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CURRICULUM VITAE

Shekar N. Kurpad MD, PhD

Chair, Director, Professor
Department of Neurosurgery

OFFICE ADDRESS:

Hub for Collaborative Medicine
8701 Watertown Plank Road
Milwaukee, WI 53226

EDUCATION:

07/1985 - 04/1991 M.D., Bangalore Medical College, Bangalore, India
09/1991 - 06/1995 Ph.D., Duke University, Durham, NC
2005 - 2006 UWM/MCW Faculty Leadership Program, Milwaukee, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

07/1995 - 06/1996 Intern, General Surgery, University Hospitals of Cleveland, Case Western Reserve University, Cleveland, OH
07/1996 - 06/2001 Resident, Neurosurgery, University Hospitals of Cleveland, Case Western Reserve University, Cleveland, OH
07/1998 - 12/1998 Fellowship, Skull Base Surgery, University of Tennessee, Memphis, TN
07/2000 - 12/2000 Fellowship, Neuro-Oncology, University Hospitals of Cleveland, Case Western Reserve University, Cleveland, OH
01/2001 - 06/2001 Fellowship, Spinal Neurosurgery, Medical College of Wisconsin, Milwaukee, WI

FACULTY APPOINTMENTS:

07/2001 Guest Scientist, Intramural Program, National Institute of Drug Abuse, National Institute of Health, Baltimore, MD
08/2001 - 06/2002 Guest Scientist, Department of Neuroscience, Karolinska Institute, Stockholm, Sweden
01/2002 - 12/2006 Assistant Professor, Department of Neurosurgery, Medical College of Wisconsin, Milwaukee, WI
2005 - Present Adjunct Assistant Professor, Department of Neuroscience, Marquette University, Milwaukee, WI
2005 - Present Adjunct Assistant Professor, Department of Speech Pathology and Audiology, Marquette University, Milwaukee, WI
01/2007 - 06/2014 Associate Professor, Department of Neurosurgery, Medical College of Wisconsin, Milwaukee, WI
2007 - Present Adjunct Associate Professor, Department of Cell Biology and Neurobiology, Medical College of Wisconsin, Milwaukee, WI
07/2014 - Present Professor with Tenure, Department of Neurosurgery, Medical College of Wisconsin, Milwaukee, WI
2014 - Present Invited Guest Faculty, University of Toronto School of Medicine, Toronto, ON
09/2015 - 02/2016 Professor and Acting Chairman, Department of Neurosurgery, Medical College of Wisconsin, Milwaukee, WI

ADMINISTRATIVE APPOINTMENTS:

07/2002 - Present Chief, Neurosurgery Service, Clement J Zablocki VA Medical Center, 5000 W. National Ave, Milwaukee, WI 53295
03/2009 - Present Medical Director, Spinal Cord Injury Center, Froedtert Hospital, Milwaukee, WI
04/2009 - Present Current Co Chair, Medical College of Wisconsin Human Embryonic Stem Cell,

Committee, Milwaukee, WI
04/2009 - Present Medical Director, SpineCare, Oconomowoc, WI
07/2009 - Present Member, Medical College of Wisconsin Global Health Pathway, Milwaukee, WI
07/2011 - 05/2016 Director, Spinal Neurosurgery Fellowship, Department of Neurosurgery, Medical College of Wisconsin, Milwaukee, WI

HOSPITAL STAFF PRIVILEGES:

07/2002 - Present Froedtert Memorial Lutheran Hospital, 9200 W. Wisconsin Ave, Milwaukee, WI 53226
07/2002 - Present Zablocki Veterans Medical Center, 5000 W. National Ave, Milwaukee, WI 53295
12/2008 - Present St. Joseph's Hospital, 3200 Pleasant Valley Road, West Bend, WI 53095
04/2009 - Present Community Memorial Hospital, Memomonee Falls, WI

SPECIALTY BOARDS AND CERTIFICATION:

Board Certified	Issue Date	Expiration
American Board of Neurological Surgery	05/24/2006	12/31/2026

Licensure	Number	Issue Date	Expiration
Wisconsin License	44618	06/19/2002	10/31/2017

AWARDS AND HONORS:

04/1983 Ranked 6th, Southern India Matriculation Examination
12/1988 - 12/1998 Gold Medal in Pharmacology, Bangalore University
04/1991 Nizam of Hyderabad Scholarship
08/1991 - 05/1995 Duke University Graduate Fellowship
06/1995 Passed with Honors: Doctor of Philosophy
04/2001 William P. Van Wagenen Fellowship: AANS
2007 - Present Best Doctors in America

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

Indian Medical Association
North American Skull Base Society
American Association for the Advancement of Science
Society for Neuroscience
American Association for Neurological Surgeons (Fellow)
Neurological Society of India: Life Member
Wisconsin Medical Society
Rachidian Society (Scientific Program Chairman 2004-2005)
Joint Spine Section: AANS/CNS
American Association of South Asian Neurosurgeons
Congress of Neurological Surgeons

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Journal Review
2004 - Present Journal of Neuro-Oncology
2005 - Present Spine
2013 - Present Neurosurgery
2014 - Present PLos One
2014 - Present Journal of Neurotrauma
2015 - Present World Neurosurgery
2016 - Present Journal of Neurosurgery Spine
2016 - Present NMR in Biomedicine

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2008 - Present Medical Advisory Board, Prism Clinical Imaging, Milwaukee WI 2008-Present

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2002 - 2006 Member, Congress of Neurological Surgery International Fellowship Committee
2004 - 2005 Member, Congress of Neurological Surgery Fellowships Committee
2005 Faculty, Thoracic and Lumbar Fusion: Emerging Technologies, Congress of Neurological Surgery Boston MA
05/2006 Visiting Professor, Case Western Reserve University, Cleveland OH
09/2006 Visiting Professor, Duke University Medical Center, Durham NC
2006 Member, Annual Meeting Committee, Congress of Neurological Surgeons Annual Meeting, Chicago IL
12/2008 Visiting Professor, Neurological Society of India, Pune, India
12/2008 Visiting Professor, All India Institute of Medical Sciences, New Delhi, India
12/2008 Visiting Professor, National Institute of Mental Health and Neuro Sciences, Bangalore, India
2008 - Present Secretary: American Association of South Asian Neurosurgeons
2008 - Present Member, Congress of Neurological Surgeons, International Division
2008 - Present Fellowship Director: American Association of South Asian Neurosurgeons
2009 National VA Spinal Cord Injury Consortium: Invited Member
2009 - Present Site Review Panelist VA Spinal Cord Injury Consortium
03/2010 Visiting Professor, Portuguese Society of Neurological and Orthopedic Surgery, Porto, Portugal
05/2010 Visiting Professor, Vanderbilt University Department of Neurosurgery, Nashville TN
07/2010 Visiting Professor, Christian Medical College, Vellore India
2010 - Present Medical Advisory Board, Neuralstem Inc, Bethesda MD
2010 - Present Member National VA Clinical Studies Panel
2010 - Present External Advisory Panel, Yale University Spinal Cord Injury Consortium
2010 - Present Ad Hoc Member: VA Rehab R&D Grant Review Committee
2016 - Present Selection Committee Member, Van Wagenen Selection Committee, Neurosurgery Research & Education Foundation (NREF)

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

Annual Invited Lecturer, Department of Neuroscience, Marquette University, 2002 - Present
Faculty, Spinal Cord Injury Center Preceptor Program, Medical College of Wisconsin, 2002 - Present
Annual Invited Lecturer, Department of Speech Pathology and Audiology, Marquette University, 2003 - Present
Advances in Spinal Cord Injury, National Spinal Cord Injury Association, Annual Lecture, 01/2010 - Present
Spinal Cord Injury: Treatment and Research Update, Milwaukee Trauma/EMS Association, - 02/2014
Current Practices in Spinal Surgery: From Patient Selection to Surgery, Wisconsin Workers Compensation Forum, Pewaukee, WI, - 10/2011
Care of the Spinal Cord Injured Patient and Research Advances: An Update, SERTAC Trauma Conference, Waukesha, WI, - 09/2012
Treatment and Imaging Advances in Spinal Cord Injury, Columbia/St. Mary's Hospital, Milwaukee, WI, - 10/2011
Spinal Cord Injury: Diagnostic and Therapeutic Advances, Lecture to Medical College of Wisconsin Board of Trustees, Milwaukee, WI, - 01/2011
Diffusion Tensor Imaging in Spinal Cord Injury: Implications for Prognosis Inauguration, Neuroscience Center, Medical College of Wisconsin, - 11/2010
Care of the Spinal Cord Injured Patient and Research Advances, SERTAC Trauma Conference, Waukesha, WI, - 09/2009
Advances in Spinal Cord Injury Diagnosis and Treatment, Department of Physical Medicine & Rehabilitation Grand Rounds, Milwaukee, WI, - 08/2009

Regional

Faculty, Annual Brain Cutting Conference, Marquette University, Course Director Subhash Bhatnager, PHD, 08/2004 - Present
Invited Lecturer, Waisman Center for Stem Cell Research, University of Wisconsin Madison, 01/2005
Care of the Spinal Cord Injured Patient and Research Advances, Central Wisconsin Trauma Conference, Wausau, WI, - 08/2010

Treatment Advances in Spinal Cord Injury, St. Vincent Hospital, Green Bay, WI, - 04/2011

National

Invited Lecturer, Preston Robert Tisch Brain Tumor Center, Duke University Medical Center, 09/2006
Invited Speaker, American Association of Neurological Surgeons, San Diego, CA, 05/2009
Invited Lecturer, Preston Robert Tisch Brain Tumor Center, Duke University Medical Center, - 09/2006
Invited Speaker, American Association of Neurological Surgeons, San Diego, CA, - 05/2009
Vanderbilt University Medical Center: Advances in Spinal Cord Imaging, - 05/2010
American Spinal Injury Association: MRI of the Spinal Cord: Implications for Prognosis, Washington, DC, - 07/2011
Biomarkers in Spinal Cord Injury, Portland International Neuroscience Symposium, Portland, OR, - 07/2013
Imaging in Spinal Cord Injury: A Surgeon's Perspective, Duke University, Durham, NC, - 01/2015
American Spinal Injury Association: Advances in Spinal Cord Imaging, Nashville, TN, - 05/2010
Stem Cell Treatment Strategies for Spinal Cord Injury: Implications and Adverse Effects, San Diego, CA, - 11/2007
MRI in Spinal Cord Injury, American Spinal Injury Association, Chicago, IL, - 05/2013
Department of US Navy: Diffusion Imaging of the Spinal Cord: Implications for the Military, Milwaukee, WI, - 07/2010
Biomarkers for Spinal Cord Injury, Society of University Neurosurgeons, Seattle, WA, - 01/2014

International

Stem Cell Transplantation in Spinal Cord Injury: An Overview, World Spine, Rio de Janeiro, Brazil, - 08/2005
Novel Therapies for Spinal Cord Injury, Neurological Society of India, Pune, - 12/2008
Spinal Cord Injury: Novel Treatments, National Institute of Mental Health and Neuro Sciences, Bangalore, India, - 12/2008
Biomarkers for Spinal Cord Injury, Chinese Neurosurgical Association, Annual Meeting, Xiamen, China, - 11/2014
Plasticity of the CNS: Implications for Imaging, Neurological Society of India, New Delhi, - 12/2012
Mentoring in Neurosurgery, Keynote Speaker, Joint Meeting of the Neurological Society of India, India, - 12/2013
Invited Keynote Speaker, Neurological Society of India, India, - 03/2014
Grand Rounds, Neurosciences Center, University of Toronto, Toronto, ON, - 05/26/2014
Imaging in Spinal Cord Injury: Latest Advances, European Association of Neurological Societies, Krakow, Poland, - 02/2013
Functional Interventions for Failed Back Syndrome, Neurological Society of India, Annual Meeting, Coimbatore, - 12/2014
The Case for Early Surgical Intervention in Spinal Cord Injury, Global Spine Congress, Buenos Aires, Argentina, - 05/2015
Imaging Biomarkers and Their Evolution, 24th E Harry Botterell Lecture, University of Toronto, Ontario, - 11/2015
The Establishment of Guidelines for the Treatment of Spinal Cord Injury in India, Cape Town, South Africa, - 07/2016
Imaging in Spinal Cord Injury and Cervical Myelopathy, Indian Neurotrauma Society, Bangalore, India, - 08/2015
Update on SCI Trials in North America, Indian Neurotrauma Association Annual Meeting, Mussorie, India, - 08/2014
Spinal Cord Imaging: Novel Concepts, Neurological Society of India, Jaipur, - 12/2010
Biomarkers in Spinal Cord Injury, Presidential Lecture, Neurological Society of India, India, - 12/2013
The Case for Early Surgical Interventions in Spinal Cord Injury, 24th E Harry Botterell Lecture, Toronto, Ontario, - 11/2015
Osteoporotic Spinal Fractures: To Treat or Not to Treat?, Neurological Society of India, Hyderabad, - 12/2015
Diffusion Imaging of the Spinal Cord: Implications for Neurosurgery, Portuguese Society of Neurological and Orthopedic Surgery, Porto, Portugal, - 03/2010

COMMITTEE SERVICE:

Medical College of Wisconsin

2007 - Present Panelist: MCW Intramural Pilot Grant Review Committee
2009 - Present Panelist. MCW CTSI Grant Review Committee

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Medical Students

Akhil Saraswat, MCW, 2005 - 2007 Preceptor
Gerald Eckardt, MCW, 2007 - 2008 Preceptor
Margaret Carmody, MCW, 2007 - 2008 Preceptor
Carolyn Quinsey, MCW, 2008 - 2009 Preceptor
Emily Abbott, Katie Krause, MCW, 2009 - 2010 Preceptor
Mohammed Ali Jazayeri, MCW, 2010 - 2012 Preceptor
Michael Hansen (Neurology Residency), MCW, 2012 - 2014 Preceptor
Avinash Rao, MCW, 2014 - 2015 Preceptor
Abraham Schlauderaff, MCW, 2015 - 2016 Preceptor

Graduate Students

PhD Committees

Mike Pizzi, MCW, 2003 - 2007
Moses Darpolor, MCW, 2005 - 2006
Benjamin Ellingson, MCW, 2005 - 2006
Michael Jirjis, MCW, 2009 - Present

Clinical/Research Fellows

Jason Lifshutz MD, Medical College of Wisconsin, 2002 - 2004 Spinal Neurosurgery Fellowship Mentor
Zvi Lidar MD, Medical College of Wisconsin, 2002 - 2004 Spinal Neurosurgery Fellowship Mentor
Scott Soleau MD, Medical College of Wisconsin, 2004 - 2005 Spinal Neurosurgery Fellowship Mentor
Brian Snell MD, Medical College of Wisconsin, 2004 - 2005 Spinal Neurosurgery Fellowship Mentor
Marjorie Wang MD, Medical College of Wisconsin, 2005 - 2006 Spinal Neurosurgery Fellowship Mentor
Simon Salerno MD, Medical College of Wisconsin, 2005 - 2006 Spinal Neurosurgery Fellowship Mentor
Jeff Golan MD, Medical College of Wisconsin, 2007 - 2008 Spinal Neurosurgery Fellowship Mentor
Olawale Sulaiman MD, Medical College of Wisconsin, 2007 - 2008 Spinal Neurosurgery Fellowship Mentor
Harlan Bruner MD, Medical College of Wisconsin, 2009 - 2010 Spinal Neurosurgery Fellowship Mentor
Michael Martin MD, Medical College of Wisconsin, 2009 - 2010 Spinal Neurosurgery Fellowship Mentor
Alice Cherqui MD, Medical College of Wisconsin, 2010 - 2011 Spinal Neurosurgery Fellowship Mentor
Chad Cole MD, Medical College of Wisconsin, 2011 - 2012 Spinal Neurosurgery Fellowship Mentor
Jason Przybylo MD, Medical College of Wisconsin, 01/2013 - 12/2013 Spinal Neurosurgery Fellowship Mentor
Michael Mumert MD, Medical College of Wisconsin, 2013 - 2014 Spinal Neurosurgery Fellowship Mentor
Hesham Soliman MD, Medical College of Wisconsin, 2015 - 2016 Spinal Neurosurgery Fellowship Mentor
Hoon Choi MD, Medical College of Wisconsin, 2016 - Present Spinal Neurosurgery Fellowship Mentor

Residents

Kim Rickert MD, MCW, 2003 - 2004 Research Supervisor
Melissa Macias MD, PhD, MCW, 2005 - 2008 Research Supervisor
Gerald Eckardt MD, MCW, 2011 - 2012 Research Supervisor
Akin Oni-Orisan MD, MCW, 2013 - Present Research Supervisor

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

Graduate Students

PhD Committees

Benjamin Ellingson PhD, Marquette University, 2006 - 2009 Doctoral Committee Member/Co Supervisor

Michael Jirjis PhD, Marquette Univeresity, 2009 - 2013 Doctoral Committee Member/Co-Supervisor

Committees

Oleysza Motovylak, Marquette University, 2013 - Present Doctoral Committee Member/Co-Supervisor

Nathan Skinner, Marquette University, 2014 - Present Doctoral Committee Member/Co-Supervisor

David Cadotte, Marquette University, - 2014 Invited External Examiner, Doctoral Thesis

Residents

Matthew Alexander MD, Clement J Zablocki VA Medical Center, 2002 - 2003 Clinical Skills Supervisor

Brian Bunch MD, Clement J Zablocki VA Medical Center, 2003 - 2004 Clinical Skills Supervisor

Andrew Beykovsky MD, Clement J Zablocki VA Medical Center, 2004 - 2005 Clinical Skills Supervisor

Kim Rickert MD, Clement J Zablocki VA Medical Center, 2005 - 2006 Clinical Skills Supervisor

Andrew Beaumont, MD, Clement J Zablocki VA Medical Center, 2006 - 2007 Clinical Skills Supervisor

Melissa Macias, MD, Clement J Zablocki VA Medical Center, 2007 - 2008 Clinical Skills Supervisor

Jean-Louis Benae, MD, Clement J Zablocki VA Medical Center, 2008 - 2009 Clinical Skills Supervisor

Matthew Miller MD, Clement J Zablocki VA Medical Center, 2009 - 2010 Clinical Skills Supervisor

Alastair Hoyt MD, Clement J Zablocki VA Medical Center, 2010 - 2011 Clinical Skills Supervisor

Amos Ladouceur MD, Clement J Zablocki VA Medical Center, 2011 - 2012 Clinical Skills Supervisor

Gerald Eckardt MD, Clement J Zablocki VA Medical Center, 2012 - 2013 Clinical Skills Supervisor

Joseph Cochran MD, Clement J Zablocki VA Medical Center, 2013 - 2014 Clinical Skills Supervisor

Andrew Lozen MD, Clement J Zablocki VA Medical Center, 2014 - 2015 Clinical Skills Supervisor

Abhishiek Sharma MD, Clement J Zablocki VA Medical Center, 2014 - 2015 Clinical Skills Supervisor

Akin Oni-Orisan MD, Clement J Zablocki VA Medical Center, 2015 - 2016 Clinical Skills Supervisor

Ninh Doan MD, Clement J Zablocki VA Medical Center, 2016 - Present Clinical Skills Supervisor

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Kurpad, S.N., Novel approaches for the selective adjuvant therapy for malignant human gliomas. Dissertation, Department of Pathology, Duke University Medical Center, June 1995.
2. Wikstrand, C.J., Stanley, S.D., Pegram, C., Archer, G.E., Kurpad, S.N., Shibuya, M.M., Bigner, D.D.: Investigation of a synthetic peptide immunogen for a variant epidermal growth factor receptor associated with gliomas. J. Neuroimmunol. 46(1-2): 165-173, 1993.
3. Kurpad, S.N., Wikstrand, C.J., Bigner, D.D.: Immunobiology of malignant astrocytoma. Semin. Oncol. 21(2): 149-161, 1994.
4. Wikstrand C.J., Hale, L.P., Batra, S.K., Hill, M.L., Humphrey, P.A., Kurpad, S.N., McLendon, R.E., Moscatello, D., Pegram, C.N., Reist, C.J., Traweek, S.T., Wong, A.J., Zalutsky, M.R., Bigner, D.D.: Monoclonal antibodies against EGFRvIII are tumor specific and react with breast and lung carcinomas and malignant human gliomas. Cancer Res. 55:3140-3148, 1995.
5. Kurpad, S.N., Friedman, H.S., Archer, G.E., McLendon, R.E., Petros, W.M., Fuchs, H.E., Guaspari, A., Bigner, D.D.: Inraarterial administration of melphalan for the treatment of intracranial human glioma xenografts in athymic rats. Cancer Res. 55:3803-3809, 1995.
6. Reist, C.J., Archer, G.E., Kurpad, S.N., Wikstrand, C.J., Vaidyanathan, G., Willingham, M.C. Moscatello, D.K., Wong, A.J., Bigner, D.D., Zalutsky, M.R.: Tumor specific anti epidermal growth actor receptor vIII antibodies: use of tyramine cellobiose radioiodination method enhances cellular retention and uptake in tumor xenografts. Cancer Res. 55:4375-4382, 1995.
7. Kurpad, S.N., Zhao, X.G., Wikstrand, C.J., Batra, S.K., McLendon, R.E., Bigner, D.D.: Tumor antigens in astrocytic gliomas. Glia 15:244-256, 1995.
8. Kurpad, S.N., Dolan, M.E., McLendon, R.E., Archer, G.E., Moschel, R.C., Pegg, A.E., Bigner, D.D., Friedman, H.S.: Intraarterial O6 Benzylguanine enables the specific therapy of nitrosourea resistant human glioma xenografts in athymic rats with 1,3 bis(2-chloroethyl)-1-nitrosourea. Cancer Chemother. Pharmacol., 1997 39(4): 307-316.
9. Kurpad, S.N. and Cohen, A.R.: Posterior fossa craniotomy: Advantages over craniectomy. Pediatric Neurosurgery, 31:54-57, 1999.

10. Kurpad, S.N. and Cohen, A.R.: Endoscopic third ventriculostomy. Pediatric Endoscopy and Innovative Techniques, 3:117-122, 1999.
11. Kurpad, S.N., Goldstein, J.A., Cohen, A.R.: Biodegradable fixation devices in pediatric craniofacial surgery: results of a one year follow-up. Pediatric Neurosurgery, Dec 33(6): 306-310, 2000.
12. Hofstetter, C.P, Holmstrom, N., Schweinhardt, P., Sperger, C., Frisen, J., Kurpad, S.N., Olson, L,: Allodynia limits the usefulness of intraspinal neural stem cell grafts; directed differentiation improves outcome, Nature Neuroscience, 8:346-353, March 2005.
13. Alexanian A.R and Kurpad, S.N: Quiescent neural cells regain multipotent stem cell characteristics influenced by adult neural stem cells in co-culture. Experimental Neurology, Jan 91(1): 193-7, 2005.
14. Alexanian A.R., Crowe M.J., Kurpad S.N.: Efficient differentiation and integration of lineage-restricted neural precursors in traumatically injured adult cat spinal cord. J. Neuroscience Methods, Jan 15; 150(1):41-6, 2006.
15. Lidar Z., Lifshutz J., Bhattacharjee S., Kurpad S.N., Maiman D.J.: Minimally invasive, extracavitary approach for thoracic disc herniation: Technical report and preliminary results. Spine Journal, Mar-Apr 6 (2): 157-63.
16. Macias M.Y., Bacon M.C., Pizzi M., Crowe M.J., Alexanian A.R., Kurpad S.N.: Pain with no gain: Allodynia following stem cell transplantation in spinal cord injury. Experimental Neurology, 2006 Oct; 201 (2):335-48.
17. Ellingson B.M., Kurpad S.N., Li S.J., Schmit B.S.: In vivo diffusion tensor imaging of the rat spinal cord at 9.4T. Journal of Magnetic Resonance Imaging 27(3):634-42, March 2008.
18. Ellingson B.M, Ulmer J.L, Kurpad S.N., Schmit B.D.: Diffusion tensor MR imaging of the neurologically intact human spinal cord. American Journal of Neuroradiology 29(7):1279-84, 2008.
19. Ellingson B.M., Ulmer J.L., Kurpad S.N., Schmid B.D.: Diffusion tensor MR imaging in chronic spinal cord injury. American Journal of Neuroradiology 29(10):1976-82, Nov 2008.
20. Ellingson B.M., Kurpad S.N., Schmit B.D.: Ex vivo diffusion tensor imaging and quantitative tractography of the rat spinal cord during long-term recovery from moderate spinal contusion. Journal of Magnetic Resonance Imaging 28(5):1068-79, Nov 2008.
21. Ellingson B.M., Kurpad, S.N., Schmit B.D.: Functional correlates of diffusion tensor imaging in spinal cord injury. Biomed Sci Instrum 44:28-33, 2008.
22. Ellingson B.M., Kurpad S.N., Schmit B.D.: Characteristics of mid-to-long-latency spinal somatosensory evoked potentials following spinal trauma in the rat. Journal of Neurotrauma 25(22):1323-34, Nov 2008.
23. Alexanian A.R., Maiman D.J., Kurpad S.N., Gennarelli T.A.: In vitro and in vivo characterization of neurally modified mesenchymal stem cells induced by epigenetic modifiers and neural stem cell environment. Stem Cells Development 17(6):1123-30, Dec 2008.
24. Ellingson BM, Sulaiman O, Kurpad SN: High-resolution in vivo tensor imaging of the injured cat spinal cord using self-navigated, interleaved, variable-density spiral acquisition (SNAILS-DTI). Magn Reson Imaging 28(9):1353-60, Nov 28, 2010.
25. Alexanian AR, Svendsen CN, Crowe MJ, Kurpad SN: Transplantation of human glial-restricted neural precursors into injured spinal cord promotes functional and sensory recovery without causing allodynia. Cytotherapy August 24, 2010 (Epub ahead of print).
26. Ellingson BM, Schmit BD, Kurpad SN: Lesion growth and degeneration patterns measured using diffusion tensor 0.4-T magnetic resonance imaging in rat spinal cord injury. J Neurosurg-Spine 13(2):181-192, Aug 2010.
27. Ellingson BM, Schmit BD, Ulmer JL, Kurpad SN: Diffusion tensor magnetic resonance imaging in spinal cord injury. Concepts in Magnetic Resonance Part A 32A: Issue 3: pp 219-237, May 2008.
28. Smith KM, Yoganandan N, Pintar FA, Kurpad SN, Maiman DJ. Atlantooccipital dislocation in motor vehicle side impact, derivation of the mechanism of injury, and implications for early diagnosis. J Craniovertebr Junction Spine. 2010 Jul;1(2):113-7. PMCID: PMC3075827
29. Zhang Z, Maiman DJ, Kurpad SN, Crowe MJ, Alexanian AR. Feline bone marrow-derived mesenchymal stem cells express several pluripotent and neural markers and easily turn into neural-like cells by manipulation with chromatin modifying agents and neural inducing factors. Cell Reprogram. 2011 Oct;13(5):385-90.
30. Pechman KR, Donohoe DL, Bedekar DP, Kurpad SN, Hoffmann RG, Schmainda KM. Characterization of bevacizumab dose response relationship in U87 brain tumors using magnetic resonance imaging measures of enhancing tumor volume and relative cerebral blood volume. J Neurooncol. 2011 Nov;105(2):233-9. PMCID: PMC4323180

31. Pechman KR, Donohoe DL, Bedekar DP, Kurpad SN, Schmainda KM. Evaluation of combined bevacizumab plus irinotecan therapy in brain tumors using magnetic resonance imaging measures of relative cerebral blood volume. Magn Reson Med. 2012 Oct;68(4):1266-72. PMCID: PMC3323703
32. Vedantam A, Jirjis MB, Schmit BD, Budde MD, Ulmer JL, Wang MC, Kurpad SN. Diffusion tensor imaging and tractography in Brown-Sequard syndrome. Spinal Cord. 2012 Dec;50(12):928-30.
33. Vedantam A, Jirjis MB, Schmit BD, Wang MC, Ulmer JL, Kurpad SN. Characterization and limitations of diffusion tensor imaging metrics in the cervical spinal cord in neurologically intact subjects. J Magn Reson Imaging. 2013 Oct;38(4):861-7.
34. Vedantam A, Jirjis MB, Schmit BD, Wang MC, Ulmer JL, Kurpad SN. Diffusion tensor imaging of the spinal cord: insights from animal and human studies. Neurosurgery. 2014 Jan;74(1):1-8; discussion 8; quiz 8. PMCID: PMC4986512
35. Jirjis MB, Kurpad SN, Schmit BD. Ex vivo diffusion tensor imaging of spinal cord injury in rats of varying degrees of severity. J Neurotrauma. 2013 Sep 15;30(18):1577-86. PMCID: PMC3761423
36. Vedantam A, Eckardt G, Wang MC, Schmit BD, Kurpad SN. High cervical fractional anisotropy as an imaging marker for spinal cord injury. Neurosurgery. 2014 Aug;61 Suppl 1:167-70.
37. Miller AP, Shah AS, Aperi BV, Budde MD, Pintar FA, Tarima S, Kurpad SN, Stemper BD, Glavaski-Joksimovic A. Effects of blast overpressure on neurons and glial cells in rat organotypic hippocampal slice cultures. Front Neurol. 2015;6:20. PMCID: PMC4325926
38. Zammar SG, Hamade YJ, Aoun RJ, El Tecle NE, El Ahmadieh TY, Adelson PD, Kurpad SN, Harrop JS, Hodge H, Mishra RC, Rajshekhar V, Rezai AR, Sahkla SK, Sattur MG, Selden NR, Sharan AD, Resnick DK, Bendok BR. The cognitive and technical skills impact of the Congress of Neurological Surgeons simulation curriculum on neurosurgical trainees at the 2013 Neurological Society of India meeting. World Neurosurg. 2015 Apr;83(4):419-23.
39. Stemper BD, Shah AS, Pintar FA, McCrea M, Kurpad SN, Glavaski-Joksimovic A, Olsen C, Budde MD. Head rotational acceleration characteristics influence behavioral and diffusion tensor imaging outcomes following concussion. Ann Biomed Eng. 2015 May;43(5):1071-88. PMCID: PMC4654450
40. Vedantam A, Eckardt G, Wang MC, Schmit BD, Kurpad SN. Clinical correlates of high cervical fractional anisotropy in acute cervical spinal cord injury. World Neurosurg. 2015 May;83(5):824-8.
41. Skinner NP, Kurpad SN, Schmit BD, Budde MD. Detection of acute nervous system injury with advanced diffusion-weighted MRI: a simulation and sensitivity analysis. NMR Biomed. 2015 Nov;28(11):1489-506.
42. Jirjis MB, Vedantam A, Budde MD, Kalinosky B, Kurpad SN, Schmit BD. Severity of spinal cord injury influences diffusion tensor imaging of the brain. J Magn Reson Imaging. 2016 Jan;43(1):63-74.
43. Oni-Orisan A, Kaushal M, Li W, Leschke J, Ward BD, Vedantam A, Kalinosky B, Budde MD, Schmit BD, Li SJ, Muqeet V, Kurpad SN. Alterations in Cortical Sensorimotor Connectivity following Complete Cervical Spinal Cord Injury: A Prospective Resting-State fMRI Study. PLoS One. 2016;11(3):e0150351. PMCID: PMC4783046
44. Stemper BD, Shah AS, Budde MD, Olsen CM, Glavaski-Joksimovic A, Kurpad SN, McCrea M, Pintar FA. Behavioral Outcomes Differ between Rotational Acceleration and Blast Mechanisms of Mild Traumatic Brain Injury. Front Neurol. 2016;7:31. PMCID: PMC4789366
45. Vedantam A, Rao A, Kurpad SN, Jirjis MB, Eckardt G, Schmit BD, Wang MC. Diffusion Tensor Imaging Correlates with Short-Term Myelopathy Outcome in Patients with Cervical Spondylotic Myelopathy. World Neurosurg. 2017 Jan;97:489-494.
46. Skinner NP, Kurpad SN, Schmit BD, Tugan Muftuler L, Budde MD. Rapid in vivo detection of rat spinal cord injury with double-diffusion-encoded magnetic resonance spectroscopy. Magn Reson Med. 2017 Apr;77(4):1639-1649. PMCID: PMC5285487
47. Stemper BD, Shah AS, Chiariello R, Olsen CM, Budde MD, Glavaski-Joksimovic A, McCrea M, Kurpad SN, Pintar FA. Prediction of Post-Concussive Behavioral Changes in a Rodent Model Based on Head Rotational Acceleration Characteristics. Ann Biomed Eng. 2016 Nov;44(11):3252-3265. PMCID: PMC5093216
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