment and CNS Malformations"*** (11/3/2004)
20. Pediatric Neurology Noon Conference, Department of Neurology, Indiana University School of Medicine ***"Neurosurgical Management of Neural Tube Defects"*** (1/25/2005)
21. Neurosurgery Grand Rounds, Indiana University School of Medicine ***"Neurosurgical Management of Neural Tube Defects"*** (2/23/2005)
22. Pediatric Neurology Noon Conference, Department of Neurology, Indiana University School of Medicine ***"Surgical treatment of Moyamoya Syndrome"*** (1/10/2006)
23. Indiana University Hospital and Riley Hospital for Children Operating Room Nurses weekly educational conference, Indiana University School of Nursing ***"Epilepsy Surgery in Children"*** (3/8/2006)
24. Pediatric Neurology Noon Conference, Department of Neurology, Indiana University School of Medicine ***"Cranial Abnormalities in Kids"*** (9/19/2006)
25. Pediatric General Surgery Monday Morning Conference, Riley Hospital for Children ***"Treatment of Severe Pediatric Head Injury: Evidence-based Practice"*** (10/2/2006)
26. Pediatric Noon Conference, Department of Pediatrics, Indiana University School of Medicine ***"Cranial Abnormalities in Kids"*** (10/18/2007)

27. Pediatric Noon Conference, Department of Pediatrics, Indiana University School of Medicine **"Hydrocephalus and Shunts in Children"** (11/15/2007)
28. Pediatric Neurology Noon Conference, Department of Neurology, Indiana University School of Medicine **"Surgical Treatment of Epilepsy in Children"** (1/22/2008)
29. Indiana University Hospital and Riley Hospital for Children Operating Room Nurses weekly educational conference, Indiana University School of Nursing **"Neurocongenital Defects"** (6/11/2008)
30. Pediatric General Surgery morning conference, Department of Surgery, Indiana University School of Medicine **"Occult Spinal Dysraphism"** (7/3/2008)
31. Neurosurgery Grand Rounds, Indiana University School of Medicine **"Pediatric Neurosurgical Emergencies"** (7/30/2008)
32. Pediatric Urology morning conference, Department of Urology, Indiana University School of Medicine **"Neural Tube Defects and Urologic Function"** (2/11/2009)
33. Neurosurgery Grand Rounds, Indiana University School of Medicine **"Cranial Abnormalities in Kids"** (2/11/2009)
34. Neurosurgery Grand Rounds, Indiana University School of Medicine **"Congenital Disorders of the Nervous System"** (2/18/2009)
35. Pediatric Neurology Noon Conference, Department of Neurology, Indiana University School of Medicine **"Hydrocephalus and Shunts in Children"** (4/21/2009)

STUDENT LECTURES/COURSES

1. Neurology Clerkship Lectures - 2001, Indiana University School of Medicine
Topics: **"Traumatic brain injury in children" and "Hydrocephalus"** 25 medical students, 1hr per lecture, 2 lectures
2. Pediatric Therapeutics Course, 4th year medical school elective, Indiana University School of Medicine (IUSM Course Number: 93KI730) **"Management of Hydrocephalus and Shunt Complications in Children"** (11/17/2002)
3. Pediatric Therapeutics Course, 4th year medical school elective, Indiana University School of Medicine (IUSM Course Number: 93KI730) **"Management of Hydrocephalus in Children"** (11/4/2003)

4. Neuroscience & Clinical Neurology (NCN) 2004: D505/D852 – Course for MS2, D.P.T., and Ph.D. students, Indiana University School of Medicine: *Wet Lab - small group instructor*
 Lab #1: Orientation to Gross Brain – 8/19/04, 10am-12noon
 Lab #2: Gross Brain: Surface Vasculature, Cranial Nerves – 8/26/04, 10am-12noon
 Lab #3: Gross Brain: Ventricles, Internal Structures – 9/2/04, 10am-12noon

5. Pediatric Therapeutics Course, 4th year medical school elective, Indiana University School of Medicine (IUSM Course Number: 93KI730) **“Management of hydrocephalus and shunt complications in children”** (11/8/2004)

6. Neuroscience & Clinical Neurology (NCN) 2004: D505/D852 – Course for MS2, D.P.T., and Ph.D. students, Indiana University School of Medicine
Lecture: **Neurodevelopment and Congenital Disorders** – 12/3/04
 Power Point lecture and handout published online on IUSM ANGEL Online Curriculum Management System:
<https://daly.medicine.iu.edu/med/frameIndex.htm>

7. **Facilitator** - Clear Communications Pediatric Resident and Student Workshop, Riley Children’s Hospital (2 -2:45pm and 3-3:45pm on 2/23/2005)

8. Neuroscience & Clinical Neurology (NCN) 2005: D505/D852 – Course for MS2, D.P.T., and Ph.D. students, Indiana University School of Medicine
Wet Lab - small group instructor
 Lab #1: Orientation to Gross Brain – 8/18/05, 10am-12noon
 Lab #2: Gross Brain: Surface Vasculature, Cranial Nerves – 8/25/05, 10am-12noon
 Lab #3: Gross Brain: Ventricles, Internal Structures – 9/1/05, 10am-12noon
 30 min lectures during labs 2 and 3 demonstrating intraoperative anatomy

9. Pediatric Therapeutics Course, 4th year medical school elective, Indiana University School of Medicine (IUSM Course Number: 93KI730) **“Hydrocephalus and Shunts in Children”** (11/14/2005)

10. Neuroscience & Clinical Neurology (NCN) 2005: D505/D852 – Course for MS2, D.P.T., and Ph.D. students, Indiana University School of Medicine
Lecture: **Neurodevelopment and Congenital Disorders** – 12/5/05
 Power Point lecture and handout published online on IUSM ANGEL Online Curriculum Management System:
<https://daly.medicine.iu.edu/med/frameIndex.htm>

11. Neuroscience & Clinical Neurology (NCN) 2006: D505/D852 – Course for MS2, D.P.T., and Ph.D. students, Indiana University School of Medicine
Wet Lab - small group instructor
 Lab #1: Orientation to Gross Brain – 8/24/06, 10am-12noon
 Lab #2: Gross Brain: Surface Vasculature, Cranial Nerves – 8/31/06, 10am-12noon
 Lab #3: Gross Brain: Ventricles, Internal Structures – 9/7/06, 10am-12noon
 30 min lecture during lab 3 demonstrating intraoperative anatomy –
 “Hydrocephalus and other fun pediatric neurosurgery stuff”

12. Pediatric Therapeutics Course, 4th year medical school elective, Indiana University School of Medicine (IUSM Course Number: 93KI730) "**Hydrocephalus and Shunts in Children**" (11/16/2006)
13. Pediatric Therapeutics Course, 4th year medical school elective, Indiana University School of Medicine (IUSM Course Number: 93KI730) "**Cranial Abnormalities in Kids**" (11/16/2006)
14. Neuroscience & Clinical Neurology (NCN) 2006: D505/D852 – Course for MS2, D.P.T., and Ph.D. students, Indiana University School of Medicine
Lectures: 1) **Neurodevelopment** – 12/4/06 (Mon 10AM)
2) **Congenital Disorders** – 12/5/2006 (Tue 10 AM)
15. Neuroscience & Clinical Neurology (NCN) 2007: D505/D852 – Course for MS2, D.P.T., and Ph.D. students, Indiana University School of Medicine
Wet Lab - small group instructor
Lab #1: Orientation to Gross Brain – 8/16/07, 10am-12noon
Lab #2: Gross Brain: Surface Vasculature, Cranial Nerves – 8/23/07, 10am-12noon
Lab #3: Gross Brain: Ventricles, Internal Structures – 8/30/07, 10am-12noon
30 min lecture during lab 3 demonstrating intraoperative anatomy –
"Hydrocephalus and other fun pediatric neurosurgery stuff"
16. Pediatric Therapeutics Course, 4th year medical school elective, Indiana University School of Medicine (IUSM Course Number: 93KI730) "**Surgical Treatment of Epilepsy in Children**" (11/8/2007)
17. Pediatric Therapeutics Course, 4th year medical school elective, Indiana University School of Medicine (IUSM Course Number: 93KI730) "**Pediatric Neurotrauma: Assessment and Management**" (11/8/2007)
18. Neuroscience & Clinical Neurology (NCN) 2007: D505/D852 – Course for MS2, D.P.T., and Ph.D. students, Indiana University School of Medicine
Lecture: 1) **Congenital Disorders of the Nervous System** (11/9/2007)
19. Neuroscience & Clinical Neurology (NCN) 2008: D505/D852 – Course for MS2, D.P.T., and Ph.D. students, Indiana University School of Medicine
Lecture: 1) **Congenital Disorders of the Nervous System** (11/13/2008)
20. Pediatric Therapeutics Course, 4th year medical school elective, Indiana University School of Medicine (IUSM Course Number: 93KI730) "**Surgical Treatment of Epilepsy in Children**" (11/13/2008)
21. Pediatric Therapeutics Course, 4th year medical school elective, Indiana University School of Medicine (IUSM Course Number: 93KI730) "**Pediatric Neurotrauma: Assessment and Management**" (11/13/2008)

PROFESSIONAL SERVICE:

SERVICE TO THE DISCIPLINE:

STATE/NATIONAL/INTERNATIONAL LECTURES

1. Skull Base 2001, Indianapolis, IN ***“Craniofacial Reconstruction from a Neurosurgical Perspective”*** (9/21/2001)
2. New Horizons in Neurology and Neurosurgery, Indianapolis, IN ***“Surgical Treatment of Childhood Epilepsy”*** (10/19/2001)
3. 9th Annual TRAUMA/SURGICAL Critical Care Symposium, Indianapolis, IN ***“Management and Pitfalls of Head Injuries”*** (11/2/2001)
4. Progressive Pediatrics 2001: A Child’s Odyssey - Pediatric Nurse Conference, Indianapolis, IN ***“Seizure management update”*** (12/5/2001)
5. Update in the Clinical Neurosciences, Indianapolis, IN ***“Evaluation and treatment of acute epidural and subdural hematomas”*** (9/5/2002)
6. American Association of Neurological Surgeons Pediatric Section Meeting 2002, Tuscon, Arizona ***“Surgical Management of Pediatric Epilepsy: Bringing Treatment Home to Indiana’s Children”*** (12/5/2002)
7. 2003 Meeting of the American Society of Pediatric Neurosurgeons, Hawaii ***“Late Correction of Sagittal Craniosynostosis: The Crab Procedure”*** (2/5/2003)
8. 4th Annual Trauma Symposium: A Multidisciplinary Approach to Trauma Care, Memorial Hospital of South Bend, South Bend, IN ***“Guidelines for the Management of Severe Pediatric Head Injury”*** (3/8/2003)
9. Advances in the Medical and Surgical Treatment of Refractory Epilepsy, Indianapolis, IN ***“Epilepsy Surgery in Children”*** (3/5/2005)
10. Association of Surgical Technologists, 2nd Annual Indiana State Surgical Technologists Conference, Hyatt Hotel, Indianapolis, IN ***“Treatment of Severe Pediatric Head Injury: Evidence-based Practice”*** (10/29/2005)
11. Lutheran Children’s Hospital December 2005 Grand Rounds, Fort Wayne, IN ***“Epilepsy Surgery in Children”*** (12/21/2005)
12. Pediatric Trauma Conference 2006, Riley Hospital for Children, Indianapolis, IN ***“Pediatric Neuro-Trauma: Assessment and Management”*** (11/2/2006)

13. American Association of Neurological Surgeons Pediatric Section Meeting 2006, Denver, CO ***“Electrophysiological Analysis Comparing Epileptogenic Human Cortex and Hyperexcited Rat Cortex”*** (11/29/2006)
14. Inaugural Shillito Fellowship Day, The Children’s Hospital – Boston, MA, ***“Electrophysiological Analysis of Epileptogenic Cortex”*** (5/18/2007)
15. 2008 Meeting of the American Society of Pediatric Neurosurgeons, Los Cabos, Mexico, ***“Network Comparison of Epileptogenic Human Cortex and Excited Rat Cortex”*** (2/4/2008)
16. Trauma Topics – Adult and Peds 2008, Clarian Health, Indianapolis, IN ***“Traumatic Brain Injury in Children”*** (4/18/2008)
17. Advances in the Medical and Surgical Treatment of Epilepsy – IUSM, Indianapolis, IN ***“Epilepsy Surgery in Children”*** (5/31/2008)
18. Weber State University Lecture to Premedical Students – Weber State University, Ogden, UT ***“Pediatric Neurosurgery”*** (9/11/08)

Instructor - American Association of Neurological Surgeons Goodman Oral Board Preparation Course: *Neurosurgery Review by Case Management* – test roughly 25-30 AANS oral board candidates over a 2-3 day period, discussing 3-4 cases per candidate using American Board of Neurological Surgery (ABNS) oral board format and 2-hr Plenary Sessions in 2007, 2008

St. Louis, Missouri May 22-24, 2005

Houston, Texas May 7-9, 2006

Houston, Texas November 4-6, 2007

Houston, Texas November 9-11, 2008

Resident Mentor - American Association of Neurological Surgeons (AANS) Resident Mentoring Program – 2005 to present (This program commenced in 2005.) Residents mentored: Elizabeth Tyler-Kabara, MD (University of Pittsburgh) in 2005-06; Ian Mutchnick, MD (University of Louisville) in 2007-08

SERVICE TO PATIENTS:

Clinical Pediatric Neurosurgeon

Founder and Co-director, Pediatric Epilepsy Surgery Program at Riley Hospital for Children, Indiana University School of Medicine for treatment of pediatric patients with medically refractory epilepsy

Director, Pediatric Cerebral Revascularization Program at Riley Hospital for Children, Indiana University School of Medicine for treatment of pediatric patients with moyamoya syndrome

Prenatal Counselor for pregnant women diagnosed with fetal birth defects, such as hydrocephalus, Dandy-Walker Malformations, and Neural Tube Defects (e.g., spina bifida)

Pediatric Tumor Board – a multidisciplinary weekly conference to discuss management of challenging pediatric tumor cases, including brain and spinal cord tumors

Pediatric Neuroradiology Conference – a weekly CME activity in which images of interesting neurological and neurosurgical cases are reviewed

SERVICE TO THE HOSPITAL/COMMUNITY:

Spina Bifida Association of Central Indiana (SBACI) – Question and Answer Session with moms of spina bifida children – Indianapolis, IN (5/2/09)

IMRIS MRI Safety Team – 2/16/2009 - present

Riley Medical Activation Team – 2008 - present

Riley Surgical Executive Council - 7/1/2006-present

Riley Medical Care Committee - 7/1/2006-present

Riley OR Capital Subteam – 7/1/2006-present

Give depositions and testify as expert witness for patients who have sustained head injuries as a result of non-accidental trauma (i.e., child abuse)

State of Indiana Medical Review Panel Participant

PACS workstation placement committee for PACS pathspeed web access in Riley Outpatient Clinic Surgery MSA, Riley Hospital for Children in-patient areas, and Riley Hospital for Children Operating Rooms

UNIVERSITY SERVICE:

UNIVERSITY ADMINISTRATIVE SERVICE:

Director, Pediatric Neurosurgery Section, Department of Neurological Surgery, Indiana University School of Medicine – 7/1/2006 - present

UNIVERSITY COMMITTEE SERVICE:

Member, Faculty Development Committee – 7/1/2009 – 6/30/2011

Member, Faculty Grievance Committee – 1/1/2009 - present

Member, Family Leave Policy for Academic Appointees - Ad Hoc Committee – 9/21/08 – present

Member, Pediatrics Chair Search Committee – 6/17/08 - present

Organizer, 2008 IUSM Biannual Dean's Grand Rounds and Scientific Poster Session

IUSM Executive Committee – 6/2/2008 – 5/31/2009

Vice-Chair, 2008 LCME site visit self-study team, section on Faculty – 9/1/2007 – present (mock site visit – 9/08; official site visit – 11/16/08-11/20/08)

Chair, Faculty Steering Committee, Indiana University School of Medicine – 5/13/08 -5/30/09

President of the Faculty of the Indiana University School of Medicine – 5/13/08 - 5/30/09

President-Elect of the Faculty of the Indiana University School of Medicine –7/1/07 - 6/30/08

Secretary of the Faculty of the Indiana University School of Medicine – 7/1/06 - 6/30/07

Secretary-Elect of the Faculty of the Indiana University School of Medicine –7/1/05 - 6/30/06

IU Faculty Steering Committee - 7/1/08 - 6/30/09 (President), 7/1/07 - 6/30/08 (President-Elect)

IU Faculty Steering Committee - 7/1/06 - 6/30/07 (Secretary), 7/1/05 - 6/30/06 (Secretary-Elect), 7/1/07 - 6/30/08 (President-Elect), 7/1/08 - 6/30/09 (President)

IUPUI Faculty Council, School of Medicine Unit Representative – 2004-05, 2005-06, 2006-07, 2007-08, 2008-09

Physician Feedback Subcommittee of the Medical Executive Committee – 9/04 to 3/05

UNIVERSITY STUDENT SERVICE:

Advise pediatric neurosurgery fellow regarding employment opportunities in pediatric neurosurgery and assist the fellow in obtaining a job by providing letters of recommendation

Advise neurosurgery residents who are interested in pursuing a career in pediatric neurosurgery about specific pediatric neurosurgery fellowships and requirements

Advise 3rd and 4th year medical students who rotate on the pediatric neurosurgery service (and occasionally undergraduate students and high school students who are considering a career in neurosurgery) regarding pediatric neurosurgery, residency requirements, fellowships, and, in general, what life is like as a pediatric neurosurgeon

Advise neurosurgery residents and fellows on clinical research projects in neurosurgery

Women Faculty Mentor - Indiana University School of Medicine Women Student-Faculty Mentoring Program, 2002-present; 1 student/year 2002-2005, 2008-09; 2 students/year 2006-07, 2007-08

Research Mentor and Lecturer - Indiana University School of Medicine Pediatric Critical Care Fellowship

OTHER PROFESSIONAL ACTIVITIES:

REVIEWER - *Journal of Pediatric Surgery*
Pediatrics
Annals of Surgery
Neurosurgical Focus
Journal of Pediatric Neurology

GRANTS AND FELLOWSHIPS:

- (1) **Mission:** Research
Grant Title: *"Understanding the cellular and molecular mechanisms of neurulation"*
Agency: Pence Foundation
Award Status: New
Funding Status: Extramural
Role: PI
Start Date: 1/1/2004
Total Amount: 100,000

- (2) **Mission:** Research
Grant Title: *"Electrophysiological Analysis of Epileptogenic Human Cortex"* (IRB #0612-52)
Agency: Pence Foundation

Award Status: new
Funding Status: Extramural
Role: PI
Start Date: 1/1/2007
Total Amount: 100,000

- (3) **Co-investigator** on the MH110 study, "A Phase III, Multi-Center, Open-Label Study to Evaluate Safety and Efficacy of MultiHance® at the Dose of 0.10 mmol/kg in Magnetic Resonance Imaging of the Central Nervous System in Pediatric Patients" IRB #0606-16. **PI:** Dr. Annette Douglas-Akinwande. Terminated 7/07.

- (4) **Co-investigator** on the research study entitled: "Microarray analysis and tumor banking of pediatric leukemias and solid tumor samples." **PI:** Dr. Susanne Ragg. Current.

PUBLICATIONS:

I. TEACHING:

All Published in Rank, (S) - Service

1. (S) Surgical Management of Pediatric Epilepsy. *Riley Today: A video journal for primary care physicians*. Vol. VIII, No. III. January 2003.
2. (S) Surgical Treatment of Epilepsy in Children. *Physician's Practice*, September/October 2002, pp. A4-A7.

II. RESEARCH OR CREATIVE ACTIVITY

A. Original Articles

All Peer Reviewed, r Published in Rank, (S) – Service

1. r(S) Tang A, Jackson D, Hobbs J, Chen W, **Smith JL**, Patel H, Prieto A, Petrusca D, Grivich MI, Sher A, Hottowy P, Dabrowski W, Litke AM, Beggs JM. A maximum entropy model applied to spatial and temporal correlations from cortical networks *in vitro*. **J. Neurosci** 2008; 28(2):505-518.
2. r(S) Scott RM, **Smith JL**, Robertson RL, Madsen JR, Soriano SG, Rockoff MA. Long-term outcome in children with moyamoya syndrome following cranial revascularization by pial synangiosis. *J Neurosurg (Pediatrics 2)* 2004;100:142-149.
3. Hackett DA, **Smith JL**, Schoenwolf GC. Epidermal ectoderm is required for full elevation and for convergence during bending of the avian neural plate. *Dev Dynamics* 1997;210(4):397-406.
4. Sausedo RA, **Smith JL**, Schoenwolf GC. Role of nonrandomly-oriented cell division in shaping and bending of the neural plate. *J Comp Neurol* 1997;381:473-488.
5. (S) Willis BK, **Smith JL**, Falkner LD, Vernon DD, Walker ML. Fatal air bag mediated craniocervical trauma in a child. *Pediatr Neurosurg* 1996;24:323-327.
6. **Smith JL**, Gesteland KM, Schoenwolf GC. Prospective fate map of the mouse primitive streak at 7.5 days of gestation. *Dev Dynamics* 1994;201:279-289.

7. **Smith JL**, Schoenwolf GC, Quan J. Quantitative analyses of neuroepithelial cell shapes during bending of the mouse neural plate. *J Comp Neurol* 1994;342:144-151.
8. **Smith JL**, Schoenwolf, GC. Further evidence of extrinsic forces in bending of the neural plate. *J Comp Neurol* 1991;307:225-236.
9. **Smith JL**, Schoenwolf, GC. Notochordal induction of cell wedging in the chick neural plate and its role in neural tube formation. *J Exp Zool* 1989;250:49-62.
10. Cannon GW, Cole BC, Ward JR, **Smith JL**, Eichwald EJ. Arthritogenic effects of *Mycoplasma Arthritis* T cell mitogen in rats. *J Rheumatol* 1988;15:735-741.
11. **Smith JL**, Schoenwolf GC. Role of cell-cycle in regulating neuroepithelial cell shape during bending of the chick neural plate. *Cell Tiss Res* 1988;252:491-500.
12. **Smith JL**, Schoenwolf GC. Cell cycle and neuroepithelial cell shape during bending of the chick neural plate. *Anat Rec* 1987;218:196-206.
13. Schoenwolf GC, Chandler NB, **Smith JL**. Analysis of the origins and early fates of neural crest cells in caudal regions of avian embryos. *Dev Biol* 1985;110:467-479.

B. Reviews

***Peer Reviewed, ^rPublished in Rank, (S) – Service, (T) - Teaching**

1. (S, T) ^r**Smith JL**, Garg, B. Treatment of arteriovenous malformations of the brain. *Curr Neurol Neurosci Rep* 2002;2(1):44-9.
2. (S, T) *^r**Smith JL**, Scott, RM. Treatment of moyamoya syndrome in children. In: Roach S, Biller J, editors. *Seminars in Cerebrovascular Diseases and Stroke*. Philadelphia: WB Saunders; 2001;1(3):225-239.
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3. (T) Inagaki T, **Smith JL**, Walker ML, Schoenwolf GC. Neural tube defects. *Methods Mol Biol*. 2000;136:161-166.

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7. (T) Schoenwolf GC, **Smith JL**. Epithelial cell wedging: A fundamental cell behavior contributing to hinge point formation during epithelial morphogenesis. In: Keller RE, Fristrom D, editors. *Control of morphogenesis by specific cell behaviors. Seminars in Developmental Biology*. London: WB Saunders; 1990. vol. 1. pp. 325-334.
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C. Book Chapters

All Published in Rank, *Peer Reviewed, (S) - Service, (T) - Teaching

1. (S, T) ***Smith JL**. Management of Neural Tube Defects, Hydrocephalus, Refractory Epilepsy, and Central Nervous System Infections. In: Grosfeld JL, O'Neill, JA, Jr, Coran AG, Fonkalsrud EW, editors. *Pediatric Surgery, 2-Volume Set, 6th Edition, Vol. 2, Part IX, Chapter 124*, 2006. Elsevier.
2. (S, T) ***Smith JL**. Treatment of Severe Pediatric Head Injury: Evidence-Based Practice. In: Wesson DE, editor. *Pediatric Trauma: Pathophysiology, Diagnosis, and Treatment*, 2006. Taylor & Francis Group, NY; pp. 211-229.
3. (S, T) **Smith JL**, Madsen, JR. Neurosurgical procedures for the treatment of pediatric pain. In: Schechter NL, Berde CB, and Yaster, M, editors. *Pain in Infants, Children, and Adolescents*, 2nd Ed, 2002. Lippincott Williams & Wilkins Publishers; pp. 329-338.

D. Abstracts/Meeting Presentations

All Peer Reviewed, ^r Published in Rank, (T) - Teaching, (S) – Service

1. ^r(S) Hobbs JP, **Smith JL**, Tang A, Chen W, Haldeman C, Koffie R, Jackson D, Beggs JM. Network correlations: A maximum entropy approach. (To be presented at IUPUI Research Day, 24 April 2009)
2. ^r(S) Adu-Boahene A, **Smith JL**. Multiple Local and Distant Clear Cell Meningioma Recurrences Following Resection of an Occipital Parafalcine Clear Cell Meningioma in a Female Child. (To be presented at the University of Kentucky School of Medicine AOA Research Day 2009).
3. ^r(S) Tolley JA, **Smith JL**. Postoperative Visual Loss Associated with Genetic Thrombophilic Predisposition. (Presented at the Society for Pediatric Anesthesia Annual Meeting, Jacksonville, Florida, 3/19-22/2009).
4. ^r(S) Hattab EM, Al-Khatib SM, Vakili ST, Witt TC, **Smith JL**, Boyce H, Malik GM, Wilson JD. Rosette-Forming Glioneuronal Tumors: A Clinicopathologic Study of Three Cases Not Associated with the Fourth Ventricle. (Presented at the United States and Canadian Academy of Pathology Annual Meeting, Denver, Colorado, 3/1-7/2008);
5. ^r(S) **Smith JL**, Hobbs JP, Tang A, Jackson D, Chen W, Patel H, Prieto A, Sher A, Litke A, Beggs JM. Network Comparison of Epileptogenic Human Cortex and Excited Rat Cortex. (Presented at the American Society of Pediatric Neurosurgeons 2008 Annual Meeting, Los Cabos, Mexico, 2/2-8/2008).
6. ^r(S) Hobbs JP, **Smith JL**, Patel H, Tang A, Chen W, Beggs JM. Network comparison of human epileptogenic cortex slices with excited rat cortex slices. (Presented at the Society for Neuroscience Annual Meeting, San Diego, California, 11/7/2007).
7. ^r(S) Tang, A, Hobbs JP, Chen W, Jackson D, **Smith JL**, Patel H, Beggs JM. A second-order maximum entropy model predicts correlated network states, but not their evolution over time. (Presented at Sixteenth Annual Computational Neuroscience Meeting CNS*2007, Toronto, Canada, 7/8-12/2007).
8. ^r(S) Tang A, Jackson D, Hobbs J, Chen W, **Smith JL**, Patel H, Prieto A, Petrusca D, Grivich MI, Sher A, Litke AM, Beggs JM. A maximum entropy

model applied to spatial and temporal correlations from cortical networks *in vitro*. (Presented at the 2007 Computational and Systems Neuroscience Meeting (COSYNE 2007) in Salt Lake City, 2/22-25/2007).

9. **†(S) Smith JL**, Hobbs JP, Patel H, Beggs JM. Electrophysiological Analysis Comparing Epileptogenic Human Cortex and Hyperexcited Rat Cortex. (Presented at the American Association of Neurological Surgeon's Pediatric Neurosurgery Section Meeting, Denver, Colorado, 11/29/2006).
10. **†(S)** Hobbs JP, Tang A, Chen W, Patel H, Beggs JM, **Smith JL**. Electrophysiological Analysis Comparing Epileptogenic Human Cortex and Hyperexcited Rat Cortex. (Presented at the IUSM Dean's Grand Rounds Poster Session, Indianapolis, IN, 9/13/2006).
11. **†(S, T)** Smucker PS, **Smith JL**. Disseminated Desmoplastic Medulloblastoma in an African-American Child with Nevoid Basal Cell Carcinoma (Gorlin) Syndrome. (Presented at the IUSM Dean's Grand Rounds Poster Session, Indianapolis, IN, 9/13/2006).
12. **†(S, T)** Smucker PS, **Smith JL**. Disseminated Desmoplastic Medulloblastoma in an African-American Child with Nevoid Basal Cell Carcinoma (Gorlin) Syndrome. (Presented at the American Association of Neurological Surgeon's Pediatric Neurosurgery Section Meeting, Orlando, Florida, 11/29-12/2, 2005).
13. **†(S)** Whitehead, WE, Hanig, J., **Smith JL**, Illner, A. Interobserver Variability and the Radiologic Assessment of Ventricular Catheter Placement. (Presented at the American Association of Neurological Surgeon's Pediatric Neurosurgery Section Meeting, Orlando, Florida, 11/29-12/2, 2005)
14. **†(S)** Scott RM, **Smith JL**, Robertson RL, Madsen JR, Soriano SG, Rockoff MA. Pial synangiosis for moyamoya syndrome in children – Long term outcome. (Presented in Plenary Session II at the 2004 American Association of Neurological Surgeons Annual Meeting in Orlando, Florida, May 2004)
15. **†(S) Smith JL**, Boaz JC, Eppley BL, Havlik RJ, Luerssen TG, Sadove, AM, Kalsbeck JE. Late Correction of Sagittal Craniosynostosis: The Crab Procedure. 2002. (Presented at the 2003 Meeting of the American Society of Pediatric Neurosurgeons, Hawaii, February 2003)

16. **(S) Smith JL.** Surgical Management of Pediatric Epilepsy: Bringing Treatment Home to Indiana's Children. 2002. (Presented at the American Association of Neurological Surgeon's Pediatric Neurosurgery Section Meeting, Tuscon, AZ, December 5, 2002)
17. **(S) Soriano SG, Claire RA, Smith J, Scott M, Rockoff MA.** Intraoperative Use of Electroencephalography in Children with Moyamoya Syndrome. *Anesthesiology* 2002;96: A1259. (Presented by SG Soriano at American Society of Anesthesiology Meeting, Florida, October 14, 2002)
18. **(S) Madsen JR, Smith JL, Kahana, M.** Event related oscillations and event related potentials during working memory tasks in humans. 2000. (Presented at the Society of University Neurosurgeons meeting, Boston, MA, June, 17, 2000)
19. Hackett DA, **Smith JL**, Schoenwolf GC. Role of epidermal ectoderm and neural plate/epidermal ectoderm interface in bending of the avian neural plate. 1997. (Presented at the Society for Developmental Biology International meeting, Snowbird, UT, July 1997)
20. **Smith JL**, Schoenwolf GC. Role of neural plate/epidermal ectoderm transition zone in bending of the chick neural plate. 1997. (Presented at the Experimental Biology meeting in conjunction with the American Association of Anatomists, New Orleans, Louisiana, April 1997)
21. **Smith JL**, Hackett D, Schoenwolf GC. Multifactorial model of neurulation: Role of the neural plate, epidermal ectoderm, and neural plate/epidermal ectoderm interface in bending of the neural plate. 1997. (Presented at the Lende Neurosurgery meeting, Snowbird, UT, 3 February 1997)
22. **Smith JL**, Schoenwolf GC. Further evidence of extrinsic forces in neural fold elevation. *Anat Rec* 1990;226, 94A. (Presented at the American Association of Anatomists meeting, Philadelphia, Pennsylvania, April, 1990)
23. **Smith JL**, Schoenwolf GC. Role of the notochord in regulating cellular morphology in localized areas of the chick neural plate. *Anat Rec* 1988;220:91A. (Presented at the American Association of Anatomists meeting, Cincinnati, Ohio, April, 1988)
24. **Smith JL**, Schoenwolf GC. Localized differences in cell cycle as a mechanism for regulating neuroepithelial cell shape during bending of

the chick neural plate. Anat Rec 1987;218:128A. (Presented at the American Association of Anatomists meeting, Washington, D.C., May, 1987)

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26. **Smith JL**, Folsom D, Schoenwolf GC. Shaping of neuroepithelial cells during bending of the chick neural plate. Soc Neurosci Abstr 1985;11:606. (Presented at the Society for Neuroscience annual meeting, Dallas, Texas, October, 1985)
27. **Smith JL**, Schoenwolf GC. Evidence for a secondary population of neural crest cells in avian embryos. Anat Rec 1985;211:181A. (Presented at American and Canadian Association of Anatomists Joint Meeting, Toronto, Ontario, Canada, May, 1985)

III. PROFESSIONAL SERVICE

Original Articles - All Refereed, All Published in Rank

1. **Smith JL**. Understanding and treating moyamoya disease in children. Neurosurg Focus 26(4):E4, 2009.
2. **Smith JL**, Ackerman LA. Management of cervical spine injuries in young children: Lessons learned. J Neurosurg: Pediatrics. In press.
3. **Fulkerson DH**, Luerssen TG, Hattab EM, Kim DL, **Smith JL**. Long-term follow-up of solitary intracerebral juvenile xanthogranuloma: Case report and review of the literature. Pediatric Neurosurgery 2008; 44:480-485.
4. **Smucker PS**, **Smith JL**. Multifocal Desmoplastic Medulloblastoma in an African-American Child with Nevroid Basal Cell Carcinoma (Gorlin) Syndrome. Case Report. J Neurosurg (4 Suppl Pediatrics) 2006; 105:315-320.
5. **Patel H**, **Smith JL**, Garg BP. Focal cerebral pathology presenting as tonic seizures. J Child Neurol 2006; 21:813-816.

6. **(S)** Golomb MR, Biller J, **Smith JL**, Edwards-Brown M, Sanchez JC, Nebesio TD, Garg BP. A 10-year-old girl with coexistent Moyamoya disease and Graves' disease. J Child Neurol 2005; 20:620-624.

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