CURRICULUM VITAE

<u>Name</u> :	Bermans J. Iskandar, M.D.
<u>Title and Affiliation</u> :	Professor, Departments of Pediatrics and Neurological Surgery Director, Pediatric Neurosurgery Department of Neurological Surgery University of Wisconsin School of Medicine and Public Health
<u>Office Address</u> :	Department of Neurological Surgery University of Wisconsin School of Medicine and Public Health K4/832 Clinical Science Center, Mail Code 8660 600 Highland Avenue Madison, WI 53792-8660 Office Phone: (608) 263-9585 Clinic: (608) 263-6420 Fax: (608) 890-9743
<u>Email</u> :	iskandar@neurosurgery.wisc.edu

Education:

- 1982-1985Bachelors of Arts (Summa cum laude in Cell and Molecular Biology)
California State University at Northridge, Los Angeles, CA
- 1985-1989 Doctor of Medicine University of Pennsylvania School of Medicine, Philadelphia, PA

Postdoctoral Training:

1989-1990	Surgery Intern, Department of General Surgery
	Boston University Medical Center, Boston, MA
1990-1996	Neurosurgery Resident, Division of Neurosurgery
	Duke University Medical Center, Duraham, NC
1993-1995	Research Associate, Department of Neurobiology, Duke University Medical Center,
	Project title: Signaling Pathways in Central Nervous System Regeneration, Mentor: J. H.
	Pate Skene, Ph.D.
1996-1997	Pediatric Neurosurgery Fellow, Division of Pediatric Neurosurgery
	The Children's Hospital, Birmingham, AL

Faculty Academic Appointments:

1997-2003	Assistant Professor, Departments of Neurosurgery and Pediatrics, University of
2003-2007	Wisconsin School of Medicine and Public Health, Madison, WI Associate Professor, Departments of Neurosurgery and Pediatrics, University of Wisconsin School of Medicine and Public Health, Madison, WI
2007-2010	Associate Professor with Tenure, Departments of Neurosurgery and Pediatrics,
2009-	University of Wisconsin School of Medicine and Public Health, Madison, WI Adjunct Professor, Neuroscience Training Program, University of Wisconsin-
2010-	Madison, Madison, WI Professor with Tenure, Departments of Neurosurgery and Pediatrics, University
	of Wisconsin School of Medicine and Public Health, Madison, WI
2015-	Adjunct Professor, Interdepartmental Graduate Program in Nutritional Sciences, University of Wisconsin-Madison, Madison, WI
2015-	Adjunct Professor, Comparative Biomedical Sciences Program, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, WI

Hospital Appointments:

1997-	Staff surgeon, Meriter Hospital, Madison, WI
1997-	Staff surgeon, William S. Middleton Veteran's Administration Hospital,
	Madison, WI
1997-	Staff surgeon, St. Mary's Hospital, Madison, WI
1997-	Attending Neurosurgeon, UW Hospital and Clinics
2006-	Attending Neurosurgeon, Director of Pediatric Neurosurgery, American Family
	Children's Hospital, Madison, WI
2015-	Staff surgeon, Aurora Health Care, Green Bay, WI

Major Administrative Leadership Positions at UW:

1997-	Director of Pediatric Neurosurgery, University of Wisconsin Hospital and
	Clinics, Madison, WI
1997-	Director, Central Nervous System (CNS) Regeneration Laboratory, Department
	of Neurological Surgery, University of Wisconsin School of Medicine and
	Public Health, Madison, WI
1999-	Co-director, Multidisciplinary Brachial Plexus Clinic, American Family
	Children's Hospital, Madison, WI
2006-	Director of Pediatric Neurosurgery, American Family Children's Hospital,
	Madison, WI

Professional Service:

Department of Neurological Surgery, University of Wisconsin-Madison

2004-2012	Member, Mentoring Committee for David Niemann
2005	Chair, Search Committee for Pediatric Neurosurgery Faculty

2007-2013	Member, Mentoring committee for Karl Sillay
2008-2012	Member, Mentoring Committee for Mustafa Baskaya
2008-2014	Chair, Mentoring Committee for Joshua Medow
2008-present	Member, Executive Committee
2009-2012	Co-Founder and Member, The John Sandin Creativity and Research Award
2010-2012	Member, Mentoring Committee for Rao Adibhatla
2010-2015	Member, Mentoring Committee for Amgad Hanna
2011-2017	Chair, Mentoring Committee for Nathaniel Brooks
2012-2013	Search Committee Member, Endovascular Neurosurgery
2012-2014	Search Committee Member, Functional Neurosurgery
2012-	Member, Resident Candidate Selection Committee
2012-present	Member, Finance Committee
2013-	Member, Department Clinical Competency Committee
2015-17	Chair, Search Committee for Pediatric Neurosurgery Faculty
2018-2022	Member, Mentoring Committee for Reid Alisch
2019-2022	Member, Mentoring Committee for Kip Ludwig (Neurological Surgery and
	Biomedical Engineering)
2020-present	Chair, Mentoring Committee for Mahua Dey

University of Wisconsin School of Medicine and Public Health

2001Member, Orthopedics and Rehabilitation Chair Search Committee2004Member, Ophthalmology Staff Position Search Committee2004-2005Member, Department of Pediatrics Chair Search Committee2006-2008Member, Mentoring committee for Mark Kiehn (Plastic Surgery)2011-2012Member, Chief of Pediatric Surgery Search Committee2011-2012Member, Brandon Rocque, MS Thesis Committee (Clinical Investigation)2011-2013Member, Mentoring committee for Samuel Poore (Plastic Surgery)2012-2016Member, Mentoring committee for Yanjun Chen (Ophthalmology and Visual Sciences)2013Member, Department of Ophthalmology and Visual Sciences Chair Search Committee2013-2014Member, Casey Madura, MPH Thesis Committee (Clinical Investigation)2014-2015Member, Chair of Neurology Search Committee2014-2017Member, Chair of Neurology Search Committee2014-2017Member, Traumatic Brain Injury Prevention Initiative Committee2014-2017Member, Traumatic Brain Injury Prevention Initiative Committee2014-2017Member, Chair of Surgery Search and Screen Committee2014-2017Member, Reitaric Cardiothoracic Surgeon Search Committee2014-2017Member, Reitaric Cardiothoracic Surgery Search Committee2014-2017Member, Rentoring committee for Issus Iruretagoyena (Maternal Fetal Medicine)2014-2017Member, Rentoring committee for Jesus Iruretagoyena (Maternal Fetal Medicine)2014-2017Member, Chair of Surgery Search and Screen Committee2015-2014Member, Rentoring committee for Jesus Iruretagoyena (Maternal Fetal Medicine) <th>2000</th> <th>Member, Pediatric Plastic Surgeon Recruitment Committee</th>	2000	Member, Pediatric Plastic Surgeon Recruitment Committee
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2017-2023 Member, Mentoring committee for Catharine Garland (Plastic Surgery)	2016-2017	· · · · · · · · · · · · · · · · · · ·
	2017-2019	Member, Mentoring committee for Neha Patel (Hematology and Oncology)
2020-2021 Member, Chair of Neuroscience Search Committee		
	2020-2021	Member, Chair of Neuroscience Search Committee

University of Wisconsin Hospital and Clinics

1999	Member, Pediatric ICU staff recruitment Committee
1999-2000	Member, WISCR-IT (Computerized Records) Development Committee
2000	Member, Medical Board Nominating Committee
2001-present	Member, Pediatric Trauma Management Committee
2002	Member, Web GX Evaluation Committee
2002-2004	Member, Medical Board
2005-2008	Member, UWMF Finance Committee
2010-2012	Member, ITS Governance Committee
2012-present	Member, Clinical Systems Advisory Committee

American Family Children's Hospital

Member, Clinics Committee
Member, Inpatient Units Committee
Member, Surgical Services Committee
Member, Diagnostic Pavilion Committee
Member, Clinical Practice Council
Member, Steering Committee member
Member, Surgeon's Advisory Committee
Member, Pediatric Surgeons Staff Committee
Member, Pediatric Trauma Management Committee
Member, Surgical Site Infection Reduction Committee
Member, Surgical Clinical Ops Committee
Member, Quality Coordinating Council Committee
Coordinator, Pediatric neurosurgery inpatient service quality improvement effort
Coordinator, Pediatric neurosurgery outpatient clinic quality improvement effort
Coordinator, Pediatric Neurosurgery OR efficiency effort
Member, Clinical Practice Council

University of Wisconsin-Madison

2007	Member, Dana Foundation UW Internal Competition Committee
2008	Member, Dana Foundation UW Internal Competition Committee
2009-2011	Advisor, ICTR Graduate Student major
2012-2014	Member, Angela Andrea Navarrete Opazo, PhD Dissertation Committee
	(Neuroscience)
2013-2016	Member, Daryl Field PhD Dissertation Committee (Comparative Biomedical
	Sciences)
2014-2017	Member, Kendra Braegelmann PhD Dissertation committee (Comparative
	Biomedical Sciences Program)
2015-2018	Member, Ziyad Aloqalaa PhD Thesis Committee (Biomedical Engineering)
2016-2018	Member, Daryl Fields PhD Thesis committee (Comparative Biomedical Sciences)
2016-2018	Member, Xuan Zhang PhD Thesis committee (Electrical and Computer
	Engineering)
2016-present	Research mentor, Undergraduate Research Scholars (URS) Program
2016-present	Trainer, Comparative Biomedical Sciences graduate program, University of
	Wisconsin-Madison

2016-present	Trainer, Interdepartmental Graduate Program in Nutritional Sciences,
	University of Wisconsin-Madison, Madison, WI
2017-2021	Member, Anil Chokkalla, PhD Thesis Committee (Cell and Molecular
	Pathology)
2017-2022	Member, PhD Thesis committee for Zhe Yang (Engineering)
2017-present	Member, PhD Thesis committee for Chenxiao Guan (Engineering)
2017-2019	Member, Josh Medow PhD Dissertation Committee (Clinical
	Investigation/Informatics)
2018-2019	Co-Chair, MS Thesis committee for Laura Borth (CBMS)
2018-2022	Elected Member, Biological Sciences Divisional Committee
2021-2022	Member, PhD Thesis committee for Dominic Schomberg (Animal Sciences)
2020-present	Member, PhD Thesis committee for Truman Jeffrey Do (Cellular and Molecular
-	Biology)

Peer Review Groups/Grant Study Sections

2003	Grant Reviewer, Prince Salman Center for Disability Research
2004-2005	Abstract Reviewer, AANS/CNS Pediatric Section
2005	Abstract Reviewer, CNS Pediatric Neurosurgery
2007	Grant Reviewer, UW Dana Foundation
2008	Grant Reviewer, University of Wisconsin Institute for Clinical and Translational
	Research
2011	Reviewer, Wings for Life
2012	Grant Reviewer, UW Brain Research Foundation
2012	Grant Reviewer, Dean of the American University of Beirut School of Medicine
	multi-investigator grants
2013	Grant Reviewer, UW Brain Research Foundation
2013	Abstract Reviewer, AANS
2013	Reviewer, Autism Dean Innovation Grant, American University of Beirut
2014-2015	Grant Reviewer, ICTR Pilot Award Program
2015	Reviewer, Seattle Children's Pediatric Early Research Career Awards
2015	Reviewer, Missouri Spinal Cord Injury/Disease Research Program
2016	Grant Reviewer, UW Shapiro Award
2018	Grant reviewer, NIH Study Section NIH NSD-K Review
2019	Grant Reviewer, ICTR Translational Basic and Clinical Pilot Study Section
2022	Grant Reviewer, NINDS Special Emphasis Panel P01 Review, National
	Institutes of Health
2023	Member, PRMRP Hydrocephalus peer review panel for the Department of
	Defense (DOD) Congressionally Directed Medical Research Programs
	(CDMRP)

Journal Editorial Service

Practical Reviews in Neurosurgery (past Editorial Board Member) Child's Nervous System (Ad hoc Editor, Editorial Board Member) Pan-Arab Journal of Neurosurgery (Editorial Board) The ISPN Guide on Pediatric Neurosurgery (Editorial Board)

Congenital Section: The ISPN Guide on Pediatric Neurosurgery (co-Editor)

Manuscript Reviews (ad hoc)

2003 2004-present 2004 2005-2011 2006 2006 2008 2009 2009 2009-present 2010-2011 2008-2021 2010- 2011 2011 2011 2011 2011 201	Journal of Genetic Counseling Child's Nervous System Journal of Neuropath Exp Neurol Annals of Neurology Clinical Anatomy Clinical Neurology and Neurosurgery Archives of PM&R Journal of Nutritional Biology The Scientific World Neuropediatrics Neurosurgery Pan Arab Journal of Neurosurgery Pediatric Neurosurgery Pediatrics Stem Cells and Development Neurosurgical Focus American Journal of Clinical Nutrition Birth Defects Research Part A Journal of Surgical Research Journal of Biological Chemistry Neurosurgery Watch Journal of Neurotrauma
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2015-2016 2015-2017	Journal of Neurotrauma BDRA
2016	British Journal of Nutrition
2016	Epigenomics
2017	Neurosurgical Review
2018-present 2019-present	Operative Neurosurgery World Neurosurgery
2019-present 2020	Journal of Neurology, Neurosurgery and Psychiatry

Professional Service for Professional Organizations

National/International

American Association of Neurological Surgeons / Congress of Neurological Surgeons

2008-2009	Member, Traveling Fellowship Committee, AANS/CNS Section on
	Pediatric Neurosurgery
2009-2012	Chair, Traveling Fellowship Committee, AANS/CNS Section on Pediatric
	Neurosurgery
2010	Mentor, AANS Resident Mentor Program

2010-2013	Member-at-Large, Executive Committee, AANS/CNS Section on
	Pediatric Neurosurgery
2013-2015	Co-Chair, National Meetings Committee,
	AANS/CNS Section on Pediatric Neurosurgery
2014-2016	Member, CNS Education Committee
2015-2017	Treasurer, National Meetings Committee
	AANS/CNS Section of Pediatric Neurosurgery
2016-	Member, Neurosurgery Research & Education Foundation (NREF) Post-
	Residency Clinical Fellowship Committee
2017-2019	Secretary, Executive Committee, AANS/CNS Section on Pediatric
	Neurosurgery
2019-2021	Chair-elect, Executive Committee, AANS/CNS Section on Pediatric
	Neurosurgery
2021-2023	Chair, Executive Committee, AANS/CNS Section on Pediatric
	Neurosurgery
2023-Present	Past-Chair, Executive Committee, AANS/CNS Section on Pediatric
	Neurosurgery
2021-2023	Ex-Officio Member, AANS Advisory Council

American Board of Pediatric Neurological Surgery

2013-present	Member, Board of Directors
2014-2018	Chair, Credentialing Committee
2018-2020	Secretary/Treasurer
2018-2020	Chair, Finance Committee
2020-2021	Vice-Chair
2022-Present	Chair

American College of Surgeons

2003-2011 ACS Fellow

American Society of Pediatric Neurosurgeons (ASPN)

2006-2008	Chair, Credentialing Committee
2009-2011	Chair, Bylaws Committee

American Syringomyelia and Chiari Alliance Project (ASAP)

2004-2006	Member, Research Committee
2009-present	Member, Medical Advisory Board

Chiari and Syringomyelia Foundation (CSF)

2007-?? Member, Medical Advisory Board Executive Committee

2008-2016	Member, Scientific Educational and Advisory Board
2008	Chair, Website Committee
2008	Member, Marcy Speer Endowment Committee
2016-present	Member, Senior Advisory Panel

Foundation for the Encouragement of Education in Lebanon (FEEL)

1987-89 Founding member and co-chairman, Boston chapter.

International Society for Pediatric Neurosurgery

2017 Member, Scientific Committee

Park Reeves Syringomyelia Registry

2011- Advisory Board Member

Special Olympics of Philadelphia

1988 Chairman, Ceremonies and Scheduling Committee

Think First Injury Prevention Program

2003-present	Sponsor, Madison Chapter
2004-2007	Sponsor, Lebanon Chapter
2005-2007	Member, Efficacy Subcommittee

World Association of Lebanese Neurosurgeons (WALN)

2004	Member, Scientific Program Committee
2004-2008	Chair, Education Committee
2010	Member, Scientific Program Committee
2010-	Member, International Advisory Board

Madison Scientific, Inc. (Delaware)

2021-Present	Co-Founder, Board Member, and Treasurer
2022-Present	Chief Medical Officer

Board Certification:

1990	Diplomate, National Board of Medical Examiners
2001-Present	Diplomate, American Board of Neurological Surgery, re-certified 2011
	(Continuous Certification – Current)

2001-Present	Diplomate, American Board of Pediatric Neurological Surgery, re-certified
	2011, 2021

Professional Honors and Recognitions:

Professional Honors

1985	Phi Kappa Phi Honor Society
1995	Alpha Omega Alpha Medical Honor Society
2010	Children Matter Award, American Family Children's Hospital [there were multiple AFCH "star award"]
2016-18	University of Wisconsin School of Medicine and Public Health Block Grant Retention and Equity program
2016	Ambulatory Patient Experience and Quality Excellence Award, University of Wisconsin Medical Foundation
2016	Fast Tracker Award, Ambulatory Patient Experience and Quality Excellence Award, UW Health
2019	UW Health Clinic Practice Excellence Award, UW Health
2019	Lincoln F. Ramirez, MD, PhD Award for Restorative Neurosciences, Department of Neurological Surgery,
	University of Wisconsin School of Medicine and Public Health,
2021	Keynote address, Hydrocephalus Society
2022-23	Inductee, Gold Humanism Honor Society
2022-23	Recipient, Leonard Tow Humanism in Medicine Award
Visiting Professorsh	ips and Guest Lecturer
2012	Shapiro Guest Lecturer - University of Wisconsin School of Medicine and Public Health
2012	Keynote Speaker. Conquer Chiari. Chicago, IL.
2014	Visiting Professor, Nemours/Alfred I. DuPont Hospital for Children, Philadelphia, PA
2014	Visiting Professor, Department of Neurology, Mayo Clinic, Jacksonville, FL
2015	Van Wagenen Lecturer, 2015 AANS Annual Scientific Meeting
2016	Visiting Professor, Mayo Clinic, Rochester MN
2017	Joan Venes Visiting Professor, University of Michigan Health System Department of Neurosurgery, Ann Arbor, MI
2020	Guest Lecturer. Web Symposium of Neuroendoscopy of the Brazilian Society for Pediatric Neurosurgery – SBN Ped
2020	Virtual Visiting Professor, Department of Neurosurgery, The University of Texas at Austin, Dell Medical School, Austin, TX
2020	Special Lecture (Virtual). Brazilian Society of Pediatric Neurosurgery

Mentored Awards

2000	Mayfield award of the American Association of Neurological Surgery/Congress of Neurological Surgeons (AANS/CNS) Spine section
2002	(Ketan Bulsara) Hydrocephalus Association Award (Joshua Medow)
2002	University Bookstore Academic Excellence Award (Aaron Nelson)
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2003	University of Wisconsin, Shapiro Summer Research Award (Jason Sansone)
2003-2004	AANS/CNS Section on Pediatric Neurological Surgery, Kenneth
	Shulman Award (Joshua Medow)
2006	Pennsylvania Neurosurgical Society Resident Basic Research Award
2000	(Elias Rizk)
2006	AANS/CNS Section on Pediatric Neurological Surgery, Kenneth
2000	Shulman Award (Elias Rizk)
2007	Pennsylvania Neurosurgical Society Resident Clinical Research Award
	(Elias Rizk)
2008	University of Wisconsin Hilldale Award (Krista Stewart)
2008	American Academy of Neurological Surgeons Resident Research (Elias
	Rizk)
2008	Pediatric Neurosurgery Traveling Fellowship (Elias Rizk)
2009	CNS/Codman Fellowship Award (Nirav Patel)
2010	University of Wisconsin Hilldale Award (Tyler Wanke)
2010	American Academy of Neurological Surgeons Neurosurgery Research and
2010	Education Foundation Fellowship (NREF) Award (Nirav Patel)
2010	American Academy of Neurological Surgeons Medical Student Summer
2010	Research Fellowship (Krista Stewart)
2010	Neurosurgery Research and Education Foundation Fellowship (NREF)
2010	award (Nirav Patel)
2012	Shapiro Summer Research Award (Thomas Cassini)
2012-2017	Neurosurgery Research and Education Foundation fellowship (Kim
2010-2017	Hamilton)
2017	University of Wisconsin Hilldale Award (Felissa Hong)
2017	•
2017	Best poster award for graduate students, Research Day (Fall 2017), UW
2010	Department of Neurological Surgery
2018	Hilldale fellowship (mentor for Kyle Zielinski)
Teaching Awards	
2006	Best Faculty Teaching Award, Department of Neurological Surgery
2007	Citation for Medical Student Teaching, Department of Neurological
,	Surgery, University of Wisconsin School of Medicine and Public Health
2008	Citation for Medical Student Teaching, Department of Neurological
	- <i>D</i> , r <i>B</i>

Surgery, University of Wisconsin School of Medicine and Public Health

2011 2016 2018	Dean's Research Mentorship Award (Inaugural), University of Wisconsin School of Medicine and Public Health Best Faculty Teaching Award, Department of Neurological Surgery Citation for Medical Student Teaching, Department of Neurological Surgery, University of Wisconsin School of Medicine and Public Health
Research Awards	
2001	Honorable Mention (Engineering Expo): Electrosurgical drill for endoscopic craniosynostosis
2003-2005	Howard Hughes Medical Investigator, University of Wisconsin Pilot Project
2004	Burroughs Wellcome Fund (BWF) Clinical Scientist Awards in Translational Research (Winner of University of Wisconsin internal competition)
2006	Federation of American Societies for Experimental Biology (FASEB), abstract chosen for oral presentation and \$500 award
2012	National Institutes of Health Director's Pioneer Award - Finalist
2012	Brain Research Foundation - University of Wisconsin internal competition winner
2016	Best poster award for graduate students, Research Day, University of Wisconsin Department of Neurological Surgery
2016	Best poster award for undergraduate students, Research Day, University of Wisconsin Department of Neurological Surgery

Patents (active, pending, and expired)

- 1. US Patent No. 8,876,744 B2 (Issued November 4, 2014): Systems and Methods for Controlling Cerebrospinal Fluid in a Subject's Ventricular System
- 2. Published U.S. Patent No. US 10,709,879 B2 (July 14, 2020): Cerebrospinal-Fluid Shunt Valve System
- 3. P01334US: Electrosurgical drill for endoscopic craniosynostosis (expired)
- 4. Activation of axon repair by defined gene combinations CAP23/GAP43 (expired)
- 5. 5-methyltetrahydrofolic acid as therapy for tissue injury. Patent 61/075, 650 (expired)
- 6. Nitrous Oxide Epigenetic Switch (expired)

Extramural Funding & Grants

Current Grants

Agency: Cost: Project Title: Role:	Theodore W. Batterman Family Foundation Fellowship \$75,000/yr (2018-2023) Hydrocephalus Research PI
Agency: Title: Cost: Role:	American Syringomyelia and Chiari Alliance DNA methylation in familial Chiari I malformation \$99,999 (05/1/2021-6/01/2023) PI
Agency:	The John Sandin Creativity and Research Award (to Mark Kraemer), UW Department of Neurological Surgery
Title:	Developing real-time survey methods to study headaches in hydrocephalic patients
Cost:	\$15,000 (07/01/21-06/30/2023)
Role:	Mentor
Agency: Title: Cost: Role:	ICTR Pilot Award DNA Methylation in Spina Bifida \$50,000 (09/01/2022-08/31/2023) PI

Past Funded Grants

Agency: Title: Role: Effort: Project Period:	American College of Surgeons Faculty Research Fellowship Gene Expression in CNS Regeneration PI 10% 07/01/2000-06/30/2002
Agency:	CreFF award from UW-GCRC supported by NIH-M01 RR03186
Title:	Randomized, placebo-controlled, double-blind, parallel group study to determine the efficacy and safety of intravenous folic acid in pediatric patients following severe traumatic brain injury: A pilot study.
Role:	PI
Effort:	10%
Project Period:	08/28/2002-03/09/2009
Agency:	Kohl for Kids
Title:	Think First Injury Prevention Program-Madison chapter
Role:	Chapter Sponsor
Total Costs:	\$50,000
Agency: Title:	Howard Hughes Medical Investigator UW Pilot Project Folate antagonists in the injured adult CNS

Role:	PI
Effort:	25%
Total Costs:	\$50,000
Project Period:	2003-2005
Agency: Title:	American Syringomyelia Alliance Project Spatial and Temporal CSF flow patterns in Chiari I malformation and the development of syringomyelia.
Role:	PI
Total Costs:	\$50,000
Project Period:	10/01/2003-9/30/2004
Agency:	Theodore W Batterman Family Foundation
Title:	The Folate Pathway in CNS Repair
Role:	PI
Total Costs:	\$15,000
Project Period:	02/01/2006-01/31/2007
Agency:	Med School Research Committee
Title:	The Folate Pathway in CNS Repair
Role:	PI
Total Costs:	\$15,000
Project Period:	2/01/2006-1/31/2007
Agency:	NIH 1R01HD047516-01
Title:	Folic acid enhances repair in the adult CNS
Role:	PI
Effort:	25%
Total Costs:	\$878,672
Project Period:	2006-2012
Agency:	NIH 3R01HD047516-04S1 ARRA Supplement
Title:	Folic acid enhances repair in the adult CNS
Role:	PI
Effort:	20% in conjunction with 1R01HD047516-01
Total Costs:	\$281,108
Project Period:	9/2009-9/2011
Agency: Title: Role: Effort: Total Costs: Project Period:	1R15NS071455-01 NIH R15 Clinical Utility of MR based Hydrodynamic Parameters in Chiari Malformation Collaborator, PI: Frank Loth, Ph.D. 0% \$486,116 5/2010-4/2012

Agency:	UW Graduate School Fall Competition
Title:	Transgenerational effects of folate on CNS repair
Role:	PI
Total Costs:	\$34,939
Project Period:	07/12/2012-06/30/2013
Agency:	Theodore W Batterman Family Foundation
Title:	Wisconsin Hydrocephalus Overshunting Project
Role:	PI
Effort:	.24 Calendar
Total Costs:	\$408,000
Project Period:	1/1/2013-12/31/2016
Agency:	March of Dimes Gene Discovery and Translational Research Grant
Title:	Epigenetic injeritance of a therapeutic trait
Role:	PI
Effort:	1.2 Calendar
Total Costs:	\$275,000
Project Period:	06/01/2014-11/30/2017
Agency: Title: Project Period: Role: Total Costs:	University of Wisconsin Institute for Clinical and Translational Research The Role of TET Proteins in Folate-enhanced Axon Regeneration after Spinal Cord Injury 7/1/17-6/30/18 Co-PI \$50,000
Agency:	Theodore W. Batterman Family Foundation
Cost:	\$423,128
Title:	Wisconsin Hydrocephalus Overshunting Project
Project Period:	1/1/17-12/31/19
Project Aim:	The main goal of this project is to develop a smart shunt system.
Role:	PI
Agency: Cost: Title: Project Period: Project Aim: Role:	Washington University (Prime: PCORI) \$1,000/patient Posterior Fossa Decompression with or without Duraplasty for Chiari type I Malformation with Syringomyelia 12/01/2015-12/31/2019 Local site for this multi-center randomized prospective study Site PI
Agency:	University of Wisconsin Fall Competition (WARF)
Cost:	\$73,989

Title: Project Period: Project Aim: Role:	Molecular targets of transgenerational epigenetic inheritance for a beneficial axon regeneration trait in response to folate treatment 7/1/18-6/30/19 The goal of this basic science project is to determine the epigenetic underpinnings of the transgenerational effects of folate in the central nervous system PI
Agency: Cost: Title: Project Period: Role:	2020 WARF Accelerator Grant \$124,500 A Smart Shunt Valve to Treat Hydrocephalus 2020-2021 PI
Agency: Cost: Project Title: Project Period: Role:	Phase I SBIR: National Science Foundation \$255,977 SBIR Phase I: Smart Shunt Valve to Treat Hydrocephalus 12/01/2020-05/31/2022 co-Founder, Treasurer and Consultant (PI: Tyler Wanke, CEO of Madison Scientific, Inc.)
Agency: Cost: Project Title: Project Period: Role:	Discovery to Product (D2P): State Economic Engagement and Development (SEED) Research Program \$105,000 Benchtop Testing of Cerebrospinal Fluid Shunt Valves 07/01/2021 – 10/31/2022, with no cost extension until February 2023 Lead PI
Agency: Cost: Project Title: Project Period: Role:	NIH R21HD103111 \$416,875 Evaluating Human Pluripotent Stem Cell-Derived Neural Rosette Arrays as a Neural Tube Defect Risk Screening Platform 4/01/2021-3/31/2023 Co-I (PI: Randolph Ashton)

Completed Training Grants and Mentored Trainee Grants

Agency:	NREF - American Association of Neurological Surgeons
Title:	Folic Acid Increases Spinal Cord Regeneration Across Multiple
Generations	
Role:	Mentor for Nirav Patel
Total Costs:	\$40,000
Project Period:	7/2010-6/2011

NREF – American Association of Neurological Surgeons
The Folate and Methylation Pathway in Regeneration and Recovery of the
Injured Peripheral Nervous System
Mentor for Kimberly Hamilton
.12 Calendar
\$40,000
07/01/2016-12/31/2017

Clinical Trials:

Current Clinical Trials

Agency:	American Syringomyelia Alliance Project
Title:	Outcomes in Patients Undergoing Surgical Intervention for Chiari Type I Malformation with Syringomyelia Multi-Center Chiari Clinical Trial
Role:	PI
Effort:	.6 Calendar
Total Costs:	\$203,704
Project Period:	05/01/2007-04/30/2018
Agency:	Washington University
Title:	Park Reeves Syringomyelia Registry and Data Use Agreement
Role on Project:	Local PI
Effort:	1%
Total Costs:	\$28,000
Project Period:	05/18/2011-12/31/2099
Agency:	Patient Centered Outcomes Research Institute (PCORI) Park-Reeves
	Registry, Washington University
Title:	Cluster RCT for PFDD vs PFD for Chiari I malformation + syringomyelia
Role on Project:	Local PI
Effort:	1%
Project Period:	2016-2023

Past Clinical Trials (we need to add dates on all of these)

Agency:	Multi-center trial based in Vancouver, Canada
Title:	Endoscopic Shunt Insertion Trial
Role:	Local PI
Agency:	Multi-center trial based in Utah
Title:	Shunt Infection Trial
Role:	Local PI
Title:	Folic acid in Pediatric Head Injury: A randomized controlled trial

Role:PIAgency:American Syringomyelia and Chiari Alliance ProjectTitle:Chiari/Syringomyelia surgery multi-center trialRole:Study PI

Invited Speaking Engagements, Presentations, Symposia & Workshops:

Invited Speaking Engagements and Presentations

<u>International</u>

- 1998: The current management of pediatric brain tumors Neurology and Neurosurgery Grand Rounds American University of Beirut Beirut, Lebanon
- 1998: Spina Bifida Occulta Neurology and Neurosurgery Grand rounds American University of Beirut Beirut, Lebanon
- 1999: Ventricle size and CT scan reports World Association of Lebanese Neurosurgeons Second Homecoming Meeting Beirut, Lebanon
- 1999: Shunt Deaths in the 1990s World Association of Lebanese Neurosurgeons Second Homecoming Meeting Beirut, Lebanon
- 2000: New Observations in Syringomyelia Pan Arab Neurosurgical Society Sharm El Sheikh, Egypt
- 2001: Pediatric Brain Tumors Middle East Medical Assembly Beirut, Lebanon
- 2003: The folic acid effect is not limited to the embryonic CNS: Recent data from the injured adult CNS 3rd International Neural Tube Defects Conference Charleston, SC
- 2004: Hydrocephalus: To shunt or not to shunt

World Association of Lebanese Neurosurgeons Beirut, Lebanon

- 2005: The role of DNA methylation in CNS regeneration 4th International Neural Tube Defects Conference Indian Wells, CA
- 2006: Folate, DNA Methylation, and CNS Repair World Association of Lebanese Neurosurgeons Beirut, Lebanon
- 2007: The Role of the Folate Pathway in CNS Regeneration and Repair 5th International Neural Tube Defects Conference Monterey, CA
- 2009: Folate and CNS Repair World Association of Lebanese Neurosurgeons Beirut, Lebanon
- 2009: Epigenetics World Association of Lebanese Neurosurgeons Beirut, Lebanon
- 2009: Endoscopy for Hydrocephalus World Association of Lebanese Neurosurgeons Beirut, Lebanon
- 2009: Management of Tethered Cord Syndrome in adults World Congress of Neurological Surgery Annual Meeting Boston. MA
- 2009: Myelomeningocele Closures World Congress of Neurological Surgery Annual Meeting Boston. MA
- 2009: The role of the folate pathway in repair to the injured Central Nervous System 6th International Neural Tube Defects Conference Burlington, VT
- 2010: Pediatric Neuroendoscopy
 4th World Congress for Endoscopic Surgery of the Brain Skull Base and Spine
 Pittsburgh, PA
- 2011: Folate Promotes Endogenous Axonal Regeneration by Epigenetic Mechanisms

8th International Conference on Homocysteine Metabolism Lisboa, Portugal

- 2011: Folic Acid Exerts Direct Effects on Spinal Cord Neurons to Enhance Axonal Regrowth
 after Injury: *in vitro*7th International Conference on Neural Tube Defects
 Austin, TX
- 2012: Transgenerational Epigenetic Enhancement of CNS Axon Regeneration through Folate Supplementation The American Society of Pediatric Neurosurgeons 35th Annual Meeting San Juan, Puerto Rico
- 2012: Parameters of Folate-mediated Tissue Regeneration and Fairy Tale Heroines FASEB Summer Research Conference Crete, Greece
- 2013: Vein of Galen Malformation: Case Report. In, Great Saves and Great Complications The World Association of Lebanese Neurosurgeons Beirut, Lebanon
- 2013: Intraventricular Neuroendoscopy: A Personal Experience The World Association of Lebanese Neurosurgeons Beirut, Lebanon
- 2013: Transgenerational Epigenetic Inheritance of a Therapeutic Trait Methyl Supplementation 8th International Conference on Neural Tube Defects Austin, TX
- 2014: Spina bifida. Present challenges and future prospects The American Society of Pediatric Neurosurgeons 37th Annual Meeting Guanacaste, Costa Rica
- 2016: Keynote Speaker Inauguration of Fadlo R. Khuri, M.D. as the 16th President of the American University of Beirut, Academic Symposium and Inauguration Program American University of Beirut Beirut, Lebanon
- 2017: Introductory Comments on Neurosurgical Implications of Spina Bifida
 10th International Conference on Neural Tube Defects
 Austin, TX

2017: Hydrocephalus: The Major Cause of Cognitive and Life-Threatening Problems in NTDs

10th International Conference on Neural Tube Defects Austin, TX

- 2017: Overdrainage-Related Ventricular Tissue is a Significant Cause of Proximal Shunt Obstruction International Society of Pediatric Neurosurgery Denver, CO
- 2020: Special Lecture: VP Shunt Malfunction Brazilian Society of Pediatric Neurosurgery
- 2020: Shunt malfunction and endoscopy Web Symposium of Neuroendoscopy of the Brazilian Society for Pediatric Neurosurgery – SBN
- 2021: Keynote Speaker Lebanese American University Hooding Ceremony Virtual graduation ceremony
- 2021: Transgenerational disruption of DNA methylation marks by ancestral folate supplementation is associated with enhanced axonal regeneration. Epigenetic inheritance impact on biology and society symposium Zurich (virtual)
- 2021: Keynote address: Chronic Overdrainage in Shunted Pediatric Hydrocephalus: Human and Experimental Observations 13th Meeting of the Hydrocephalus Society (virtual)
- 2022: Monthly conferences Solidarity Bridge Bolivia (virtual).

<u>National</u>

- 1997: The Chiari Zero malformation AANS/Congress of Neurological Surgeons (CNS) Pediatric Section Annual Meeting New Orleans, LA
- 1997: Split Cord Malformations in Myelomeningocele Patients AANS/CNS Pediatric Section Annual Meeting New Orleans, LA

- 2000: Spina Bifida in Modern Times: Nature vs. Nurture Educational Teleconference Network
- 2000: Spinal cord pulsations as a determinant of pathological pressure within a syrinx AANS/CNS Pediatric Section Annual Meeting
- 2001: Folic acid supplementation enhances CNS regeneration 69th AANS Annual Meeting Toronto, Ontario
- 2001: Idiopathic Sryingomyelia 51st CNS Annual Meeting San Diego, CA
- 2001: Cranial Shape Problems and Positional Molding National Association of Pediatric Nurse Practitioners Meeting
- 2001: Folic Acid in CNS Regeneration AANS/CNS Pediatric Section Annual Meeting Toronto, ON
- 2002: Endoscopic Resection of Colloid Cysts 52nd CNS Annual Meeting Philadelphia, PA
- 2002: CSF Flow Studies in Patients with Chiari I Malformation Hydrodynamics Conference Pittsburgh, PA
- 2002: Folate antagonists in CNS Regeneration American College of Surgeons San Francisco, CA
- 2002: Folic acid enhances repair mechanisms in the CNS American Academy of Neurological Surgeons Phoenix, AZ
- 2003: CSF flow dynamics in the foramen magnum of children with Chiari I malformations American Syringomyelia and Chiari Alliance Project Annual Meeting (ASAP) New York City, NY
- 2004: Chiari Flow Studies 27th Annual Meeting of the American Society of Pediatric Neurosurgeons (ASPN) Guanacaste, Costa Rica

- 2004: Folic acid in CNS Repair 34th Annual Society for Neuroscience Meeting San Diego, CA
- 2005: The Sodium Potassium ATPase Pump is essential in CNS regeneration AANS/CNS Pediatric Neurosurgery Annual Meeting Orlando, FL
- 2005: The role of DNA methylation in CNS regeneration 1st Annual Neural Tube Defects Meeting
- 2005: The role of DNA methylation in CNS regeneration American Academy of Neurological Surgery San Francisco, CA, 2005.
- 2006: American Syringomyelia Alliance Project Research web-based presentation
- 2006: The Folate Pathway, DNA Methylation, and CNS Repair Federation of American Societies for Experimental Biology Meeting (FASEB) Palm Springs, CA
- 2006: Non-quantitative CSF flow imaging in Chiari I malformation American Syringomyelia Alliance Project Annual Meeting Denver, CO
- 2007: Multi-Center Chiari Trial Update American Syringomyelia Alliance Project Annual Meeting Seattle, WA
- 2007: Understanding the Folate Pathway in CNS Repair American Academy of Neurological Surgery Las Vegas, NV
- 2007: The methyltransferases in CNS Regeneration after Injury AANS/CNS Pediatric Section Annual Meeting Miami, FL
- 2007: Nitrous Oxide Inhibits Neuronal Elongation in Culture AANS/CNS Pediatric Section Annual Meeting Miami, FL
- 2007: The Association of Faint Midline Lumbar Cutaneous Hemangioma with Occult Spinal Dysraphism AANS/CNS Pediatric Section

Miami, FL

- 2008: Folate and the CNS Society of Neurological Surgeons Madison, WI
- 2008: American Syringomyelia Alliance Project Phone Seminar
- 2009: Chiari Malformations Breakfast Seminar AANS/CNS Annual Meeting San Diego, CA
- 2009: Hydrocephalus Breakfast Seminar AANS/CNS Annual Meeting San Diego, CA
- 2009: Syringomyelia: Definitions, Concepts and Treatment American Syringomyelia Alliance Project Annual Meeting Madison, WI
- 2009: The Role of Folate Pathway in Repair of the Injured Central Nervous System Neural Tube Defects Annual Meeting Burlington, VT
- 2009: Surgical Management of Chiari and Syringomyelia CNS Annual Meeting New Orleans, LA
- 2009: Folic Acid Supplementation Enhances CNS Regeneration in Vitro The American Academy of Neurological Surgery Palm Beach, FL
- 2009: Epigenetic regulation of CNS regeneration and repair Duke University Durham, NC
- 2009: Supplementing methyl donor groups in the rat diet increases neural regeneration after spinal cord injury AANS/CNS Pediatric Section Annual Meeting Boston, MA
- 2009: Trends in Surgical Management of Chiari I/Syringomyelia in North America AANS/CNS Pediatric Section Annual Meeting Boston, MA

- 2010: Evaluation of the Child with a CSF Shunt AANS Annual Meeting Philadelphia, PA
- 2010: Chiari Malformations and Syringomyelia: Basic Definiations and Concepts American Syringomyelia and Chiari Alliance Project Annual Meeting Austin, TX
- 2010: ASAP Sponsored Research: Outcomes and Study Update American Syringomyelia and Chiari Alliance Project Annual Meeting Austin, TX
- 2010: Occult Spinal Dysraphism and the Tethered Cord Syndrome American Syringomyelia and Chiari Alliance Project Annual Meeting Austin, TX
- 2010: Folate Supplementation FASEB Summer Research Conference: Folic Acid, Vitamin B12, and One Carbon Metabolism" Carefree, AZ
- 2010: Chiari Controversies Conquer Chiari Research Conference (moderator) Chicago, IL
- 2010: Congenital Scientific Session AANS/CNS Section on Pediatric Neurosurgery Annual Meeting (moderator) Cleveland, OH
- 2011: Pediatric Neurosurgery Board Review AANS/CNS Webinar
- 2011: Participant CSF Think Tank Meeting Denver, CO
- 2011: Participant Syringomyelia Research Consortium Investigator Meeting Dallas, TX
- 2011: Folate Mediated Repair of the Central Nervous System through Epigenic Pathways Trauma and Neurocritical Care Symposium West Palm Beach, FL

- 2011: Controversial Topics 2: Choice of Treatment for Syringomyelia Associated with Chiari I Malformation and Enlarged Central Canal American Syringomyelia and Chiari Alliance Project Annual Meeting Denver, CO
- 2011: Outcomes in Patients Undergoing Surgical Intervention for Chiari Type 1 Malformation with Syringomyelia American Syringomyelia and Chiari Alliance Project Annual Meeting Denver, CO
- 2011: Epigenetic Pathways Modulate Repair of the injured Central Nervous System American Academy of Neurological Surgeons Annual Meeting Scottsdale, AZ
- 2012: The Chiari Malformations in Humans American College of Veterinary Internal Medicine (ACVIM) 2012 Forum New Orleans, LA
- 2012: Neuroendoscopy in the Treatment of Human Hydrocephalus and Other Anomalies. Neurology Keynote Speaker The American College of Veterinary Internal Medicine (ACVIM) New Orleans, LA
- 2012: ASAP Sponsored Research: Outcomes and Study Update American Syringomyelia and Chiari Alliance Project Annual Meeting Washington, DC
- 2012: Syringomyelia American Syringomyelia and Chiari Alliance Project Annual Meeting Washington DC
- 2012: Central Nervous System Repair. Keynote Speaker Conquer Chiari Chicago, IL
- 2013: Chiari 0 American Syringomyelia and Chiari Alliance Project Annual Meeting Los Angeles, CA
- 2013: ASAP Chiari and Syringomyelia Research Update American Syringomyelia and Chiari Alliance Project Annual Meeting Los Angeles, CA
- 2013: Surgery for obstructive non-tumoral posterior fossa problems
 42nd Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery

Toronto, Ontario

- 2014: General Overview of Surgical Aspects of Pediatric Chiari with Focus on Chiari I and Syringomyelia American Syringomyelia and Chiari Alliance Project Annual Meeting Princeton, NJ
- 2014: ASAP Chiari and Syringomyelia Research Update American Syringomyelia and Chiari Alliance Project Annual Meeting Princeton, NJ
- 2014: Hydrocephalus, Shunts and Shunt Problems in Children American Syringomyelia and Chiari Alliance Project Annual Meeting Ann Arbor, MI
- 2014: Folate, Epigenetics, and Central Nervous System Repair. Translational Science Research Seminar Series Nemours/Alfred I duPont Hospital for Children Wilmington, DE (Visiting Professor)
- 2014: Neuroendoscopy Grand Rounds, Jefferson University Department of Neurosurgery Wilmington, DE (Visiting Professor)
- 2015: The Wisconsin Hydrocephalus Survey: shunt-dependent hydrocephalus management style among members of the American Society of Pediatric Neurosurgeons 7th Meeting of the International Society for Hydrocephalus and CSF Disorders Banff, Canada
- 2015: The role of Tet1 in folate-enhanced spinal cord axon regeneration 9th International Conference on Neural Tube Defects Austin, TX
- 2015: Multifocal glioblastoma: a pediatric case and literature review Society of Neuro-Oncology Meeting San Antonio, TX
- 2015: CNS axon regeneration, folate, and epigenetics 16th International Symposium on Neural Regeneration (ISNR) Asilomar, Pacific Grove, CA
- 2015: CNS axon regeneration, folate, and epigenetics 16th International Symposium on Neural Regeneration (ISNR) Asilomar, Pacific Grove, CA (invited lecture).

- 2015: Outcome and Surgical Technique for Wide Arterial Sparing Encephalo-Duro-Synangiosis (WASEDS) for Moyamoya Disease 44th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery Seattle, WA
- 2016: Update on ASAP Chiari Syringomyelia Prospective Multi-Center Outcomes Study ASAP San Francisco, CA
- 2016: Pathophysiological Understanding and Management Style Among Senior North-American Pediatric Neurosurgeons 78th Annual Meeting. American Academy of Neurological Surgery Jackson Hole, WY
- 2016: Educating our patients and ourselves through research: A hydrocephalus journey Mayo Clinic Neurosurgery Core Curriculum Conference Rochester, MN (Visiting Professor)
- 2016: Epigenetics Mayo Clinic Rochester, MN (Visiting Professor)
- 2016: is a Significant Cause of Proximal Shunt Obstruction 84rd AANS Annual Scientific Meeting Chicago, IL
- 2016: Outcomes in Children Undergoing Surgical Intervention for Chiari I Malformation with Syringomyelia: A Prospective, Multi-center, Pilot Study 45th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery Orlando, FL
- 2017: Proximal shunt obstruction. Introduction. Proximal shunt malfunction symposium American Society of Pediatric Neurosurgeons Maui, HI
- 2017: Chronic Overdrainage: A Critical Cause of Proximal Ventricular Obstruction IHIWG American Society of Neuroradiology (ASNR) 55th Annual Meeting and Foundation of the ASNR Symposium Long Beach, CA
- 2017: Educating our Patients and Ourselves through Research. A Hydrocephalus Journey University of Michigan Medical School, Department of Neurosurgery Ann Arbor, MI (Joan Venes Visiting Professor)

- 2017: Parameters of Folate-Mediated Epigenetic Tissue Regeneration and Fairytale Heroines University of Michigan Medical School, Department of Neurosurgery Ann Arbor, MI (Joan Venes Visiting Professor)
- 2017: The Franc D. Ingraham Award for Distinguished Service and Achievement. WJ Oakes. Introduction
- 2017: Epigenetics: The answer to everything XXIX Conference of the American Syringomyelia and Chiari Alliance Project Long Island, NY
- 2017: Sixty years later, what Pediatric Neurosurgeons know (and wish they knew) about shunted hydrocephalus Chiari and Syringomyelia Foundation (National Broadcast) Madison, WI
- 2017: Introduction of Frank D. Ingraham Award for Distinguished Service and Achievement Recipient: W. Jerry Oakes, M.D., F.A.A.N.S. (L)
 46th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery Houston, TX
- 2019: Outcomes in Children Undergoing Posterior Fossa Decompression and Duraplasty with and without Tonsillar Reduction for Chiari Type 1 Malformation and Syringomyelia: A Pilot Prospective Multi-Center Cohort Study American Syringomyelia and Chiari Alliance Project Philadelphia, PA
- 2020: Bermans Iskandar, Tyler Wanke, Logan Brock, Victor Simoes CSF Shunt Valve System: Wisconsin Smart Valve Kellogg Medical Technology Class Presentation Chicago, IL
- 2020: Ventricular-peritoneal shunt overdrainage is driven by gravity and cerebrospinal fluid pulsations: computer simulation and benchtop testing 43rd Annual ASPN Meeting Nassau, Bahamas
- 2020: Educating our Patients and Ourselves through Research: A Hydrocephalus Journey. Virtual Visiting Professor The University of Texas at Austin, Dell Medical School, Department of Neurosurgery Austin, TX
- 2020: Clinical Indications for Ventriculostomy Tubes and Insights Into Causes of Failure: New Neurosurgical Observations. Virtual. American Society of Neuroradiology (ASNR)

- 2020: Hsu DA, Armstrong SA, Koueik J, Kraemer M, Yang Z, Meah J, Luzzio C, Iskandar BJ. Bringing to a halt 60 years of VP shunt obstruction by understanding the peculiar relationship between overdrainage and underdrainage Chiari and Syringomyelia Foundation 2020 Virtual Research Colloquium
- 2020: Koueik J, Broman AT, Iskandar BJ Likelihood of CSF shunt independence among chronically shunted patients 49th Annual AANS/CNS Section on Pediatric Neurological Surgery Virtual Meeting
- 2020: The Tethered Spinal Cord: What is it? What do we do about it? American Syringomyelia and Chiari Alliance Project Virtual
- 2021: The Myelomeningocele. The anomaly that defined pediatric neurosurgery Educational Lecture Series – AANS/CNS Section on Pediatric Neurosurgery (Invited Lecture) Salt Lake City, UT
- 2021: Epigenetically-Mediated Neural Regeneration and Fairytale Heroines Inaugural Timothy George Memorial Lecture and Visiting Professor, UT Austin Austin, TX
- 2022: Pediatric Brain Tumors. AANS Community (co-organizer) 2022 Annual AANS Scientific Meeting Philadelphia, PA
- 2022: Hydrocephalus. AANS Community (co-organizer and co-moderator) 2022 Annual AANS Scientific Meeting Philadelphia, PA
- 2023: Epigenetically-Mediated Neural Regeneration and Fairytale Heroines Leo M. Davidoff Department of Neurological Surgery Grand Rounds Montefiore Medical Center, the University Hospital for Albert Einstein College of Medicine Virtual Presentation
- 2023: Chebel R, Guan C, Hu Y, Luzzio C, Iskandar BJ and Medow J. Brain Compliance Estimation Based on ICP Waveforms through In Vitro Study 2023 AANS Annual Meeting Los Angeles, California
- 2023: Chebel R, Koueik J, Yang Z, Rubin T, Sivan V, Broman A, Medow J, Luzzio C, Hsu D and **Iskandar BJ**. Ventriculoperitoneal Shunt Exhibits Chronic Overdrainage due to Gravity and Cerebrospinal Fluid Pulsations: Benchtop Model

2023 AANS Annual Meeting Los Angeles, California

Local/Regional

- 2007: Head Injury UW Hospital and Clinics, PICU nurses Madison, WI
- 1997: Shunts UW Hospital and Clinics, O.R. nurses Madison, WI
- 1997: Current trends in pediatric brain tumor management Neurosurgery Grand Rounds UW School of Medicine and Public Health/Teleconference with the Gunderson Clinic in LaCrosse, WI Madison, WI
- 1997: Hydrocephalus today Pediatrics Grand Rounds UW School of Medicine and Public Health
- 1997: Central nervous system regeneration Neurosurgery research conference UW School of Medicine and Public Health
- 1997: Spina bifida occulta Perinatal Conference Meriter Hospital/Park
- 1997: Management of pediatric head and spine injury "Update in Pediatrics" annual conference Wausau, WI
- 1997: Occult Spinal Dysraphism and the Tethered Spinal Cord Family practice conference Beaver Dam, WI
- 1997: Management of severe head injury: Conclusions and future directions Neurosurgery/PICU Head Injury Conference UW School of Medicine and Public Health
- 1998: Current Management of Hydrocephalus

Pediatric conference Dubuque, IA

- 1998: What's special about the critical care of the head-injured child Pediatric Head Injury Management Conference. Part II UW Hospital and Clinics
- 1998: The clinical and molecular characteristics of pediatric brain tumors UW CME series Rockford, IL
- 1998: The Neurological Assessment Pediatric Basic Critical Care Course UW Children's Hospital
- 1998: Surgery of the brachial plexus, with emphasis on obstetric palsies Neurology Grand Rounds UW School of Medicine and Public Health
- 1998: The Chiari Malformations "Progress in Pediatrics" annual conference Madison, WI
- 1998: Neurological assessment of the pediatric patient UW Children's Hospital Basic Critical Care Course
- 1998: Shunts and shunt problems Weekly pediatric resident conference UW School of Medicine and Public Health
- 1998: Pediatric Head Trauma Management Dubuque, Iowa
- 1998: Hydrocephalus Department of Rehabilitation conference UW School of Medicine and Public Health
- 1998: Craniosynostosis Pediatric Grand Rounds UW School of Medicine and Public Health
- 1998: Obstetric Plexus palsies Pediatric Department Greenbay, WI

- 1998: Craniosynostosis Updates in Pediatrics Appleton, WI
- 1998: Shunts and Intracranial Pressure problems Medical student pilot neuroscience course UW School of Medicine and Public Health
- 1998: Hydrocephalus today: CME Wisconsin Radio Teleconference
- 1999: Current Trends in Myelomeningocele Treatment Neonatology Grand rounds Meriter Hospital
- 1999: Spina Bifida Management Urology Grand Rounds UW School of Medicine and Public Health
- 1999: Chiari Malformations and the Tethered Spinal Cord UW Hospital and Clinics OR nursing conference
- 1999: Management of Shunts and Shunt Infections Pediatric Residents Conference UW School of Medicine and Public Health
- 1999: Current Trends in the Management of Pediatric Head Injury Pediatric Trauma/Management Conference Kids First with Dr. C. Everett Koop Greenbay, WI
- 1999: New Trends in Pediatric Neurosurgery Anesthesia Grand Rounds UW School of Medicine and Public Health
- 1999: Craniosynostosis WI State Society of Neurosurgery
- 1999: Management of Brachial Plexus Lesions Neurosurgery residents conference UW School of Medicine and Public Health
- 1999: CNS Regeneration: Genetics vs. Environment Neurosurgery Grand Rounds/Research Conference UW School of Medicine and Public Health

- 1999: Pediatric Head Injury Fond-du-Lac Pediatrics Conference Fond du Lac, WI
- 1999: Spina Bifida: Nature vs. Nurture UW Pediatric Grand Rounds UW School of Medicine and Public Health
- 2000: Obstetric Plexus Palsies Perinatology/Neonataology Conference UW School of Medicine and Public Health
- 2000: Management of the Shunted Patient Pediatric Residents Conference UW School of Medicine and Public Health
- 2000: Caring for Children with Spina Bifida Surgical Care of Infants and Children: an update Monona Terrace, Madison, WI
- 2000: Pediatric Head and Spine Trauma Pediatric Critical Care course UW School of Medicine and Public Health
- 2000: The Role of Surgery in Pediatric Brain Tumor Management Caring for Children with Brain Tumors conference American Family Children's Hospital, Madison, WI
- 2000: Modern Epilepsy Surgery Pediatric Grand Rounds UW School of Medicine and Public Health
- 2000: Managing Neonates with Spina Bifida Meriter Neonatology Conference Madison, WI
- 2000: Syringomyelia: I don't get it Neurosurgery Grand Rounds UW School of Medicine and Public Health
- 2000: Epilepsy Fond-Du-Lac Community meeting Fond du Lac, WI
- 2001: Neonatal hemorrhage

Meriter Neonatology/Perinatology Conference Madison, WI

- 2001: Hydrocephalus and shunts UW Department of Rehabilitation Resident Conference UW School of Medicine and Public Health
- 2001: Neuroanatomy for medical students UW medical student talk UW School of Medicine and Public Health
- 2001: Brain embryology, Part II UW Neurosurgery Residents' Conference UW School of Medicine and Public Health
- 2001: Pediatric neurosurgical critical care UW Pediatric Critical Care Course UW School of Medicine and Public Health
- 2001: Brain embryology, Part I UW Neurosurgery Residents' Conference UW School of Medicine and Public Health
- 2001: Intracranial Pressure and Hydrocephalus UW Neuroscience Pilot Course UW School of Medicine and Public Health
- 2001: The Role of Folic Acid in CNS Regeneration UW Neurosurgery Grand Rounds UW School of Medicine and Public Health
- 2001: The Management of Encephaloceles and Chiari Malformations UW Neonatology/Perinatology conference Madison, WI
- 2001: Surgery of the Brachial Plexus UW Plastic Surgery Grand Rounds UW School of Medicine and Public Health
- 2001: Cranial Shape Abnormalities Pediatric Grand Rounds Dubuque, IA
- 2001: Hydrocephalus UW Pediatric Residents Conference

UW School of Medicine and Public Health

- 2002: Hydrocephalus Pediatric Residents Conference UW School of Medicine and Public Health
- 2002: Brachial Plexus Surgery Mercy Medical Grand Rounds Oshkosh WI
- 2002: Research in Clinical Practice UW Neuroscience Society UW School of Medicine and Public Health
- 2002: Cranial Shape Anomalies Surgical Care of Infants and Children Madison WI
- 2002: Embryology of the Brain and Brain Malformations UW Neurosurgery Resident Conference UW School of Medicine and Public Health
- 2002: Embryology of the Brain and Brain Malformations UW Neurosurgery Resident Conference UW School of Medicine and Public Health
- 2002: Embryology of the Spine and Spinal Malformations UW Neurosurgery Residents Conference UW School of Medicine and Public Health
- 2002: Hydrocephalus UW Medical Student Neuroscience Course UW School of Medicine and Public Health
- 2002: Neurological Problems in Critical Care Nursing Critical Care Nursing (Regional) Conference Madison WI
- 2002: Hydrocephalus Pediatric Residents Conference UW School of Medicine and Public Health
- 2002: Hydrocephalus UW Medical Student Neuroscience Course UW School of Medicine and Public Health

- 2003: Brain Embryology Neurosurgery Residents Conference UW School of Medicine and Public Health
- 2003: Hydrocephalus UW Medical Student Neuroscience Course UW School of Medicine and Public Health
- 2003: Pediatric Head Trauma Management UW Trauma Conference UW Hospital and Clinics
- 2003: Care of the Pediatric Neurosurgical Patient Pediatric Intensive Care Conference UW School of Medicine and Public Health
- 2003: Hydrocephalus UW Medical Student Neuroscience Course UW School of Medicine and Public Health
- 2003: Brainstem Anatomy UW Medical Student Neuroanatomy Course UW School of Medicine and Public Health
- 2003: Flat Heads: When to Worry, What to Do AAP Regional conference
- 2003: Spine Embryology Neurosurgery Residents Conference UW School of Medicine and Public Health
- 2003: Hydrocephalus UW Medical Student Neuroscience Course UW School of Medicine and Public Health
- 2003: Surgery for Brachial Plexus Injuries UW Plastic Surgery Grand Rounds UW School of Medicine and Public Health
- 2004: Hydrocephalus UW Medical Student Neuroscience Course UW School of Medicine and Public Health
- 2003: Folic Acid in CNS Repair

SCIRP meeting UW School of Veterinary Medicine Madison, WI

- 2003: Hydrocephalus Pediatric Resident Conference UW School of Medicine and Public Health
- 2003: Lumps, Bumps, and Holes: Windows to the Spine Pediatric Grand Rounds UW School of Medicine and Public Health
- 2004: The Folate Pathway in CNS Repair SCIRP meeting UW School of Veterinary Medicine Madison, WI
- 2004: Cranial Shape Anomalies UW Pediatric Residents Conference UW School of Medicine and Public Health
- 2004: Pediatric Head Injury Pediatric Critical Care Conference UW School of Medicine and Public Health
- 2004: Congenital Hydrocephalus Meriter Hospital Neonatology/Perinatology Conference Madison, WI
- 2004: Surgery for Hydrocephalus UW Anesthesia Grand Rounds UW School of Medicine and Public Health
- 2004: Spina Bifida Spina Bifida Family Network Madison, WI
- 2004: Hydrocephalus UW OR Nurses UW Hospital and Clinics
- 2004: Brachial Plexus Surgery Plastic Surgery Grand Rounds UW School of Medicine and Public Health

- 2004: Neuroanatomy of the Brainstem Pediatric Resident Conference UW School of Medicine and Public Health
- 2004: Spina Bifida Occulta Dean Pediatrics Conference Madison, WI
- 2004: Shunt Management Learning Science Center talk series Madison, WI
- 2004: Spinal Anomalies Seminars in Pediatrics Madison, WI
- 2005: Hydrocephalus UW Neurosurgery Grand Rounds UW School of Medicine and Public Health
- 2005: Neuroembryology UW Pediatric Resident Conference UW School of Medicine and Public Health
- 2005: Surgery for Pediatric Brain Tumors Caring for Children with Brain Tumors regional conference Madison, WI
- 2005: Spina Bifida Occulta UW regional pediatric conference St. Elizabeth Hospital, Appleton, WI
- 2006: Shunt Issues with Pseudotumor cerebri Department of Ophthalmology Grand Rounds UW School of Medicine and Public Health
- 2006: Pediatric Neurosurgery in Uganda UW Neurosurgery Grand Rounds UW School of Medicine and Public Health
- 2006: The Sodium Potassium ATPase Pump in CNS Regeneration UW Neurosurgery Research Seminar UW School of Medicine and Public Health
- 2006: CNS Regeneration: An Update Guest Lecturer: Dr. Vemuganti's Neuroscience Course

UW Madison

- 2007: More on the Folate Pathway and CNS Repair UW Neurosurgery Grand Rounds UW School of Medicine and Public Health
- 2007: The Folate Pathway and CNS Repair UW Neurology Grand Rounds UW School of Medicine and Public Health
- 2007: Review in CNS Regeneration & Article Review Neuroscience NTP 675 UW Course
- 2007: The Role of the Folate Pathway in CNS Regeneration and Repair Neurosurgery Research Day UW School of Medicine and Public Health
- 2007: Cervical Spinal Cord Injury in Neonates UW Perinatology Conference UW School of Medicine and Public Health
- 2007: Hydrocephalus: Care Perspectives Appleton Perinatology Conference Appleton, WI
- 2007: Lumps Bumps and Holes: Window to the Spine Appleton Perinatology Conference Appleton, WI
- 2007: Pediatric Neurosurgery: The Specialty American Family Children's Hospital
- 2008: Brachial Plexus Surgery UW Plastic Surgery Grand Rounds UW School of Medicine and Public Health
- 2009: Going Beyond Survival: How we Improve Quality of Life in Children and Adults with Spina Bifida UW Pediatric Grand Rounds UW School of Medicine and Public Health
- 2009: Brachial Plexus Injuries UW Plastic Surgery Grand Rounds UW School of Medicine and Public Health

- 2010: The Key Neurosurgical Problems in Spina Bifida: Hydrocephalus and Shunts Current Treatments and Innovations in Spina Bifida Madison, WI.
- 2010: General Prevention and Treatment of Spina Bifida: Clinical and Basic Science Research. Current Treatments and Innovations in Spina Bifida Madison, WI
- 2011: Going Beyond Survival: Improving Quality of Life in Spina Bifida UW School of Nursing Madison, WI
- 2011: Pediatric Brain Tumors UW Neurology Resident's Conference Madison, WI
- 2011: Folate-Mediated Repair of the Central Nervous System through Epigenetic Pathways. Neuroscience Training Program Undergraduate Neurobiology Seminar course (Neuro 500) UW Madison
- 2011: Intracranial Neuroendoscopy UW Neuroanatomy Skull base and Neuroendoscopy Course Madison, WI
- 2011: Epigenetic pathways modulate repair of the injured CNS: The biphasic curve UW Neurosurgery Research Day Madison, WI
- 2012: Research in Medicine Shapiro Guest Lecture Madison, WI
- 2012: Folate-Mediated Repair of the CNS through the Folate Pathway Seminar in Nutritional Sciences UW Madison
- 2012: Hydrocephalus and VP shunts and nursing considerations UW Neurosurgery Nursing Madison, WI
- 2012: Review of CNS Regeneration UW NTP 675 course Madison, WI

- 2012: Hydrocephalus and VP shunts and nursing considerations UW Neurosurgery Nursing UW School of Medicine and Public Health
- 2012: Disclosure of unanticipated outcomes UW-SMPH Core Day Skills Lecture UW School of Medicine and Public Health
- 2012: Folate-mediated repair of the CNS through epigenetic pathways Seminar in Nutritional Sciences Madison, WI
- 2012: Pediatric Brain Tumors UW Neurology Resident's Conference UW School of Medicine and Public Health
- 2012: Folate, Epigenetics, and CNS Repair UW Neurosurgery Grand Rounds UW School of Medicine and Public Health
- 2012: Folate, Epigenetics, and Central Nervous System Repair. Seminar in Neuromotor Control UW Veterinary School Madison, WI
- 2013: Brachial Plexus Surgery UW Plastic Surgery Grand Rounds UW School of Medicine and Public Health
- 2013: Review of Modern Hydrocephalus and Shunt Care Hamilton Middle School Madison, WI
- 2013: Pediatric and Neonatal Brain Tumors Meriter Hospital Perinatology/Neonatology Conference Madison, WI
- 2013: Folate, Epigenetics, and CNS Repair First Annual UWSMPH Functional Recovery Symposium Madison, WI
- 2013: Brachial Plexus Injury in Infants Peripheral Nerve Symposium UW Department of Neurological Surgery

- 2014: Intracranial pressure monitoring NICU Nurses Conference American Family Children's Hospital
- 2014: Surgery for brachial plexus palsy UW Neuroradiology Fellows Conference UW School of Medicine and Public Health
- 2014: Chiari I: Syndrome or malformation UW Neuroscience Radiology Conference UW School of Medicine and Public Health
- 2014: Modern treatment of hydrocephalus Pediatric Nurses Conference American Family Children's Hospital
- 2014: Spina Bifida/Tethered Cord pathophysiology, diagnosis, and treatment Urology Grand Rounds UW School of Medicine and Public Health
- 2015: Research on Nerve Regeneration Peripheral Nerve Symposium UW School of Medicine and Public Health
- 2015: Healing of the Injured CNS Axonal Regeneration, Folate Biology, and Epigenetic Pathways Epigenetics Theme Joint Group Meeting UW Madison
- 2015: Nerve Regeneration and Epigenetics new leads UW School of Medicine and Public Health Department of Neurological Surgery 2015 Research Day Madison, WI,
- 2016: Craniofacial Disorders Neuroradiology Fellows' Conference, UW School of Medicine and Public Health
- 2016: CSF Shunt Malfunction Part I: Pathophysiology: Hypothesis, mathematical modeling, and clinical syndromes UW Neurosurgery Grand Rounds UW School of Medicine and Public Health
- 2016: Pediatric Neurosurgery: The Specialty. Invited lecture American Medical Student Association

Madison, WI

- 2016: CNS Shunts for Severe IVH-Update UW School of Medicine and Public Health Perinatal Conference Madison, WI
- 2016: Epigenetic Plasticity. Invited lecture UW School of Medicine and Public Health Neuroscience Group Madison, WI
- 2016: CSF Shunt Malfunction Part II: Smart shunt valve design and prototype UW Neurosurgery Grand Rounds Madison, WI
- 2016: Hydrocephalus Treatment and Research Pediatric Conference Aurora, Greenbay, WI
- 2016: Brachial Plexus Review. Invited lecture UW School of Medicine and Public Health Perinatal Conference Madison, WI
- 2016: Lesional Epilepsy: How do the data apply to children? Department of Neurology Epilepsy Case Conference UW School of Medicine and Public Health Madison, WI
- 2016: Methylation cycle agonists promote spinal axon regeneration in the injured adult central nervous system. (Poster presentation)
 152 Biology Undergraduate Research Symposium
 University of Wisconsin-Madison
 Madison, WI
- 2016: The inheritance of spinal axon regeneration trait in F3 progeny rats in response to ancestral folic acid is not gender-specific. (Poster presentation)
 152 Biology Undergraduate Research Symposium
 University of Wisconsin-Madison
 Madison, WI
- 2016: Ten Eleven Translocase 1 (TET1) expression increases with escalating doses of folic acid in spinal cord-injured rats. (Poster presentation)
 152 Biology Undergraduate Research Symposium University of Wisconsin-Madison Madison, WI.

- 2016: The congenital tethered spinal cord: how to spot it, evaluate it, and treat it UW Urology Grand Rounds UW School of Medicine and Public Health
- 2016: Beneficial transgenerational responses to ancestral folate supplementation UW-Madison Epigenetics Group Mini-Symposium Madison, WI
- 2016: Paradigm Shift in research on CSF shunt obstructions: The Wisconsin hydrocephalus project, Department of Neurological Surgery Research Day Madison, WI
- 2017: Molecular Mechanisms of Brain Damage UW NTP 675 Guest Lecturer Madison, WI
- 2017: UW Hydrocephalus Research Under the Microscope: Neurological Surgery Learning Series Madison, WI
- 2017: Healing of the Injured CNS: Axonal Regeneration, Folate Biology, and Epigenetic Pathways. Fall Rotator Talk IGPNS Graduate Program Madison, WI
- 2017: Ventriculoperitoneal Shunt Malfunction and New Possibilities on the Horizon Pediatric Neurocritical Care Research Group Madison, WI
- 2017: Folate-dependent epigenetic transgenerational inheritance of a therapeutic trait 2017 UW Madison Epigenetics Symposium, Wisconsin Institute of Discovery Madison, WI
- 2017: Chronic overdrainage mechanism of VP shunt malfunction Lebanese American University – UW Visit Madison, WI
- 2017: Midbrain and Pons/Medulla Anatomy Pediatric Neurology Lecture Series Madison, WI
- 2017: Brachial plexus and spinal cord Pediatric Neurology Lecture Series

Madison, WI

- 2018: Functional anatomy of the spinal cord Pediatric Neurology Lecture Series Madison, WI
- 2018: Improving quality of life in spina bifida Uehling-Wear Lectures Madison, WI
- 2018: Lumps Bumps and Holes: Windows to the Spine Urology Grand Rounds Madison, WI
- 2019: The Injured Brachial Plexus for the Non-Surgeon: Draw, Understand and Fix Wisconsin Nerve Symposium Madison, WI
- 2019: Brachial plexus anatomy Neurology Resident Conference Madison, WI
- 2019: Optimizing Urgent Care of the Child with Shunted Hydrocephalus Pediatric Emergency Care – Project ECHO Madison, WI
- 2020: Research efforts to resolve 60 years of CSF shunt malfunctions Department of Surgery Research Day University of Wisconsin School of Medicine and Public Health Madison, WI
- 2020: VP shunt overdrainage is driven by gravity and cerebrospinal fluid pulsations: Computer simulation and benchtop testing UW Department of Neurological Surgery Virtual Symposium
- 2020: VP shunt overdrainage is driven by gravity and cerebrospinal fluid pulsations: Computer simulation and benchtop testing UW Pediatric Neurology Virtual Lecture
- 2020: Spina bifida occulta and the tethered spinal cord UW Department of Urology Grand Rounds Virtual

- 2020: Going Beyond Survival Improving Quality of Life in Spina Bifida Urology Residents Program Rounds Virtual
- 2020: Koueik J, Broman AT, Iskandar BJ Likelihood of CSF shunt independence among chronically shunted patients

UW Department of Neurological Surgery Research Day Madison, WI

- 2020: A smart CSF shunting system to treat hydrocephalus WARF Accelerator presentation Madison, WI
- 2021: Neurosurgery Mock Oral Boards Madison, WI
- 2021: ED Evaluation and Management of VP Shunt Complications Ask the Experts lectures, Department of Emergency Medicine Madison, WI
- 2023: Neurosurgical intraventricular endoscopy: Part I University of Wisconsin Global Weekly Skull Base and Neuroanatomy Resident Course Madison, WI
- 2023: Neurosurgical intraventricular endoscopy: Part II University of Wisconsin Global Weekly Skull Base and Neuroanatomy Resident Course Madison, WI
- 2023: Cutaneous Anomalies Sauk Prairie Healthcare CME Conference Virtual Presentation
- 2023: Ventricular Neuro-Endoscopy Course (Course Organizer) University of Wisconsin School of Medicine and Public Health Madison, WI
- 2023: Intracranial Tumors Ventricular Neuro-Endoscopy Course (Course Organizer) University of Wisconsin School of Medicine and Public Health Madison, WI
- 2023: Shunt Endoscopy Ventricular Neuro-Endoscopy Course (Course Organizer) University of Wisconsin School of Medicine and Public Health Madison, WI
- 2023: Neuroanatomy

Pediatric Neurology Lecture Series Madison, WI

2024: Neuroanatomy Pediatric Neurology Lecture Series Madison, WI

Invited Symposia & Workshops

International/National

- 1997: Issues in complex pediatric spine. The tethered spinal cord (Luncheon seminar) Congress of Neurological Surgeons New Orleans, LA
- 1999: Neuroscope '99 (Invited faculty) Medtronic PS Medical Neuroendoscopy Workshop New Orleans, LA
- 1999: Upper Cervical Spine Fractures First Annual Spine Symposium American University of Beirut Beirut, Lebanon
- 1999: Pediatric Spine Trauma First Annual Spine Symposium American University of Beirut Beirut, Lebanon
- 2000: Closing Large Myelomeningoceles (Luncheon Seminar) Congress of Neurological Surgeons San Antonio, TX
- 2001: Surgery of Brain Tumors in Children (Invited faculty) Middle East Medical Assembly Beirut, Lebanon
- 2002: Intracranial Endoscopy (Invited faculty) Congress of Neurological Surgeons Philadelphia, PA
- 2002: Hydrodynamics Conference (Invited faculty) Pittsburgh, PA

- 2003: Head Injury Breakfast Seminar (Invited faculty) American Association of Neurological Surgeons San Diego, CA
- 2003: Diagnostic Pitfalls in Hydrocephalus (Invited faculty) Weekend Course on Hydrocephalus/Congress of Neurological Surgeons Denver, CO
- 2003: Hydrocephalus (Session moderator) AANS/CNS Section on Pediatric Neurological Surgery San Diego, CA
- 2004: Chiari I Malformation (Breakfast Seminar Panelist) American Association of Neurological Surgeons Orlando, FL
- 2005: Session Moderator NIH Hydrocephalus Consensus Conference Bethesda, MD
- 2006: Pediatric Neurosurgical Cases Breakfast Seminar: Meet the Experts American Association of Neurological Surgeons San Francisco, CA
- 2006: Chiari I: Syndrome or Malformation Breakfast Seminar American Association of Neurological Surgeons San Francisco, CA
- 2006: WALN Conference (Session moderator) Beirut, Lebanon
- 2007: Chiari Malformations (Breakfast Seminar Panelist) American Association of Neurological Surgeons Washington, D.C.
- 2008: The Chiari Malformations: Diagnosis and Controversies (Breakfast Seminar Panelist) American Association of Neurological Surgeons Chicago, IL
- 2009: Chiari Malformations (Breakfast Seminar Panelist) American Association of Neurological Surgeons San Diego, CA
- 2009: Pediatric Hydrocephalus (Breakfast Seminar Panelist) American Association of Neurological Surgeons San Diego, CA

- 2011: Scientific Session Moderator American Association of Neurological Surgeons Denver, CO
- 2013-2015: Co-Organizer and Moderator: Pediatric Scientific Sessions of the AANS and CNS national meetings
- 2017: Co-Organizer Moderator: Pediatric Session AANS International Neurosurgery Symposium Los Angeles, 2017
- 2017: Abstract reviewer International Society of Pediatric Neurosurgeons Denver, CO 2017
- 2017: Co-organizer and Moderator Proximal shunt malfunction symposium American Society of Pediatric Neurosurgeons Maui, HI
- 2021: Does the Chiari 0.5 exist? Point/Counter Point lecture series (Moderator) 50th Annual AANS/CNS Section on Pediatric Neurological Surgery Salt Lake City, UT
- 2022: Hydrocephalus. AANS Community (co-organizer and co-moderator) 2022 Annual AANS Scientific Meeting Philadelphia, PA

Bibliography:

Peer-reviewed

1: Dawkins D, Aagaard-Kienitz B, Capel K, Eisenmenger L, Samsonov A, Li Y, Sandoval-Garcia C, Iskandar B. In Reply: Wide Arterial Sparing Encephalo-Duro-Synangiosis for Moyamoya: Surgical Technique and Outcomes. Oper Neurosurg (Hagerstown). 2023 Jun 1;24(6):e473. doi: 10.1227/ons.000000000000714. Epub 2023 Apr 11. PMID: 37039599.

2: Whitman A, Damodharan S, Bhatia A, Puccetti D, Iskandar B. Hemangioblastoma and mosaic von Hippel Lindau disease: rare presentation and review of the literature. Childs Nerv Syst. 2023 May;39(5):1361-1363. doi: 10.1007/s00381-023-05859-7. Epub 2023 Jan 28. PMID: 36708374.

3: Zhao S, Mekbib KY, van der Ent MA, Allington G, Prendergast A, Chau JE, Smith

H, Shohfi J, Ocken J, Duran D, Furey CG, Le HT, Duy PQ, Reeves BC, Zhang J, Nelson-Williams C, Chen D, Li B, Nottoli T, Bai S, Rolle M, Zeng X, Dong W, Fu PY, Wang YC, Mane S, Piwowarczyk P, Fehnel KP, See AP, Iskandar BJ, Aagaard-Kienitz B, Kundishora AJ, DeSpenza T, Greenberg ABW, Kidanemariam SM, Hale AT, Johnston JM, Jackson EM, Storm PB, Lang SS, Butler WE, Carter BS, Chapman P, Stapleton CJ, Patel AB, Rodesch G, Smajda S, Berenstein A, Barak T, Erson-Omay EZ, Zhao H, Moreno-De-Luca A, Proctor MR, Smith ER, Orbach DB, Alper SL, Nicoli S, Boggon TJ, Lifton RP, Gunel M, King PD, Jin SC, Kahle KT. Genetic dysregulation of an endothelial Ras signaling network in vein of Galen malformations. bioRxiv [Preprint]. 2023 Mar 21:2023.03.18.532837. doi: 10.1101/2023.03.18.532837. PMID: 36993588; PMCID: PMC10055230.

4: Rizk E, Madrid A, Koueik J, Sun D, Stewart K, Chen D, Luo S, Hong F, Papale LA, Hariharan N, Alisch RS, Iskandar BJ. Purified regenerating retinal neurons reveal regulatory role of DNA methylation-mediated Na+/K+-ATPase in murine axon regeneration. Commun Biol. 2023 Jan 30;6(1):120. doi: 10.1038/s42003-023-04463-4. PMID: 36717618; PMCID: PMC9886953.

5: Madrid A, Alisch RS, Rizk E, Papale LA, Hogan KJ, Iskandar BJ. Transgenerational epigenetic inheritance of axonal regeneration after spinal cord injury. Environ Epigenet. 2023 Jan 17;9(1):dvad002. doi: 10.1093/eep/dvad002. PMID: 36843857; PMCID: PMC9949995.

6: Cools MJ, Wellons JC 3rd, Iskandar BJ. The Nomenclature of Chiari Malformations. Neurosurg Clin N Am. 2023 Jan;34(1):1-7. doi: 10.1016/j.nec.2022.08.003. Epub 2022 Nov 2. PMID: 36424049.

7: Dawkins D, Aagaard-Kienitz B, Capel K, Eisenmenger L, Samsonov A, Li Y, Sandoval-Garcia C, Iskandar B. Wide Arterial Sparing Encephalo-Duro-Synangiosis for Moyamoya: Surgical Technique and Outcomes. Oper Neurosurg (Hagerstown). 2022 Dec 1;23(6):489-498. doi: 10.1227/ons.0000000000000376. Epub 2022 Sep 16. Erratum in: Oper Neurosurg (Hagerstown). 2023 Apr 1;24(4):e314-314. PMID: 36113163.

8: Iskandar BJ, Finnell RH. Spina Bifida. Reply. N Engl J Med. 2022 Oct 27;387(17):1628. doi: 10.1056/NEJMc2211513. PMID: 36300989.

9: Damodharan S, Diamond C, Helgager J, Iskandar B. Intralesional glucocorticoid treatment of an isolated intracranial juvenile xanthogranuloma: a case report. Childs Nerv Syst. 2022 Oct;38(10):2021-2024. doi: 10.1007/s00381-022-05500-z. Epub 2022 Mar 18. PMID: 35304626.

10: Iskandar BJ, Finnell RH. Spina Bifida. N Engl J Med. 2022 Aug 4;387(5):444-450. doi: 10.1056/NEJMra2116032. PMID: 35921452.

11: Akbari SHA, Yahanda AT, Ackerman LL, Adelson PD, Ahmed R, Albert GW, Aldana

PR, Alden TD, Anderson RCE, Bauer DF, Bethel-Anderson T, Bierbrauer K, Brockmeyer DL, Chern JJ, Couture DE, Daniels DJ, Dlouhy BJ, Durham SR, Ellenbogen RG, Eskandari R, Fuchs HE, Grant GA, Graupman PC, Greene S, Greenfield JP, Gross NL, Guillaume DJ, Hankinson TC, Heuer GG, Iantosca M, Iskandar BJ, Jackson EM, Jallo GI, Johnston JM, Kaufman BA, Keating RF, Khan NR, Krieger MD, Leonard JR, Maher CO, Mangano FT, McComb JG, McEvoy SD, Meehan T, Menezes AH, Muhlbauer MS, O'Neill BR, Olavarria G, Ragheb J, Selden NR, Shah MN, Shannon CN, Shimony JS, Smyth MD, Stone SSD, Strahle JM, Tamber MS, Torner JC, Tuite GF, Tyler-Kabara EC, Wait SD, Wellons JC, Whitehead WE, Park TS, Limbrick DD. Complications and outcomes of posterior fossa decompression with duraplasty versus without duraplasty for pediatric patients with Chiari malformation type I and syringomyelia: a study from the Park-Reeves Syringomyelia Research Consortium. J Neurosurg Pediatr. 2022 Apr 15:1-13. doi: 10.3171/2022.2.PEDS21446. Epub ahead of print. PMID: 35426814.

12: Akbari SHA, Rizvi AA, CreveCoeur TS, Han RH, Greenberg JK, Torner J, Brockmeyer DL, Wellons JC, Leonard JR, Mangano FT, Johnston JM, Shah MN, Iskandar BJ, Ahmed R, Tuite GF, Kaufman BA, Daniels DJ, Jackson EM, Grant GA, Powers AK, Couture DE, Adelson PD, Alden TD, Aldana PR, Anderson RCE, Selden NR, Bierbrauer K, Boydston W, Chern JJ, Whitehead WE, Dauser RC, Ellenbogen RG, Ojemann JG, Fuchs HE, Guillaume DJ, Hankinson TC, O'Neill BR, Iantosca M, Oakes WJ, Keating RF, Klimo P, Muhlbauer MS, McComb JG, Menezes AH, Khan NR, Niazi TN, Ragheb J, Shannon CN, Smith JL, Ackerman LL, Jea AH, Maher CO, Narayan P, Albert GW, Stone SSD, Baird LC, Gross NL, Durham SR, Greene S, McKinstry RC, Shimony JS, Strahle JM, Smyth MD, Dacey RG, Park TS, Limbrick DD. Socioeconomic and demographic factors in the diagnosis and treatment of Chiari malformation type I and syringomyelia. J Neurosurg Pediatr. 2021 Dec 3;29(3):288-297. doi: 10.3171/2021.9.PEDS2185. PMID: 34861643.

13: Koueik J, DeSanti RL, Iskandar BJ. Posterior fossa decompression for children with Chiari I malformation and hydrocephalus. Childs Nerv Syst. 2022 Jan;38(1):153-161. doi: 10.1007/s00381-021-05377-4. Epub 2021 Oct 20. PMID: 34671850.

14: Koueik J, Iskandar BJ, Yang Z, Kraemer MR, Armstrong S, Wakim V, Broman AT, Medow J, Luzzio C, Hsu DA. Ventriculoperitoneal Shunt Drainage Increases With Gravity and Cerebrospinal Fluid Pressure Pulsations: Benchtop Model. Neurosurgery. 2021 Nov 18;89(6):1141-1147. doi: 10.1093/neuros/nyab336. PMID: 34528096; PMCID: PMC8600163.

15: Sadler B, Skidmore A, Gewirtz J, Anderson RCE, Haller G, Ackerman LL, Adelson PD, Ahmed R, Albert GW, Aldana PR, Alden TD, Averill C, Baird LC, Bauer DF, Bethel-Anderson T, Bierbrauer KS, Bonfield CM, Brockmeyer DL, Chern JJ, Couture DE, Daniels DJ, Dlouhy BJ, Durham SR, Ellenbogen RG, Eskandari R, Fuchs HE, George TM, Grant GA, Graupman PC, Greene S, Greenfield JP, Gross NL, Guillaume DJ, Hankinson TC, Heuer GG, Iantosca M, Iskandar BJ, Jackson EM, Jea AH, Johnston JM, Keating RF, Khan N, Krieger MD, Leonard JR, Maher CO, Mangano FT, Mapstone TB, McComb JG, McEvoy SD, Meehan T, Menezes AH, Muhlbauer M, Oakes

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- 22. Quigley MF, **Iskandar B**, Mistretta CA, Haughton VM. Spatial and Temporal Characterization of CSF flow in the foramen magnum in normal subjects and patients with Chiari I malformations.
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- 24. Puccetti D, **Iskandar B**, Osenga K, and Schloegel D. False positive surveillance MR images in a young male with medulloblastoma Puccetti D, Iskandar B, Osenga K, and Schloegel D. 10th International Symposium of Paediatric Neuro-Oncology. June 2002.
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- 27. Medow J, **Iskandar B.** Quick-Brain MRI instead of CT in Shunted Hydrocephalus. AANS/CNS Joint Section of Pediatric Neurosurgery, December 2002.
- 28. Dziurzynski K, **Iskandar B.** Foramen Magnum Placement of Baclofen Pump Catheters. AANS/CNS Joint Section of Pediatric Neurosurgery, December 2002.
- 29. Medow J, Haughton V, **Iskandar J**. Elevation of peak systolic CSF velocity in patients with Chiari malformations compared to normal subjects. Congress of Neurological Surgeons, September 2002
- 30. **Iskandar B,** Nelson A, Skene JHP, Gao P, Johnson C, Resnick DK, Hariharan N: Folic acid enhances repair mechanisms in the central nervous system. American Society of Pediatric Neurosurgeons, February 2003.
- 31. **Iskandar B**, Quigley M, Haughton V: Effect of posterior fossa decompression on CSF flow pattern in the foramen magnum of children with Chiari I malformations. American Association of Neurological Surgeons, April 2003.
- 32. **Iskandar B.** The folic acid effect is not limited to the embryonic CNS: Recent data from the injured adult CNS. 5th International Neural Tube Defects Conference. Charleston, SC. September 2005.
- 33. Osenga K, Puccetti D, Iskandar B: Coagolopathies in childhood brain hemorrhages. Congress of Neurological Surgeons, October 2003.
- 34. **Iskandar B,** Dhodda VK, Unlu A, Vemuganti R, Hariharan N: The use of Genechip microarray analysis to differentiate between regeneration and injury signals in the injured adult mammalian CNS. Society of Neuroscience, November 2003.
- 35. **Iskandar B**, Nelson A, Resnick DK, Skene JHP, Gao P, Johnson C, Hariharan N: Folic acid enhances regeneration and recovery after central nervous system injury. Cervical Spine Research Society, December 2003.
- 36. Sansone J, **Iskandar B.** A novel approach to cerebral aqueductoplasty. AANS/CNS Section on Pediatric Neurological Surgery. December 2003.

- 37. Turk Q, Haughton V, **Iskandar B**, Quigley M. Effect of relative obstruction at the foramen magnum on CSF velocity: studies in an experimental model. ASNR 2004.
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- 40. Hong TS, Puccetti D, **Iskandar B**, Salamat S, and Mehta MP. Combined Modality Therapy in the Management of Disseminated Primary Anaplastic Ependymoma of the Spinal Cord. Neurooncology Conference 2004.
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- 42. Haughton V, **Iskandar B**, Quigley M. CSF flow velocity in the foramen magnum of normal subjects in relation to age. ASNR 2004.
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- 45. Rizk E, Simon K, Jarrard D, Hariharan N, **Iskandar B**. The Role of DNA Methylation in Central Nervous System Regeneration. Neurotrauma Society, Washington DC, 2005.
- 46. **Iskandar B.** The role of DNA methylation in CNS regeneration. Neural Tube Defects Conference. Indian Wells, CA. September 2005.
- 47. Rajpal S, Tubbs S, Salamat S, Oakes WJ, **Iskandar BJ.** Spinal cutaneous tracts in spina bifida occulta: Reclassification. (AANS/CNS Section on Pediatric Neurosurgery, Orlando 2005.
- 48. Medow J, **Iskandar B**. Transcutaneous Inductive Pressure (TIP) Monitor: Prototype for a Permanently Implanted ICP Device. AANS/CNS Section on Pediatric Neurosurgery, Orlando 2005.
- 49. **Iskandar B**, Rizk E, Unlu A, Sun D, Vemuganti R, Turyen K, Hariharan N. The Sodium Potassium ATPase Pump is essential in CNS regeneration. AANS/CNS Section on Pediatric Neurosurgery, Orlando 2005.
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- 51. Dziurzynski K, **Iskandar B.** The development of osmolar therapy at the University of Wisconsin. AANS/CNS Section on Pediatric Neurosurgery, Orlando 2005.
- 52. Rizk E, Simon K, Jarrard D, Hariharan N, **Iskandar B**. DNA methylation plays a significant role in folate-related CNS regeneration. AANS/CNS Section on Pediatric Neurosurgery, Orlando 2005.
- 53. Rizk E, Moftakhar R, Medow JE, Hariharan N, **Iskandar B**. Phenytoin decreases the ability of the CNS to repair after injury. Congress of Neurological Surgeons, Boston, 2005.
- 54. **Iskandar B.** The role of DNA methylation in CNS regeneration. American Academy of Neurological Surgeons, San Francisco Fall 2005; and Neurotrauma meeting Washington DC Fall 2005.

- 55. **Iskandar B.** Pediatric Neurosurgical Cases. AANS Breakfast Seminar: Meet the Experts. AANS. San Francisco. April 2006.
- 56. **Iskandar B.** Chiari I: Syndrome or Malformation. AANS Breakfast Seminar: The Chiari Malformation. AANS. San Francisco. April 2006.
- 57. **Iskandar B.** Accuracy of CSF flow imaging in the differentiation of symptomatic Chiari I malformation from asymptomatic incidental tonsilar ectopia. American Syringomyelia Alliance Project. Denver. July 2006.
- 58. **Iskandar BJ.** The folate pathway, DNA methylation and CNS repair. FASEB. Palm Springs. August 2006.
- 59. **Iskandar B** DNA Methylation and CNS Repair. Society of Neuroscience. Atlanta. September 2006.
- 60. Rocque B, Lapsiwala S, **Iskandar B**. Shunt Tap as a Predictor of Proximal Shunt Function in Patients with Suspected Shunt Malfunction: a Prospective Study. AANS/CNS Section on Pediatric Neurosurgery, Denver. December 2006.
- 61. Rizk E, **Iskandar B**. The Folate Receptors in CNS Repair. AANS/CNS Section on Pediatric Neurosurgery, Denver. December 2006.
- 62. Rizk E, **Iskandar B**. The methyltransferases in CNS Regeneration after Injury. AANS/CNS Pediatric Section. Miami. December 2007.
- 63. Meier B, **Iskandar B.** Nitrous Oxide Inhibits Neuronal Elongation in Culture. AANS/CNS Pediatric Section. Miami. December 2007.
- 64. Patel N, **Iskandar B**. The Association of Faint Midline Lumbar Cutaneous Hemangioma with Occult Spinal Dysraphism. AANS/CNS Pediatric Section. Miami. December 2007.
- 65. **Iskandar BJ.** Understanding the Folate Pathway in CNS Repair. American Academy of Neurological Surgery. Las Vegas. October 2007.
- 66. **Iskandar J.** The Role of the Folate Pathway in CNS Regeneration and Repair. NTD Research Meeting. Monterey. September 2007
- 67. Patel N, **Iskandar B**: ICP Monitoring in patients with spasticity prior to Baclofen pump placement. AANS/CNS Joint Section on Pediatric Neurosurgery. Washington. December 2008.
- 68. Stewart K, Iskandar BJ: The effect of folic acid on CNS regeneration in vitro. AANS/CNS Joint Section on Pediatric Neurosurgery. Washington. December 2008.
- 69. Rizk E, **Iskandar B**: Update on the The Folate Pathway and CNS Repair. American Academy of Neurological Surgeons. September 2008 (presented in absentia by Dr. Rizk).
- 70. Rizk E, **Iskandar B**: The role of the NaK ATPase Pump in CNS regeneration. American Academy of Neurological Surgery. Arizona. September 2008 (presented by Dr. Rizk).
- 71. Martin BA, Labuda R, Royston TJ, Oshinski JN, **Iskandar B**, Loth F. Pathological biomechanics of cerebrospinal fluid pressure in syringomyelia: Fluid structure interaction of an in vitro coaxial elastic tube system. ASME 2009 Summer Bioengineering Conference.
- 72. **Iskandar B**, Banerjee R, Bottiglieri T, Finnell R, Hogan K. The role of the folate pathway in repair of the injured central nervous system, NTD Conference, Burlington, Vermont, Septebmer 2009.
- 73. **Iskandar B**, Stewart K, Meier B, Rizk E, Hariharan N. Folic Acid Supplementation Enhances CNS Regeneration in Vitro. American Academy of Neurological Surgery, West Palm Beach, Florida, October 2009.

- 74. **Iskandar B**, Patel N. Supplementing methyl donor groups in the Rat diet, increases neural regeneration after spinal cord injury. AANS/CNS Joint Section on Pediatric Neurosurgery, Boston, Massachusetts, December 2009.
- 75. **Iskandar B**. Folate Mediated Repair of the Central Nervous System through Epigenetic Pathways. Trauma and Neurotrauma Critical Care Symposium. Palm Beach, May 2010.
- 76. Patel NJ, Diamond CA, Salamat MS, Bradley K, Gondi V, Kennedy TA, Keller L, Iskandar B, Puccetti D. A case of malignant rhabdoid tumor in the epidural space of the spine. J Neurooncology, 14th International Symposium on Pediatric Neuro-Oncology (ISPNO), Vienna, Austria, June 2010.
- 77. Patel NJ, Salamat MS, Puccetti DM, Gondi V, Bradley K, Keller L, Casey K, Kennedy TA, **Iskandar B**. Primitive neuroectodermal tumor of the spine in a patient with a long lasting history of hydrocephalus. J Neurooncology , 14th International Symposium on Pediatric Neuro-Oncology (ISPNO), Vienna, Austria, June 2010.
- 78. Puccetti DM, Patel NJ, **Iskandar B**, Ward M, Casey K, Salamat MS, Kennedy TA. A child with disseminated primary spinal cord oligodendroglioma. J Neurooncology, 14th International Symposium on Pediatric Neuro-Oncology (ISPNO), Vienna, Austria, June 2010.
- 79. Meier B, Stewart K, **Iskandar B**, Rizk E, Hogan K, et al. Nitrous Oxide Impairs Axonal Regenration. (Submitted), American Society of Anesthesiologists Annual Meeting, San Diego, CA, October 2010.
- 80. Stewart K, Iskandar B. Folic Acid Supplementation Enhances CNS Regeneration In Vitro on Inhibitory CNS Myelin. AANS/CNS Section on Pediatric Annual Meeting, Austin, TX, December 2010.
- 81. **Iskandar, B.** Folate promotes endogenous axonal regeneration by epigenetic mechanisms. 8th International Conference on Homocysteine Metabolism, Portugal 2011.
- 82. Nicholas Shaffer, Francis Loth, Oliver Wieben, Brandon Rocque, **Bermans Iskandar**, John Oshinski. Impedance to cerebrospinal fluid flow in the spinal canal is dominated by geometric complexity. ASME 2011. Framington, PA.
- 83. Hogan KJ, Rizk EB, Hariharan N, **Iskandar B**. In Utero Nitrous Oxide Exposure Impairs Murine Agouti Signal Protein Expression. American Society of Anesthesiologists Annual Meeting 2011.
- 84. **Iskandar B**. Controversial topics 2: Chiari I: Syndrome or Malformation? American Chiari and Syringomyelia Alliance Project. Denver 2011.
- 85. **Iskandar B**. Outcomes in Patients Undergoing Surgical Intervention for Chiari Type 1 Malformation with Syringomyelia. American Chiari and Syringomyelia Alliance Project. Denver 2011.
- 86. **Iskandar B**. Epigenetic Pathways Modulate Repair of the injured Central Nervous System. American Academy of Neurological Surgeons Annual Meeting, Fall 2011.
- 87. **Iskandar B**. Trangenerational epigenetic enhancement of CNS axon regeneration through folate supplementation. ASPN. Puerto Rico, January 2012.
- 88. **Iskandar B**. The Chiari Malformations in Humans. Neurology Keynote Speaker. The American College of Veterinary Internal Medicine New Orleans, May 2012.
- 89. **Iskandar B**. Neuroendoscopy in the Treatment of Human Hydrocephalus and Other Anomalies. Neurology Keynote Speaker. The American College of Veterinary Internal Medicine New Orleans, May 2012.

- 90. Puccetti DM, Salamat S, Kennedy T, Fangusara J, Patel N, Bradley K, Casey K, Iskandar B. Gliamatosis cerebri in a nine year old boy: Case review and review of the literature. 15th Internation Symposium on Pediatric Neuro-Oncology (ISPNO), Toronto, Canada, June 2012.
- 91. Pucetti D, Salamat S, Rusinak D, Patel N, Bradley K, Casey K, Knight P, Onel K, Wargowski D, Stettner A, **Iskandar B**, Glioblastoma multiforme in a child subsequently diagnosed with li-fraumeni syndrome. 15th International Symposium on Pediatric Neuro-Oncology (ISPNO), Toronto, Canada, June 2012.
- 92. **Iskandar B,** Hogan KJ. Folate, B12 & One Carbon Metabolism. Parameters of Folatemediated Tissue Regeneration and Fairy Tale Heroines, FASEB Summer Research Conference Crete, July 2012.
- 93. Wildenberg J, Kennedy T, Huston J, **Iskandar B**. Non-Gated Isotropic 3D T2 FRFSE dephasing artifacts for the assessment of CSF flow in Normal Controls and in Patient's After Third Ventriculostomy. Radiological Society of North America 98th Scientific Assembly and Annual Meeting, Chicago, Illinois, November 2012.
- 94. Rizk E, Stewart K, Meethal S, Hariharan N, Gasch A, and **Iskandar B.** Gene expression patterns of CNS growth and regeneration at various developmental stages and after injury. AANS/CNS Pediatric Section. St. Louis, November 2012.
- 95. Meethal SV, **Iskandar B.** Methylation/Demethylation Mechanisms are Key to Folateinduced Axon Regeneration in the Injured Central Nervous System. Keystone symposia, New Mexico 2013.
- 96. Meier BM, Stewart KJ, Rizk EB, Hariharan N, Andrei A, **Iskandar B**, Hogan KJ. Nitrous oxide impairs axonal regeneration in the spinal cord. International Anesthesia Research Society. San Diego. May 2013.
- 97. Stewart KJ, Meier BM, Rizk EB, Hariharan N, Andrei A, **Iskandar B**, Hogan KJ. Nitrous oxide impairs axonal regeneration in dorsal root ganglia. International Anesthesia Research Society. San Diego. May 2013.
- 98. Transgenerational Epigenetic Inheritance of a Therapeutic Trait Methyl Supplementation. 8th International Conference on Neural Tube Defects. October 2013.
- 99. Sandoval-Garcia C, Kraemer M, **Iskandar B.** Surgery for obstructive non-tumoral posterior fossa problems. 42nd Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Ontario, December 2013.
- 100. Cassini T, Makkiyah F, Rocque B, Iskandar B. The value of placing external ventricular drains after endoscopic third ventriculostomy. 42nd Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Ontario, December 2013.
- 101. Wolfe A, Capitini C, Salamat S, DeSantes K, Bradley K, Iskandar B, Bragg, T Kennedy T, Patel N. Improved outcome of extradural, cervical malignant rhabdoid tumor when marrow-ablative chemotherapy with autologous stem cell rescue is added to primary multimodal therapy. 27th Annual Meeting of the American Society of Pediatric Hematology Oncology, Chicago, IL, May 2014.
- 102. Gibb W, Strebe J, Skarda E, Meethal SV, Hariharan H, Iskandar B. DNA Methylation is Key to Folate-Mediated Spinal Axon Regeneration. UW Department of Neurosurgery Research Day. October 2014.
- 103. Vadakkadath MS, Hariharan N, Rizk E, Gibb W, Strebe J, Cedrick H, Weber K, Cassini T, Chindhy A, Skoda L and **Iskandar B**. TET Inhibition Enhances Spinal Regeneration

at High Doses of Folic Acid. UW Department of Neurosurgery Research Day. October 2014.

- 104. Kraemer M, **Iskandar B**. Endoscopic Aqueductoplasty for Management of Trapped Fourth Ventricle. AANS/CNS Section on Pediatric Neurosurgery. Amelia Island. December 2014.
- 105. Madura C, Lemrise A, **Iskandar B**, Bragg T. Prevention of Traumatic Brain and Spinal Cord Injury: The Importance of Neurosurgical Leadership. AANS/CNS Section on Pediatric Neurosurgery. Amelia Island. December 2014.
- 106. Bishop, C., Carlson, B., Gibb, W., Hariharan, N., Vadakkadath Meethal, S. and Iskandar, B (2014). Folic acid enhances regrowth of cultured adult DRG neurons from spinal cord injured rats in a biphasic and dose-dependent manner (Poster presentation) Intro Bio 152 Undergraduate Mentored Research Poster Session, University of Wisconsin-Madison, Madison, WI, USA
- 107. Luo, S., Raul, C.S., Gibb, W., Strebe, J., Skarda, E., Skoda, L., Hariharan, N., Vadakkadath Meethal, S. and Iskandar, B. (2014) DNMT knockdown reverses the transgenerational effect of folic acid on axon growth in vitro (Poster presentation) Intro Bio 152 Undergraduate Mentored Research Poster Session, University of Wisconsin-Madison, Madison, WI, USA
- 108. Poepping, J., Skoda, L., Hariharan, N., Vadakkadath Meethal, S. and Iskandar, B. (2014) Nuclear TET1 hydroxylase activity and folic acid supplementation after spinal cord injury in sprague-dawley rats (Poster presentation) Intro Bio 152 Undergraduate Mentored Research Poster Session, University of Wisconsin-Madison, Madison, WI, USA
- 109. Keating, G., Mendoza, M., Hariharan, N., Vadakkadath Meethal, S. and Iskandar, B. (2014) Dose-dependent effect of folic acid on the expression of nestin in central nervous system injury and regeneration (Poster presentation) Intro Bio 152 Undergraduate Mentored Research Poster Session, University of Wisconsin-Madison, Madison, WI, USA
- 110. Hopfensperger, K., Withington, C., Holden, C., Keating, G., Hariharan, N., Vadakkadath Meethal, S. and Iskandar, B. (2015). Effect of folate agonists on central nervous system regeneration after injury (Poster presentation) Undergraduate Research Scholar Symposium, Union South, University of Wisconsin-Madison, Madison, WI, USA
- 111. Tenorio, A., Bonfiglio, G., Geanon, D., Skoda, D., Hariharan, N., Vadakkadath Meethal, S. and Iskandar, B. (2015). Does DNMT3b expression correlate with axonal regeneration in the peripheral vs. central nervous systems? (Poster presentation) Undergraduate Research Scholar Symposium, Union South, University of Wisconsin-Madison, Madison, WI, USA
- 112. Ondoma, S., Hariharan, N., Holden, C., Keating, G., Hopfensperger, K., Withington, C., Raul, C., Luo, S., Carlson, B., Bonfiglio, G., Sharma, P., Maltz, E., Vadakkadath Meethal, S. and Iskandar, B. (2015) Methylation cycle agonists enhance the regeneration of injured spinal axons independently from folate (Poster presentation) Department of Medicine Research Day, University of Wisconsin School of Medicine and Public Health, Madison.
- 113. **Iskandar, B.** (2015) Nerve Regeneration and Epigenetics-New Leads (Lecture). UW Department of Neurosurgery Research Day.

- 114. Kraemer, M and Iskandar, B. The Wisconsin Hydrocephalus Survey: shunt-dependent hydrocephalus management style among members of the American Society of Pediatric Neurosurgeons. Fluids and Barriers of the CNS 2015 12(Suppl 1):O35 (18 September 2015).
- 115. **Iskandar, B**. The role of Tet1 in folate-enhanced spinal cord axon regeneration. 9th International Conference on Neural Tube Defects, Austin, TX, October 2015.
- 116. **Iskandar, B** (invited lecture). CNS axon regeneration, folate, and epigenetics. 16th International Symposium on Neural Regeneration (ISNR), Asilomar, Pacific Grove, California, December 2015.
- 117. Kearl, T, Patel, N, Casey K, Bashir, M, **Iskandar, B**, Salamat, M, Bradley K, and Puccetti D. Multifocal glioblastoma: a pediatric case and literature review. 2015 Society of Neuro-Oncology Meeting, San Antonio, TX, November 2015.
- 118. Sandoval-Garcia, C, Aagaard-Kienitz, B., Uluc, K., and Iskandar, B.J. Outcome and Surgical Technique for Wide Arterial Sparing Encephalo-Duro-Synangiosis (WASEDS) for Moyamoya Disease. 44th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Seattle, WA, December 2015.
- Kraemer M and Iskandar, B. Overdrainage-Related Ventricular Tissue is a Significant Cause of Proximal Shunt Obstruction. 84rd AANS Annual Scientific Meeting, Chicago, IL, May 2016.
- 120. Vidal, E., Odoma, S., Hariharan, N., Holden, C., Keating, G., Hopfensperger, K., Withington, C., Raul, C., Luo, S., Carlson, B., Bonfiglio, G., Sharma, P., Maltz, E., Vadakkadath Meethal, S. and Iskandar, B. (2016) In vivo assessment of the gender specific inheritance of spinal axon regeneration phenotype in response to folic acid. Undergraduate Research Symposium, University of Wisconsin-Madison, Madison, WI, USA.
- 121. Defnet J, Bonfiglio G, Sharma P, Hong F, Skoda L, Hariharan N, Rizk, E, Vadakkadath Meethal S and **Iskandar B** (2016) Ten Eleven Translocase 1 (TET1) expression increases with escalating doses of folic acid in spinal cord-injured rats 152 Biology Undergraduate Research Symposium, University of Wisconsin-Madison, Madison, WI.
- 122. Yutuc N, Miranpuri G, Vadakkadath Meethal S, Buttar S, Nacht C, Moreno N, Patel K, Liu L, Hariharan N, Iskandar B, Resnick D (2016) Folic acid modulates MMP2 expression, alleviates neuropathic pain and improves functional recovery in spinal cord injured rat 152 Biology Undergraduate Research Symposium, University of Wisconsin-Madison, Madison, WI.
- 123. DeGroot A, Langer S, Raul C, Carlson C, Kunsel T, Keating G, Hopfensperger K, Withington C, Ondoma S, Hariharan N, Vadakkadath Meethal S and Iskandar
 B (2016) The inheritance of spinal axon regeneration trait in F3 progeny rats in response to ancestral folic acid is not gender-specific. 152 Biology Undergraduate Research Symposium, University of Wisconsin-Madison, Madison, WI.
- 124. Jedrzejczak A, Keating G, Ondoma S, Hopfensperger K, Withington C, Hariharan N, Vadakkadath Meethal S and Iskandar B (2016) Methylation cycle agonists promote spinal axon regeneration in the injured adult central nervous system. 152 Biology Undergraduate Research Symposium, University of Wisconsin-Madison, Madison, WI.
- 125. Patel N, Rizk E, Hogan K, Stewart K, Vadakkadath Meethal S, Ondoma S, Gorges L, Weber K, Lake W, Bauer A, Hariharan N, Kuehn T, Withington C, Hopfensperger K,

Carlson B, Luo S, Defnet J, Hong F, Jedrzejczak A, Maltz E, Vidal E, Cook C, Keles S, and **Iskandar B** (2016) Folate-Induced Transgenerational Inheritance in Central Nervous System Injury First Epigenetic Symposium, Pyle Center, University of Wisconsin-Madison, Madison, WI.

- 126. Kunsel, T., Raul, C., Luo, S., Carlson, B., Hariharan, N., Vadakkadath Meethal, S. and Iskandar, B. (2016) Inheritance of the spinal axon regeneration phenotype in response to folic acid is not gender specific. Undergraduate Research Symposium, University of Wisconsin-Madison, Madison, WI, USA.
- 127. Kraemer M and Iskandar, B. Overdrainage-Related Ventricular Tissue is a Significant Cause of Proximal Shunt Obstruction. 84rd AANS Annual Scientific Meeting, Chicago, IL, May 2016.
- 128. Sandoval-Garcia C and Iskandar B. Outcomes in Children Undergoing Surgical Intervention for Chiari I Malformation with Syringomyelia: A Prospective, Multi-center, Pilot Study. 45th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Orlando, FL, December 2016.
- 129. Vidal E, Odoma S, Hariharan N, Holden C, Keating G, Hopfensperger K, Withington C, Raul C, Luo S, Carlson B, Bonfiglio G, Sharma P, Maltz E, Vadakkadath Meethal S, and Iskandar B (2016) In vivo assessment of the gender specific inheritance of spinal axon regeneration phenotype in response to folic acid. Undergraduate Research Symposium, University of Wisconsin-Madison, Madison.
- 130. Kunsel T, Raul C, Luo S, Carlson B, Hariharan N, Vadakkadath Meethal S, and Iskandar BJ (2016) Inheritance of the spinal axon regeneration phenotype in response to folic acid is not gender specific. Undergraduate Research Symposium, University of Wisconsin-Madison, Madison.
- 131. Meltz E, Ondoma S, Hariharan N, Hopfensperger, K, DeGroot A, Vadakkadath Meethal S and Iskandar BJ. (2016) Succinate Enhances Axon Regeneration after Spinal Cord Injury Even at High Doses of Folic Acid, Presumably by Inhibiting Tet Enzymes (Poster) Department of Neurosurgery Research Day, University of Wisconsin School of Medicine and Public Health, Madison, WI
- 132. Sing V, Buttar S, Radzin A, Chopra A, Sing R, Yutuc N, Sampene E, Hariharan N, Vadakkadath Meethal S, Miranpuri GS, Iskandar BJ and Resnick DK. (2016) Epigenetic regulation of matrix metalloproteinase by folic acid to alleviate spinal cord injury-induced neuropathic pain (Poster) Department of Neurosurgery Research Day, University of Wisconsin School of Medicine and Public Health, Madison, WI.
- 133. Sandoval-Garcia C and Iskandar BJ. Outcomes in Children Undergoing Surgical Intervention for Chiari I Malformation with Syringomyelia: A Prospective, Multi-center, Pilot Study. 45th Annual Meeting of the AANS/CNS Section on Pediatric Neurological Surgery, Orlando, FL, December 2016.
- 134. **Iskandar B**, Kraemer M. Overdrainage-Related Ventricular Tissue is a Significant Cause of Proximal Shunt Obstruction. American Society of Pediatric Neurosurgeons, Maui, HI, January 2017.
- 135. Hamilton K, **Iskandar B**. Amenorrhea and reversible infertility due to obstructive hydrocephalus: literature review and case report. AANS, Los Angeles, April 2017.
- 136. **Iskandar B**. Chronic overdrainage mechanism or VP shunt malfunction. IHIWG. ASNR, April 2017.

- 137. Barnes B, Hong F, Koueik K, Zielinski K, Hu A, Defnet J, Langer S, Dentice A, Jedrzejczak A, Withington C, Vidal E, Hariharan N, Meethal S, Iskandar B. The Role of TET1 Hydroxymethylation in Folate-Enhanced Spinal Axon Repair. University of Wisconsin Biology 152 Symposium. Madison, WI, December 2017.
- 138. Kunsel T, Hong F, DeGroot A, Langer S, Hariharan N, Meethal S, **Iskandar B**. Spinal axon regeneration after erythropoietin silencing in rats with spinal cord injury. University of Wisconsin Biology 152 Symposium. Madison, WI, December 2017.
- 139. Iskandar B, et al. Ancestral Folate Promotes Neuronal Regeneration by Transgenerational Epigenetic Inheritance. Epigenetics. Gordon Research Conference. Holderness School, Holderness NH, August 2017.
- 140. Zhang X, [...], **Iskandar B**, Webster J, Medow J. RFID based smart shunt system Wisconsin hydrocephalus project (WHP). Research Day. UW Department of Neurological Surgery, Madison WI, October 2017.
- 141. Koueik J, Kraemer M, Hsu D, **Iskandar BJ**. Addition of anti-siphon devices decreases the incidence of proximal shunt obstruction. Research Day. UW Department of Neurological Surgery, Madison WI, October 2017.
- 142. Hong F, [...], **Iskandar BJ**. Folate-induced transgenerational phenotype of enhanced spinal axon regeneration is inherited equally through both male and female genders. Research Day. UW Department of Neurological Surgery, Madison WI, October 2017.
- 143. Zielinski K, Hu A, Hamilton K, Koueik J, Carlson B, Luo S, Defnet J, Hopfensperger K, Hong F, DeGroot A, Jedrzejczak A, Meethal S, Hariharan N, and **Iskandar BJ**. Folateinduced functional and electromyographic recovery from sciatic nerve injury. Research Day. UW Department of Neurological Surgery, Madison WI, October 2017.
- 144. **Iskandar BJ**, Kraemer M. Overdrainage-Related Ventricular Tissue is a Significant Cause of Proximal Shunt Obstruction. International Society of Pediatric Neurosurgery, Denver CO, October 2017.
- 145. **Iskandar BJ**. Hydrocephalus: The Major Cause of Cognitive and Life-Threatening Problems in NTDs, 10th International Conference on Neural Tube Defects, Austin, TX, October 2017.
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