



Curriculum Vitae

Darnell T. Josiah, MD MS

Personal Data

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University of Wisconsin School of Medicine and Public Health
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Education

1998	B.S. Microbiology and Immunology Biology	University of Miami Coral Gables, Florida
2001	M.S Biomedical Science	Barry University Miami, Florida
2009	M.D.	Wake Forest University School of Medicine Winston-Salem, North Carolina

Postgraduate/Fellowship

7/2009 – 6/2010	General Surgery Intern Department of General Surgery Carolinas Medical Center, North Carolina
7/2010 – 6/2015	Resident in Neurological Surgery West Virginia University School of Medicine Robert C. Byrd Health Sciences Center Morgantown, West Virginia
7/2015 – 6/2016	Chief Resident, Neurosurgery West Virginia University School of Medicine Robert C. Byrd Health Sciences Center Morgantown, West Virginia
1/2016 – 3/2016	Rotating Spine Resident, Department of Orthopedic Surgery Mentor: John France, MD West Virginia University School of Medicine Robert C. Byrd Health Sciences Center Morgantown, West Virginia



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7/2016 – 7/2017 Fellow, Spinal Neurosurgery
Department of Neurological Surgery
University of Wisconsin School of Medicine and Public Health
Madison, WI
Directors: Gregory Trost, MD/Daniel Resnick, MD

Certification and Licensure

North Carolina Graduate Training License #156540 – Expired
West Virginia License #25016
Wisconsin License # 65290

Present Appointment/Position

Assistant Professor of Neurological Surgery
University of Wisconsin School of Medicine and Public Health
Madison, Wisconsin

Meriter Site Director, Neurosurgery Residency Program
University of Wisconsin School of Medicine and Public Health
Madison, Wisconsin

Past Appointments/Positions

Clinical Instructor of Neurological Surgery
University of Wisconsin School of Medicine and Public Health
Madison, Wisconsin 7/2016 – 6/2017

Professional Society Memberships

The American Association for Cancer Research – AACR (2007-2008)
The Society for Neuro-Oncology (2007 – 2010)
American Association of Neurological Surgeons
Congress of Neurological Surgeons
American Medical Association
North American Spine Society
AO Spine

Honors and Awards

- 2015 Neurological Society of the Virginias 2nd place award Oral presentation – Transitional Vertebrae and implications for minimally invasive spine surgery
Greenbrier, White Sulphur Springs, West Virginia

- 2008 American Association for Cancer Research
Minority Scholar in Cancer Research Award
San Diego, California

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- 2008 American Association for Cancer Research Travel Award
- 2008 Eighth Annual Graduate Student Research Day
Translational Science – 1st Place Award
Wake Forest University School of Medicine, Winston-Salem, North Carolina
- 2007 22nd Annual Medical Student Research Day – 1st Place Award
Wake Forest University School of Medicine, Winston-Salem, North Carolina
- 2007 Laura Scales Memorial Fund Student Research Fellowship
Wake Forest University School of Medicine, Winston-Salem, North Carolina
- 2004 National Institute of Health Medical Student Fellowship
Wake Forest University School of Medicine, Winston-Salem, North Carolina
- 2003 – 2007 Hawthorne Hill Society Scholarship, Wake Forest University School of Medicine,
Winston-Salem, North Carolina

Grant Support

- 2018 “Spine Outcomes Research” Principle Investigator, University of Wisconsin-Madison Start-up Research Grant (\$250,000, funded)

Past Awards

- 2007-08 Milheim Foundation Grant
Oncolytic Virus Therapy for Glioblastoma multiforme Delivered by Adipose-Derived Mesenchymal StemCells

Publications

Refereed Articles

1. Lucke-Wold BP, Turner RC, **Josiah D**, Knotts C, Bhatia S. Do Age and Anticoagulants Affect the Natural History of Acute Subdural Hematomas? Arch Emerg Med Crit Care. 2016;1(2). pii: 1010. Epub 2016 Oct 14. PubMed PMID: 27857999
2. **Josiah DT**, Boo S, Tarabishy A, Bhatia S. Anatomical differences in patients with lumbosacral transitional vertebrae and implications for minimally invasive spine surgery. J Neurosurg Spine. 2016 Sep 23:1-7. [Epub ahead of print]
3. Turner RC, Lucke-Wold BP, **Josiah D**, Gonzalez J, Schmidt M, Tarabishy AR, Bhatia S. Stereotactic radiosurgery planning based on time-resolved CTA for arteriovenous malformation: a case report and review of the literature. Acta Neurochir (Wien). 2016 Aug;158(8):1555-62.



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4. Singh R, **Josiah DT**, Turner RC, Cantu-Durand DE, Williams HJ, Gyure K, Voelker JL. Giant calvarial intraosseous angioliipoma: a case report and review of the literature. *J Surg Case Rep*. 2016 Apr 13;2016(4)
5. **Josiah DT**, Rosen CL. Apps for the Neurosurgery Resident in Training. *Congress Quarterly*. Winter 2013
6. **Josiah DT**, Zhu D, Dreher F, Olson J, McFadden G, Caldas H. Adipose-Derived Stem Cells as Therapeutic Delivery Vehicles of an Oncolytic Virus for Glioblastoma. *Molecular Therapy* 2010 Feb;18(2):377-85.
7. Fuh B, Cen L, Sobo M, **Josiah D**, Hutzen B, Cisek K, Bhasin D, Regan N, Chan C, Caldas H, Li C, Li P, Lin J. LLL-3 inhibits STAT3 activity, suppresses glioblastoma multiforme cell growth and prolongs survival in a mouse glioblastoma multiforme model. *British Journal of Cancer* (2009) 100, 106–112.
8. **Josiah DT**, Vincler MA. Impact of chronic nicotine on the development and maintenance of neuropathic hypersensitivity in the rat. *Psychopharmacology*. 2006 Oct;188(2):152-61.

Chapters in Books

1. Orthopaedic Knowledge Update - AAOS: Spine 5: Intradural Lesions – Chapter 34
Josiah, DT; Resnick DK
2. Procedure related complications (Inadvertent dural tear, CSF leak)
Chapter 49 in *Complications in Neurosurgery* – Elsevier
Josiah, DT; Resnick DK
3. “Traumatic Atlantoaxial Rotatory Fixation” for Cervical Trauma (ed. Robert F. Heary) - Thieme
Josiah, DT; Resnick DK *pending in press*
4. EMG/SSEP Monitoring During Sacral Neuromodulation
Erich O. Richter, Marina V. Abramova, Darnell Josiah, and Kenneth M. Alò
Atlas of Implantable Therapies for Pain Management
5. Selective Nerve Root Stimulation: Facilitating the Cephalocaudal “Retrograde” Method of Electrode Insertion
Kenneth M. Alò, Darnell Josiah, and Erich O. Richter *Atlas of Implantable Therapies for Pain Management*
6. EMG/SSEP Monitoring During Thoracolumbar Spinal Cord Stimulation
Erich O. Richter, Marina V. Abramova, Darnell Josiah, and Kenneth M. Alò
Atlas of Implantable Therapies for Pain Management

Abstracts



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1. Bhatia S, **Josiah DT**, Hwang R, Katsevman G, Turner R. Utility of Sodium Fluorescein for Achieving Resection Targets in Glioblastoma Multiforme: The WVU Experience. CNS Annual Meeting - September 2016
2. **Josiah DT**, Bhatia S. Anatomical differences in patients with lumbosacral transitional vertebrae and the implications for minimally invasive spine surgery. CNS Annual Meeting – September 2015.
3. **Josiah DT.**, Zhu D, McFadden G, Caldas H. Oncolytic virus therapy for glioblastoma multiforme delivered by adipose-derived mesenchymal stem cells [abstract]. In: Proceedings of the 99th Annual Meeting of the American Association for Cancer Research; 2008 Apr 12-16; San Diego, CA. Philadelphia (PA): AACR; 2008. Abstract nr 4613.
4. Zhu D., **Josiah DT.**, Studebaker A., McFadden G., Caldas H. Human Mesenchymal Stem Cells as Cellular Delivery Vehicles of Oncolytic Myxoma Virus to Brain Tumors [abstract]. Twelfth Annual Meeting of the Society for Neuro-Oncology (SNO); Dallas, Texas, November 15-18, 2007; Neuro Oncol 2007; 9(4): 467-602
5. Delo D., **Josiah DT.**, Zhu D., Atwood T., and Caldas H. MRI visualization of human mesenchymal stem cells targeting brain tumors in an orthotopic mouse model [abstract]. 2008 Annual Tissue Engineering and Regenerative Medicine International Society - TERMIS-EU Meeting; Tissue Engineering Part A. May 1, 2008, 14(5): 691-943.

Invited Research Presentations

Abstracts and Poster Presentations

Wake Forest University School of Medicine, Winston-Salem, NC
Medical Student Research Day
Impact of chronic nicotine on the development and maintenance of neuropathic hypersensitivity in the rat 2004

Wake Forest University School of Medicine, Winston-Salem, NC
Residents and Fellows' Research Day
Oncolytic Virus Therapy for Glioblastoma multiforme Delivered by Adipose- Derived Mesenchymal Stem Cells 2007



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Wake Forest University School of Medicine, Winston-Salem, NC
Medical Student Research Day
Oncolytic Virus Therapy for Glioblastoma multiforme Delivered by Adipose- Derived
Mesenchymal Stem Cells 2007

Wake Forest University School of Medicine, Winston-Salem, NC
Eighth Annual Graduate Student Research Day
Oncolytic Virus Therapy for Glioblastoma multiforme Delivered by Adipose- Derived
Mesenchymal Stem Cells 2008

Annual Meeting of the American Association for Cancer Research
April 12-16, San Diego, CA.
Oncolytic Virus Therapy for Glioblastoma multiforme Delivered by Adipose- Derived
Mesenchymal Stem Cells 2008

The Fifth International Meeting on Replicating Oncolytic Virus Therapeutics
March 18-21, Banff, Alberta, Canada 2009

Intracranial Osteosarcoma Arising in Fibrous Dysplasia
Ninetieth Annual Meeting of the American Association of Neuropathologists
June 12-15, 2014, Portland Oregon

Quality Improvement Fair – DVT/PE prophylaxis in Neurosurgical patients
West Virginia University, May 2015

Oral Presentations

Tumor Microenvironment Interest Group
Wake Forest University School of Medicine, Winston-Salem, NC
2008

Guidelines for the Management of Acute Cervical Spine and Spinal Cord Injury
Department of Surgery
Trauma Conference April 2012

Surgical Management of Traumatic Brain Injury
Department of Surgery
Trauma Conference
April 2013

Standard Care for Malignant Glioma
AANS 81st Annual Scientific Meeting
April 27th – May 1st 2013
Presented by Dr. C. L Rosen



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Guidelines for the management of Acute Cervical Spine Trauma
Trauma Conference
April 2012

Surgical management of Traumatic Brain Injury
Trauma Conference
April 2013

Surgical Management of Elevated ICP
Trauma Conference
April 2014

Surgical management of Traumatic Brain Injury
Trauma Conference
February 2015

Quality Improvement Fair – DVT/PE prophylaxis in Neurosurgical patients
West Virginia University, May 2015

Educational Activities & Presentations

- 2018 AANS Practical clinic – “Thoracolumbar spine fractures in the Elderly” April 2018 National Meeting in New Orleans, Louisiana
- 2017 AANS APP Spine Techniques Clinic June 2-3 Burr Ridge, IL Cadaver lab
Faculty Instructor
- 2017 AANS Practical clinic – “Thoracolumbar spine fractures in the Elderly” April 2017 National Meeting in Los Angeles, California.
- 2017 Emergency Care and Trauma Symposium – Spinal cord Injury Management, Wisconsin Dells – June 2017
- 2016 - Present Operative education/teaching of Neurosurgery Residents – Primary site: Meriter Hospital

Service Activities

Administrative Committee

1. Executive Member - Perioperative Executive Committee, Meriter Hospital UPH – 07/2017 to present



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2. Executive Member – Meriter Trauma Program Executive Committee, Meriter Hospital UPH – 7/2017 to present
3. Executive Member – Multispecialty Peer Review Committee – Surgical, Meriter Hospital UPH - 09/2017 to present
4. Consultant Member – Multispecialty Peer Review Committee – Inpatient, Meriter Hospital UPH - 10/2017 to present
5. North American Spine Society – Resident/Fellows Education committee member 10/2017 to present
6. University of Wisconsin Department of Neurosurgery Coding and Compliance Faculty Liaison – 04/2018 to present

Journal Reviewer

World Neurosurgery – Editor-in-Chief: Edward C. Benzel 01/2018 to present

Other Activities

Editorials

Reviewer: Journal of NeuroTrauma with Dr. Julian Bailes - 2010
Reviewer: Neurosurgery with Dr. Julian Bailes - 2010

Professional Courses

Resident Update in Neuroscience for Neurosurgeons
Woods Hole, Massachusetts
October 28 – November 4, 2012

Cleveland Clinic Spine Review
Cleveland, Ohio
July 10 – 16, 2013

Microscopic and Endoscopic Approaches for Skull Base Lesions and Cerebrovascular Bypass Session
November 7 - 10, 2013
Allegheny General Hospital
Pittsburgh, Pennsylvania

Pittsburgh Spine Summit
September 11 – 13, 2014
Allegheny General Hospital



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Volunteer Experience and Public Service

Microbiology and Immunology tutor
University of Miami, Miami FL 1999-2000

Histology tutor
Barry University, Miami FL 2002-2003

Information and Technology Officer
Wake Forest University School of Medicine, Winston-Salem, NC 2005-2007

Technology Officer, Surgery Interest Group
Wake Forest University School of Medicine, Winston-Salem, NC 2005-2007

Wake Forest University School of Medicine
Academic Software Committee Member 2005

Committee Chair - Community Services
'Share the Health Fair 2005'
Wake Forest University School of Medicine, Winston-Salem, NC 2004-2005

Student Government Technology Officer
Wake Forest University School of Medicine, Winston-Salem, NC 2006-2007

Neuro Intensive Care/Critical Care committee West Virginia University Hospital 2013

West Virginia University Hospital Anticoagulation Committee 2013-2014

West Virginia University School of Medicine GME Resident Forum Voting Member
2014-2016

West Virginia University School of Medicine GME Focus Group November 2014