Curriculum Vitae

ALEXANDER GEORGE RABCHEVSKY, Ph.D.

Department of Physiology Spinal Cord & Brain Injury Research Center (SCoBIRC) The University of Kentucky College of Medicine B471, BBSRB, 741 South Limestone Street, Lexington, KY 40536 Phone (859) 323-0267 FAX (859) 257-5737 Email <u>AGRab@uky.edu</u> Web page <u>https://physiology.med.uky.edu/users/agrab</u> ORCID: <u>https://orcid.org/0000-0002-1991-0915</u>

EDUCATION

1990 - 1995	Ph.D. (Neuroscience), University of Florida, Dept Neuroscience, Gainesville, FL
1983 - 1988	B.S. (Biology), Hampden-Sydney College, Hampden-Sydney, VA

PROFESSIONAL EXPERIENCE AND ACADEMIC APPOINTMENTS

2013 - present	Professor (tenured); Department of Physiology, Endowed Chair #1 in the Spinal Cord & Brain Injury Research Center, University of Kentucky Chandler Medical Center
2007 - 2013	Associate Professor (tenured); Department of Physiology, Spinal Cord & Brain Injury Research Center, University of Kentucky College of Medicine
2002 - 2007	Assistant Professor, Department of Physiology, Spinal Cord & Brain Injury Research Center, University of Kentucky College of Medicine
1999 - 2001	Research Associate, Department of Anatomy & Neurobiology, University of Kentucky College of Medicine
1997 - 1999	Postdoctoral Scholar, Sanders-Brown Center on Aging, University of Kentucky
1995 - 1997	Foreign Postdoctoral Fellow, INSERM Unité 421, University of Paris XII, Creteil, France
1992 - 1995	Graduate Teaching Assistant, Medical & Veterinary Neuroscience, University of Florida College of Medicine, Gainesville, FL
1990 - 1995	Graduate Research Assistant, University of Florida College of Medicine, Gainesville, FL
1988 - 1990	Biological Laboratory Technician, Department of Pharmacology, Uniformed Services University of the Health Sciences, Bethesda, MD

AWARDS AND HONORS

2023 - present	Unite 2 Fight Paralysis, President of Board of Directors, Minneapolis, MN
2022 - present	International Symposium for Neural Regeneration, scientific advisory board member
2023	Visiting Professorship, University of British Columbia, International Collaboration on Repair Discoveries (ICORD), Vancouver, BC
2020	Albert Nelson Marquis Lifetime Achievement Award, Marquis Who's Who
2019	Tom Gravitt Advocacy Award, Kentucky Congress on Spinal Cord Injury, KY
2019	Friend of Year Award, Friends for Michael, Inc. Spinal cord injury organization, KY

2018 - 2022	Unite 2 Fight Paralysis, Board of Directors, Minneapolis, MN
	NextStep Raleigh, Board of Directors, Raleigh, NC
2018 - present	
2018 - 2020	North American Spinal Cord Injury Consortium (NASCIC), Executive Council
2017 - 2023	Independence Place KY, Inc., Chairman, Board of Directors, Lexington, KY
2016 - 2019	National Neurotrauma Society, Council Member
2013	James W. Holsinger Award for Excellence in Teaching, Department of Physiology and the College of Medicine, University of Kentucky
2010 - 2018	No Barriers USA, Board of Directors member, Fort Collins, CO
2008	James W. Holsinger Award for Excellence in Teaching, Department of Physiology and the 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
2004 - 2023	Charles T. Wethington Award, Excellence in Research, University of Kentucky
2004	Appointment to SCoBIRC Endowed Chair #1, University of Kentucky
2004	Provost Retention Award, College of Medicine, University of Kentucky
1999	National Research Service Award, Postdoctoral Fellowship, NIH/NINDS (University of Kentucky), Mechanisms of bFGF effects after spinal cord injury. <u>Declined</u>
1994	Poster Excellence Award, 12 th National Neurotrauma Society Symposium, Miami, FL
1994	Graduate Assistant Teaching Award, Medical Neuroscience, University of Florida, Gainesville, FL
1991 - 1993	Pre-Doctoral Studentship Award, Rick Hansen Man in Motion Legacy Fund, Canada, Dept of Neuroscience, College of Medicine, University of Florida, Gainesville, FL
1988	Graduated semester behind class despite missing entire academic year following accident rendering paraplegia in 1985, Hampden-Sydney College, VA
1988	Presidential Award for Courageousness, Hampden-Sydney College, VA
1987	Fellowship in Molecular Genetics, Biology Department, Emory University, Atlanta, GA
1987	Presidential Award for Leadership and Character, Hampden-Sydney College, VA

RESEARCH INTERESTS

Autonomic pathophysiology after spinal cord injury. Cardiophysiology, molecular genetics, histology

Pharmacotherapeutics to mitigate autonomic dysreflexia after spinal cord injury. Cardiophysiology, genetics

Mitochondrial dysfunction in neuropathology of acute spinal cord and brain injury. Bioenergetics, histopathology

MitoCeuticals as neuroprotective agents. Locomotor behavior, redox biology, molecular biology, histopathology

Alleviation of muscle spasticity after spinal cord injury. Electromyography, pharmacokinetics, histopathology

DOCTORAL DISSERTATION

Intraspinal transplantation of microglia: Studies of host cellular responses and effects on neuritic growth. University of Florida, Dept. Neuroscience, College of Medicine (1995) Thesis Advisor: Paul J. Reier, Ph.D.

PATENTS

Provisional patent application EFS ID: 43936305, Application Number: 63251770 October 4 "Bioerodible life support hydrogels for the delivery of viable mitochondria." (2022)

GRANT SUPPORT

<u>Pending</u>

Title:	Non-invasive spinal cord stimulation to modulate lower urinary tract and bowel function
	following lower thoracic spinal cord injury.
PI:	Krassioukov, A.
Agency:	University of British Columbia, GF Strong Hospital
	ICORD, Department of Medicine, Division of Physical medicine and rehabilitation,
Total:	\$30,000
Role:	Collaborator, Research Partnership (no salary support)

<u>Completed</u>

Title:	Function of ceramide in extracellular vesicle-mediated neurodegenerative disease	
PI:	Bieberich E.	
Agency:	National Institute on Aging (1R01 AG078338)	
Period:	09/01/2022 - 08/31/2025	
Total:	\$2,746,370	
Goal is to inhibit or disrupt this binding by developing novel drugs that antagonize ceramide to delay the onset of or prevent neurodegeneration in AD. Specific Aim 1 characterization and neurotoxicity in neurons (Specific Aim 2) to prevent AD pathology will test improved cognition independent of sex (Specific Aim 3).		
Role:	Co-I, 0.4 calendar months	
Title:	Novel experimental models to study the effect of extracellular vesicles on neurons	
PI:	Bieberich E.	
Agency:	National Institute on Aging (1R21 AG078601)	
Period:	08/17/2022 - 07/31/2024	
Total:	\$420,750	
Goal is to esta	blish novel techniques to determine the in vivo function of astrosomes. We propose to	
establish novel techniques and models for EV functional analysis. We developed mouse models with-		
astrocyte specific nSMase2 deficiency (loss-of-function) models and secretion of fluorescently labeled		
astrosomes (reporter models) in order to understand the significance of endogenous astrosomes for normal		
neuronal function. We will study the function of astrosomes in physiological conditions (e.g., aging).		
n 1		

Role: Co-I, 0.4 calendar months

	Enhanced mitochondrial viability via engineered hydrogels for intrathecal spinal cord delivery Rabchevsky A.G., Patel S.P. National Institute of Health/NINDS (5R01 NS119337) 10/01/2020 - 06/30/2025 \$2,253,674 whether administration of NACA or ALC, in combination with intrathecal injection of le mitochondria embedded in a biochemically active, thermo-gelling erodible hydrogel foster ve efficacy. MPI, 2.4 calendar months
Title: MPI: Agency: Period: Total: Broad-based t Role:	Neurobiology of CNS Injury & Repair Training Grant Alilain, W.J., Gensel J.C., Saatman K.E. National Institutes of Health/NINDS (2T32 NS077889) 07/01/2017 - 06/30/2027 \$208,626 per year rraining in modern research concepts regarding the pathophysiology of neurotrauma. Training Faculty, effort as needed
the effects of of acute MD of	Macrophage depletion therapy for spinal cord injury Gensel J., Alilain W. National Institute of Health/NINDS (5R01 NS116068) 03/01/2021 - 11/30/2025 \$3,122,635 D strategies to modify inflammatory responses after spinal cord after injury. Aim 1: Determine acute MD on myelopoiesis, biodistribution, and toxicity after SCI. Aim 2: Evaluate the effects on recovery of locomotor, sensory, and autonomic function in chronic SCI rats. Aim 3: Ecacy of acute MD on recovery of respiratory motor and forelimb function after cervical SCI. Co-I, 0.9 calendar months
combination v	Mitochondrial transplantation & mitochondrial-targeted pharmaceuticals to treat spinal cord injury Rabchevsky A.G. Department of Defense-CDMRP/SCIRP (W81XWH2010347) 06/01/2020 - 05/31/2023 \$764,927 experiments were designed to test the protective efficacy of mitoceuticals both alone and in with novel mitochondrial transplantation (MitoTxp) into the spinal cord, as well as minimally ural delivery of mitochondria within specialized polymer hydrogels. PI, 2.4 calendar months
Title: PI: Agency: Period: Total: Goal was to in Role:	TBI-induced exosome release accelerates Alzheimer's disease pathology Bieberich E. Veterans Administration Medical Center, Lexington, KY (1 I01 BX003643-01A2) 04/01/19 - 03/31/23 \$942,187 nterrupt TBI-induced exosome secretion to prevent or delay onset of Alzheimer's disease. Co-I, 0.3 calendar months

Title:	Pharmacological inhibition of ceramide production in mitochondria as treatment for
DI	Alzheimer's disease
PI:	Crivelli, S. (Bieberich sponsor)
Agency:	BrightFocus Foundation
Period:	09/01/2020 - 01/31/2023
Total:	\$200,000
	est whether pharmacological inhibition of ceramide production in mitochondria may inform
1	ventions in Alzheimer's disease models.
Role:	Co-I, effort as needed
Title:	Chemogenetic silencing of interneurons to modulate autonomic dysreflexia
PI:	Michael, F.M.
Agency:	Craig H. Neilsen Foundation (Postdoctoral Fellowship #651019)
Period:	06/01/20 - 07/31/2022
Total:	\$150,000
	employ recombinant DREADD viral vectors to target and chemogenetically silence putative
01	opriospinal in the lumbosacral spinal cord to delineate contribution to autonomic dysreflexia.
Role:	Sponsor
Title:	Neurobiology of CNS Injury & Repair Training Grant
MPI:	Hall. E.D., Geddes, J.W.
Period:	07/01/2017 - 06/30/2022
Agency:	National Institutes of Health/NINDS (T32 NS077889)
Total:	\$1,200,467
Broad-based	training in modern research concepts regarding the pathophysiology of neurotrauma.
Role:	Training Faculty, 0.2 calendar months
Title:	Pharmacological induction of mitochondrial biogenesis for the treatment of spinal cord injury
P.I.:	Schnellmann R.
Agency:	Department of Defense (CDMRP/SCIRP; W81XWH1910175)
Period:	10/01/2019 - 05/31/2022
Total:	\$350,000
Goal was to c	letermine whether promoting mitochondrial biogenesis with formoterol post-SCI in male and
female mice p	promotes locomotor recovery, vascular recovery and blood-spinal cord barrier integrity.
Role:	Co-I, 0.24 calendar months
Title:	Chronic muscle weakness in sepsis survivors
PI:	Saito, H.
Agency:	National Institutes of Health-NIGMS (R01 GM126181)
Period:	09/15/2017 - 08/31/2021
Total:	\$1,162,800
	investigated sarcomeric protein damage and causal mechanisms long after recovery from sepsis
-	iving mice, and formulated therapeutics to ameliorate post-sepsis chronic muscle weakness.
Role:	Co-I, 0.2 calendar months
Title:	Pioglitazone fosters neuroprotection via specific interaction with mitoNEET
PI:	Rabchevsky A.G.
Agency:	Craig H. Neilsen Foundation (Senior Investigator Award #476719)
Period:	07/31/2017 - 07/30/2021 NCE

Total: \$599,781

These studies directly tested whether pioglitazone affords neuroprotection following SCI by ameliorating mitochondrial dysfunction via interactions with mitoNEET using a novel transgenic model (mitoNEET null), as well novel specific mitoNEET ligands and antagonists to mechanistically test our hypotheses. Role: PI, 2.0 calendar months

Title:26th Annual Kentucky Spinal Cord and Head Injury Research Trust (KSCHIRT) SymposiumPI:Rabchevsky, A.G.Agency:Craig H Neilsen FoundationPeriod:02/2020 – 09/2020Total:\$10,000 (No Award Number))Goal of Symposium was to expose attendees to recent research directions and advances of internationally-

recognized scientists at the forefront of cell and molecular biology of spinal cord and brain injury research. Role: PI, 0.1 calendar months

Title:	Mitochondrial transplantation strategies to promote recovery after spinal cord injury
PI:	Rabchevsky A.G.
Agency:	National Institutes of Health/NINDS (R21 NS096670)
Period:	04/01/2016 - 04/30/2019 NCE
Total:	\$413,875

This grant comparatively assessed transplantation of mitochondria derived from two cell-type sources (autologous muscle vs cultured cells) in order to provide additional analysis and outcome measures for long-term behavioral studies to generate robust pre-clinical data.

Role: PI, 3.0 calendar months

Title:Changing serotonin receptor 2C splice variants to combat spasticity after spinal cord injuryMPI:Rabchevsky A.G. and Stamm S.

Agency: National Institutes of Health/NINDS (R21 NS098186)

0,	
Period:	04/01/2017 - 03/31/2019

Total: \$413,875

The aims of these studies were to intrathecally inject oligonucleotides, designed by the MPI (Stamm), to inactivate constitutively active 5HT2C receptors in the injured spinal cord thought to underlie tail muscle spasticity in chronic stages of SCI utilizing a complete S2 transection SCI model (Rabchevsky). Role: MPI, 1.0 calendar months

Title:Mitochondrial transplantation and alternative biofuel administration to treat spinal cord injuryPI:Patel S.P.

Agency:	University of Kentucky (Center for Clinical and Translational Science #1013176200)
Period:	08/15/2017 - 02/14/2019 Pilot and Innovation Research Program Award
Total:	\$50,000

Goal was to treat with ALC to promote energy production (ATP) will maintain bioenergetics of both endogenous and transplanted mitochondria to promote greater functional neuroprotection after SCI. Role: Co-I, 1.0 calendar months

Title:	Continuous sensor-based home-cage recordings for SCI research
PI:	Rabchevsky A.G.
Agency:	Craig H. Neilsen Foundation (Senior Investigator Award #T659612 - Subcontract)
Period:	08/31/2016 - 08/30/2018
Total:	\$39,916; \$600,000 (University Kentucky subcontract of Emory University - Hochman S PI)

These studies tested miniaturized sensor technologies that report on an individual's physio-behavioral variables to develop an animal-model prototype – in a home-cage – to test its efficacy in assessing physiologic dysfunction after SCI. Subcontract to calibrate sensors using our telemetry. Role: PI, 1.0 calendar months

1 1	Mitochondria transplantation for functional recovery after spinal cord injury VanRooyen J. National Institutes of Health/NINDS (F31 NS093904) 04/01/2016 - 08/28/2017 \$93,420 was designed to study dose-response transplantation of tGFP mitochondria (culture-derived) cute bioenergetics to inform effective dosage for long-term behavioral improvements. Sponsor
	Autologous mitochondrial replacement strategies to promote recovery after spinal trauma Rabchevsky A.G. Conquer Paralysis Now (Out of the Box Grant award) 09/01/2015 - 08/31/2016 \$49,981 tested whether supplementing healthy mitochondria isolated from exogenous sources into the pinal cord maintains bioenergetics and promotes functional recovery. PI, 3.0 calendar months
	Ketone body administration to treat spinal cord injury Patel S.P. Craig H. Neilsen Foundation (Pilot Research Grant #260771) 07/01/2013 - 06/30/2016 \$298,026 assessed whether ketone body administration post-SCI improves acute mitochondrial d whether prolonged treatment results in chronic tissue sparing and hind limb recovery. Co-I, 1.0 calendar months
	Mitochondrial targeted therapeutics for treatment of spinal cord injury Rabchevsky A.G., Sullivan P.G. 05/01/2013 - 12/31/2015 National Institutes of Health/NINDS (3R01NS069633-03S1) <i>Supplement for MRI imaging</i> \$74,177 IRI imaging we evaluated DTI-based fractional anisotropy in vivo to predict both terminal y and behavioral recovery in the NACA/ALC studies. MPI, 2.0 calendar months
	Mitochondrial targeted therapeutics for treatment of spinal cord injury Rabchevsky A.G., Sullivan P.G. National Institutes of Health/NINDS (R01NS069633) 06/15/2011 - 12/31/2015 \$1,299,376 efficacy ALC and/or NACA on bioenergetics of synaptic and non-synaptic mitochondria to erapeutic time window of ALC/NACA combinatorial administration after acute SCI. MPI, 2.0 calendar months

Title:	Pathophysiology of sensory and sympathetic neurons in SCI-induced autonomic dysreflexia	
PI:	Petruska J.C.	
Agency:	Kentucky Spinal Cord and Head Injury Research Trust (Grant #10-10)	
Period:	01/15/2011 - 01/14/2015	
Total:	\$146,874 (U. Louisville subcontract)	
	s examined the influence of peripheral inflammation on the severity of autonomic dysreflexia in	
	rdiac output as well as the function of both sensory and sympathetically correlated neurons.	
Role:	Co-I, 1.5 calendar months	
Title:	Mitochondrial-targeted neuroprotection following spinal cord injury	
PI:	Rabchevsky A.G.	
Agency:	Craig H. Neilsen Foundation (Pilot Research Grant #190115)	
Period:	09/01/2011 - 08/31/2014	
Total:	\$274,964	
	s evaluated ALC and/or NACA efficacy on bioenergetics of total mitochondria (mixed synaptic	
	ptic) to establish a therapeutic time window of ALC/NACA combinatorial administration after	
2	d whether prolonged ALC treatment results in chronic tissue sparing and hind limb recovery.	
Role:	PI, 3.0 calendar months	
Title:	Effects of acetyl-L-carnitine treatment on mitochondrial function, tissue sparing and hind	
	limb locomotor recovery following contusion spinal cord injury	
PI:	Rabchevsky A.G.	
Agency:	Kentucky Spinal Cord and Head Injury Research Trust (Grant #8-13)	
Period:	01/15/2009 - 01/14/2012	
Total:	\$298,848	
These studies	s evaluated ALC efficacy of bioenergetics on total mitochondria (mixed synaptic and non-	
	stablish a therapeutic time window of ALC administration after acute SCI and whether	
• • •	LC treatment results in increased tissue sparing and hind limb recovery after chronic SCI.	
Role:	PI, 2.0 calendar months	
Title:	Intraspinal plasticity contributing to autonomic dysreflexia following SCI	
PI:	Duale H.	
Agency:	Paralyzed Veterans of America Research Foundation (Fellowship Grant # 2561)	
Period:	01/01/2008 - 12/31/2009	
Total:	\$98,820	
	virus (PRV) expressing either PRV-GFP or PRV-RFP was injected into the left kidney and	
	wo weeks after thoracic (T4) transection. Dual labelled lumbosacral propriospinal neurons (GFP	
	quantified using stereology to assess dynamic synaptic remodeling after SCI.	
Role:	Sponsor	
Title:	Therapeutic Strategies for Neurodegeneration Training Grant	
P.I.	Hall E.D.	
Agency:	National Institutes of Health/NIDA (1T32 DA022738)	
Period:	02/01/2006 - 1/31/2011	
Total Direct:		
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		
1 /	which the effects of these conditions can be ameliorated.	
Role	Training Faculty 0.2 calendar months	

Role: Training Faculty, 0.2 calendar months

Agency: National Institutes of Health/NINDS (2P30 NS051220-07) Period: 05/01/2005 - 12/31/2015 Total: \$3,441,126 The Core D was designed to maintain a state-of-the-art microscopy and imaging analysis core. Role: Assistant Director, 1.5 calendar months Title: Role of intraspinal plasticity in autonomic dysreflexia Pl: Rabchevsky A.G. Agency: National Institutes of Health/NINDS R01 (NS049901) Period: 08/02/2004 - 4/30/2011 Total: \$1,841,250 This study employed viral-mediated gene therapy in conjunction with retrograde and anterograde tracing to characterize visceral afferents and lumbosacral relay neurons after SCI which become hyperactive upon noxious stimulation below the SCI level, leading to autonomic dysreflexia. Role: Pl, 3.0 calendar months Title: Transplantation of glial progenitor cells from human embryonic stem cells into injured rat spinal cord Priod: 01/31/2004 - 00/30/2005 Total: \$99,730 Differentiated human GPCs from purified human ESCs were transplanted near the injury site in attempts to improve recovery of hind limb locomotion following contusion SC1 in adult rats. Role: Pl, 4.0 calendar months Title: Influence of neurotrophins on intraspinal plasticity modulating autonomic dysr	Title: PI:	University of Kentucky Spinal Cord & Brain Injury Research Center Core Grant Hall E.D.	
Total: \$3,441,126 The Core D was designed to maintain a state-of-the-art microscopy and imaging analysis core. Role: Role: Assistant Director, 1.5 calendar months Title: Role of intraspinal plasticity in autonomic dysreflexia Pl: Rabchevsky A.G. Agency: National Institutes of Health/NINDS R01 (NS049901) Period: 08/02/2004 - 4/30/2011 Total: \$1,841,250 This study employed viral-mediated gene therapy in conjunction with retrograde and anterograde tracing to characterize visceral afferents and lumboascaral relay neurons after SCI which become hyperactive upon noxious stimulation below the SCI level, leading to autonomic dysreflexia. Role: PI, 3.0 calendar months Title: Transplantation of glial progenitor cells from human embryonic stem cells into injured rat spinal cord PI: Rabchevsky A.G. Agency: Geron Corporation, Menlo Park, CA (Contract) Period: 01/31/2004 - 09/30/2005 Total: \$99,730 Differentiated human GPCs from purified human ESCs were transplanted near the injury site in attempts to improve recovery of hind limb locomotion following contusion SCI in adult rats. Role: PI, 4.0 calendar months Title: Influence of neurotrophins on intraspinal plasticity modulating autonomic dys	Agency:	National Institutes of Health/NINDS (2P30 NS051220-07)	
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Role: Assistant Director, 1.5 calendar months Title: Role of intraspinal plasticity in autonomic dysreflexia PI: Rabchevsky A.G. Agency: National Institutes of Health/NINDS R01 (NS049901) Period: 08/02/2004 - 4/30/2011 Total: \$1,841,250 This study employed viral-mediated gene therapy in conjunction with retrograde and anterograde tracing to characterize visceral afferents and lumbosacral relay neurons after SCI which become hyperactive upon noxious stimulation below the SCI level, leading to autonomic dysreflexia. Role: PI, 3.0 calendar months Title: Transplantation of glial progenitor cells from human embryonic stem cells into injured rat spinal cord PI: Rabchevsky A.G. Agency: Geron Corporation, Menlo Park, CA (Contract) Period: 01/31/2004 - 09/30/2005 Total: \$99,730 Differentiated human GPCs from purified human ESCs were transplanted near the injury site in attempts to improve recovery of hind limb locomotion following contusion SCI in adult rats. Role: PI, 4.0 calendar months Title: Influence of neurotrophins on intraspinal plasticity modulating autonomic dysreflexia PI: Rabchevsky A.G. Agency: Kentucky Spinal Cord and Head Injury Research Trust (Grant #3-11)			
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This study employed viral-mediated gene therapy in conjunction with retrograde and anterograde tracing to characterize visceral afferents and lumbosactal relay neurons after SCI which become hyperactive upon noxious stimulation below the SCI level, leading to autonomic dysreflexia. Role: PI, 3.0 calendar months Title: Transplantation of glial progenitor cells from human embryonic stem cells into injured rat spinal cord PE: Rabchevsky A.G. Agency: Geron Corporation, Menlo Park, CA (Contract) Period: 01/31/2004 - 09/30/2005 Total: \$99,730 Differentiated human GPCs from purified human ESCs were transplanted near the injury site in attempts to improve recovery of hind limb locomotion following contusion SCI in adult rats. Role: PI, 4.0 calendar months Title: Influence of neurotrophins on intraspinal plasticity modulating autonomic dysreflexia PI: Rabchevsky A.G. Agency: Kentucky Spinal Cord and Head Injury Research Trust (Grant #3-11) Period: 01/15/2004 - 10/14/2007 Total: \$297,000 Used recombinant adenoviruses (Adts) to over-express control GFP, NGF or Semaphorin 3a in the dorsal horns to modulate post-traumatic intraspinal sprouting to mitigate hypertensive autonomic dysreflexia. Role: PI 3.0 calendar months Title: Growth factor-mediated gene			
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Title:Gene therapy to improve remyelination and function after spinal cord injuryPI:Rabchevsky A.G.	Title: PI:	Gene therapy to improve remyelination and function after spinal cord injury Rabchevsky A.G.	

	University of Kentucky (Medical Center Research Foundation Grant #1051) 07/15/2003 - 06/30/2003 \$13,500 er-expressed using adenovirus and we examined the behavioral and histological effects of wth factor expression at the injury site or at more distal locations. PI, 5.0 calendar months
Semaphorin 3	Mechanisms of autonomic dysreflexia following spinal cord injury Rabchevsky A.G. International Spinal Research Trust, UK (Grant #STR063) 07/12/2002 - 06/11/2005 \$213,705 ogenous cells in the T-4 transected rat spinal cord using adenoviral vectors for NGF and a to abolish central sprouting of pain fibers below the level of SCI, which we ccorrelated with f autonomic dysreflexia as measured by increased blood pressure following colon distention. PI, 3.0 calendar months
	Combinational therapies for recovery after spinal cord injury: steroids and growth factors Rabchevsky A.G. (01/12/2000 - 01/13/2003) Kentucky Spinal Cord and Head Injury Research Trust (Grant #9-17) \$299,247 tested the hypothesis that the combination of i.v. methylprednisolone treatment with GF infusion after contusion SCI will act synergistically to further enhance recovery. PI, 5.0 calendar months

PEER REVIEW ACTIVITIES

<u> Journal Editor</u>

2023-present	OBM Neurobiology, Editorial Board, Professor Bart Ellenbroek, Editor-in-Chief	
2022-present	Frontiers in Physiology, section Integrative Physiology, Associate Editor	
2014-present	Public Library of Science (PLOS) One, Editorial Board member	
2012-13	Frontiers in Integrative Physiology: Guest Editor of Special Topic Series	
	Plasticity of primary afferent neurons and sensory processing after spinal cord injury	
	http://www.frontiersin.org/Journal/SpecialTopicDetail.aspx?name=integrative_physiology&st=571&sname=Plasticity_of_primary_afferen	
	<u>t&x=y</u>	
2011-2021	Frontiers in Physiology, section Integrative Physiology, Review Editor	

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Dr. Rabchevsky has a calculated h-index of **41** (Web of Science, 03/2024). URL publication list: <u>https://pubmed.ncbi.nlm.nih.gov/?term=Rabchevsky</u>

h-Index=46/i10-Index=66; 7,481/5,083 citations (Google Scholar/Web of Science-Thomas Reuters) Mean RCR=2.30 Icite <u>https://icite.od.nih.gov</u>

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- Nielson J.L., Guandique C.F., Liu A.W., Muraru V., Burke D.A., Lash A.T., Kline R.H. IV, Moseanko R., Hawbecker S., Strand S.C., Zdunowski S., Irvine K.A., Brock J.H., Rosenzweig E.S., Nout Y.S., Gensel J.C., Anderson K.D., Magnuson D.S.K., Whittemore S.R., McTigue D.M., Popovich P.G., Rabchevsky A.G., Steward O., Courtine G., Edgerton V.R., Tuszynski M.H., Beattie M.S., Bresnahan J.C. and Ferguson A.R. (2014) Development of a database for translational spinal cord injury research. *Journal of Neurotrauma* 31: 1789-1799 Epub 2014 July 31 PMID: 25077610, PMCID: PMC4186058

- 37. #Patel S.P.*, Sullivan P.G.*, Pandy J.D., Goldstein G.A., VanRooyen J.L., Yonutas H.M., Eldahan K.C., Morehouse J., Magnuson D.S.K. and **Rabchevsky A.G.** (2014) N-acetylcysteine amide preserves mitochondrial bioenergetics and improves functional recovery following spinal trauma. *Experimental Neurology* 257: 95-105. Epub 2014 May 5 PMID: 24805071, PMCID: PMC4114148 #Featured in editorial (Semple B.D. Exp Neurol 261: 291-97) *authors contributed equally
- #Pandya J.D., Readnower R.D., Patel S.P., Yonutas H.M., Pauly J.R., Goldstein G.A., Rabchevsky A.G. and Sullivan P.G. (2014) N-acetylcysteine amide confers neuroprotection, improves bioenergetics and behavioral outcome following TBI. *Experimental Neurology* 257: 106-113 Epub 2014 May 1 PMID: 24792639, PMCID: PMC4086163 #Featured in editorial (Semple B.D. Exp Neurol 261: 291-97)
- Patel S.P.*, Smith T.D.*, VanRooyen J.L., Powell D., Cox D.H., Sullivan P.G. and Rabchevsky A.G. (2016) Serial diffusion tensor imaging in vivo predicts long-term functional recovery and histopathology in rats following different severities of spinal cord injury. *Journal of Neurotrauma* 33:917-928 Epub 2015 Dec 9 PMID: 26650623, PMCID: PMC4876527 *authors contributed equally
- Visavadiya N.P.*, Patel S.P.*, VanRooyen J.L., Sullivan P.G. and Rabchevsky A.G. (2016) Cellular and subcellular oxidative stress parameters following severe spinal cord injury. *Redox Biology* 8: 59-67. Epub 2015 Dec 30 PMID: 26760911, PMCID: PMC4712315 *authors contributed equally
- 41. Rau K.K., Hill C.E., Harrison B.J., Venkat G., Koenig H.M., Cook S.B, Rabchevsky A.G., Taylor B.K., Hai T. and Petruska J.C. (2016) Cutaneous tissue damage induces long-lasting nociceptive sensitization and regulation of cellular stress- and nerve injury-associated genes in sensory neurons. *Experimental Neurology* S0014-4886(16)30159-5. Epub 2016 June 2 PMID: 27264359, PMCID: PMC4992590
- Zhang Z., Shen M., Gresch P., Ghamari-Langroudi M., Rabchevsky A.G., Emeson R. and Stamm S. (2016) Oligonucleotide-induced alternative splicing of serotonin 2C receptor reduces food intake. *EMBO Molecular Medicine* 8(8): 878-894. Epub 2016 June 9 PMID: 27406820, PMCID: PMC4967942
- 43. Patel S.P.*, Cox D.H.*, Gollihue J.L., Bailey W.M., Geldenhuys W.J., Gensel J.C., Sullivan P.G. and Rabchevsky A.G. (2017) Pioglitazone treatment following spinal cord injury maintains acute mitochondrial integrity and increases chronic tissue sparing and functional recovery. *Experimental Neurology* 293 74-82. Epub 2017 March 30 PMID: 28365473, PMCID: PMC5473659 *authors contributed equally
- 44. Gollihue J.L., Patel S.P., Mashburn C., Eldahan K.C., Sullivan P.G. and Rabchevsky A.G. (2017) Optimization of mitochondrial isolation techniques for intraspinal transplantation procedures. *Journal of Neuroscience Methods* 287: 1-12. Epub 2017 May 26 PMID: 28554833, PMCID: PMC5533517
- Eldahan K.C., Cox DH, Gollihue, J.L., Patel S.P. and Rabchevsky A.G. (2017) Rapamycin exacerbates cardiovascular dysfunction after complete high-thoracic spinal cord injury. *Journal of Neurotrauma* 35:842-853. Epub 2017 Dec 15 PMID: 29205090, PMCID: PMC5863090
- 46. Gollihue J.L., Patel S.P., Mashburn C., Eldahan K.C., Cox D.H., Donahue R.R., Taylor B.K., Sullivan P.G. and Rabchevsky A.G. (2018) Effects of mitochondrial transplantation on bioenergetics, cellular incorporation and functional recovery after spinal cord injury. *Journal of Neurotrauma* 35:842-853. Epub 2017 Dec 15 PMID: 29205090, PMCID: PMC6053898
- 47. Scholpa N.E., Williams H., Wang W., Corum D., Narang A., Tomlinson S., Sullivan P.G., Rabchevsky A.G. and Schnellmann R.G. (2019) Pharmacological stimulation of mitochondrial biogenesis using the FDA-approved β2-adrenoreceptor agonist formoterol for the treatment of spinal cord injury. *Journal of Neurotrauma* 36:962-972. Epub 2018 Nov 16 PMID: 30280980, PMCID: PMC6484358
- 48. Owen A.M., Patel S.P., Smith J.D., Belasuriya B.K., Mori S.F, Hawk G.S., Stromberg A.J., Kuriyama N., Kaneki M., **Rabchevsky A.G.**, Butterfield T.A., Esser K.A., Peterson C.A., Starr M.E. and Saito H.

(2019) Chronic muscle weakness and mitochondrial dysfunction in the absence of sustained atrophy in a preclinical sepsis model. *eLife* v. 8, e49920, p. 1-25. Epub 2019 Oct 19 DOI: 10.7554/eLife.49920 PMID: 31793435, PMCID: PMC6890461

- Eldahan K.C., Williams H.C., Cox D.H., Gollihue J.L., Patel S.P. and Rabchevsky A.G. (2020) Paradoxical effects of continuous high dose gabapentin treatment on autonomic dysreflexia after complete spinal cord injury. *Experimental Neurology* 209: 59-70. Epub 2019 Oct 31 PMID: 31678138, PMCID: PMC9204647
- Hart S.H., Patel S.P., Michael F.M., Stoilov P., Leow C.J., Hernandez A., Jolly A., de la Grange P., Rabchevsky A.G., Stamm S. (2022) Rat spinal cord injury associated with spasticity leads to widespread changes in the regulation of retained introns. *Neurotrauma Reports* 3(1): 105-121. Epub 2022 Mar 4 DOI: 10.1089/neur.2021.0042 PMCID: PMC8985541
- 51. Patel S.P., Michael F.M., Khan M.A., Duggan B., Wyse S., Darby D., Chaudhuri K., Pham J., Gollihue J., DeRouchey J.E., Sullivan P.G., Dziubla T.D. and **Rabchevsky A.G.** (2022) Erodible thermogelling hydrogels for localized mitochondrial transplantation to the spinal cord. *Mitochondrion* 64: 145–155. Epub 2022 April 6 https://doi.org/10.1016/j.mito.2022.04.002 PMCID: PMC9154311
- 52. Velmurugan G.V., Hubbard W.B., Prajapati P., Vekaria H.J., Patel S.P., **Rabchevsky A.G.** and Sullivan P.G. (2023) LRP1 deficiency promotes mitostasis in response to oxidative stress: Implications for mitochondrial targeting after traumatic brain injury. *Cells* 12, 1445. https://doi.org/10.3390/cells12101445
- 53. Michael F.M., Patel S.P., Bachstetter A.D. and **Rabchevsky A.G.** (2023) Proinflammatory and immunomodulatory gene and protein expression patterns in spinal cord and spleen following acute and chronic high thoracic injury. *Journal of Inflammation Research* 16: 3341–3349 PMID: 37576153, PMCID: PMC10423003
- 54. Warner F.M., Tong B., McDougall J., Ginis K.M., Rabchevsky A.G., Cragg J.J., Kramer J.L.K. (2023) Perspectives on data sharing in persons with spinal cord injury *Neurotrauma Reports* 9;4(1):781-789. DOI: 10.1089/neur.2023.0035 PMID: 38028277, PMCID: PMC10659015
- 55. Malik Raza N., Samejima S., Shackleton C., Miller T., Pedrocchi A.L.G., Rabchevsky A.G., Moritz C.T., Darrow D., Field-Fote E.C., Guanziroli E., Ambrosini E., Molteni F., Gad P., Mushahwar V. K., Sachdeva R. and Krassioukov A.V. (2024) REPORT-SCS: Minimum reporting standards for spinal cord stimulation studies in spinal cord injury. *J. Neural Engineering* 2024 Feb 7;21(1) DOI 10.1088/1741-2552/ad2290 PMID: 38271712

INVITED REVIEWS AND BOOK CHAPTERS (peer-reviewed)

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- 2. **Rabchevsky A.G.** and Streit W.J. (1998) Role of microglia in postinjury repair and regeneration of the CNS. *Mental Retardation and Developmental Disabilities Research Reviews*, 4: 187-192.
- 3. **Rabchevsky A.G.** and Smith G.M. (2001) Therapeutic interventions following mammalian spinal cord injury. *Archives of Neurology*, 58: 721-726. Epub 2001 May 18 PMID: 11346366
- 4. **Rabchevsky A.G.** (2002) Influences of activated microglia/brain macrophages on spinal cord injury and regeneration. In: *Microglia in the regenerating and degenerating central nervous system*. Streit W.J. (Ed.), Springer-Verlag: New York. pp. 209-226.
- 5. Rabchevsky A.G. (2004) SCI My path to scientific discovery. In: From there to here: Stories of adjustment to

spinal cord injury. Karp G. & Klein S. (Eds.), No Limits Communications. pp. 76-81.

- 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. Epub 2004 Dec 2 PMID: 15573402
- 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. Epub 2005 Oct 4 PMID: 16198706, PMCID: PMC3529572
- 8. Onifer S.M., **Rabchevsky A.G.** and Scheff S.W. (2007) Rat models of traumatic spinal cord injury to assess motor recovery. *Institute for Laboratory Animal Research Journal* 48(4): 385-395. Epub 2007 Aug 23 DOI: 10.1093/ilar.48.4.385 PMID: 17712224
- Rabchevsky A.G. and Kitzman P.H. (2011) Latest approaches for the treatment of spasticity and autonomic dysreflexia in chronic spinal cord injury. *Neurotherapeutics* 8(2):274-82. Epub 2011 Mar 9 PMID: 21384222, PMCID: PMC3101828
- McEwen M.L., Sullivan P.G., Rabchevsky A.G. and Springer, J.E. (2011) Targeting mitochondrial function for the treatment of acute spinal cord injury. *Neurotherapeutics* 8(2): 168-179. Epub 2011 Mar 2 PMID: 21360236, PMCID: PMC3101832
- Rabchevsky A.G., Patel S.P. and Springer J.E. (2011) Pharmacological interventions for spinal cord injury: Where do we stand? How might we step forward? *Pharmacology & Therapeutics* 132(1):15-29. Epub 2011 May 25 PMID: 21605594 DOI: 10.1016/j.pharmthera.2011.05.001
- Petruska J.C., Hubscher C.H. and Rabchevsky A.G. (2013) Challenges and opportunities of sensory plasticity after SCI. *Frontiers in Physiology* 4: 231-234. Epub 2013 Aug 30 PMID: 23986722, PMCID: PMC3753431
- 13. Hou S.P. and **Rabchevsky A.G.** (2014) Autonomic consequences of spinal cord injury. *Comprehensive Physiology* 4: 1419-1453. Epub 2014 Oct 8 PMID: 25428850 DOI: 10.1002/cphy.c130045
- Kwon B.K., Streijger F., Hill C.E., Anderson A.J., Bacon M., Beattie M.S., Blesch A., Bradbury E.J., Brown A., Bresnahan J.C., Case C.C., Colburn R.W., David S., Fawcett J.W., Ferguson A.R., Fischer I., Floyd C.L., Gensel J.C., Houle J.D., Jakeman L.B., Jeffery N.D., Jones L.A., Kleitman N., Kocsis J., Lu P., Magnuson D.S., Marsala M., Moore S.W., Mothe A.J., Oudega M., Plant G.W., **Rabchevsky A.S.**, Schwab J.M., Silver J., Steward O., Xu X.M., Guest J.D., Tetzlaff W. (2015) Large animal and primate models of spinal cord injury for the testing of novel therapies. *Experimental Neurology* 269:154-168. Epub 2015 April 19 DOI: 10.1016/j.expneurol.2015.04.008 PMID: 25902036
- 15. Gollihue J.L. and **Rabchevsky A.G.** (2017) Prospects for therapeutic mitochondrial transplantation. Mitochondrion 35: 70-79 Epub 2017 May 19 PMID: 28533168, PMCID: PMC5518605
- Stamm S., Gruber S.B., Rabchevsky A.G. and Emeson R.B. (2017) The activity of the serotonin receptor 2C is regulated by alternative splicing. *Human Genetics* 136(9):1079-1091. Epub 2017 June 29 PMID: 28664341 PMCID: PMC5873585
- Rabchevsky A.G., Patel S.P. and Sullivan P.G. (2017) Targeting mitoNEET with pioglitazone for therapeutic neuroprotection after spinal cord injury. *Neural Regeneration Research* 12(11): 1807-1808. Epub 2017 Oct 19 PMID: 29239323 PMCID: PMC5745831
- Gollihue J.L., Patel S.P. and Rabchevsky A.G. (2018) Mitochondrial transplantation strategies as potential therapeutics for central nervous system trauma. *Neural Regeneration Research* 13(2):194-197. Epub 2017 Dec 7 PMID: 29557359, PMCID: PMC5879881

- Eldahan K.C. and Rabchevsky A.G. (2018) Autonomic dysreflexia after spinal cord injury: Systemic pathophysiology and methods of management. Special Issue "Spinal cord injury (SCI) and the autonomic nervous system," Autonomic Neuroscience: Basic and Clinical, 209: 59-70. Epub 2017 May 8 PMID: 28506502, PMID: PMC5677594
- 20. Patel S.P. and **Rabchevsky A.G.** (2019) Application of the Infinity Horizon spinal cord contusion injury model._*Animal Models of Acute Neurological Injuries, 2nd edition,* Humana Press; Chen J., Xu Z.C., Xu X.-M. and Zhang J.H. (Eds.) pp. 1-7.
- Michael F.M., Patel S.P. and Rabchevsky A.G. (2019) Intraspinal plasticity associated with development of autonomic dysreflexia after complete spinal cord injury. *Frontiers in Cellular Neuroscience* 13: 505-115. Epub 2019 Nov 8 PMID: 31780900, PMCID: PMC6856770
- 22. Fouad K., Bixby J.L., Callahan A., Grethe J.S., Jakeman L.B., Lemmon V.P., Magnuson D.S.K., Martone M.E., Nielson J.L., Schwab J.M., Taylor-Burds C., Tetzlaff W., Torres-Espin A., Ferguson A.R.; FAIR-SCI Ahead Workshop Participants (2020) FAIR SCI Ahead: The Evolution of the Open Data Commons for Pre-Clinical Spinal Cord Injury Research. *Journal of Neurotrauma* 37: 831-838. Epub 2019 Dec 6 PMID: 31608767 PMCID: PMC7071068
- Rabchevsky A.G., Michael, F.M. and Patel S.P. (2020) Mitochondria focused neurotherapeutics for spinal cord injury. Special Issue "Mitochondria and Neurodegenerative Diseases," *Experimental Neurology* 1-9. Epub 2020 Apr 27 PMID: 32353464 PMCID: PMC9164988
- 24. Bourbeau D., Bolon A., Chernesky J., Creasey G., Fertig B., French J., Jeji T., Kaiser A., Kouznetsov R., Rabchevsky A.G., Gallo Santacruz, B., Sun J., Thor K.B., Wheeler T., Wierbicky J. (2020) Needs, priorities, and attitudes of individuals with spinal cord injury toward nerve stimulation devices for bladder and bowel function. *Spinal Cord* 1-11. Epub 2020 Sept 7 PMID: 32895475 PMCID: PMC7642195
- Morse L.R., Field-Fote E.C., Contreras-Vidal J., Noble-Haeusslein L.J., Rodreick M., SCI 2020 Working Group, Shields R.K., Sofroniew M., Wudlick R. and Zanca J.M. (2021) Meeting proceedings for SCI 2020: Launching a decade of disruption in spinal cord injury research. *Journal of Neurotrauma* 38(9):1251-1266. Epub 2021 Feb 3 DOI: 10.1089/neu.2020.7174 PMID: 33353467
- Michael F.M. and Rabchevsky A.G. (2023) Spinal interneurons and autonomic dysreflexia after injury. In: *Spinal Interneurons: Plasticity after spinal cord injury*. Zholudeva L. and Lane M. (Eds.), Elsevier, Chapter 11, pp 297-310. https://doi.org/10.1016/B978-0-12-819260-3.00001-9
- Patel S.P., Michael F.M., Gollihue J.L., Hubbard W.B., Sullivan P.G. and Rabchevsky A.G. (2023) Delivery of mitoceuticals or respiratory competent mitochondria to sites of neurotrauma. *Mitochondrion* 68: 10-14. Epub 2022 Nov 9 PMID: 36371072 PMCID: PMC9805511

MANUSCRIPTS/CHAPTERS (Submitted or In Preparation)

Ahmed A.J., Gallegos Z.A., Dinar A.M., Sullivan P.G., DeRouchey J.E., Patel S.P., **Rabchevsky A.G.** and Dziubla T.D. (*Submitted*) Physiochemical characterization of hyaluronic acid-methylcellulose hydrogels for mitochondrial transplantation. *Regenerative Biomaterials*

Martín Calderón-Juárez, Soshi Samejima, Raul Sachdeva, **Alexander Rabchevsky**, Andrei V. Krassioukov (*Submitted*) <u>Rebuttal</u> of "Transcutaneous spinal cord stimulation and its impact on cardiovascular autonomic regulation after spinal cord injury," *American Journal of Physiology: Heart & Circulatory Physiology 326: H116–H122, 2024*

Jon Brestoff, Katia Aquilano, Daniel Lettieri Barbato, Lance Becker, Michael Berridge, Eric Boilard, Andres Caicedo, Patricia Luz Crawford, Claire Crewe, Jose Antonio Enriquez, Kazuhide Hayakawa, Jiri Neuzil, Jim McCully, Alexander Sercel, **Rabchevsky A.G.**, Anne-Marie Rodriguez, Toshi Suda, Alain Thierry, Keshav Singh (*In Preparation*) Recommendations for mitochondria transfer and transplantation nomenclature and characterization standards. *Nature Metabolism*

Patel S.P., Michael F.M., Khan M.A., Tharappel J., Vaught H.M., Sullivan P.G., DeRouchey J.E., Dziubla T.D. and **Rabchevsky A.G.** (*In Preparation*) Targeting efficiency of exogenous mitochondrial transplantation into the injured spinal cord via engineered erodible hydrogels.

Jessica L. Nielson, David W. McMillan, Evan C. Lewis, Dominik Zbogar, Ricardo Battaglino, Alexander Rabchevsky, Robert Wudlick, Tegan M. Carr (*In Preparation*) Muscle spasms and pain reduction in people with spinal cord injury who use psilocybin – results from an anonymous online survey study.

PRESS/MEDIA RELEASES/PUBLIC PRESENTATIONS

03/2023	The Ups and Downs of a Visiting Professor at University of British Columbia The ICORDian Spring 2023 https://icord.org/the-icordian-spring-2023/#DrRabchevsky
01/2020	Albert Nelson Marquis Lifetime Achievement Award, Marquis Who's Who United Press http://www.24-7pressrelease.com/press-release-service/470075
11/2016	Getchell Memorial Award Honors Graduate Scientist's Persistence in Seeking National Funding UK Now, University of Kentucky News <u>http://uknow.uky.edu/research/getchell-memorial-award-honors-graduate%E2%80%99s-persistence-seeking-national-funding</u>
06/2016	Mentoring a Key Factor in Spinal Cord Researcher's Success UK Now, University of Kentucky http://uknow.uky.edu/content/mentoring-key-factor-spinal-cord-researchers-success
02/2016	Motivated by Personal Experience, Scientist Seeks Answers About Spinal Cord Injury UK Now, University of Kentucky http://uknow.uky.edu/content/motivated-personal-experience-scientist-seeks-answers-about- spinal-cord-injury; https://youtu.be/938-NOmZkso Spinal Cord Injury Zone, http://www.spinalcordinjuryzone.com/videos/16181/motivated-by-personal-experience-scientist-seeks- answers-about-spinal-cord-injury
11/2015	Extraordinary Medicine Episode (12) on SCI/TBI Documentary of Drs. Rabchevsky & Sullivan's work on mitochondria-targeted interventions for SCI & TBI. FBR licensed series to Discovery Network, Australia and Latin America, Liz Hodge, Director/Producer, FBR Media
10/2015	Two University of Kentucky Researchers Awarded Grants from Conquer Paralysis Now UK Now, University of Kentucky News <u>http://uknow.uky.edu/content/two-university-kentucky-researchers-awarded-grants-conquer-paralysis-now</u>
08/2013	Acetyl-L-Carnitine <i>PN/Paraplegia News Magazine</i> <u>http://pvamag.com/pn/article/5680/acetyllcarnitine;</u> http://www.healingtherapies.info/Acetyl-L-Carnitine.htm
	The Lane Report http://www.lanereport.com/56323/2015/10/two-uk-researchers-awarded-grants-from-conquer-paralysis-

- 10/2012J. Allyn Taylor International Prize in Medicine Symposium 2012Western University, Ontario, Canada https://youtu.be/nQL1Px54UY
- 09/2011 Commonly Used Supplement May Improve Recovery from Spinal Cord Injuries UK Now, University of Kentucky <u>http://uknow.uky.edu/content/commonly-used-supplement-may-improve-recovery-spinal-cord-injuries</u> Science Daily, <u>http://www.sciencedaily.com/releases/2011/09/110928185025.htm</u>

TEACHING EXPERIENCE at UNIVERSITY OF KENTUCKY

Course Lecturer

2022	Neuroscience Seminar-BIO 426, Spinal cord injury: Pathophysiology and therapeutics.
2018	Neuroscience Seminar-BIO 426, Spinal cord injury: Pathophysiology and therapeutics.
2015	Graduate Gerontology Program-GRN 650, Research methods and design.
2015	Undergraduate Honors Program-HON 301, Where are all the women?
2010 - 2018	Elementary Physiology-PGY 206, Endocrinology.
2009 - 2023	Physical Therapy-PT 827, Pathophysiology of spasticity and autonomic dysreflexia after spinal cord injury <u>and</u> Spinal cord injury & functional electrical stimulation.
2009 - 2023	Neurobiology of CNS Injury & Repair-ANA 605 & PGY 605, Spinal cord injury models <u>and</u> Intraspinal plasticity associated with autonomic dysreflexia after SCI <u>and</u> Post-traumatic demyelination & remyelination.
2008	Physical Therapy-PT 827, Plasticity of both visceral sensory fibers and propriospinal neurons is associated with the development of autonomic dysfunction after spinal cord injury.
2007	CNS Injury and Repair, Special Topics Course-ANA 780 & PGY 630, Spinal cord injury models <u>and</u> Autonomic dysreflexia after spinal cord injury <u>and</u> Post-traumatic demyelination & remyelination.
2006 - 2008	Dental Human Function-OBI 814, Neurophysiology.
2005	Principles of Neurobiology-ANA 605, Spinal cord injury models <u>and</u> Autonomic dysreflexia after spinal cord injury.
2005	Medical Neuroscience-MD 817, Spinal cord injury & functional electrical stimulation.
2004	Advanced Pharmacology-PHA 658, Modern viral approaches.
2004	Medical Neuroscience-MD 817, Spinal cord injury: Dysfunctions & therapeutic approaches.
2003	Medical Neuroscience-MD 817, Spinal cord injury: Clinical treatment from lab bench to clinical trials.
2003 - 2009	Principles of Human Physiology-PGY 412G, Neurophysiology.
2002	Medical Neuroscience-MD 817, Therapeutic interventions following spinal cord injury: Defining targets of experimental treatments.
2002	Physical Therapy-PT 827, A surgically implanted Functional Electrical System for standing and walking.

TEACHING EXPERIENCE at OTHER NATIONAL INSTITUTES

Invited Lecturer

2016	Miami Project to Cure Paralysis, University of Miami, Miller School of Medicine, Miami, FL, <i>Autonomic dysreflexia following spinal cord injury</i> . (teleconference with Dr. Vance Lemmon)	
2009 - 2013	Spinal Cord Injury Research Training Program, The NIH and The Ohio State University, Center for Brain and Spinal Repair, <i>Modulating the pathophysiology of autonomic dysreflexia after spinal cord injury</i> .	
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.	
2006 - 2007	Neurobiology-Bio S315, University of North Carolina, Pembroke, Department of Biology, <i>Spinal cord injury: dysfunctions, clinical treatments, experimental models & therapeutics</i> . (Teleconference with Dr. Robert Poage)	
2006 - 2007	The Reeve-Irvine Research Center, Spinal Cord Injury Techniques Course, University of California at Irvine, Department of Anatomy & Neurobiology, <i>Plasticity of both sensory axons and propriospinal neurons influences the severity of autonomic dysreflexia after complete spinal cord injury,</i> and Basic fibroblast growth factor (FGF-2) therapy for recovery of motor function.	
2004	The Reeve-Irvine Research Center, Spinal Cord Injury Techniques Course, University of California at Irvine, Department of Anatomy & Neurobiology, <i>Dysfunction after spinal cord injury: Clinical and experimental therapeutics</i> .	
2003	The Reeve-Irvine Research Center, Spinal Cord Injury Techniques Course, University of California at Irvine, Department of Anatomy & Neurobiology, Gene therapy for spinal cord dysfunction; A surgically implanted neuroprosthesis for exercise, standing and transfers after spinal cord injury.	
2002	The Reeve-Irvine Research Center, Spinal Cord Injury Techniques Course, University of California at Irvine, Department of Anatomy & Neurobiology, <i>Therapeutic interventions following spinal cord injury: clinical treatment to lab bench to clinical trials.</i>	
2001	The Reeve-Irvine Research Center, Spinal Cord Injury Techniques Course, University of California at Irvine, Department of Anatomy & Neurobiology, <i>Growth factor therapy for recovery after spinal cord injury</i> .	

MENTORING at UNIVERSITY OF KENTUCKY, NATIONAL and INTERNATIONAL

Doctoral Thesis Advisor

- 2014 2019 Khalid Eldahan (Physiology), PhD Dissertation mentor/chair; Scientist at Lonza Bioscience, Houston, TX
- 2012 2017 Jenna VanRooyen-Gollihue (Physiology), PhD Dissertation mentor/chair; postdoctoral scholar in Chris Norris' lab, UK Sanders-Brown Center on Aging
- 2007 2008 Joseph Whelan (Physiology), Master's thesis mentor; Biomedical Life Scientist at Leidos, MD

Postdoctoral Fellows: current positions

2019 - 2022	Dr. Felicia Mary Michael, Assistant Professor, City College London, United Kingdom
2011 - 2012	Dr. Rachel Hill, Bibliography Manager, University of Cincinnati, OH
2006 - 2014	Dr. Samirkumar Patel, Assistant Professor, Department of Physiology, Kentucky
2006 - 2009	Dr. Hanad Duale, CEO at Kare Intellex, Inc. Columbus, OH
2005 - 2008	Dr. Shaoping Hou, Associate Professor, University of Missouri, Interdisciplinary
	Neuroscience Faculty Columbia, MO
2005 - 2006	Dr. Sairam Krishnamurthy, Professor of Pharmaceutics, Banaras Hindu University, India
2 00 2 2 00 4	

2003 - 2004 Dr. Adrian A. Cameron, Nambour General Hospital, Australia

Graduate Student Mentoring

2021	Kelsey Campbell, rotating IBS graduate student

- 2011 Jenna VanRooyen (Gollihue), rotating IBS graduate student
- 2011 Hyein Jang, rotating IBS graduate student
- 2008 Darren Miller, rotating IBS graduate student
- 2008 Brent Hackett, rotating IBS graduate student
- 2008 Eva Bach, rotating IBS graduate student
- 2006 Erica Fleishaker; rotating IBS graduate student
- 2005 Andrew Sauerbeck, rotating IBS graduate student
- 2005 Christopher Trimby, rotating IBS graduate student
- 2003 George Day, rotating IBS graduate student

Medical Student Mentoring

2015	Justin Huber, 4th Year Med Student, PGY850 Clinical Resident Program
2014 - 2015	Catherine Wang, 3rd Year Med Student, Professional Student Mentored Research Fellowship
2013	Chad Willis, 2 nd Year Med Student, Medical Student Research Program (Fed Work-Study)
2013	Catherine Wang, 2 nd Year Med Student, Med Student Research Program (Fed Work-Study)
2003 - 2005	Igor Voskresensky, 2 nd Year Medical Student (STEPS Program)
2002	Janna Hackett, 2 nd Year Medical Student (Federal Work Study Program)

Undergraduate Researchers

2022	Jasey Williams, PGY394 Program
2022	Cannon La Font, PGY394 Program
2022	Emmylou Tidwell, PGY394 Program
2021 - 2022	Olivia Whitfield, PGY394 Program
2021 - 2022	Blayne Starkey, PGY394 Program
2021	Sophia Carpico, PGY394 Program
2021	Jay Patel, PGY394 Program
2020	Ashley Pitts, PGY394 Program
2019	Stephen Spezzano, PGY394 Program
2019	Bailee Taylor, BIO395/ABT396 Programs
2018 - 2019	Lydia Boyd, PGY394 Program

2018	Sean Dunn, BIO395 Program
2017	Christian Baker, KHP395 Program
2018	Alexandra Bruce, BIO395 Program
2019	Janki Naidugari, BIO395 Program
2016	Kaylin Foreman, KHP395 Program
2016	Meraj Kotwal, BIO395 Program
2016	Carlee Schreiber, KHP395 Program
2015	Rebecca Joel, BIO395 Program
2015	Ashley Pittman, HHS445 Program
2015	Aileexandria Sandlin, ABT301 Program
2015	Hannah Hollenbach, BIO395 Program
2015	Alex Carter, BIO395 Program
2014 - 2016	Jonathan Gardner, CHEM395 Program
2014 - 2017	Jensen Goh, BIO395 & KHP395 Programs
2013 - 2015	Ana Bahrami, BIO395 Program
2013 - 2014	Alicia Kaseta, Physiology Scholars Program
2013 - 2014	Jensen Goh, Physiology Scholars Program
2013 - 2014	Katherine Spezzano, BIO395 Program
2012	Nathalie Astudillo, BIO395 Program
2012	Nicholas Streck, BIO395 Program
2012 - 2013	Christian Baker, BIO395 Program
2011 - 2013	Taylor Smith, CHEM395 Program
2011	Seth Leeds, BIO395 Program
2011	Anthony Gutierrez, Gatton Academy Research Fellowship
2010 - 2011	Oksana Zhurbich, BIO395 & Federal Work Study Program
2009	Alecia Fields, BIO395 Program
2009	Jenna Gilb, BIO395 Program
2008 - 2009	Jennifer Evans, ANA395 Program
2008	JaSan Rumph, Bucks for Brains Summer Research Program
2007	Racine Gue, ABT395 Program
2007	Sarah Reagin, KYSS Summer Research Program
2007	Aaron Harris, BIO395 Program
2003	Leslie Schwindel, STEPS Program

Ph.D. Dissertation Committees

- 2022 present Ammar Jamie Ahmed (U.K. Chemical & Materials Engineering)
- 2015 2019 Nour Baddar (U.K. Biology)
- 2011 2013 Gregory Corder (U.K. Physiology)
- 2009 2013 Shaun Carlson (U.K. Physiology)
- 2008 2013 S. Alex Marshall (U.K. Pharmaceutical Sciences)
- 2005 2011 Christopher Trimby (U.K. Physiology)
- 2004 2008 Yiqin Xiong (U.K. Anatomy & Neurobiology)
- 2003 2007 Kristine Ziemba (U.K. Physiology)
- 2002 2005 Michael Smith (U.K. Anatomy & Neurobiology)
- 2002 2005 Karah Nazor (U.K. Gerontology)

Outside Reviewer/External Examiner for Ph.D. Dissertation Committees

2024 - present	: Jan Elaine Cuevas Soriano (UNIL/EPFL, University of Lausanne, Switzerland)
2022 - present	Rémi Hudelle (UNIL/EPFL, University of Lausanne, Switzerland)
2022 - 2023	Marissa Cusimano (Neurobiology & Anatomy, Drexel University)
2019 - 2022	Cameron Trueblood (Neurobiology & Anatomy, Drexel University)
2014	Sang Hee Lee (U.K., Nutritional Sciences)
2013	Sarah Figley (Medicine, University of Toronto, CAN; site visit)
2009 - 2012	Patricia J. Ward (Anatomy & Neurobiology, University of Louisville, KY)
2009	Ernest Aguilar (Neuroscience; Flinders University, Australia)
2005	Fujian Zhang (U.K., Nutritional Sciences)

Training of Visiting Scientists

2022	Sajeev Kaur, Foreign Postdoctoral Scholar from India
2010	Dr. Yanling Yang, Visiting Scholar, Yan'an University Medical School, Yan'an, P.R. China

Trainee Awards/Honors

2020 - 2022	Felicia Michael, PhD – <i>Principle Investigator</i> , Craig H. Neilsen Foundation Postdoctoral Fellowship #651019 (Rabchevsky, Sponsor) Chemogenetic silencing of interneurons to modulate autonomic dysreflexia
2021	Felicia Michael, PhD – Poster Cash Award and the Dean's Lecture Series presentation, The Annual College of Medicine Trainee Poster Competition, University of Kentucky
2016	Jenna VanRooyen-Gollihue – Michael Goldberger Award, Top (1) ranked poster presentation. The 34 th Annual National Neurotrauma Society Symposium, Lexington, KY
2016	Jenna VanRooyen-Gollihue - Thomas V. Getchell, PhD, Memorial Award, for excellence in grant writing, Department of Physiology, University of Kentucky
2016	Jenna VanRooyen-Gollihue – Poster Award, The 4 th Annual Meeting of the Kentucky Chapter of the American Physiological Society, BioPharmacy Building, University of Kentucky, Lexington, KY
2016 - 2018	Khalid Eldahan – Pre-doctoral Scholar Training Program grant, Neurobiology of CNS Injury and Repair, National Institutes of Health-NIDA (5T32 NS077889) (Rabchevsky, Sponsor)
2016 - 2018	Jenna VanRooyen-Gollihue – NIH/NINDS F31 Grant Award (<i>Principle Investigator</i>), Mitochondria transplantation for functional recovery after spinal cord injury (Rabchevsky, Sponsor)
2015	Jenna VanRooyen-Gollihue – Poster Cash Award, <i>Bluegrass Society Neuroscience Day</i> , Civic Center, Lexington, KY
2015	Jenna VanRooyen – Travel Award Recipient, <i>The 22nd Annual American Society for Neural Therapy and Repair Conference</i> , Clearwater, FL
2015	Jenna VanRooyen – Poster Selection for Oral Presentation, The 22 nd Annual American Society for Neural Therapy and Repair Conference, Clearwater, FL
2014 - 2016	Jenna VanRooyen - Pre-doctoral Scholar Training Program grant, Neurobiology of CNS Injury

	and Repair, NIH-NIDA (5T32 NS077889) (Rabchevsky, Sponsor)
2013 - 2014	Catherine Wang, 3 rd Year Med Student, Professional Student Mentored Research Fellowship
2013	Samir Patel, PhD – Oral Presentation, The 19th Annual Kentucky Spinal Cord & Head Injury Research Trust Symposium, Louisville, KY
2013	Samir Patel, PhD – Poster Selection for Oral Presentation, The 31st Annual National Neurotrauma Society Symposium, Nashville, TN
2012	Samir Patel, PhD – Poster Selection for Oral Presentation, The 30th Annual National Neurotrauma Society Symposium, Phoenix, AZ
2009	Samir Patel, PhD – Awarded Neilsen Foundation Fellowship grant (Declined)
2009	Samir Patel, PhD – Travel Award recipient, <i>The 2nd Joint Symposium of the International and National Neurotrauma Societies</i> , Santa Barbara, CA
2008 - 2010	Hanad Duale, PhD – Principal Investigator (<i>Paralyzed Veterans Administration Research Foundation Fellowship #2561</i> (Rabchevsky, Sponsor)
2008 - 2009	Joseph Whelan – Pre-doctoral Scholar Training grant, <i>Therapeutic Strategies for Neurodegeneration Training Grant</i> , NIH-NIDA (1T32 DA022738) (Rabchevsky, Sponsor)
2007	Samir Patel, PhD – Best Poster, Oral Presentation & Cash Award, The 25 th Annual National Neurotrauma Society Symposium, Kansas City, MO
2007	Shaoping Hou, PhD – Outstanding Student Abstract, The 25 th Annual Neurotrauma Society Symposium, Kansas City, MO

ADMINISTRATIVE DUTIES AND SERVICE at UNIVERSITY OF KENTUCKY

<u>Departmental</u>

2019 - 2021	Organizing Committee for the 2021 Kentucky Spinal Cord and Head Injury Research Trust Fund Symposium
2018 - 2023	Department of Physiology Research committee
2012	SCoBIRC Faculty Retreat Planning committee
2007 - 2008	Chair, Organizing Committee for the 2008 14 th Annual Kentucky Spinal Cord and Head Injury Research Trust Fund Symposium
2004 - 2008	SCoBIRC Faculty Search Committee
2003 - 2013	Lexington Biannual Kentucky Spinal Cord and Head Injury Research Trust Symposium Organizing committee
2003 - 2005	SCoBIRC-sponsored Seminar Series Coordinator
2002 - 2005	SCoBIRC Journal Club Organizer

College of Medicine

- 2016 2019 Curriculum Subcommittee (Basic Science)
- 2007 2016 Interviewer, MD-PhD Program

2005 - 2008	Early Mobility Task Force Committee, U.K. Chandler Hospital
2004 - present	Graduate School Faculty member
2002 - 2018	Interviewer, IBS Graduate Student Program

<u>University</u>

2015	Neuroscience Faculty Search Committee, Department of Biology
2013	New Financial Budget Model Research Work Team, Office of VP for Research
2011 - 2014	Council of Endowed Professors and Chairs, Steering Committee
2011 - 2014	Senate Hearing Panel member (Privilege and Tenure), Office of the President
2009	Office of Research Integrity (ORI) Program Review Committee, Office of the VPR
2009	Society for Promotion of Undergraduate Research (SPUR)
2004 - 2005	IACUC Pain Policy committee member
2002 - 2005	Institutional Animal Care and Use committee (IACUC) member

<u>Outreach</u>

2023 - present	t Unite 2 Fight Paralysis, President, Board of Directors, Minneapolis, MN
2021	Ninth Annual Kentucky Congress on Spinal Cord Injury, Vice President and co-organizer, Virtual Symposium to over 95 registrants, Lexington, KY
2020	Eight Annual <i>Kentucky Congress on Spinal Cord Injury</i> , Vice President and co-organizer, Virtual Symposium to over 150 registrants-Covid-19, Lexington, KY
2019	Seventh Annual <i>Kentucky Congress on Spinal Cord Injury</i> , Vice President and co-organizer, Northeast Christian Church in Hamburg, Lexington, KY
2018 - 2022	Unite 2 Fight Paralysis, Board of Directors member, Minneapolis, MN
2018 - present	Delegate to North American Spinal Cord Injury Consortium (NASCIC)
2018	Sixth Annual <i>Kentucky Congress on Spinal Cord Injury</i> , Vice President and co-organizer, Northeast Christian Church in Hamburg, Lexington, KY
2021 - 2023	Independence Place KY, Inc., President, Board of Directors, Lexington, KY
2017	Inaugural North American Spinal Cord Injury Consortium (NASCIC), Representative of Kentucky Congress on Spinal Cord Injury, Airport Hilton, Miami, FL
2017	Fifth Annual <i>Kentucky Congress on Spinal Cord Injury</i> , Vice President and co-organizer, Cardinal Hill Rehabilitation Hospital, Lexington, KY
2017	Disability Awareness Day, Life in a Wheelchair, Seton Catholic Elementary School
2017	Panel Discussion Member, <i>Communication and self-advocacy;</i> Real world situations and solutions. The 8 th Annual Kentucky Appalachian Rural Rehabilitation Network Conference (Sept), Engagement, Communication & Access, Perkins Conference Center, Eastern Kentucky University, Richmond, KY
2017	Independence Place KY, Inc., Board of Directors, Lexington, KY

2016	Fourth Annual Kentucky Congress on Spinal Cord Injury, Vice President and co-organizer, Cardinal Hill Rehabilitation Hospital, Lexington, KY
2015	Third Annual Kentucky Congress on Spinal Cord Injury, Vice President and co-organizer, Marriot Griffin Gate Hotel, Lexington, KY
2015	Invited by Governor Steve Beshear to the Capitol in Frankfort, KY where he signed a proclamation recognizing the <i>Kentucky Congress on Spinal Cord Injury</i> on the 25 th anniversary of the Americans with Disabilities Act (ADA)
2015	Moderator of Panel Discussion, <i>Impact of the ACA from the patient and caregiver point of view</i> . The 7 th Annual Kentucky Appalachian Rural Rehabilitation Network Conference, Healthcare Accessibility for Individuals with Disabilities, Perkins Conference Center, Eastern Kentucky University, Richmond, KY
2015	Chair, No Barriers University Scientific Symposia, No Barriers USA Summit, Park City, UT
2014	Second Annual Kentucky Congress on Spinal Cord Injury, co-organizer and moderator, Clarion Hotel, Lexington, KY
2014	Moderator of Panel Discussion, <i>Issues relating to SCI and TBI and caregivers</i> . The 6 th Annual Kentucky Appalachian Rural Rehabilitation Network Conference, Issues Related to Spinal Cord Injury, Stroke and Brain Injury, The Perkins Conference Center, Eastern Kentucky University, Richmond, KY
2013 - present	Kentucky Congress on Spinal Cord Injury (KCSCI), vice president, Lexington, KY
2013	Inaugural Kentucky Congress on Spinal Cord Injury, co-organizer, moderator and keynote speaker, Civic Center, Lexington, KY
2013	Moderator of Panel Discussion, <i>Health and wellness living with spinal cord inju</i> ry. The 5 th Annual Kentucky Appalachian Rural Rehabilitation Network Conference, Issues Related to Spinal Cord Injury, Stroke and Brain Injury, The Perkins Conference Center, Eastern Kentucky University, Richmond, KY
2013	Chair, No Barriers University Scientific Symposia, No Barriers USA Summit, Telluride, CO
2012	Moderator of Panel Discussion, <i>Aging with spinal cord injury from the clients point of view</i> . The 4 th Annual Kentucky Appalachian Rural Rehabilitation Network Health Summit, Issues Related to Spinal Cord Injury and Stroke Across the Life Span, Eastern Kentucky University, Richmond, KY
2011 - 2018	Elkhorn Park Neighborhood Association, VP, Board of Directors, Lexington, KY
2011	Chair, No Barriers University Scientific Symposia. No Barriers Summit, Winter Park, CO
2011	Moderator of Panel Discussion, <i>Spinal cord injury and issues unique to this condition.</i> The 3 rd Annual Kentucky Appalachian Rural Rehabilitation Network Health Summit, Issues Related to Spinal Cord Injury and Stroke, The Center for Rural Development, Somerset, KY
2010 - 2019	No Barriers USA, Board of Directors member, Fort Collins, CO
2010 - 2019	Spinal Cord Injury Peer Alliance Program, KARRN & Cardinal Hill Rehab Hospital
2010 - 2015	Volunteer, Big Brothers Big Sisters of the Bluegrass, Lexington, KY
2009 - present	Kentucky Appalachian Rural Rehabilitation Network (KARRN), advisory board

2009 - 2013 Fayette County Science Fair, Faculty volunteer, Bryan Station High School, Lexington, KY
2009 Brain Awareness Day, Faculty volunteer, Explorium of Lexington, KY
2007 - 2009 Spinal Cord Injury Unit Support Group member, Cardinal Hill Rehabilitation Hospital
2006 - 2007 Coordinator of SCoBIRC 'Day in a Wheelchair experience', in collaboration with Cardinal Hill Rehabilitation Hospital

PROFESSIONAL SERVICE

Professional Affiliations

American Society for Neurochemistry (2022-present) Sigma Xi, Scientific Research Society (1997-present) American Society for Neural Transplantation; Neural Therapy and Repair (1994-present) Society for Neuroscience (1993-present) National Neurotrauma Society (1993-present)

NIH Study Sections

2023	NIH/NINDS: 2024/01 ZNS1 SRB-Q (09) Translational (BPN) - Special Emphasis Panel
2023	NIH/NINDS: 2023/10 ZNS1 SRB-G (62) Clinical Trials, G62 - Special Emphasis Panel
2021	NIH/NINDS: 2021/10 ZRG1 BDCN-E (02) M, Special Emphasis Panel Reviewer; Neurological Dysfunction and Degenerative Disorders
2016 - 2017	NIH/NINDS: Clinical Neuroplasticity and Neurotransmitters-CNNT
2011 - 2013	NIH/NINDS: NST-1 Subcommittee member (K Awards in Neuroscience/Neurology)
2010	NIH: ARRA RC4 Sustainable Community-Linked Infrastructure Panel ZRG1 HDM-D (58)
2009	NIH: Rare Diseases Clinical Research Consortia (ZRG1 HOP-Y (50) R)

Grant Reviewer (non-Federal)

- 2022 present The Swiss National Science Foundation (FNSNF)
- 2022 present The Praxis Spinal Cord Institute, Vancouver, BC Canada
- 2021 present International Spinal Research Trust (ISRT-Spinal Cord Foundation, UK) and Christopher & Dana Reeve Foundation (CDRF)
- 2013 2022 Craig H. Neilsen Foundation (SRB, standing member)
- 2010 2012 Craig H. Neilsen Foundation (SRB, ad hoc)
- 2010 2011 Ontario Research Fund Research Excellence program
- 2010 2013 Congressional Directed Medical Research Program (Spinal Cord Injury Res Program)
- 2010 2011 Veterans' Health Administration, RRD0 (RR&D Merit Review Award)

2007 - 2022 Canadian Institutes of Health Research (CIHR) 2006 - 2009 New York State Spinal Cord Injury Research Program 2006 - 2008 American Heart Association (AHA) 2005 - 2011 New Jersey Commission on Spinal Cord Research 2004 - 2010 Christopher and Dana Reeve Paralysis Foundation 2004 - 2011 International Spinal Research Trust (ISRT-Spinal Cord Foundation, UK) 2003 - 2004 Daniel Heumann Foundation State of South Carolina, Spinal Cord Injury Research Fund 2003

<u>Peer Journal Reviewer >20/year, since 2002</u>

American Journal of Physiology, Autonomic Neuroscience: Basic and Clinical, Biology, Biomedicines Biomolecules, BMC Veterinary Research, Brain Research, Burns and Trauma, Cell Biochemistry & Function, Cell Reports, Cells, Clinical Neurophysiology, Communications Medicine, European Journal of Neuroscience, Experimental Neurology, Experimental Physiology, Expert Opinion in Pharmacotherapy, Free Radical Biology and Medicine, Frontiers in Molecular Neuroscience, Frontiers in Neuroscience, Frontiers in Physiology, Glia, Journal of Applied Physiology, Journal of Clinical Medicine, Journal of Comparative Neurology, Journal of Histochemistry and Cytochemistry, Journal of Inborn Errors of Metabolism and Screening, Journal of Integrative Neuroscience, Journal of Neurochemistry, Journal of Neuroimmunology, Journal of Neuropathology & Experimental Neurology, Journal of Neuroscience, Journal of Neuroscience Methods, Journal of Neuroscience Research, Journal of Neurotrauma, Journal of Physiology, Journal of Spinal Cord Medicine, Journal of Translational Engineering in Health and Medicine, Journal of Visualized Experiments, Mayo Clinic Proceedings, Molecular Neurobiology, Molecular Therapy, Nature Communications, Nature Protocols, Neural Regeneration Research, Neurobiology of Disease, Neurochemical Research, Neuropharmacology, Neuroscience, Neuroscience Letters, The Neuroscientist, Neurotherapeutics, OBM Neurobiology, Pain Management, Physiological Reports, Public Library of Science (PLOS) ONE, Reviews in the Neurosciences, Scientific Reports, Spinal Cord, Stem Cells, Translational Medicine, The Scientific World, Trends in Neurosciences, World Journal of Orthopedics

Other Service (National/International)

2023	Moderator of panel discussion, What is the optimism that regeneration strategies (clinical) can be designed and implemented to restore lost functions after spinal cord injury? The 18 th Annual (Working2Walk) Symposium on Science & Advocacy, Unite 2 Fight Paralysis organization, Minneapolis, MN
2022 - present	International Symposium for Neural Regeneration, scientific advisory board member
2022	Moderator of panel discussion, the 17 th Annual Science & Advocacy Symposium (Working2Walk), Unite 2 Fight Paralysis organization, Salt Lake City, UT
2021	Moderator of panel discussion, <i>Beyond the Hype: Brain Computer Interfaces, From Concept to Real World; Regeneration Strategies</i> , the 16 th Annual Science & Advocacy <i>virtual</i> Symposium (Working2Walk), Unite 2 Fight Paralysis organization
2021	Invited panelist, Advocacy Pathways for Spinal Cord Injury. Neurotrauma Advocacy: Building a Pathway for the Future (Co-Chairs Drs. Grace Griesbach and Amy Wagner). The 38 th Annual National Neurotrauma Society <i>virtual</i> symposium

2020	Moderator of panel discussion, Pre-Clinical Research done in laboratory experiments and animal models. The 15 th Annual (Working2Walk) virtual symposium, Unite 2 Fight Paralysis organization
2019 - 2022	National Neurotrauma Society, Advocacy Committee member
2019	Co-Chair (with Dr. Dianne Langford), Targeting mitochondrial medicine to improve functional outcome after CNS injury. The 37 th Annual National Neurotrauma Society Symposium, Pittsburgh, PA
2019	Co-Chair (with Drs. Grace Griesbach and Amy Wagner), <i>What Does Function Mean to Me?</i> Function After SCI & TBI & Advocacy-Roundtable Lunches. The 37 th Annual National Neurotrauma Society Symposium, Pittsburgh, PA
2016	Co-Chair (with Dr. Lumy Sawaki), <i>Engineering approaches for functional restoration after spinal cord injury</i> . The 34 th Annual National Neurotrauma Society Symposium, Lexington, KY
2016	Chair, Management of acute autonomic dysfunction after spinal cord injury. The 34 th Annual National Neurotrauma Society Symposium, Lexington, KY
2016 - 2019	National Neurotrauma Society Council member
2015 - 2016	National Neurotrauma Society, Planning Committee member for the 34th Annual Meeting
2013	Debate Team Captain-Pro, <i>The barrier to axonal regeneration is intrinsic to the neuron</i> . The 15 th International Symposium on Neural Regeneration, Asilomar Conference, Pacific Grove, CA
2011 - 2012	National Neurotrauma Society, Strategic Planning Committee member
2007	Co-Chair (with Dr. Pat Kochanek), <i>Tissue engineering, neurobionics and transplantation.</i> The 25 th Annual National Neurotrauma Society Symposium, Kansas City, MO
2005	Chair, Spinal cord injury, autonomic nervous system and dysfunction. The 4 th Congress of the International Society for Autonomic Neuroscience, Marseille, France
2005	Co-Chair (with Dr. Edward Hall), Spinal cord injury and neural prostheses. The 1 st Translational Neuroscience Conference, Lexington, KY
2004 - 2011	National/International Neurotrauma Society Symposia; Scientific Program Committee, Faculty Poster Judge, Student Abstract Competition
2003	Chair, Visceral function and pain in spinal cord injury. The 10 th International Symposium on Neural Regeneration, Asilomar Conference, Pacific Grove, CA
2001	Co-Chair (with Dr. Mary Bunge), Neuroprotective and regenerative therapies for spinal cord injury. The 19th Annual National Neurotrauma Society Symposium, San Diego, CA

Consulting Activities

- 2023 present Data & Safety Monitoring Board, University of Miami, FL Brian Noga & James Guest (MPI):
- 2022 present Guideline development of Collaborative RECOSPA (REporting COrd Stimulation PArameters) for minimum reporting of standard parameters in future studies. ICORD, UBC, CAN Krassioukov (PI)
- 2022 present The International Advisory Council (IAC): evaluating the progress of the Mend the Gap (MTG) project, "A Transformative Biomaterials Platform for Spinal Cord Repair" with technical and project management advice to the project's Steering Committee. ICORD, UBC, CAN Tetzlaff W. (PI)
- 2021 present Advisory Board, The Northeast Ohio Regional Spinal Cord Injury System:

NORSCIS 90SIMS0007 "Feasibility of gabapentin as an intervention to improve neurologic recovery" Anderson (PI)

- 2021 present Scientific Advisor/Consultant, Cellvie, Inc. Houston, TX
- 2014 present Data & Safety Monitoring Board, Keck Institute, NJ, W81XWH-14-2-0190, Gail Forrest (PI)

INVITED PRESENTATIONS/SEMINARS

<u>Local</u>

- 2017 Changing serotonin receptor 2C splice variants to combat spasticity after spinal cord injury. University of Kentucky, Department of Molecular & Cellular Biochemistry, Lexington, KY
- 2013 Keynote Address. Inaugural Kentucky Congress on Spinal Cord Injury, Civic Center, Lexington, KY
- 2012 Novel targets for spinal cord injury therapeutics: Bioenergetic and autonomic dysfunctions. University of Kentucky, Department of Physiology, Lexington, KY
- 2012 Experimental design: Applying scientific method, power and avoiding bias. University of Kentucky, Spinal Cord and Brain Injury Research Center, Lexington, KY
- 2012 Autonomic dysreflexia, electrical implants, no barriers: Perspectives from a paraplegic neuroscientist. Appalachian Health Summit, Quality of Life Following Neurotrauma, Civic Center, Lexington, KY
- 2011 Modulating the pathophysiology of autonomic dysreflexia after spinal cord injury. University of Kentucky, Department of Physiology, Lexington, KY
- 2001 Growth factor and gene therapy for functional recovery after spinal cord injury. University of Kentucky, Department of Physiology, Lexington, KY
- 2000 Effects of basic fibroblast growth factor (bFGF) and combination therapy on spinal cord injury. Annual KSCHIRT Symposium University of Kentucky, Lexington, KY
- 2000 Effects of basic fibroblast growth factor (bFGF) therapy on spinal cord injury. University of Kentucky, Spinal Cord & Brain Injury Research Center, Lexington, KY
- 1998 Basic fibroblast growth factor (bFGF) reduces tissue damage and enhances recovery following spinal cord injury to the rat. Annual KSCHIRT Symposium, University of Kentucky, Lexington, KY

<u>State</u>

- 2015 Mitochondrial targeted therapeutics for treatment of spinal cord injury. Kentucky Spinal Cord Injury Research Center, University of Louisville, Louisville, KY
- 2007 Experimental potentials and clinical pitfalls of SCI therapeutics: Perspectives from a neuroscientist with SCI. Annual KSCHIRT Symposium, University of Louisville, Louisville, KY
- 2003 Combination therapies for recovery after spinal cord injury: steroids and growth factors. Annual KSCHIRT Symposium, Frontiers in Spinal Cord Regeneration, Louisville, KY
- 2001 Growth factor and steroid therapy for recovery after spinal cord injury. Annual KSCHIRT Symposium, Frontiers in Spinal Cord Regeneration, Louisville, KY
- 2000 Growth factor therapies and transplantation strategies for spinal cord injury. University of Louisville, Department of Neurological Surgery, Louisville, KY
- 1999 Basic fibroblast growth factor (bFGF) enhances functional recovery and tissue sparing after spinal cord injury. Annual KSCHIRT Symposium, Louisville, KY

<u>National/International</u>

- 2023 What is the optimism that regeneration strategies (clinical) can be designed and implemented to restore lost functions after spinal cord injury? The 18th Annual Unite 2 Fight Paralysis Symposium on Science & Advocacy. Minneapolis, MN
- 2023 Compendium of an American graduate student supported by Rick Hansen 'Man in Motion' Legacy Fund. Plenary Lecture, 20thannual International Collaboration on Repair Discoveries (ICORD) Research Meeting, University of British Columbia, Vancouver, Canada
- 2021 Mitochondrial transplantation strategies for the injured spinal cord. United Mitochondrial Disease Foundation: Bench-to-Bedside webinar series, Center for Metabolic and Mitochondrial Medicine, University of Pittsburgh
- 2021 Mitochondrial transplantation strategies for the injured spinal cord. Advances of mitochondria as a therapeutic agent. Virtual conference via Universidad San Francisco de Quito School of Medicine, Ecuador
- 2020 Mitochondrial transplantation for spinal cord injury. The International Online SCI Research Seminar series (IOSCIRS), virtual webinar.
- 2018 Mitochondrial-targeted pharmacotherapeutics and biopharmaceuticals for spinal cord injury. The 3rd National-International Neurotrauma Society Symposium, Perspectives on SCI and TBI Research Going from INTS 2018 to the Future, Toronto, Ontario, Canada
- 2018 Transplantation of mitochondria into the injured spinal cord. The Cleveland Clinic, Department of Neurosciences, Lerner Research Institute, Cleveland, OH
- 2017 Swapping the powerhouse of the cell following SCI: Intraspinal mitochondrial transplantation. The 34th Annual Meeting of the National Neurotrauma Society. Snowbird, UT
- 2017 Mitochondrial bioenergetics and functional recovery after spinal cord injury. Inaugural Spinal Cord Injury Summit, Ohio State University Neurological Institute, Columbus, OH
- 2015 Pharmacological manipulation of maladaptive plasticity to mitigate autonomic dysreflexia after spinal cord injury. Emory University School of Medicine, Department of Physiology, Atlanta, GA
- 2015 Targeting bioenergetic and autonomic dysfunctions after spinal cord injury. Penn State University College of Medicine, Department of Physical Medicine and Rehabilitation Hershey, PA
- 2014 Perspectives of a neuroscientist with a surgically implanted neuroprosthesis for exercise, standing, and transfers following spinal cord injury. The Mayo Clinic, Department of Physiology and Biomedical Engineering, Rochester, MN
- 2014 Novel targets for spinal cord injury therapeutics: Bioenergetic and autonomic dysfunctions. The Mayo Clinic, Department of Neuroscience, Rochester, MN
- 2014 Pharmacological management of autonomic dysreflexia: Effects on intraspinal plasticity and inflammation after complete spinal cord injury. The 16th International Spinal Research Trust Network Meeting, London, UK
- 2014 Perspectives of a neuroscientist with a surgically implanted neuroprosthesis for exercise, standing, and transfers following spinal cord injury. The 41st Neural Interfaces Conference, Dallas, TX
- 2014 N-acetylcysteine amide (NACA) promotes mitochondrial bioenergetics and functional recovery following spinal trauma. The 14th Conference of the International Society of Antioxidants in Nutrition & Health, Paris, France

- 2014 Management of autonomic dysreflexia with gabapentin. The 40th Annual Meeting of the American Spinal Injury Association (ASIA), San Antonio, TX
- 2013 Keynote Address. University of Toronto Spine Program, Department of Surgery, Toronto, Canada
- 2013 Novel targets for spinal cord injury therapeutics: Bioenergetic and autonomic dysfunctions. Drexel University, Department of Neurobiology and Anatomy, Philadelphia, PA
- 2012 Modulation of intraspinal plasticity associated with autonomic dysreflexia after complete spinal cord injury. The 2012 J. Allyn Taylor International Prize in Medicine, Symposium on spinal cord injury research, London, Ontario, Canada
- 2012 Modulating intraspinal plasticity associated with pathophysiology of autonomic dysreflexia after spinal cord injury. The 30th Annual Meeting of the National Neurotrauma Society. Phoenix, AZ
- 2012 Autonomic dysreflexia, electrical implants, no barriers: Perspectives from a paraplegic neuroscientist. University of North Carolina at Pembroke, Department of Biology, Pembroke, NC
- 2012 Autonomic dysreflexia after spinal cord injury is associated with anomalous intraspinal plasticity. University of Western Sydney Campbelltown Campus, Sydney, Australia
- 2012 Spinal cord injury and functional electrical stimulation (FES); Perspectives from the view of a neuroscientist and user. Neuroscience Research Australia (NeuRA), Sydney, Australia
- 2012 Spinal cord injury and functional electrical stimulation (FES); Perspectives from the view of a neuroscientist and user. Royal Talbot Rehabilitation Centre, Melbourne, Australia
- 2012 Intraspinal plasticity associated with pathophysiology of autonomic dysreflexia after spinal cord injury. University of Melbourne Brain Centre, Melbourne, Australia
- 2012 Modulating the pathophysiology of autonomic dysreflexia after spinal cord injury. The 32nd Annual Meeting of the Australian Neuroscience Society, Autonomic and sensory changes in spinal cord injury: Impact and prospects for treatment, Gold Coast, Australia
- 2011 Modulating the pathophysiology of autonomic dysreflexia after spinal cord injury. Indiana University Purdue University (IUPUI) School Medicine, Stark Neuroscience Research Institute, Indianapolis, IN
- 2011 Modulating the pathophysiology of autonomic dysreflexia after spinal cord injury. Current advances in spinal cord injury research, UMDNJ, New Jersey Medical School, Newark, NJ
- 2010 The patient perspective: What should I hope for, what should I know? The 36th Annual Meeting of the American Spinal Injury Association (ASIA), For the Clinician: Participating in Translational Research, Nashville, TN
- 2009 Intraspinal plasticity is associated with autonomic dysreflexia after spinal cord injury. Uniformed Services University of the Health Sciences, Neuroscience Program, Bethesda, MD
- 2009 Intraspinal plasticity of sensory fibers and propriospinal neurons is associated with autonomic dysreflexia after spinal cord injury. University of Florida, McKnight Brain Institute, Gainesville, FL
- 2009 Plasticity of both visceral afferents and propriospinal neurons is associated with manifestation of autonomic dysreflexia after complete spinal cord injury. Cellular & Network Functions in the Spinal Cord Symposium, University of Wisconsin-Madison
- 2009 Plasticity of visceral sensory fibers and lumbosacral propriospinal neurons is associated with autonomic dysreflexia after spinal cord injury. University Miami, Project to Cure Paralysis. Miami, FL
- 2009 Stance on functional neuroprosthetics: from bench side to bedside and back <u>and</u> Plasticity of visceral sensory fibers and lumbosacral propriospinal neurons is associated with autonomic dysfunction after

spinal cord injury. University of Alberta, Department of Cell Biology, Edmonton, Alberta Canada

- 2008 Plasticity of both visceral sensory fibers and propriospinal neurons is associated with the development of autonomic dysfunction after spinal cord injury. Touro University, School of Osteopathic Medicine, Henderson, NV
- 2008 Plasticity of lumbosacral propriospinal neurons is associated with the development of autonomic dysreflexia after thoracic spinal cord transection. Second annual Reeve-Irvine Medal Symposium (honoring William C. de Groat), University of California, Irvine, CA
- 2007 Perspectives on neuroprosthetics from the view of a neuroscientist and user. No Barriers USA Festival, Squaw Valley, CA
- 2006 Perspectives on neuroprosthetics from the view of a neuroscientist and user. The National Academies Keck's Future Initiative, Smart prosthetics: Exploring assistive devices for the body and mind. Beckman Center. Irvine, CA
- 2006 Plasticity of both sensory axons and propriospinal neurons influences the severity of autonomic dysreflexia after complete spinal cord injury. Drexel University, College of Medicine, Department of Neurobiology and Anatomy. Philadelphia, PA
- 2005 Influence of propriospinal pathway plasticity following spinal cord injury in the development of autonomic dysreflexia. *The 4th Congress of the International Society for Autonomic Neuroscience*, Marseille, France
- 2004 Clinical and experimental approaches to improve function after spinal cord injury. Case Western Reserve University, Department of Biomedical Engineering & Cleveland FES Center, Cleveland, OH
- 2003 Bowel and sexual dysfunction after spinal cord injury. *Symposium on Autonomic Dysfunction after Spinal Cord Injury: Mechanisms, Prevention and Treatment*, Banff, Alberta, Canada
- 2002 Keynote Address. The 1st National-International Neurotrauma Society Symposium, Tampa, FL
- 2002 Mechanisms of autonomic dysreflexia following spinal cord injury and A surgically implanted neuroprosthesis for exercise, standing, and transfers. The 5th International Spinal Research Trust Network Meeting, City University, London, U.K.
- 2000 Effects of basic fibroblast growth factor (bFGF) therapy on spinal cord injury. University of British Columbia, Department of Zoology and International Collaboration on Repair Discoveries (iCORD), Vancouver, B.C., Canada
- 2000 Therapeutic interventions following spinal cord injury: Defining the targets of experimental treatments. Johns Hopkins University, Biomedical Engineering & Neurology, Baltimore, MD
- 1995 Intraspinal transplantation of microglial cells into the injured rat spinal cord. University of Paris, XII, School of Medicine, Créteil, France

PROFESSIONAL SYMPOSIA AND WORKSHOPS ATTENDED

2023 The 18th annual Science & Advocacy Symposium (Working2Walk), Unite 2 Fight Paralysis organization, Minneapolis, MN
2023 Inaugural progress meeting of the Mend the Gap (MTG) project, "A Transformative Biomaterials Platform for Spinal Cord Repair", ICORD, UBC, Vancouver, Canada
2023 The 20th International Symposium on Neural Regeneration, Stevenson, WA; SAB member

2022	The 17 th annual Science & Advocacy Symposium (Working2Walk), Unite 2 Fight Paralysis organization, Salt Lake City, UT
2022	The 51 st annual Society for Neuroscience Meeting, San Diego, CA
2022	The 38 th annual Neurotrauma Society Symposium, Atlanta, GA
2021	The 26 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2021	The 16 th annual Science & Advocacy Symposium (Working2Walk), Unite 2 Fight Paralysis organization, <i>virtual</i>
2021	The 38 th Annual National Neurotrauma Society <i>virtual</i> symposium. Invited panelist, <i>Advocacy Pathways for Spinal Cord Injury</i> . Neurotrauma Advocacy: Building a Pathway for the Future (Co-Chairs Drs. Grace Griesbach and Amy Wagner).
2020	The 15 th annual Science & Advocacy Symposium (Working2Walk), Unite 2 Fight Paralysis organization, <i>virtual</i>
2019	The 14 th annual Science & Advocacy Symposium (Working2Walk), Unite 2 Fight Paralysis organization, Cleveland, OH
2019	SCI 2020: Launching a Decade for Disruption in Spinal Cord Injury Research: Session 1: Fire and Smoke - Opportunities in the acute post-injury phase [NINDS, OD-ODP]; Session 3: With Us, Not for Us: Community activity and priorities [NINDS/NCMRR/NINR], Bethesda, MD
2019	The 37th annual Neurotrauma Society Symposium, Pittsburgh, PA
2019	The 25th annual Kentucky Spinal Cord and Head Injury Research Symposium, Louisville, KY
2019	The 22 nd annual American Society for Neural Therapy and Repair Conference, Clearwater, FL
2018 - 2020	NASCIC Advisory Team to the Bladder/Bowel Working group; Craig H. Neilsen Foundation
2018	The 13 th annual Science & Advocacy Symposium (Working2Walk), Unite 2 Fight Paralysis organization
2018	The 3 rd Joint National/International Neurotrauma Society Symposium, Toronto, Canada
2018	The 24 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2018	The 47 th annual Society for Neuroscience Meeting, San Diego, CA
2017	The 23rd annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2017	The 35th annual National Neurotrauma Society Symposium, Snowbird, UT
2017	The 17 th International Symposium on Neural Regeneration, <i>Exercise as a therapy for spinal cord injury: How to move physical training from animal models to clinical implementation</i> . Asilomar Conference, Pacific Grove, CA
2017	Inaugural meeting of the North American Spinal Cord Injury Consortium, Miami, FL
2017	The 12 th annual Science & Advocacy Symposium (Working2Walk), Unite 2 Fight Paralysis organization, Miami, FL
2017	The annual International Spinal Research Trust Symposium, London, UK
2017	The 46 th annual Society for Neuroscience Meeting, Washington, DC
2016	The 22 nd annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2016	The NIH/NINDS, Spinal Cord Injury Preclinical Data Workshop: Developing a FAIR Share Community North Bethesda, MD
2016	The 34th National Neurotrauma Society Symposium, Lexington, KY
2016	The 42 nd Annual Meeting of the American Spinal Injury Association (ASIA), Philadelphia, PA

	Panel Discussion member, How to move from animal models of spinal cord injury to clinical
	implementation. Pre-course #2-Progress in Translational Research.
2015	The 21 st annual Kentucky Spinal Cord and Head Injury Research Symposium, Louisville, KY
2015	The 33 rd annual National Neurotrauma Society Symposium, Santa Fe, NM
2014	The 20 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2014	The 44 th annual Society for Neuroscience Meeting, Washington, DC
2013	The 19 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Louisville, KY
2013	The 31 st annual National Neurotrauma Society Symposium, Nashville, TN
2012	The 42 nd annual Society for Neuroscience Meeting, New Orleans, LA
2012	The NIH/NINDS, Optimizing the Predictive Value of Preclinical Research Workshop, Washington, DC
2012	The 30th annual National Neurotrauma Society Symposium, Phoenix, AZ
2012	The 18 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2010	The 17 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Louisville, KY
2011	The 41 st annual Society for Neuroscience Meeting, Washington, DC
2010	The 16 th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky, Lexington, KY
2010	The 28 th annual National Neurotrauma Society Symposium, Las Vegas, NV
2010	The 40 th annual Society for Neuroscience Meeting, San Diego, CA
2009	The 2 nd Joint National/International Neurotrauma Society Symposium, Santa Barbara, CA
2009	Spinal Cord Injury Research Program (SCIRP), DoD & Congressionally Directed Medical Research Programs (CDMRP), Invited Stakeholder, Herndon, VA
2008	The 15 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Louisville, KY
2008	Spinal Cord Outcomes Partnership Endeavor (SCOPE) Workshop. Functional Recovery after Spinal Cord Injury: Implications of Different Spinal Injury Patterns and Distinct Therapeutic Targets on Clinical Trial Outcomes. Arlington, VA
2008	The 14 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2008	The NIH/NINDS, Combination Therapies, Mechanisms and Targets for Neuroprotection for TBI Workshop, Rockville, MD
2010	The 25 th annual National Neurotrauma Society Symposium, Kansas City, MO
2007	The 13 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Louisville, KY
2006	The 12 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2006	The 24 th annual National Neurotrauma Society Symposium, St. Louis, MO
2005	The 4th Congress of the International Society for Autonomic Neuroscience, Marseille, France
2005	The 23 rd annual National Neurotrauma Society Symposium, Washington, DC
2005	The 11 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Louisville, KY
2004	The 10 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2004	The 34 th annual Society of Neuroscience Meeting, San Diego, CA
2004	The 22 nd annual National Neurotrauma Society Symposium, San Diego, CA
2004	The annual International Spinal Research Trust Symposium, London, UK
2003	The 1 st Symposium on Autonomic Dysfunction after Spinal Cord Injury: <i>Mechanisms, Prevention and Treatment</i> . Banff, Alberta, Canada
2003	The 9 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Louisville, KY
2003	The 21st annual National Neurotrauma Society Symposium, Biloxi, MS

2002	The 8 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2002	The 1 st Joint National/International Neurotrauma Society Symposium, Tampa, FL
2001	The annual International Spinal Research Trust Symposium, London, UK
2001	The 31st annual Society of Neuroscience Meeting, San Diego, CA
2001	The 7 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Louisville, KY
2001	The 20 st annual National Neurotrauma Society Symposium, San Diego, CA
2000	The 6 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
2000	The 30th annual Society of Neuroscience Meeting, New Orleans, LA
2000	The 19th annual National Neurotrauma Society Symposium, New Orleans, LA
1999	The 5 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Louisville, KY
1999	The 18 th annual National Neurotrauma Society Symposium, Miami, FL
1998	The 17 th annual National Neurotrauma Society Symposium, Los Angeles, CA
1998	The 4 th annual Kentucky Spinal Cord and Head Injury Research Symposium, Lexington, KY
1997	The Annual European Society for Neuroscience Meeting, Bordeaux, France
1997	The 27th annual Society of Neuroscience Meeting, New Orleans, LA
1997	The 16 th annual National Neurotrauma Society Symposium, New Orleans, LA
1996	The 15 th annual National Neurotrauma Society Symposium, Washington, DC
1994	The 13 th annual National Neurotrauma Society Symposium, Miami, FL
1994	The 24 th annual Society of Neuroscience Meeting, Miami, FL
1994	The 1st annual American Society for Neural Therapy and Repair Conference, Clearwater, FL
1993	The 23rd annual Society of Neuroscience Meeting, Washington, DC

PUBLISHED ABSTRACTS: NATIONAL/INTERNATIONAL MEETINGS

- 1. Helke C.J., **Rabchevsky A.G.** and Ichikawa H. (1991) Putative neurotransmitter agents in sensory neurons of the carotid sinus nerve (CSN) of the rat. *Society for Neuroscience Annual Meeting*, 17: 287.
- 2. **Rabchevsky A.G.**, Streit W.J. and Reier P.J. (1993) Transplantation of fluorescently labeled microglia into the adult rat spinal cord. *Society for Neuroscience Annual Meeting*, 19: 57.
- 3. **Rabchevsky A.G.**, Streit W.J. and Reier P.J. (1994) Intraspinal transplantation of enriched microglia seeded within biodegradable polymeric tubes: Evidence for neuritic ingrowth. *Society for Neuroscience Annual Meeting*, 20: 879.
- 4. **Rabchevsky A.G.**, W.J. Streit and P.J. Reier. (1994) Transplantation of brain macrophages (BrM) embedded in gelfoam into the injured rat spinal cord: evidence for neuritic ingrowth and the presence of extracellular matrix. *J. Neurotrauma* 11(2), p. 93. *Top Poster Award Winner*
- 5. Pennell N.A., **Rabchevsky A.G.** and Streit W.J. (1995) Depletion of major histocompatibility complex (MHC)-bearing cells from embryonic rat spinal cord. *Society for Neuroscience Annual Meeting*, 21: 823.
- 6. **Rabchevsky A.G.,** Streit W.J. and Reier P.J. (1995) Transplantation of brain macrophages (BrM) embedded in Gelfoam into the injured rat spinal cord: Evidence for neuritic ingrowth and the presence of extracellular matrix. *J. Neurotrauma* 12(10), p. 136.
- 7. Rabchevsky A.G. and Dreyfus P.A. (1996) Characterization of murine microglia and astrocytes in

relation to IgG leakage into neural parenchyma after systemic adjuvant injection. J. Neurotrauma 13(10), p. 630.

- 8. **Rabchevsky A.G.**, Weinitz J.M., Coulpier M., Fages C., Tinel M., Junier M.P. (1997) La stimulation de la synthèse du Transforming Growth Factor alpha conduit, in vivo, à une réactivité astrocytaire dans le SNC. *European Society of Neuroscience symposium*, Bordeaux, France INSERM U421, Créteil
- 9. **Rabchevsky A.G.**, Weinitz J.M., Coulpier M., Fages C., Tinel M. and Junier M.P. (1997) *In vivo* induction of transforming growth factor alpha synthesis leads to the development of reactive astrocytes throughout the CNS. *Society for Neuroscience Annual Meeting*, 28: 12.
- 10. **Rabchevsky A.G.**, Turner A.F., Blades D.A., and Scheff S.W. (1998) Basic fibroblast growth factor (bFGF) reduces tissue damage and enhances functional recovery following spinal cord injury in the rat. *The annual Kentucky Spinal Cord and Head Injury Research Symposium*, University of Kentucky, Lexington, KY
- 11. **Rabchevsky A.G.**, Turner A.F. and Scheff S.W. (1998) Intrathecal infusion of basic fibroblast growth factor (bFGF) following contusion injury to the adult rat spinal cord reduces tissue damage and enhances functional recovery. *Society for Neuroscience Annual Meeting*, 24: 545.
- 12. **Rabchevsky A.G.**, Turner A.F. and Scheff S.W. (1998) Effects of intrathecal infusion of basic fibroblast growth factor (bFGF) on functional recovery and tissue sparing following spinal cord injury in the adult rat. *J. Neurotrauma* 15(10), p. 892.
- 13. **Rabchevsky A.G.**, Fugaccia I., Turner A.F., Blades D.A. and Scheff S.W. (1999) Basic fibroblast growth factor (bFGF) significantly enhances hindlimb recovery following moderate and severe spinal cord injury in the rat. *The 8th International Symposium on Neural Regeneration*, Asilomar Conference, Pacific Grove, CA.
- 14. **Rabchevsky A.G.**, Fugaccia I., Sullivan P.G. and Scheff S.W. (1999) Cyclosporin A (CsA) does not reduce tissue damage after spinal cord injury in the rat. *Society for Neuroscience Annual Meeting*.
- 15. **Rabchevsky A.G.**, Fugaccia I., Sullivan P.G. and Scheff S.W. (1999) Cyclosporin A (CsA) does not reduce tissue damage after spinal cord injury in the rat. *J. Neurotrauma* 16(10), p. 981.
- Rabchevsky A.G., Fugaccia I., Turner A.F., Blades D.A. and Scheff S.W. (1999) Basic fibroblast growth factor (bFGF) significantly enhances hindlimb recovery following moderate and severe spinal cord injury in the rat. *The 8th International Symposium on Neural Regeneration*, Asilomar Conference, Pacific Grove, CA.
- 17. **Rabchevsky A.G.**, Fugaccia, I., Turner A.F., Blades D.A., Mattson. M.P. and Scheff S.W. (2000) Basic fibroblast growth factor (bFGF) therapy following spinal cord injury in the rat. *The annual Kentucky Spinal Cord and Head Injury Research Symposium*, University of Kentucky, Lexington, KY
- 18. **Rabchevsky A.G.**, Fugaccia I. and Scheff S.W. (2000) Stereological assessment of lesion development after spinal cord injury in rats: effect of methylprednisolone. *Society for Neuroscience Annual Meeting*.
- 19. Sullivan P.G., **Rabchevsky A.G.**, Keller J.N., Lovell M.A. and Scheff. S.W. (2000) Intrinsic differences between brain and spinal cord mitochondria. *Society for Neuroscience Annual Meeting*.
- 20. Scheff S.W., **Rabchevsky A.G.**, Fugaccia I., Zhang P., Lump J.E. and Main J.A. (2000) A contusion model of spinal cord injury for use in both rats and mice. *J. Neurotrauma* 17(10), p. 945.
- 21. Sullivan P.G., Keller J.N., **Rabchevsky A.G.**, Lovell M.A. and Scheff. S.W. (2000) Intrinsic differences in isolated brain and spinal cord mitochondria. *J. Neurotrauma* 17(10), p. 950.
- 22. Price D., Sullivan P.G., **Rabchevsky A.G.** and Scheff. S.W. (2000) Dose response curve and optimal dosing of cyclosporin A after traumatic brain injury. *J. Neurotrauma* 17(10), p. 961.

- 23. **Rabchevsky A.G.**, Fugaccia I. and Scheff S.W. (2000) Stereological assessment of lesion volume after spinal cord injury in rats: effect of methylprednisolone. *J. Neurotrauma* 17(10), p. 961.
- 24. Zhang P., **Rabchevsky A.G.**, Fugaccia I. and Scheff S.W. (2000) Intrathecal GDNF infusion fails to protect the injured rat spinal cord. *J. Neurotrauma* 17(10), p. 965.
- 25. Fugaccia I., **Rabchevsky A.G.**, Sullivan P.G. and Scheff S.W. (2000) Stereological assessment of spared tissue following spinal cord injury in the rat. *J. Neurotrauma* 17(10), p. 979.
- 26. **Rabchevsky A.G.**, Fugaccia I., Sullivan P.G. and Scheff S.W. (2001) Creatine diet supplement does not improve recovery or tissue sparing after spinal cord injury. *Society for Neuroscience Annual Meeting*.
- 27. Zhang P., Rabchevsky A.G., Fugaccia I and Scheff S.W. (2001) Loss and reacquisition of oligodendrocytes following spinal cord injury in the rat. *Society for Neuroscience Annual Meeting*.
- 28. Fugaccia I., **Rabchevsky A.G.**, Zhang P., Main J.A. and Scheff S.W. (2001) Characterization of a forcebased computer controlled spinal cord injury device. *J. Neurotrauma* 18(10), p. 1125.
- 29. Hynds D.L., Dassel M., **Rabchevsky A.G.** and Snow D.M. (2001) Rho GTPase expression and activation in response to chondroitin sulfate proteoglycans. *J. Neurotrauma* 18(10), p. 1144.
- 30. Rabchevsky A.G., Fugaccia I., Sullivan P.G. and Scheff S.W. (2001) Creatine diet supplement does not improve recovery or tissue sparing after spinal cord injury. J. Neurotrauma 18(10), p. 1167.
- 31. Zhang P., **Rabchevsky A.G.**, Fugaccia I. and Scheff S.W. (2001) Dynamic changes in oligodendrocytes following spinal cord injury in the rat. *J. Neurotrauma*, 18(10), p. 1145.
- 32. Cai J., **Rabchevsky A.G.**, Nelson K.D. and Smith G.M. (2002) Improved peripheral nerve regeneration across long lesion gaps using aligned microfilaments within porous biodegradable guidance channels. *Society for Neuroscience Annual Meeting.*
- 33. **Rabchevsky A.G.**, Fugaccia I., Khalili M.A., Herman R.K. and Scheff S.W. (2002) Increasing dosages of fibroblast growth factor-2 (FGF-2) delivered near the site of spinal cord injury impair functional recovery and tissue sparing in rats. *J. Neurotrauma* 19(10), p. 1297.
- 34. Cameron A.A., Smith G.M., Randall D.C., Brown D.R. and **Rabchevsky A.G.** (2003) Effects of overexpressing nerve growth factor at different levels below thoracic spinal cord injury on autonomic dysreflexia. *Autonomic Dysfunction after Spinal Cord Injury Symposium*, Banff, Alberta, Canada.
- 35. Cameron A.A., Smith G.M., Randall D.C., Brown D.R. and **Rabchevsky A.G.** (2003) Effects of NGF over-expression on autonomic dysreflexia after spinal cord injury. *Society for Neuroscience Annual Meeting.*
- 36. Cameron A.A., Smith G.M., Randall D.C., Brown D.R. and **Rabchevsky A.G.** (2003) Effects of NGF over-expression on autonomic dysreflexia after spinal cord injury. *J. Neurotrauma* 20(10), p. 1086.
- 37. Dragicevic N.B., **Rabchevsky A.G.** and Sullivan P.G. (2003) Characterization of mitochondria from different regions of the rat spinal cord. *J. Neurotrauma* 20(10), p. 1055.
- 38. Cameron A.A., Smith G.M., Randall D.C., Brown D.R. and **Rabchevsky A.G.** (2003) Differential effects of over-expressing nerve growth factor at various levels below thoracic spinal cord injury on autonomic dysreflexia. *Journal of Rehabilitation Research & Development* 40(6), p. 61.
- 39. Cameron A.A., Smith G.M., Randall D.C., Brown D.R. and **Rabchevsky A.G.** (2004) Genetic manipulation of afferent fiber sprouting following spinal cord injury modulates the severity of autonomic dysreflexia. *Society for Neuroscience Annual Meeting*, San Diego, CA

- 40. Cameron A.A., Smith G.M., Randall D.C., Brown D.R. and **Rabchevsky A.G.** (2004) Genetic manipulation of afferent fiber sprouting following spinal cord injury modulates the severity of autonomic dysreflexia. *J. Neurotrauma* 21(9), p. 1271.
- 41. **Rabchevsky A.G.** and Smith G.M. (2004) Gene therapy following spinal cord injury alters sensory fiber sprouting and intraspinal plasticity to modulate the severity of autonomic dysreflexia. *The annual International Spinal Research Trust Symposium*.
- 42. **Rabchevsky, A.G.** (2005) Influence of propriospinal pathway plasticity following spinal cord injury in the development of autonomic dysreflexia. *The 4th Congress of the International Society for Autonomic Neuroscience*, Marseille, France
- 43. Krishnamurthy S., Pandya, J.D., Sullivan P.G. and **Rabchevsky A.G.** (2005) Temporal study of mitochondrial bioenergetics following mid-thoracic spinal cord contusion injury in rats. *J. Neurotrauma* 22(10), p. 1239.
- 44. Krishnamurthy S., Cameron A.A., Lyttle T.S., Schwindel L.E., Carrico K.M. and **Rabchevsky A.G.** (2005) Injury-induced neural plasticity influences the onset of autonomic dysreflexia in rats after complete high thoracic spinal cord transection. *J. Neurotrauma* 22(10), p. 1172.
- 45. Lyttle T.S., Voskresensky I.V., Schwindel L.E., Carrico K.M. and **Rabchevsky A.G.** (2005) Dosedependent recovery of hind limb function with fibroblast growth factor-2 (FGF-2) over-expression at the site of thoracic spinal cord contusion injury. *J. Neurotrauma* 22(10), p. 1222.
- 46. Xiong Y., **Rabchevsky A.G.**, Lyttle T.S., Thompson B.M. and Hall E.D. (2005) Time course of oxidative damage and cytoskeletal degradation after spinal cord contusion injury in rats. *J. Neurotrauma* 22(10), p. 1173.
- 47. Hou S., Duale H., Lyttle T.S. and **Rabchevsky A.G.** (2006) Contribution of propriospinal plasticity to the development of autonomic dysreflexia after complete spinal cord injury. *The annual Kentucky Spinal Cord and Head Injury Research Symposium,* Lexington, KY
- 48. Lyttle T.S., Wallace S.M., Carrico K.M. and **Rabchevsky A.G.** (2006) Improved hind limb locomotor recovery after spinal cord injury with fibroblast growth factor-2 (FGF-2) over-expression is correlated with oligodendrocyte repopulation throughout ventrolateral white matter. *J. Neurotrauma* 23(6), p. 995. *The 24th Annual National Neurotrauma Society Symposium*
- 49. Hou S., Krishnamurthy, S., Cameron A.A., Lyttle T.S. and **Rabchevsky A.G.** (2006) Plasticity of propriospinal neurons correlates with autonomic dysreflexia after complete thoracic spinal cord transection in rat. *J. Neurotrauma* 23(6), p. 1026. *The 24th Annual National Neurotrauma Society Symposium*
- Patel S.P., Pandya J.D., Sullivan P.G. and Rabchevsky A.G. (2007) Effects of mitochondrial uncoupling agent, 2,4-dinitrophenol, or nitroxide antioxidant, Tempol, on mitochondrial integrity following acute contusion spinal cord injury. J. Neurotrauma 24(7), p. 1231. 25th Annual National Neurotrauma Society Symposium, Kansas City, MO
- 51. Hou S.P., Duale H., Cameron A.A., Abshire S.M. and **Rabchevsky A.G.** (2007) Plasticity of lumbosacral propriospinal neurons is associated with the development of autonomic dysreflexia after thoracic spinal cord transection. *The annual Kentucky Spinal Cord and Head Injury Research Symposium*, Lexington, KY
- 52. Duale H., Hou S.P., Derbenev A.V., Smith B.N. and **Rabchevsky A.G.** (2007) Intraspinal plasticity and autonomic dysreflexia after spinal cord injury: a transneuronal tracing study using pseudorabies virus. *The annual Kentucky Spinal Cord and Head Injury Research Symposium*, Lexington, KY

- 53. **Rabchevsky A.G.** (2007) Experimental potentials and clinical pitfalls of SCI therapeutics: Perspectives from a neuroscientist with SCI. *The annual Kentucky Spinal Cord and Head Injury Research Symposium,* University of Kentucky, Lexington, KY
- 54. Hou S., Duale H., Cameron A.A., Abshire S.M. and **Rabchevsky A.G.** (2007) Plasticity of lumbosacral propriospinal neurons is associated with the development of autonomic dysreflexia after thoracic spinal cord transection. *J. Neurotrauma* 24(7), p. 1231. *25th Annual National Neurotrauma Society Symposium*, Kansas City, MO
- 55. Duale H., Hou S., Derbenev A., Smith B.N. and **Rabchevsky A.G.** (2007) Intraspinal plasticity and autonomic dysreflexia after spinal cord injury: a transneuronal tracing study using pseudorabies virus. *J. Neurotrauma* 24(7), p. 1260. *25th Annual National Neurotrauma Society Symposium,* Kansas City, MO
- 56. Hou S., Duale H., Derbenev A.V., Smith B.N. and **Rabchevsky A.G.** (2007) Propriospinal plasticity after spinal cord transection is associated with development of autonomic dysreflexia. *Neurorehab.* & *Neural Repair* 21(6), p. 611.
- 57. Duale H., Hou S., Derbenev A.V., Smith B.N. and **Rabchevsky A.G.** (2008) Severe spinal cord injury dramatically reduces the efficacy of pseudorabies virus labeling of sympathetic preganglionic neurons. *The annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky*, Lexington, KY
- 58. Hou S., Duale H. and Rabchevsky A.G. (2008) Intraspinal sprouting of unmyelinated pelvic afferents after complete spinal cord injury mediates autonomic dysreflexia induced by visceral pain. *The annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky*, Lexington, KY
- 59. Patel S.P., Lyttle T.S., Sullivan P.G. and **Rabchevsky A.G.** (2008) Effect of acetyl-l-carnitine on mitochondrial dysfunction following acute contusion spinal cord injury. *The annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky*, Lexington, KY
- 60. Duale H., Hou S., Derbenev A.V., Smith B.N. and **Rabchevsky A.G.** (2008) Severe spinal cord injury dramatically reduces the efficacy of pseudorabies virus labeling of sympathetic preganglionic neurons. *J. Neurotrauma* 25(7), p. 859. *The 26th Annual National Neurotrauma Society Symposium*, Orlando, FL
- 61. Hou S., Duale H. and **Rabchevsky A.G.** (2008) Intraspinal sprouting of unmyelinated pelvic afferents after complete spinal cord injury mediates autonomic dysreflexia induced by visceral pain. *J. Neurotrauma* 25(7), p. 860. *The 26th Annual National Neurotrauma Society Symposium*, Orlando, FL
- 62. Patel S.P., Lyttle T.S., Sullivan P.G. and **Rabchevsky A.G.** (2008) Effect of acetyl-L-carnitine on mitochondrial dysfunction following acute contusion spinal cord injury. *J. Neurotrauma* 25(7), p. 893. *The 26th Annual National Neurotrauma Society Symposium*, Orlando, FL
- 63. Andrade F.H., Patel S.P., Gamboa J., McMullen C.A. and **Rabchevsky A.G.** (2008) Unexpected constraints of extraocular muscle mitochondrial function: lower respiration rates and enzymatic activity. *Annual meeting of the Association for Research in Vision and Ophthalmology*. Investigative Ophthalmology & Visual Science 49(13) 4490-4490.
- 64. Duale H., Lyttle T.S., Smith B.N. and **Rabchevsky A.G.** (2009) noxious colorectal stimulation in spinalized rats drastically reduces the efficacy of pseudorabies virus labelling of sympathetic preganglionic neurons. *The annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky*, Lexington, KY
- 65. Patel S.P., Lyttle T.S., Sullivan P.G. and **Rabchevsky A.G.** (2009) Mitochondrial targeted interventions following contusion spinal cord injury. *The annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky*, Lexington, KY

- 66. **Rabchevsky A.G.**, Duale H., Lyttle T.S., O'Dell C.R. and Kitzman P.H. (2009) Gabapentin for spasticity and autonomic dysreflexia after severe spinal cord injury. *J. Neurotrauma* 26(8), p. A-65 (pA254). *The 2nd Joint Symposium of the International and National Neurotrauma Societies,* Santa Barbara, CA
- 67. Duale H., Lyttle T.S., Smith B.N. and **Rabchevsky A.G.** (2009) Colorectal distension in spinalized rats reduces the efficacy of pseudorabies virus labelling of kidney-related sympathetic preganglionic neurons. *J. Neurotrauma* 26(8), p. A-42. *The 2nd Joint Symposium of the International and National Neurotrauma Societies.*
- 68. Patel S.P., Lyttle T.S., Sullivan P.G. and **Rabchevsky A.G.** (2009) Mitochondrial targeted interventions following contusion spinal cord injury. J. Neurotrauma 26(8), p. A-33 (pA123). The 2nd Joint Symposium of the International and National Neurotrauma Societies.
- 69. Patel S.P., Lyttle T.S., Sullivan P.G. and **Rabchevsky A.G.** (2010) Acetyl-L-carnitine is neuroprotective and improves functional recovery following contusion spinal cord injury. *The 10th International Conference on Neuroprotective Agents*, Pacific Grove, CA.
- 70. Patel S.P., Sullivan P.G., Lyttle T.S., O'Dell C.R. and **Rabchevsky A.G.** (2010) Effects of acetyl-Lcarnitine on functional recovery and tissue sparing following contusion spinal cord injury. *J. Neurotrauma* 26, p. A-66. *The 28th Annual National Neurotrauma Society Symposium*, Las Vegas, NV
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- 136. Ahmed A.J., Gallegos Z., DeRouchey J.E., Patel S.P., **Rabchevsky A.G.** and Dziubla T.D. (2023) Physiochemical characterization of hyaluronic acid-methylcellulose hydrogels for mitochondria transplantation. *Annual American Institute of Chemical Engineers (AIChE) 2023 meeting: Materials Engineering and Sciences Division.*
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- 138. **Rabchevsky, A.G.** (2023) What is the optimism that regeneration strategies (clinical) can be designed and implemented to restore lost functions after spinal cord injury? *The 18th annual Science & Advocacy Symposium (Working2Walk), Unite 2 Fight Paralysis organization, Minneapolis, MN*
- 139. Jessica L. Nielson, David W. McMillan, Evan C. Lewis, Dominik Zbogar, Ricardo Battaglino, Alexander Rabchevsky, Robert Wudlick, Tegan M. Carr (In Preparation) Muscle spasms and pain reduction in people with spinal cord injury who use psilocybin – results from an anonymous online survey study.