CURRICULUM VITAE

March, 2009

Alexander George Rabchevsky

Address: Spinal Cord & Brain Injury
Research Center (SCoBIRC)
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Date of Birth: April 10, 1966

Nationality: U.S. Citizen

Present Title: Associate Professor of Physiology, SCoBIRC Endowed chair

Education: B.S. Hampden-Sydney College, Hampden-Sydney, VA
(Biology) 1988

Ph.D. University of Florida, Gainesville, FL
(Neuroscience) 1995

Research & Teaching Interests: Pathology of spinal cord & brain injury; Gene therapy for locomotor recovery and alleviation of autonomic dysfunction; Pharmacological and cellular interventions; Biochemical characterization of mitochondrial bioenergetics; Behavioral & Physiological assessments

Research Experience and Appointments:

1987	Biological Fellowship, Molecular Genetics, Dept. Biology, Emory University, Atlanta, GA
1988-1990	Biological Laboratory Technician, Department of Pharmacology, Uniformed Services University of the Health Sciences (USUHS), Bethesda, MD.
1990-95	Ph.D. Graduate Student, Dept. of Neuroscience, University of Florida College of Medicine
1992-95	Graduate teaching assistant, University of Florida, Medical & Veterinary Neuroscience
1995-97	Foreign Postdoctoral Fellow, INSERM Unité 421, University of Paris XII, France
1997-99	Postdoctoral Scholar, Sanders-Brown Center on Aging, University of Kentucky
1999-2001	Research Associate, Department of Anatomy & Neurobiology, University of Kentucky
2002-2007	Assistant Professor, tenure tack, Department of Physiology, Spinal Cord & Brain Injury Research Center (SCoBIRC), University of Kentucky College of Medicine
7/2007-present	Associate Professor with tenure, Department of Physiology, Spinal Cord & Brain Injury Research Center (SCoBIRC), University of Kentucky College of Medicine

Honors and Awards:

1987	*Presidential Award for Leadership and Character*, Hampden-Sydney College, VA
1987	*Biological Fellowship* (*Molecular Genetics*), Emory University, Atlanta, Georgia
1988	*Presidential Award for Courageousness*, Hampden-Sydney College, VA
1988	Graduated with B.S. one semester behind my class (1987) despite missing an entire academic year following an accident rendering me paraplegic in 1985 (Hampden-Sydney)
1991-1993	*Pre-Doctoral Studentship Award*, Rick Hansen Man in Motion Legacy Fund, Canada "Studies of kinesin in normal and axotomized central neurons," $15,000/year College of Medicine, University of Florida
1994	*Graduate Assistant Teaching Award*, Medical Neuroscience, College of Medicine, University of Florida
1994	*"Poster Excellence" Prize Award*, 12th National Neurotrauma Society Symposium, Miami, FL
1999	*National Research Service Award*, Postdoctoral Fellowship, NIH/NINDS (University of Kentucky) "Mechanisms of bFGF effects after spinal cord injury. $40,000/year Declined
2004	*Provost Retention Award*, College of Medicine, University of Kentucky
2004-present	*Spinal Cord and Head Injury Research Endowed Chair #1*, College of Medicine, University of Kentucky
2004, 05, 06, 07, 08	*Charles T. Wethington Award for Excellence in Research*, College of Medicine, University of Kentucky
2006	*Abraham Flexner Master Educator Award* for "Outstanding Teaching Contribution," Center for Excellence in Medical Education, University of Kentucky
2008	*James W. Holsinger Award* for "Excellence in Teaching," Department of Physiology and the College of Medicine, University of Kentucky

Ongoing Research Support:

National Institutes of Health-NINDS (R01 NS049901) Rabchevsky (PI)
"Role of intraspinal plasticity in autonomic dysreflexia." 50%
(08/02/04 – 04/30/09) $1,703,155 Note: One year non-cost extension

This study is employing both retrograde and anterograde tracing methods to characterize the structural relationships between visceral afferents and sacral relay neurons after spinal cord injury, and between putative sacral relay neurons and sympathetic preganglionic neurons in the IML which become hyperactive upon noxious sensory stimulation below the level of spinal cord injury, leading to autonomic dysreflexia. In addition to establishing baseline differences after injury, it will assess the differential tracing patterns in spinal rats injected with adenovirus encoding control GFP, various growth factors (NGF, FGF-2, NT-3) or Sema 3A.

The Michael and Helen Schaffer Foundation, Boston, MA Rabchevsky (PI)
"Donation for research efforts conducted in laboratory (discretionary) to study spinal cord injury."
(10/14/08 –) $25,000

Ongoing Research Support (continued):

Kentucky Spinal Cord and Head Injury Research Trust Grant (KSCHIRT #8-13) Rabchevsky (PI)
"Effects of acetyl-L-carnitine treatment on mitochondrial function, tissue sparing and hind limb locomotor recovery following contusion spinal cord injury." 5%
(01/15/09 – 01/14/12) $99,616/year

This study is testing whether impaired mitochondrial bioenergetics, oxidative damage and mitochondrial calcium load capacity are ameliorated with acetyl-L-carnitine (ALC) treatment following acute contusion SCI. We are establishing a therapeutic time window of ALC administration after acute SCI and whether prolonged ALC treatment results in increased tissue sparing and hind limb recovery after chronic SCI.

National Institutes of Health-NINDS (P30 NS051220) Edward D. Hall (PI)
"University of Kentucky Spinal Cord & Brain Injury Research Center Core Grant"
(05/01/05 – 04/30/10) $2,224,546
Core C Co-Directors: Kathryn E. Saatman & Alexander G. Rabchevsky 2.5%

The Core C is designed to maintain state-of-the-art behavioral analysis apparatus for both SCI and TBI outcome measures after different injury paradigms, notably fore and hind limb locomotion, cognition, cardiophysiology, electrophysiology.

Core D Co-Directors: Patrick G. Sullivan & Alexander G. Rabchevsky 2.5%

The Core D is designed to maintain a state-of-the-art microscopy and imaging analysis core, with particular focus on confocal and stereological microscopy.

National Institutes of Health-NIDA (1T32 DA022738) Edward D. Hall (PI)
"Therapeutic Strategies for Neurodegeneration Training Grant"
(09/26/06-06/30/11) $1,200,467
Training Faculty: Alexander G. Rabchevsky 2.5%

Broad-based training in modern research concepts regarding the pathophysiology of neurotrauma and neurodegenerative disorders and potential molecular targets for discovery of pharmacological and gene therapeutic strategies by which the devastating effects of these conditions can be ameliorated.

Support for Current Trainees:

Hanad Duale, PhD, Postdoctoral Fellow
PVA Research Foundation Grant # 2561 (PI: Hanad Duale; Rabchevsky, Sponsor)
(01/01/08-12/31/09) $98,820
Samir Patel, PhD, Postdoctoral Fellow
R01 NS049901-01 (PI: Alexander Rabchevsky)

Pending Research Support:

Craig H. Neilsen Foundation Rabchevsky (PI)
"Gabapentin for Spasticity and Autonomic Dysreflexia after spinal cord injury." Kitzman (Co-PI)
(07/01/09 – 06/30/11) $124,972/year

Completed Research Support:

Kentucky Spinal Cord and Head Injury Research Trust Grant (KSCHIRT #9-17) Rabchevsky (PI)
"Combinational therapies for recovery after spinal cord injury: steroids and growth factors."
(01/12/00 – 01/13/03) $99,749/year

International Spinal Research Trust Grant (ISRT #STR063) Rabchevsky (PI)
"Mechanisms of autonomic dysreflexia following spinal cord injury."
(07/12/02 – 06/11/05) $71,235/year

University of Kentucky, Medical Center Research Foundation Grant (#1051) Rabchevsky (PI)
"Gene therapy to improve remyelination and function after spinal cord injury."
(07/15/03 – 06/30/04) $13,500

American Paraplegia Society Seed Grant (#908) Rabchevsky (PI)
"Growth factor-mediated gene therapy for spinal cord injury."
(11/01/03 – 10/31/04) $16,800

Geron Corporation, Menlo Park, CA Type: Contract Rabchevsky (PI)
"Transplantation of glial progenitor cells derived from human embryonic stem cells into the injured rat spinal cord."
(01/31/04 – 09/30/05) $99,730

Kentucky Spinal Cord and Head Injury Research Trust Grant (KSCHIRT #3-11) Rabchevsky (PI)
"Influence of neurotrophins on intraspinal plasticity modulating autonomic dysreflexia."
(01/15/04 – 10/14/07) $99,000/year

Teaching Experience - Lectures at University of Kentucky (U.K.) and other National Institutions:

2001 *Spinal Cord Injury Techniques Course*, University of California at Irvine, Department of Anatomy & Neurobiology and the Reeve-Irvine Research Center, "Growth factor therapy for recovery after spinal cord injury." (2 hr lecture - Summer)

2002 *Medical Neuroscience-MD 817*, U.K., "Therapeutic interventions following spinal cord injury: Defining targets of experimental treatments." (1 hr lecture - Spring)

2002 *Physical Therapy-PT 827*, U.K., "A surgically implanted 'Functional Electrical System' for standing and walking." (1 hr lecture – Fall)

2002 *Spinal Cord Injury Techniques Course*, University of California at Irvine, Dept of Anatomy & Neurobiology and the Reeve-Irvine Research Center, "Therapeutic interventions following spinal cord injury: clinical treatment to lab bench to clinical trials." (2 hr lecture - Summer)

2003-08 *Principles of Human Physiology-PGY 412G*, U.K., "Neurophysiology" (8 x 1 hr lectures - Spring & Fall)

2003 *Medical Neuroscience-MD 817*, U.K., "Spinal cord injury: Clinical treatment to lab bench to clinical trials." (1 hr lecture - Spring)

2003 *Spinal Cord Injury Techniques Course*, University of California at Irvine, Department of Anatomy & Neurobiology and the Reeve-Irvine Research Center, "Gene therapy for spinal cord dysfunction," and "A surgically implanted neuroprosthesis for exercise, standing, and transfers after spinal cord injury." (2 x 1 hr lectures - Summer)

2004 *Medical Neuroscience-MD 817*, U.K., "Spinal cord injury: Dysfunctions and therapeutic approaches." (1 hr lecture - Spring)

2004 *Spinal Cord Injury Techniques Course*, University of California at Irvine, Department of Anatomy & Neurobiology and the Reeve-Irvine Research Center, "Dysfunction after spinal cord injury: Clinical and experimental therapeutics." (2 hr lecture - Summer)

2004 *Advanced Pharmacology-PHA 658*, U.K., "Modern viral approaches." (1.5 hr lecture - Spring)

2005 *Medical Neuroscience-MD 817*, U.K., "Spinal cord injury & functional electrical stimulation." (1 hr lecture - Spring)

Teaching Experience (continued)

2005 *Principles of Neurobiology -ANA 605*, U.K., "Spinal cord injury models", "Autonomic dysreflexia after spinal cord injury." (2 x 1.5 hr lectures - Fall)

2006 *Neurobiology-Bio S315*, University of North Carolina, Pembroke, Department of Biology, "Spinal cord injury: Dysfunctions & therapeutics." (1.5 hr lecture - Spring teleconference with Dr. Robert Poage)

2006-08 *Dental Human Function-OBI 814*, U.K., "Neurophysiology" (6 x 2 hr lectures - Spring)

2006-07 *Spinal Cord Injury Techniques Course*, University of California at Irvine, Department of Anatomy & Neurobiology and the Reeve-Irvine Research Center, "Plasticity of both sensory axons and propriospinal neurons influences the severity of autonomic dysreflexia after complete spinal cord injury," and "Spinal cord injury & functional electrical stimulation (FES)," and "Basic fibroblast growth factor (FGF-2) therapy for recovery of motor function." (3 x 2 hr lectures - Summer)

2007 *Spinal Cord Injury Research Training Program*, The NIH and The Ohio State University, Center for Brain and Spinal Repair, "Plasticity of both sensory axons and propriospinal neurons influences the severity of autonomic dysreflexia after complete spinal cord injury," and "Spinal cord injury & functional electrical stimulation." (2 x 2 hr lectures - Summer)

2007 *Neurobiology-Bio S315*, University of North Carolina, Pembroke, Department of Biology, "Spinal cord injury: Dysfunctions, Clinical Treatments, Experimental Models & Therapeutics." (1.5 hr lecture - Fall teleconference with Dr. Robert Poage)

2007 *Special Topics Course-ANA 780 & PGY 630-CNS Injury and Repair*, U.K., "Spinal cord injury models"; "Autonomic dysreflexia after spinal cord injury"; "Post-Traumatic Demyelination & Remyelination (3 x 1.5 hr lectures - Fall)

2008 *Physical Therapy-PT 827*, U.K., "Plasticity of both visceral sensory fibers and propriospinal neurons is associated with the development of autonomic dysfunction after spinal cord injury." (2 hr lecture - Summer)

Mentorship - University of Kentucky:

-Current supervision:

(2006-present) Supervisor of post-doctoral fellows Dr. Hanad Duale and Dr. Samirkumar Patel

-Past supervised post-doctoral fellows and graduate students:

(2003-2004) Dr. Adrian A. Cameron who is now faculty at University of Melbourne, Australia
(2005-2006) Dr. Sairam Krishnamurthy who is now Lecturer at Banaras Hindu University, India
(2005-2008) Dr. Shaoping Hou who is now a postdoctoral fellow at U.C. San Diego (Dr. Armin Blesch)
(2007-2008) Joseph Whelan, Master's thesis, Physiology graduate student who is now working in MD

Awards for Past and Current Trainees:

1. Shaoping Hou, PhD, Postdoctoral Fellow
   Outstanding Student Abstract, The 25th Annual NNS Symposium 7/2007, Kansas City, MO
2. Samir Patel, PhD, Postdoctoral Fellow
   Best Poster & Presentation Cash Award, The 25th Annual NNS Symposium 7/2007, Kansas City, MO
3. Hanad Duale, PhD, Postdoctoral Fellow (PI: Hanad Duale)
   Postdoctoral fellowship, PVA Research Foundation Grant # 2561 (Rabchevsky, Sponsor) 1/2008

Mentorship - University of Kentucky (continued):

Student Committees:

-Member of doctoral advisory committees (Fall 2002-present)
Karah Nazor (Gerontology) – Defended in July 2005
Michael Smith (Anatomy & Neurobiology) – Defended in December 2005
Kristine Ziemba (Physiology) – Defended in April 2007
Yiqin Xiong (Anatomy & Neurobiology) – Defended in July 2008
Christopher Trimby (Physiology) – currently in 5th year

-Outside examiner for doctoral dissertation defenses
Leslie Phillips (Educational & Counseling Psychology) Defended March 30, 2005
Fujian Zhang (Nutritional Sciences) Defended November 30, 2005
Ernest Aguilar (Health Sciences, Flinders University, Adelaide AUS) – anticipating graduation 05/09

I have been involved in the training of the following students/post docs in my time at UK.

Undergraduate Student Mentor:

1. Leslie Schwindel (Summer 2003) Support: U.K. STEPS Program/ISRT #STR063
2. Aaron Harris (Summer-Fall 2007) Support: U.K. Bio395 Program/KSCHIRT #3-11
3. Racine Gue (Summer 2007) Support: U.K. ABT395 Program/KSCHIRT #3-11
4. Sarah Reagin (Summer 2007) Support: KYSS Summer Research Program
5. JaSan Rumph (Summer 2008) Support: U.K. 'Bucks for Brains' Summer Research Program
6. Jennifer Evans (Fall 2008-Spring 2009) Support: U.K. ANA395 Program/R01 NS049901
7. Jenna Gilb (Spring 2009) Support: U.K. Bio395 Program/R01 NS049901

Medical Student Mentor:

1. Janna Hackett (Summer 2002) U.K. 2nd Year Medical Student
   Support: Federal Work Study Program
2. Igor Voskresensky (Fall 2003–Spring 2004) U.K. 2nd Year Medical Student
   Support: U.K. STEPS Program /ISRT #STR063

Post-Doctoral Fellow Supervisor:

1. Dr. Adrian A. Cameron (2003-2004) Support: ISRT #STR063
2. Dr. Sairam Krishnamurthy (2005-2006) Support: KSCHIRT #3-11
3. Dr. Shaoping Hou, PhD (2005-2008) Support: R01 NS049901

Mentorship of Rotating IBS Graduate Students (8 weeks):

1. George Day (Spring 2003)
2. Christopher Trimby (Spring 2005)
3. Andrew Sauerbeck (Fall 2005)
4. Erica Fleishaker (Summer 2006)
5. Joseph Whelan (Summer 2007)
6. Eva Bach, Darren Miller and Brent Hackett (Fall 2008)
   Support: ISRT #STR063; KSCHIRT #3-11; R01 NS049901

Service - University of Kentucky:

2002-2005	Institutional Animal Care and Use committee (IACUC) member
2002-2005	Organizer of Spinal Cord & Brain Injury Research Center (SCoBIRC) Journal Club
2004-2005	IACUC "Pain Policy" committee member
2003-2005	Co-Coordinator of the SCoBIRC-sponsored Seminar Series
2003-present	Organizing committee member for the Lexington bi-annual Kentucky Spinal Cord and Head Injury Research Trust Fund Symposium
2004-present	Graduate School Faculty member, University of Kentucky
2004-present	SCoBIRC Faculty Search Committee member
2005-present	"Early Mobility Task Force" committee member, University of Kentucky Hospital
2006-2007	Coordinator of SCoBIRC "Day in a Wheelchair" experience in collaboration with Cardinal Hill Rehabilitation Hospital
2007-present	University of Kentucky College of Medicine Admissions Interviewer
2007-present	Spinal Cord Injury Unit "Support Group" member, Cardinal Hill Rehabilitation Hospital

Collaborations and Patents:

-University of Kentucky, Department of Physiology collaboration with Drs. George Smith and David Randall studying, "Mechanisms of autonomic dysreflexia after spinal cord injury." (Fall 2001-present)

-University of Kentucky, Department of Anatomy & Neurobiology collaboration with Dr. Patrick Sullivan studying, "Temporal study of mitochondrial bioenergetics following mid-thoracic spinal cord contusion injury in rats." (Spring 2003-present)

-University of Kentucky, Department of Anatomy & Neurobiology collaboration with Dr. Edward Hall studying, "Time course of oxidative damage and cytoskeletal degradation after spinal cord contusion injury in rats." (Spring 2004-present)

- Patent pending (U.S. Patent Application No. 11/343,160; George M. Smith co-Applicant) "Methods of inhibiting pain and autonomic dysreflexia after spinal cord injury with semaphorin 3A." (Filed January 30, 2006; U.K. case 1261)

-University of Kentucky, Department of Physiology collaboration with Dr. Bret Smith studying, "Electrophysiological characterization of propriospinal pathways contributing to autonomic dysreflexia." (Summer 2006-present)

-University of Kentucky, Department of Physiology collaboration with Dr. Paco Andrade studying, "Characterizing mitochondrial bioenergetics in aged muscles." (Summer 2006-present)

-University of Kentucky, Department of Rehabilitation Sciences collaboration with Dr. Patrick Kitzman studying, "Efficacy of gabapentin treatment in the management of spasticity and autonomic dysreflexia following chronic spinal cord injury." (Spring 2008-present)

-University of Kentucky, Department of Rehabilitation Sciences collaboration with Dr. Esther Dupont-Versteegden studying, "Effect of bicycling exercise on spasticity and autonomic dysreflexia after spinal cord injury." (Spring 2008-present)

National and International Service:

Ad Hoc Journal Reviewer (2000-present)
American Journal of Physiology; Autonomic Neuroscience: Basic and Clinical; Brain Research; Experimental Neurology; Expert Opinion in Pharmacotherapy; Glia; Journal of Applied Physiology; Journal of Neurochemistry; Journal of Neuroscience; Journal of Neuroscience Methods; Journal of Neuroscience Research; Journal of Neurotrauma; Neuroscience; Spinal Cord, The Scientific World

Ad Hoc Grant Reviewer (2002-present)
American Heart Association (AHA)
Canadian Institutes of Health Research (CIHR)
International Spinal Research Trust (ISRT), London, UK
National Institutes of Health (NIH)-Rare Diseases Clinical Research Consortia (ZRG1 HOP-Y (50) R)
New Jersey Commission on Spinal Cord Research (NJCSCR)
New York State Spinal Cord Injury Research Program (NYS SCIRP)
Post-Traumatic Stress Disorder & Traumatic Brain Injury Research Program (PTSD/INT-2)
State of South Carolina, Spinal Cord Injury Research Fund (SCIRF)

Scientific Program Committee member and Faculty Poster Judge (2007)
25th Annual National Neurotrauma Society Symposium, Kansas City, MO

Spinal Cord Outcomes Partnership Endeavor (SCOPE) Workshop panel member (2008)
"Functional Recovery after Spinal Cord Injury: Implications of Different Spinal Injury Patterns and Distinct Therapeutic Targets on Clinical Trial Outcomes," Crystal City Hyatt Regency, Arlington, VA

Professional Societies:

1994-	American Society for Neural Transplantation
1995-	Society for Neuroscience
1996-	National Neurotrauma Society
1997-	Sigma Xi, Scientific Research Society
1997-	Society for Neuroscience, University of Kentucky chapter

Chaired Symposia Sessions - National and International:

2001	The 19th Annual National Neurotrauma Society Symposium, San Diego, CA "Neuroprotective and regenerative therapies for spinal cord injury." (Co-Chair, Dr. Mary Bunge)
2003	The 10th International Symposium on Neural Regeneration, Pacific Grove, CA "Visceral function and pain in spinal cord injury." (Chair)
2005	The 1st Translational Neuroscience Conference, Lexington, KY "Spinal cord injury and neural prostheses." (Co-Chair with Dr. Edward Hall)
2005	The 4th Congress of the International Society for Autonomic Neuroscience, Marseille, France "Spinal cord injury, autonomic nervous system and dysfunction." (Chair)
2007	The 25th Annual National Neurotrauma Society Symposium, Kansas City, MO "Tissue Engineering, Neurobionics and Transplantation." (Co-Chair, Dr. Patrick Kochanek)

Invited Seminars – National and International:

1995 University of Paris, XII School of Medicine, Créteil, France. "Intraspinal transplantation of microglial cells into the injured rat spinal cord."

1998 University of Kentucky, Lexington, KY, *KSCHIRT Symposium*, "Basic fibroblast growth factor (bFGF) reduces tissue damage and enhances recovery following spinal cord injury to the rat."

1999 University of Louisville, Louisville, KY, *KSCHIRT Symposium*, "Basic fibroblast growth factor (bFGF) enhances functional recovery and tissue sparing after spinal cord injury."

2000 Johns Hopkins University, Departments of Biomedical Engineering and Neurology, Baltimore, MD, "Therapeutic interventions following spinal cord injury: Defining the targets of experimental treatments."

2000 University of British Columbia, Department of Zoology and Collaboration on Repair Discoveries (CORD), Vancouver, B.C., Canada, "Effects of basic fibroblast growth factor (bFGF) therapy on spinal cord injury."

2000 University of Kentucky, Spinal Cord & Brain Injury Research Center, Lexington, KY, "Effects of basic fibroblast growth factor (bFGF) therapy on spinal cord injury."

2000 University of Kentucky, Lexington, KY, *KSCHIRT Symposium*, "Effects of basic fibroblast growth factor (bFGF) and combination therapy on spinal cord injury."

2000 University of Louisville, Department of Neurological Surgery, Louisville, KY, "Growth factor therapies and transplantation strategies for spinal cord injury."

2001 University of Louisville, Louisville, KY, *Frontiers in Spinal Cord Regeneration Symposium*, "Growth factor and steroid therapy for recovery after spinal cord injury."

2001 University of Kentucky, Department of Physiology, Lexington, KY, "Growth factor and gene therapy for functional recovery after spinal cord injury."

2002 City University, London, U.K., *International Spinal Research Trust 5th Research Network Meeting*, "Mechanisms of autonomic dysreflexia following spinal cord injury," and "A surgically implanted neuroprosthesis for exercise, standing, and transfers."

2002 Tampa, FL, *First National-International Neurotrauma Society Symposium*, "Keynote Address"

2003 University of Louisville, Louisville, KY, *Frontiers in Spinal Cord Regeneration Symposium*, "Combination therapies for recovery after spinal cord injury: steroids and growth factors."

2003 Banff, Alberta, Canada, *Symposium on Autonomic Dysfunction after Spinal Cord Injury: Mechanisms, Prevention and Treatment*, "Bowel and sexual dysfunction after spinal cord injury."

2004 Case Western Reserve University, Department of Biomedical Engineering & Cleveland FES Center, Cleveland, OH, "Clinical and experimental approaches to improve function after spinal cord injury."

2005 Marseille, France, *The 4th Congress of the International Society for Autonomic Neuroscience*, "Pathways influencing autonomic reflex dysfunction following spinal cord injury."

2006 Drexel University, College of Medicine, Department of Neurobiology and Anatomy, Philadelphia, PA, "Plasticity of both sensory axons and propriospinal neurons influences the severity of autonomic dysreflexia after complete spinal cord injury."

Invited Seminars – National and International (continued):

2006 Beckman Center, Irvine, CA, *The National Academies Keck's Future Initiative, Smart Prosthetics: Exploring Assistive Devices for the Body and Mind*, "Perspectives on neuroprosthetics from the view of a neuroscientist and user."

2007 University of Louisville, Louisville, KY, *KSCHIRT Symposium*, "Experimental potentials and clinical pitfalls of SCI therapeutics: Perspectives from a neuroscientist with SCI."

2007 Squaw Valley, CA, *No Barriers USA Festival*, "Perspectives on neuroprosthetics from the view of a neuroscientist and user."

2008 University of California, Irvine, CA, *Second annual Reeve-Irvine Medal Symposium (honoring William C. de Groat)*, "Plasticity of lumbosacral propriospinal neurons is associated with the development of autonomic dysreflexia after thoracic spinal cord transection."

2008 Touro University, Henderson, NV, School of Osteopathic Medicine, "Plasticity of both visceral sensory fibers and propriospinal neurons is associated with the development of autonomic dysfunction after spinal cord injury."

Publications: Peer-Reviewed Journals

1. Helke C.J. and Rabchevsky A. (1991) Axotomy alters putative neurotransmitters in visceral sensory neurons of the nodose and petrosal ganglia. Brain Research 551(1-2): 44-51. 8 Jan 1991
2. Ichikawa H., Rabchevsky A. and Helke C.J. (1993) Presence and coexistence of putative neurotransmitters in carotid sinus baro- and chemoreceptor afferent neurons. Brain Research 611(1): 67-74. 8 Dec 1992
3. Rabchevsky A.G. and Streit W.J. (1997) Grafting of cultured microglial cells into the lesioned spinal cord of adult rats enhances neurite outgrowth. Journal of Neuroscience Research 47(1): 34-48. 4 Jul 1996
4. Rabchevsky A.G., Weinitz J.M., Coulpier M., Fages C., Tinel M. and Junier M.P. (1998) A role for transforming growth factor alpha as an inducer of astrogliosis. The Journal of Neuroscience 18(24): 10541-10552. 22 Sept 1998
5. Rabchevsky A.G., Degos J.D. and Dreyfus P.A. (1999) Peripheral injections of Freund's adjuvant in mice provoke leakage of serum proteins through the blood-brain barrier without inducing reactive gliosis. Brain Research 832(1-2): 84-96. 6 April 1999
6. Sullivan P.G., Bruce-Keller A.J., Rabchevsky A.G., Christakos S., St. Clair D.K., Mattson M.P. and Scheff S.W. (1999) Exacerbation of damage and altered NF-kappa B activation in mice lacking tumor necrosis factor receptors after traumatic brain injury. The Journal of Neuroscience 19(15): 6248-6256. 11 May 1999
7. Rabchevsky A.G., Fugaccia I. Fletcher-Turner A., Blades D.A., Mattson M.P. and Scheff S.W. (1999) Basic fibroblast growth factor (bFGF) enhances tissue sparing and functional recovery following moderate spinal cord injury. Journal of Neurotrauma 16(9): 817-830. 6 June 1999
8. Rabchevsky A.G., Fugaccia I. Fletcher-Turner A., Blades D.A., Mattson M.P. and Scheff S.W. (2000) Basic fibroblast growth factor (bFGF) enhances functional recovery following severe spinal cord injury to the rat. Experimental Neurology 164(2): 280-291. 14 March 2000
9. Zhang P., Abraham V.S., Kraft K.R., Rabchevsky A.G., Scheff S.W. and Swain J.A. (2000) Hyperthermic preconditioning protects against spinal cord ischemic injury. Annals of Thoracic Surgery 70(5): 1490-1495. 4 May 2000

Publications: Peer-Reviewed Journals (continued)

10. Sullivan P.G., Rabchevsky A.G., Hicks M.R.R., Gibson T., Fletcher-Turner A. and Scheff S.W. (2000) Dose response curve and optimal dosing regimen of cyclosporin A after traumatic brain injury in rats. Neuroscience 101(2): 289-295. 16 Aug 2000

11. Rabchevsky A.G., Fugaccia I., Sullivan P.G. and Scheff S.W. (2001) Cyclosporin A (CsA) treatment following spinal cord injury to the rat: behavioral effects and stereological assessment of tissue sparing. Journal of Neurotrauma 18(5): 513-22. 3 Nov 2000

12. Rabchevsky A.G., Fugaccia I., Sullivan P.G., Blades D.A. and Scheff S.W. (2002) Efficacy of methylprednisolone therapy for the injured rat spinal cord. Journal of Neuroscience Research 68(1): 7-18. 27 Dec 2001

13. Scheff S.W., Rabchevsky A.G., Fugaccia I., Main J.A. and Lumpp J.E. (2003) Experimental modeling of spinal cord injury: characterization a force-defined injury device. Journal of Neurotrauma 20(2): 179-193. 4 May 2002

14. Rabchevsky A.G., Sullivan P.G., Fugaccia I. and Scheff S.W. (2003) Creatine diet supplement for spinal cord injury in rats: influences on functional recovery and tissue sparing. Journal of Neurotrauma 20(7): 659-669. 1 Dec 2002

15. Hynds D.L., Rangappa N., Ter Beest J., Snow D.M. and Rabchevsky A.G. (2004) Microglia enhance dorsal root ganglion outgrowth in Schwann cell cultures. Glia 46(2): 218-223. 2 Oct 2003

16. Sullivan P.G., Rabchevsky A.G., Keller J.N., Lovell M.A., Sodhi A., Hart R.P. and Scheff S.W. (2004) Intrinsic differences in isolated brain and spinal cord mitochondria: Implication for therapeutic interventions. The Journal of Comparative Neurology 474(4): 524–534. 16 Feb 2004

17. Sullivan P.G., Rabchevsky A.G., Waldmeier P.C. and Springer J.E. (2005) Mitochondrial permeability transition in CNS trauma: Cause or effect of neuronal cell death? Journal of Neuroscience Research 79(1-2): 231-239. 16 Feb 2004

18. Rabchevsky A.G. (2006) Segmental organization of spinal reflexes mediating autonomic dysreflexia after spinal cord injury. Progress in Brain Research 152: Autonomic Dysfunction after Spinal Cord Injury. Weaver L.C. & Polosa C. (eds.), Elsevier B.V. pp. 265-274. 15 Nov 2005

19. Cameron A.A., Smith G.M., Randall D.C., Brown D.R. and Rabchevsky A.G. (2006) Genetic manipulation of intraspinal plasticity after spinal cord injury alters the severity of autonomic dysreflexia. The Journal of Neuroscience 26(11): 2923-2932. 25 Jan 2006

20. Xiong Y., Rabchevsky A.G. and Hall E.D. (2007) Role of peroxynitrite in secondary oxidative damage after spinal cord injury. Journal of Neurochemistry 100(3): 639–649 23 Aug 2006

21. Rabchevsky A.G., Sullivan P.G. and Scheff S.W. (2007) Temporal-spatial dynamics in oligodendrocyte and glial progenitor cell numbers throughout ventrolateral white matter following contusion spinal cord injury. Glia 55(8): 831-843. 28 Feb 2007

22. Sullivan P.G., Krishnamurthy S., Patel S.P., Pandya J.D. and Rabchevsky A.G. (2007) Temporal characterization of mitochondrial bioenergetics after spinal cord injury. Journal of Neurotrauma 24(6): 991-999. 6 Feb 2007

23. Ziemba K.S., Chaudhry N., Rabchevsky A.G., Jin Y. and Smith G.M. (2008) Targeting axon growth from neuronal transplants along preformed guidance pathways within the adult CNS. The Journal of Neuroscience 28(2): 340-348. 27 Nov 2007

Publications: Peer-Reviewed Journals (continued)

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Rabchevsky A.G., Lyttle T.S. and Scheff S.W. (*In Preparation*) Dose-dependent alterations in functional recovery and tissue sparing following intrathecal delivery of fibroblast growth factor-2 (FGF2) near the site of spinal cord injury in rats.

Lyttle T.S., Wallace S.M., Carrico K.M. and Rabchevsky A.G. (*In Preparation*) Improved hind limb locomotor recovery after spinal cord injury with fibroblast growth factor-2 (FGF2) over-expression is correlated with oligodendrocyte repopulation throughout ventrolateral white matter.

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