

Curriculum Vitae

ALEXANDER GEORGE RABCHEVSKY, Ph.D.

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Spinal Cord & Brain Injury Research Center (SCoBIRC)
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EDUCATION

- 1990 - 1995 Ph.D. (Neuroscience), University of Florida, Dept Neuroscience, Gainesville, FL
Thesis Title: Intraspinal transplantation of microglia: Studies of host cellular responses and effects on neuritic growth. Mentor: Paul J. Reier, Ph.D.
- 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

- 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 - present Unite 2 Fight Paralysis, Board of Directors, Minneapolis, MN
- 2018 - present NextStep Raleigh, Board of Directors, Raleigh, NC
- 2018 - 2020 North American Spinal Cord Injury Consortium (NASCIIC), Executive Council
- 2017 - present Independence Place KY, Inc., Chairman, Board of Directors, Lexington, KY

Alexander G. Rabchevsky, Ph.D.

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 - 2022	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, COM, 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 one semester behind my class despite missing entire academic year following an accident rendering me paraplegic in 1985, Hampden-Sydney College, VA
1988	Presidential Award for Courageousness, Hampden-Sydney College, VA
1987	Biological 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 strategies. *Locomotor behavior, redox biology, molecular biology, histopathology*

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

GRANT SUPPORT

Active Grants

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

Overall goal is to establish novel techniques to determine the in vivo function of astrosomes. Specific Aims: 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 incorporate pilot studies to understand the function of astrosomes in (changing) physiological conditions (e.g., aging).

Role: Co-I, 0.5 calendar months

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, 0.5 calendar months

Title: Macrophage depletion therapy for spinal cord injury
MPI: Gensel J., Alilain W.
Agency: National Institute of Health/NINDS (5R01 NS116068)
Period: 03/01/2021 - 11/30/2025
Total: \$3,122,635

Main objective of this grant proposal is to investigate a novel therapeutic strategy which modifies the inflammatory response and can potentially lead to protection of the spinal cord after injury, as well as functional recovery. Specific Aims: Aim 1: Determine the effects of acute MD on myelopoiesis, biodistribution, and toxicity after SCI. Aim 2: Evaluate the effects of acute MD on recovery of locomotor, sensory, and autonomic function in chronic SCI rats. Aim 3: Determine the efficacy of acute MD on recovery of respiratory motor and forelimb function after cervical SCI.

Role: Co-I, 0.9 calendar months

Title: Enhanced mitochondrial viability via engineered hydrogels for intrathecal spinal cord delivery
MPI: Rabchevsky A.G., Patel S.P.
Agency: National Institute of Health/NINDS (5R01 NS119337)
Period: 10/01/2020 - 09/31/2025
Total: \$2,253,674

Goal is to test whether administration of NACA or ALC, in combination with intrathecal injection of isolated muscle mitochondria embedded in a biochemically active, thermo-gelling erodible hydrogel foster neuroprotective efficacy.

Role: MPI, 3.0 calendar months

Title: Mitochondrial transplantation & mitochondrial-targeted pharmaceuticals to treat spinal cord injury
PI: Rabchevsky A.G.
Agency: Department of Defense-CDMRP/SCIRP (W81XWH2010347)
Period: 06/01/2020 - 05/31/2023
Total: \$764,927

The proposed experiments are designed to test the protective efficacy of drugs we have reported to target and promote mitochondria to maintain the health of host spinal cord cells, both alone and in combination with novel mitochondrial transplantation (MitoTxp) techniques into the spinal cord for long-term functional recovery following contusion SCI. We also propose to use minimally invasive subdural delivery of mitochondria over the injury site using specialized polymer hydrogels that enable localized diffusion of healthy mitochondria which we have found can diffuse into spinal cord tissues.

Role: PI, 2.4 calendar months

Title: Neurobiology of CNS Injury & Repair Training Grant
MPI: Alilain, W.J., Gensel J.C., Saatman K.E.
Period: 07/01/2017 - 06/30/2027
Agency: National Institutes of Health/NINDS (2T32 NS077889)
Total: \$208,626 per year

Broad-based training in modern research concepts regarding the pathophysiology of neurotrauma.

Role: Training Faculty

Pending Grants

Title: Mild mitochondrial uncoupling to promote neuroprotection after spinal cord injury
MPI: Patel S.P. & Hubbard W.B.
Agency: Department of Defense (CDMRP/SCIRP) No ID-LOI
Period: 04/01/2023 - 03/31/2026
Total: \$905,280

This proposal is built upon the idea that modulating mitochondrial physiology using mild mitochondrial uncoupling will increase proton flux across the inner mitochondrial membrane, thereby lowering mitochondrial membrane potential ($\Delta\Psi_m$) and reducing oxidative stress. Specific Aims: Aim 1, will establish optimal dosage and therapeutic time window of MP201 treatment for mitochondrial bioenergetic improvement following acute contusion SCI. Aim 2 will determine whether the optimal acute dosage regimen of MP201 promotes long-term functional neuroprotection following contusion SCI.

Role: Co-I, 0.6 calendar months

Completed Grants

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

Goal was to employ recombinant DREADD viral vectors to target and chemogenetically silence putative ascending propriospinal in the lumbosacral spinal cord to delineate contribution to autonomic dysreflexia.

Role: Sponsor

Alexander G. Rabchevsky, Ph.D.

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 is to determine whether promoting mitochondrial biogenesis with formoterol post-SCI in male and female mice 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
These studies investigated sarcomeric protein damage and causal mechanisms long after recovery from sepsis in sepsis-surviving 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) Symposium
PI: Rabchevsky, A.G.
Agency: Craig H Neilsen Foundation
Period: 02/2020 – 09/2020
Total: \$10,000 (No Award Number)
Goal of the Symposium was to expose attendees to the most recent research directions and conceptual advances of internationally- recognized scientists who are at the forefront of cell and molecular biology of spinal cord and brain injury research developments.
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)

Alexander G. Rabchevsky, Ph.D.

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 injury

MPI: Rabchevsky A.G. and Stamm S.

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

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 5HT_{2C} 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 injury

PI: 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. Nielsen 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

Title: Mitochondria transplantation for functional recovery after spinal cord injury

PI: VanRooyen J.

Agency: National Institutes of Health/NINDS (F31 NS093904)

Period: 04/01/2016 - 08/28/2017

Total: \$93,420

This proposal was designed to study dose-response transplantation of tGFP mitochondria (culture-derived) to optimize acute bioenergetics to inform effective dosage for long-term behavioral improvements.

Role: Sponsor

Title: Autologous mitochondrial replacement strategies to promote recovery after spinal trauma

PI: Rabchevsky A.G.

Agency: Conquer Paralysis Now (Out of the Box Grant award)

Period: 09/01/2015 - 08/31/2016

Total: \$49,981

This proposal tested whether supplementing healthy mitochondria isolated from exogenous sources into the contused rat spinal cord maintains bioenergetics and promotes functional recovery.

Role: PI, 3.0 calendar months

Title: Ketone body administration to treat spinal cord injury

PI: Patel S.P.

Agency: Craig H. Nielsen Foundation (Pilot Research Grant #260771)

Period: 07/01/2013 - 06/30/2016

Total: \$298,026

These studies assessed whether ketone body administration post-SCI improves acute mitochondrial respiration and whether prolonged treatment results in chronic tissue sparing and hind limb recovery.

Role: Co-I, 1.0 calendar months

Title: Mitochondrial targeted therapeutics for treatment of spinal cord injury

MPI: Rabchevsky A.G., Sullivan P.G.

Period: 05/01/2013 - 12/31/2015

Agency: National Institutes of Health/NINDS (3R01NS069633-03S1) *Supplement for MRI imaging*

Total: \$74,177

Using serial MRI imaging we evaluated DTI-based fractional anisotropy in vivo to predict both terminal histopathology and behavioral recovery in the NACA/ALC studies.

Role: MPI, 2.0 calendar months

Title: Mitochondrial targeted therapeutics for treatment of spinal cord injury

MPI: Rabchevsky A.G., Sullivan P.G.

Agency: National Institutes of Health/NINDS (R01NS069633)

Period: 06/15/2011 - 12/31/2015

Total: \$1,299,376

These studies evaluated the efficacy ALC and/or NACA on bioenergetics of synaptic and non-synaptic mitochondria to establish a therapeutic time window of ALC/NACA combinatorial administration after acute SCI, and whether prolonged ALC treatment increased chronic tissue sparing and hind limb recovery.

Role: 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)

These studies examined the influence of peripheral inflammation on the severity of autonomic dysreflexia in relation to cardiac 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. Nielsen Foundation (Pilot Research Grant #190115)

Period: 09/01/2011 - 08/31/2014

Total: \$274,964

These studies evaluated ALC and/or NACA efficacy on bioenergetics of total mitochondria (mixed synaptic and non-synaptic) to establish a therapeutic time window of ALC/NACA combinatorial administration after acute SCI and whether prolonged ALC treatment results in chronic tissue sparing and hind limb recovery.

Alexander G. Rabchevsky, Ph.D.

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 evaluated ALC efficacy of bioenergetics on total mitochondria (mixed synaptic and non-synaptic) to establish a therapeutic time window of ALC administration after acute SCI and whether prolonged ALC treatment results in increased tissue sparing and hind limb recovery after chronic SCI.

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

Pseudorabies virus (PRV) expressing either PRV-GFP or PRV-RFP was injected into the left kidney and distal colon two weeks after thoracic (T4) transection. Dual labelled lumbosacral propriospinal neurons (GFP & RFP) were 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: \$1,200,467

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 therapies by which the effects of these conditions can be ameliorated.

Role: Training Faculty, 0.2 calendar months

Title: University of Kentucky Spinal Cord & Brain Injury Research Center Core Grant

PI: Hall E.D.

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

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.

Alexander G. Rabchevsky, Ph.D.

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)

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 therapy for spinal cord injury

PI: Rabchevsky A.G.

Agency: American Paraplegia Society (Seed Grant #908)

Period: 11/01/2003 - 10/31/2004

Total: \$16,800

Adenovirus over-expression of FGF2 near the site of injury, alone or with other growth factors affecting differentiation, was done to replenish lost oligodendrocytes and improve functional recovery.

Role: PI, 3.0 calendar months

Title: Gene therapy to improve remyelination and function after spinal cord injury

PI: Rabchevsky A.G.

Agency: University of Kentucky (Medical Center Research Foundation Grant #1051)

Period: 07/15/2003 - 06/30/2003

Total: \$13,500

FGF2 was over-expressed using adenovirus and we examined the behavioral and histological effects of controlled growth factor expression at the injury site or at more distal locations.

Role: PI, 5.0 calendar months

Title: Mechanisms of autonomic dysreflexia following spinal cord injury

PI: Rabchevsky A.G.

Agency: International Spinal Research Trust, UK (Grant #STR063)

Period: 07/12/2002 - 06/11/2005

Total: \$213,705

Modified endogenous cells in the T-4 transected rat spinal cord using adenoviral vectors for NGF and Semaphorin 3a to abolish central sprouting of pain fibers below the level of SCI, which we correlated with the severity of autonomic dysreflexia as measured by increased blood pressure following colon distention.

Role: PI, 3.0 calendar months

Alexander G. Rabchevsky, Ph.D.

Title: Combinational therapies for recovery after spinal cord injury: steroids and growth factors
PI: Rabchevsky A.G. (01/12/2000 - 01/13/2003)
Agency: Kentucky Spinal Cord and Head Injury Research Trust (Grant #9-17)
Total: \$299,247
These studies tested the hypothesis that the combination of i.v. methylprednisolone treatment with intrathecal bFGF infusion after contusion SCI will act synergistically to further enhance recovery.
Role: PI, 5.0 calendar months

DOCTORAL DISSERTATION

Intraspinal transplantation of microglia: Studies of host cellular responses and effects on neuritic growth.
University of Florida, College of Medicine (1995)

PATENTS

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

PEER REVIEW ACTIVITIES

Journal Editor

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_afferent&x=y
2011-2020 World Journal of Neuroscience, *Associate Editor*
2011-2021 Frontiers in Physiology, section Integrative Physiology, *Review Editor*

BIBLIOGRAPHY

Dr. Rabchevsky has a calculated h-index of **39** (Web of Science, 8/2022).

Mean RCR=2.26 Icite <https://icite.od.nih.gov>

h-Index=44/i10-Index=64 6386/4155citations (Google Scholar/Thomas Reuters)

URL publication list: <https://pubmed.ncbi.nlm.nih.gov/?term=Rabchevsky>

ORCID: <https://orcid.org/0000-0002-1991-0915>

PUBLICATIONS (peer reviewed):

1. Helke C.J. and **Rabchevsky A.** (1991) Axotomy alters putative neurotransmitters in visceral sensory neurons of the nodose and petrosal ganglia. *Brain Research* 551(1-2): 44-51. 1991 Epub Jun 14 PMID: 1680528
2. Ichikawa H., **Rabchevsky A.** and Helke C.J. (1993) Presence and coexistence of putative neurotransmitters in carotid sinus baro- and chemoreceptor afferent neurons. *Brain Research* 611(1): 67-74. Epub 1993 May 14 PMID: 8100177
3. **Rabchevsky A.G.** and Streit W.J. (1997) Grafting of cultured microglial cells into the lesioned spinal cord of adult rats enhances neurite outgrowth. *Journal of Neuroscience Research* 47(1): 34-48. Epub 1997 Jan 1 PMID: 8981236
4. **Rabchevsky A.G.**, Weinitz J.M., Couplier M., Fages C., Tinel M. and Junier M.P. (1998) A role for transforming growth factor alpha as an inducer of astrogliosis. *Journal of Neuroscience* 18(24): 10541-10552. Epub 1998 Dec 16 PMID: 9852591 PMCID: PMC6793335
5. **Rabchevsky A.G.**, Degos J.D. and Dreyfus P.A. (1999) Peripheral injections of Freund's adjuvant in mice provoke leakage of serum proteins through the blood-brain barrier without inducing reactive gliosis. *Brain Research* 832(1-2): 84-96. Epub 1999 Jun 22 PMID: 10375654
6. Sullivan P.G., Bruce-Keller A.J., Rabchevsky A.G., Christakos S., St. Clair D.K., Mattson M.P. and Scheff S.W. (1999) Exacerbation of damage and altered NF-kappa B activation in mice lacking tumor necrosis factor receptors after traumatic brain injury. *Journal of Neuroscience* 19(15): 6248-6256. Epub 1999 Jul 22 PMID: 10414954 PMCID: PMC6782813
7. **Rabchevsky A.G.**, Fugaccia I. Fletcher-Turner A., Blades D.A., Mattson M.P. and Scheff S.W. (1999) Basic fibroblast growth factor (bFGF) enhances tissue sparing and functional recovery following moderate spinal cord injury. *Journal of Neurotrauma* 16(9): 817-830. Epub 1999 Nov 16 PMID: 10521141
8. **Rabchevsky A.G.**, Fugaccia I. Fletcher-Turner A., Blades D.A., Mattson M.P. and Scheff S.W. (2000) Basic fibroblast growth factor (bFGF) enhances functional recovery following severe spinal cord injury to the rat. *Experimental Neurology* 164(2): 280-291. Epub 2000 Aug 1 PMID: 10915567
9. Sullivan P.G., **Rabchevsky A.G.**, Hicks M.R.R., Gibson T., Fletcher-Turner A. and Scheff S.W. (2000) Dose response curve and optimal dosing regimen of cyclosporin A after traumatic brain injury in rats. *Neuroscience* 101(2): 289-295. Epub 2000 Nov 14 PMID: 11074152
10. Zhang P., Abraham V.S., Kraft K.R., **Rabchevsky A.G.**, Scheff S.W. and Swain J.A. (2000) Hyperthermic preconditioning protects against spinal cord ischemic injury. *Annals Thoracic Surgery* 70(5): 1490-1495. Epub 2000 Nov 28 PMID: 11093475

11. **Rabchevsky A.G.**, Fugaccia I., Sullivan P.G. and Scheff S.W. (2001) Cyclosporin A (CsA) treatment following spinal cord injury to the rat: behavioral effects and stereological assessment of tissue sparing. *Journal of Neurotrauma* 18(5): 513-22. Epub 2001 Jun 8 PMID: 11393254
12. **Rabchevsky A.G.**, Fugaccia I., Sullivan P.G., Blades D.A. and Scheff S.W. (2002) Efficacy of methylprednisolone therapy for the injured rat spinal cord. *Journal of Neuroscience Research* 68(1): 7-18. Epub 2002 Apr 5. PMID: 11933044
13. Scheff S.W., **Rabchevsky A.G.**, Fugaccia I., Main J.A. and Lump J.E. (2003) Experimental modeling of spinal cord injury: characterization a force-defined injury device. *Journal of Neurotrauma* 20(2): 179-193. Epub 2003 Apr 5 PMID: 12675971
14. **Rabchevsky A.G.**, Sullivan P.G., Fugaccia I. and Scheff S.W. (2003) Creatine diet supplement for spinal cord injury in rats: influences on functional recovery and tissue sparing. *Journal of Neurotrauma* 20(7): 659-669. Epub 2003 Aug 12 PMID: 12908927
15. Hynds D.L., Rangappa N., Ter Beest J., Snow D.M. and **Rabchevsky A.G.** (2004) Microglia enhance dorsal root ganglion outgrowth in Schwann cell cultures. *Glia* 46(2): 218-223. Epub 2004 Mar 26 PMID: 15042588
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7. **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

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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
16. 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
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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.

21. 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
23. **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 DOI: 10.1016/j.expneurol.2020.113332 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
25. Morse L.R., Field-Fote E.C., Contreras-Vidal J., Noble-Haesslein 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
26. Michael F.M. and **Rabchevsky A.G.** (2023) Spinal interneurons and autonomic dysreflexia after injury. Chapter 10; Elsevier Pub (Eds) Lane and Zholudeva <https://doi.org/10.1016/B978-0-12-819260-3.00012-3>

Submitted Manuscripts/Chapters or In Preparation:

Michael F.M., Samir P. Patel and **Rabchevsky A.G.** (*In Preparation*) Concomitant patterns of proinflammatory and immunomodulatory gene and protein expression in spinal cord and spleen following complete high thoracic injury.

Felicia M. Michael, Patel S.P., Vaught H.M., Tharappel, J., and **Rabchevsky A.G.** (*In Preparation*) Reversible chemogenetic silencing of ascending propriospinal neurons modulates hemodynamic changes associated with autonomic dysreflexia in response to noxious stimuli following spinal cord injury.

SEE PUBLISHED ABSTRACTS LISTED AFTER

PROFESSIONAL SYMPOSIA AND WORKSHOPS ATTENDED

PRESS/MEDIA RELEASES/PUBLIC PRESENTATIONS

- 1/2020 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 <http://uknow.uky.edu/research/getchell-memorial-award-honors-graduate%E2%80%99s-persistence-seeking-national-funding>
- 6/2016 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>
- 2/2016 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>
- 10/2012 J. Allyn Taylor International Prize in Medicine Symposium 2012
Western University, Ontario, Canada https://youtu.be/nQl_1Px54UY
- 8/2013 Acetyl-L-Carnitine *PN/Paraplegia News Magazine*
<http://pvamag.com/pn/article/5680/acetyllcarnitine>;
<http://www.healingtherapies.info/Acetyl-L-Carnitine.htm>
- 10/2015 Two University of Kentucky Researchers Awarded Grants from Conquer Paralysis Now
UK Now, University of Kentucky News <http://uknow.uky.edu/content/two-university-kentucky-researchers-awarded-grants-conquer-paralysis-now>
The Lane Report http://www.lanereport.com/56323/2015/10/two-uk-researchers-awarded-grants-from-conquer-paralysis-now/?utm_source=Faster%20Lane%20Newsletter&utm_medium=Email&utm_campaign=oct-28-2015
- 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
- 9/2011 Commonly Used Supplement May Improve Recovery from Spinal Cord Injuries
UK Now, University of Kentucky <http://uknow.uky.edu/content/commonly-used-supplement-may-improve-recovery-spinal-cord-injuries>
Science Daily, <http://www.sciencedaily.com/releases/2011/09/110928185025.htm>

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 - 2022 Physical Therapy-PT 827, Pathophysiology of spasticity and autonomic dysreflexia after spinal cord injury and Spinal cord injury & functional electrical stimulation.
- 2009 - 2022 Neurobiology of CNS Injury & Repair-ANA 605 & PGY 605, Spinal cord injury models and Intraspinal plasticity associated with autonomic dysreflexia after SCI and 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 and Autonomic dysreflexia after spinal cord injury and Post-traumatic demyelination & remyelination.
- 2006 - 2008 Dental Human Function-OBI 814, Neurophysiology.
- 2005 Principles of Neurobiology-ANA 605, Spinal cord injury models and 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, *Autonomic dysreflexia following spinal cord injury.* (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, *Modulating the pathophysiology of autonomic dysreflexia after spinal cord injury.*
- 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, *Spinal cord injury: dysfunctions, clinical treatments, experimental models & therapeutics.* (teleconferences 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, *Plasticity of both sensory axons and propriospinal neurons influences the severity of autonomic dysreflexia after complete spinal cord injury, 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, *Dysfunction after spinal cord injury: Clinical and experimental therapeutics.*
- 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, *Therapeutic interventions following spinal cord injury: clinical treatment to lab bench to clinical trials.*
- 2001 The Reeve-Irvine Research Center, Spinal Cord Injury Techniques Course, University of California at Irvine, Department of Anatomy & Neurobiology, *Growth factor therapy for recovery after spinal cord injury.*

MENTORING

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 advisor; Biomedical Life Scientist at Leidos, MD

Postdoctoral Fellows

- 2019 - 2022 Dr. Felicia Mary Michael, Postdoctoral Scholar, University of Madras, Chennai, India
- 2011 - 2012 Dr. Rachel Hill, IACUC Administrative Professional II, University of Kentucky
- 2006 - 2014 Dr. Samirkumar Patel, Research Associate Professor, Department of Physiology
- 2006 - 2009 Dr. Hanad Duale, CEO at Kare Intellex, Inc. Columbus, OH

Alexander G. Rabchevsky, Ph.D.

- 2005 - 2008 Dr. Shaoping Hou, Assoc Professor, Drexel, Neurobiology & Anatomy, Philadelphia, PA
2005 - 2006 Dr. Sairam Krishnamurthy, Professor of Pharmaceutics, Banaras Hindu University, India
2003 - 2004 Dr. Adrian A. Cameron, faculty associate at University of Melbourne, 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, 2nd Year Med Student, Medical Student Research Program (Fed Work-Study)
2013 Catherine Wang, 2nd Year Med Student, Med Student Research Program (Fed Work-Study)
2003 - 2005 Igor Voskresensky, 2nd Year Medical Student (STEPS Program)
2002 Janna Hackett, 2nd Year Medical Student (Federal Work Study Program)

Undergraduate Researchers

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

Outside Reviewer/Examiner for Ph.D. Dissertation Committees

2022 - present	Rémi Hudelle (UNIL/EPFL, University of Lausanne, Switzerland)
2019 - 2022	Cameron Trueblood (Neurobiology & Anatomy, Drexel University)
2014	Sang Hee Lee (U.K., Nutritional Sciences)
2013	Sarah Figley (Medicine, University of Toronto, CA)
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

2010	Dr. Yanling Yang, Visiting Scholar, Yan'an University Medical School, Yan'an, P.R. China
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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 – <i>Poster Cash Award and the Dean's Lecture Series presentation</i> , 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 - <i>Thomas V. Getchell, PhD, Memorial Award</i> , for excellence in grant writing, Department of Physiology, University of Kentucky
2016	Jenna VanRooyen-Gollihue – Poster Award, <i>The 4th Annual Meeting of the Kentucky Chapter of the American Physiological Society</i> , BioPharmacy Building, University of Kentucky, Lexington, KY

Alexander G. Rabchevsky, Ph.D.

- 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 (Principle Investigator), Mitochondria transplantation for functional recovery after spinal cord injury (Rabchevsky, Sponsor)*
- 2015 Jenna VanRooyen-Gollihue – *Poster Cash Award, Bluegrass Society Neuroscience Day, Civic Center, Lexington, KY*
- 2015 Jenna VanRooyen – *Travel Award Recipient, The 22nd Annual American Society for Neural Therapy and Repair Conference, Clearwater, FL*
- 2015 Jenna VanRooyen – *Poster Selection for Oral Presentation, The 22nd 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, 3rd 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, The 2nd Joint Symposium of the International and National Neurotrauma Societies, Santa Barbara, CA*
- 2008 - 2010 Hanad Duale, PhD – *Principal Investigator (Paralyzed Veterans Administration Research Foundation Fellowship #2561) (Rabchevsky, Sponsor)*
- 2008 - 2009 Joseph Whelan – *Pre-doctoral Scholar Training grant, Therapeutic Strategies for Neurodegeneration Training Grant, NIH-NIDA (1T32 DA022738) (Rabchevsky, Sponsor)*
- 2007 Samir Patel, PhD – *Best Poster, Oral Presentation & Cash Award, The 25th Annual National Neurotrauma Society Symposium, Kansas City, MO*
- 2007 Shaoping Hou, PhD – *Outstanding Student Abstract, The 25th Annual Neurotrauma Society Symposium, Kansas City, MO*

ADMINISTRATIVE DUTIES AND SERVICE

Departmental

- 2019 - 2021 Organizing Committee for the 2021 Kentucky Spinal Cord and Head Injury Research Trust Fund Symposium
- 2018 - 2022 Department of Physiology Research committee
- 2012 SCoBIRC Faculty Retreat Planning committee
- 2007 - 2008 Chair, Organizing Committee for the 2008 14th Annual Kentucky Spinal Cord and Head Injury

Alexander G. Rabchevsky, Ph.D.

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

2018 - 2022 Biomedical Education Committee
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

University

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 Vice President
for Research
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

Outreach

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 *Kentucky Congress on Spinal Cord Injury*, Vice President and co-organizer, Virtual
Symposium to over 150 registrants-Covid-19, Lexington, KY
2019 Seventh Annual *Kentucky Congress on Spinal Cord Injury*, Vice President and co-organizer,
Northeast Christian Church in Hamburg, Lexington, KY
2018 - present Unite 2 Fight Paralysis, Board of Directors member, Minneapolis, MN
2018 - present Delegate to North American Spinal Cord Injury Consortium (NASCIIC)
2018 Sixth Annual *Kentucky Congress on Spinal Cord Injury*, Vice President and co-organizer,
Northeast Christian Church in Hamburg, Lexington, KY

- 2017 - present Independence Place KY, Inc., President, Board of Directors, Lexington, KY
- 2017 Inaugural North American Spinal Cord Injury Consortium (NASCI), Representative of *Kentucky Congress on Spinal Cord Injury*, Airport Hilton, Miami, FL
- 2017 Fifth Annual *Kentucky Congress on Spinal Cord Injury*, 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, *Communication and self-advocacy; Real world situations and solutions*. The 8th Annual Kentucky Appalachian Rural Rehabilitation Network Conference (Sept), Engagement, Communication & Access, Perkins Conference Center, Eastern Kentucky University, Richmond, 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 *Kentucky Congress on Spinal Cord Injury* on the 25th anniversary of the Americans with Disabilities Act (ADA)
- 2015 Moderator of Panel Discussion, *Impact of the ACA from the patient and caregiver point of view*. The 7th 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, *Issues relating to SCI and TBI and caregivers*. The 6th 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, *Health and wellness living with spinal cord injury*. The 5th 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, *Aging with spinal cord injury from the clients point of view*. The 4th 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

Alexander G. Rabchevsky, Ph.D.

- 2011 - 2018 Elkhorn Park Neighborhood Association, Board of Directors, Lexington, KY
- 2011 Chair, *No Barriers University Scientific Symposia*. No Barriers Summit, Winter Park, CO
- 2011 Moderator of Panel Discussion, *Spinal cord injury and issues unique to this condition*. The 3rd 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

NIH Study Sections: panel member

- 2021 NIH 2021/10 ZRG1 BDCN-E (02) M, Special Emphasis Panel (SEP) 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-NIH)

- 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 - 2008 Canadian Institutes of Health Research (CIHR)
- 2006 - 2009 New York State Spinal Cord Injury Research Program

Alexander G. Rabchevsky, Ph.D.

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
2003 State of South Carolina, Spinal Cord Injury Research Fund

Journal Reviewer > 25/year

American Journal of Physiology
Autonomic Neuroscience: Basic and Clinical
Biology
BMC Veterinary Research
Brain Research
Burns and Trauma
Cell Biochemistry & Function
Cell Reports
Cells
Clinical Neurophysiology
European Journal of Neuroscience
Experimental Neurology
Experimental Physiology
Expert Opinion in Pharmacotherapy
Free Radical Biology and Medicine
Frontiers in Neuroscience
Frontiers in Physiology
Glia
Journal of Applied Physiology
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
Mayo Clinic Proceedings
Molecular Neurobiology
Molecular Therapy
Nature Communications
Nature Protocols

Alexander G. Rabchevsky, Ph.D.

Neural Regeneration Research
Neurobiology of Disease
Neuropharmacology
Neuroscience
Neuroscience Letters
The Neuroscientist
Neurotherapeutics
OBM Neurobiology
Pain Management
Physiological Reports
Public Library of Science (PLOS) ONE
Scientific Reports
Spinal Cord
Trends in Neurosciences
The Scientific World
World Journal of Orthopedics

Consulting Activities

- 2021 - present Advisory Board, The Northeast Ohio Regional Spinal Cord Injury System: NORSCIS
90SIMS0007 “Feasibility of gabapentin as an intervention to improve neurologic recovery”
https://search.naric.com/research/pd/redesign_results.cfm?search=1&type=advanced&display=detailed&criteria=&all=gabapentin&exact=&any=feasibility%20&omit=&fld1=PN&txt1=&op1=AND&fld2=PN&txt2=&op2=AND&fld3=PN&txt3=&op3=AND&fld4=PN&txt4=&funding_status=all&state=&start_month=&start_year=&project_type=&funding_priority=&radioSortOrder=start_date|desc|
- 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

Other Service (National/International)

- 2021 Moderator of panel discussion, Beyond the Hype: Brain Computer Interfaces, From Concept to Real World; Regeneration Strategies, The 16th Annual Science & Advocacy *virtual* Symposium, 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 38th Annual National Neurotrauma Society *virtual* symposium
- 2020 Moderator of panel discussion, *Pre-Clinical Research done in laboratory experiments and animal models*. The 15th Annual Working2Walk *virtual* symposium, Unite 2 Fight Paralysis organization
- 2019 - present National Neurotrauma Society, Committee for Advocacy member
- 2019 Co-Chair (with Dr. Dianne Langford), *Targeting mitochondrial medicine to improve functional outcome after CNS injury*. The 37th Annual National Neurotrauma Society Symposium, Pittsburgh, PA
- 2019 Co-Chair (with Drs. Grace Griesbach and Amy Wagner), *What Does Function Mean to Me? Function After SCI & TBI & Advocacy-Roundtable Lunches*. The 37th Annual National Neurotrauma Society Symposium, Pittsburgh, PA
- 2016 Co-Chair (with Dr. Lumy Sawaki), *Engineering approaches for functional restoration after spinal cord*

- injury*. The 34th Annual National Neurotrauma Society Symposium, Lexington, KY
- 2016 Chair, *Management of acute autonomic dysfunction after spinal cord injury*. The 34th 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, *The barrier to axonal regeneration is intrinsic to the neuron*. The 15th 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), *Tissue engineering, neurobionics and transplantation*. The 25th Annual National Neurotrauma Society Symposium, Kansas City, MO
- 2005 Chair, *Spinal cord injury, autonomic nervous system and dysfunction*. The 4th Congress of the International Society for Autonomic Neuroscience, Marseille, France
- 2005 Co-Chair (with Dr. Edward Hall), *Spinal cord injury and neural prostheses*. The 1st Translational Neuroscience Conference, Lexington, KY
- 2004-11 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 10th 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

PROFESSIONAL AFFILIATIONS

- American Society for Neural Transplantation; Neural Therapy and Repair (1994-present)
- Society for Neuroscience (1995-present)
- National Neurotrauma Society (1996-present)
- Sigma Xi, Scientific Research Society (1997-present)

INVITED PRESENTATIONS

LOCAL

- 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

STATE

- 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

NATIONAL/INTERNATIONAL

- 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 and 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 Pathways influencing autonomic reflex dysfunction following spinal cord injury. 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

- 2019 Panel Discussion member, NIH 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], (Feb) NIH Natcher Conference Center, Bethesda, MD
- 2019 The 37th annual Neurotrauma Society Symposium, Pittsburgh, PA
- 2019 The 25th Kentucky Spinal Cord and Head Injury Research Symposium, University of Louisville, Louisville, KY
- 2019 The 22nd Annual American Society for Neural Therapy and Repair Conference, Clearwater, FL
- 2018 - 2020 NASCIC Advisory Team to the Bladder/Bowel Working group; Craig H. Nielsen Foundation
- 2018 The 36th National Neurotrauma Society Symposium, Toronto, Canada
- 2018 The 24th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky, Lexington, KY
- 2018 Society for Neuroscience Annual Meeting, San Diego, CA
- 2017 The 35th National Neurotrauma Society Symposium, Snowbird, UT
- 2017 Panel Discussion Member, Exercise as a therapy for spinal cord injury: How to move physical training from animal models to clinical implementation. The 17th International Symposium on Neural Regeneration, Asilomar Conference, Pacific Grove, CA
- 2017 Society for Neuroscience Annual Meeting, Washington, DC
- 2016 Invited panel participant, NIH/NINDS Workshop (Oct), Spinal Cord Injury Preclinical Data Workshop: Developing a FAIR Share Community, 6001 Executive Blvd., North Bethesda, MD
- 2016 The 34th National Neurotrauma Society Symposium, Lexington, KY
- 2016 Panel Discussion member, *How to move from animal models of spinal cord injury to clinical implementation. Pre-course #2-Progress in Translational Research*. The 42nd Annual Meeting of the American Spinal Injury Association (ASIA), Philadelphia, PA
- 2015 The 33rd National Neurotrauma Society Symposium, Santa Fe, NM
- 2014 The 20th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky, Lexington, KY
- 2014 Society for Neuroscience Annual Meeting, Washington, DC

- 2013 The 31st National Neurotrauma Society Symposium, Nashville, TN
- 2012 Society for Neuroscience Annual Meeting, New Orleans, LA
- 2012 Invited panelist, NIH/NINDS Workshop (June), Optimizing the Predictive Value of Preclinical Research, Washington Plaza Hotel, Washington, DC
- 2012 The 18th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky, Lexington, KY
- 2011 Society for Neuroscience Annual Meeting, Washington, DC
- 2010 The 16th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky, Lexington, KY
- 2009 Invited Stakeholder, Spinal Cord Injury Research Program (SCIRP), DOD & Congressionally Directed Medical Research Programs (CDMRP), Hyatt Dulles, Herndon, VA
- 2008 Invited consultant, Spinal Cord Outcomes Partnership Endeavor (SCOPE) Workshop panel. Functional Recovery after Spinal Cord Injury: Implications of Different Spinal Injury Patterns and Distinct Therapeutic Targets on Clinical Trial Outcomes. Crystal City Hyatt Regency, Arlington, VA
- 2008 The 14th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky, Lexington, KY
- 2008 NIH/NINDS Workshop on Combination Therapies, Panel Member Mechanisms and Targets for Neuroprotection for TBI, Rockville, MD.
- 2007 The 13th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Louisville, Louisville, KY
- 2006 The 12th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky, Lexington, KY
- 2005 The 11th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Louisville, Louisville, KY
- 2004 The 10th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky, Lexington, KY
- 2003 The 9th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Louisville, Louisville, KY
- 2000 The 6th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky, Lexington, KY
- 1999 The 5th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Louisville, Louisville, KY
- 1998 The 4th annual Kentucky Spinal Cord and Head Injury Research Symposium, University of Kentucky, Lexington, KY

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) Intraspinous transplantation of enriched microglia seeded within biodegradable polymeric tubes: Evidence for neuritic ingrowth. *Society for Neuroscience Annual Meeting*, 20: 879.
4. 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.
5. **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.
6. **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.
7. **Rabchevsky A.G.**, Weintz J.M., Couplier 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.
8. **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.
9. **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.
10. **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*.
11. **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.
12. **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.
13. **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*.
14. 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*.
15. 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.
16. 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.

17. 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.
18. **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.
19. 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.
20. 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.
21. **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*.
22. 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*.
23. Fugaccia I., **Rabchevsky A.G.**, Zhang P., Main J.A. and Scheff S.W. (2001) Characterization of a force-based computer controlled spinal cord injury device. *J. Neurotrauma* 18(10), p. 1125.
24. 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.
25. **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.
26. 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.
27. 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*.
28. **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.
29. Cameron A.A., Smith G.M., Randall D.C., Brown D.R. and **Rabchevsky A.G.** (2003) Effects of over-expressing nerve growth factor at different levels below thoracic spinal cord injury on autonomic dysreflexia. *Autonomic Dysfunction after Spinal Cord Injury Symposium*, Banff, Alberta, Canada.
30. 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*.
31. 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.
32. 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.
33. 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.
34. 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

35. 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.
36. 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.
37. 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.
38. Lyttle T.S., Voskresensky I.V., Schwindel L.E., Carrico K.M. and **Rabchevsky A.G.** (2005) Dose-dependent 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.
39. 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.
40. 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. *24th Annual National Neurotrauma Society Symposium*
41. 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. *24th Annual National Neurotrauma Society Symposium*
42. 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, Jul 30-Aug 1*
43. 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*
44. 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*
45. 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.
46. 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*
47. 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*

48. 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
49. 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*.
50. **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
51. 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*.
52. 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*.
53. 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.
54. Patel S.P., Sullivan P.G., Lyttle T.S., O'Dell C.R. and **Rabchevsky A.G.** (2010) Effects of acetyl-L-carnitine 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
55. **Rabchevsky A.G.**, Patel S., Lyttle T.S., O'Dell C.R. and Kitzman P.H. (2010) Effects of chronic versus acute gabapentin administration on spasticity & autonomic dysreflexia after severe spinal cord injury. *J. Neurotrauma* 26, p. A-73. *The 28th Annual National Neurotrauma Society Symposium*, Las Vegas, NV
56. **Rabchevsky A.G.**, Patel S., Lyttle T.S., O'Dell C.R. and Kitzman P.H. (2010) Effects of chronic versus acute gabapentin administration on spasticity & autonomic dysreflexia after severe spinal cord injury. *Society for Neuroscience Annual Meeting*, San Diego, CA.
57. Patel S.P., Lyttle T.S., Sullivan P.G. and **Rabchevsky A.G.** (2011) Mitochondrial dysfunction: a critical target for treatment of acute spinal cord injury. *The 29th Annual National Neurotrauma Society Symposium*, Ft. Lauderdale, FL
58. **Rabchevsky A.G.**, Patel S.P., Lyttle T.S., O'Dell C.R., Eldahan K.C., Donohue, K.D. and Kitzman P.H. (2011) Gabapentin alleviates spasticity and both induced and spontaneous autonomic dysreflexia after severe spinal cord injury. *The 29th Annual National Neurotrauma Symposium*, Ft. Lauderdale, FL
59. Patel S.P., Lyttle T.S., Sullivan P.G. and **Rabchevsky A.G.** (2011) Targeting of mitochondrial dysfunction for treatment of spinal cord injury. *Society for Neuroscience Annual Meeting*, Washington, D.C.
60. **Rabchevsky A.G.**, Patel S.P., Lyttle T.S., O'Dell C.R., Eldahan K.C., Donohue, K.D. and Kitzman P.H. (2011) Gabapentin mitigates both induced and spontaneous autonomic dysreflexia, as well as reflexive spasticity after severe spinal cord injury. *Society for Neuroscience Annual Meeting*, Washington, D.C.
61. Patel S.P., Pandya J.D., Eldahan K.C., Sullivan P.G. and **Rabchevsky A.G.** (2012) N-acetylcysteine amide (NACA) treatment improved mitochondrial bioenergetics and hindlimb functional recovery following contusion spinal cord injury. Selected for oral presentation, *The 30th Annual National Neurotrauma Society Symposium*, Phoenix, AZ
62. Crowdus C., Yu C.-G., Singh R., Power R., Pandya J., Patel S., Sullivan P.G., **Rabchevsky A.G.**, Geddes

- J.W. (2012). Enhancing endogenous protective mechanisms following spinal cord injury. *The 30th National Neurotrauma Society Symposium*, Phoenix, AZ
63. Patel S.P., Sullivan P.G., Pandya J.D., Visavadiya N.P., Eldahan K.C. Kline, R.H. and **Rabchevsky A.G.** (2012) Neuroprotective effects of N-acetylcysteine amide (NACA) following contusion spinal cord injury in rats. *Society for Neuroscience Annual Meeting*, 252.19/M18, New Orleans, LA
64. **Rabchevsky A.G.**, Eldahan K.C., Kline R.H. and Patel S.P. (2012) Mitigation of autonomic dysreflexia by gabapentin treatment after complete spinal cord injury: Effects on pERK expression in spinal cord neurons and neuroglial cells. *Society for Neuroscience Annual Meeting*, New Orleans, LA
65. 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. (2012) Development of a database of preclinical spinal cord injury models. *Society for Neuroscience Annual Meeting*, New Orleans, LA
66. Patel S.P., Sullivan P.G., Yonutas H.M., VanRooyen J.L., Pandya J.D., Eldahan K.C., and **Rabchevsky A.G.** (2013) Effects of continuous subcutaneous delivery of N-acetylcysteine amide (NACA) on acute and chronic pathophysiology after spinal cord injury”. Selected for oral presentation, *The 31th Annual National Neurotrauma Society Symposium*, Nashville, TN *J. Neurotrauma* 30, p. A-18.
67. Patel S.P., Sullivan P.G., Yonutas H. M., VanRooyen J.L., Eldahan K.C. and **Rabchevsky A.G.** (2013) Effects of continuous N-acetylcysteine amide (NACA) treatment on acute and chronic pathophysiology after contusion spinal cord injury. *Society for Neuroscience Annual Meeting*, San Diego, CA
68. **Rabchevsky A.G.**, Eldahan K.C., Nall D.A., VanRooyen J.L., Wang C.Y., Patel S.P. (2013) Influences of systemic inflammation and gabapentin on the severity of autonomic dysreflexia in relation to the expression of inflammatory cytokines in both visceral and neural tissues. *Society for Neuroscience Annual Meeting*, San Diego, CA
69. Patel S.P., VanRooyen J.L., Visavadiya N.P., Smith T.L., Sullivan P.G. and **Rabchevsky A.G.** (2014) Treatment with ketone bodies preserves mitochondrial function and reduces oxidative stress following contusion spinal cord injury. *Society for Neuroscience Annual Meeting*, Washington, D.C.
70. **Rabchevsky A.G.**, Eldahan K.C., VanRooyen J.L., Wang C.Y., Smith T.L., Cox D.H. and Patel S.P. (2014) Gabapentin management of autonomic dysreflexia: Effects on systemic inflammation. *Society for Neuroscience Annual Meeting*, Washington, D.C.
71. VanRooyen J.L., Patel S.P., Eldahan K.C., Smith T.L., Cox D.H. and **Rabchevsky A.G.** (2015) Mitochondrial supplementation after spinal cord injury maintains cellular bioenergetics, *Bluegrass Society for Neuroscience Day*, Lexington Convention Center, Lexington, KY
72. VanRooyen J.L., Patel S.P., Eldahan K.C., Smith T.L., Cox D.H. and **Rabchevsky A.G.** (2016) Mitochondrial transplantation into the injured spinal cord improves bioenergetic integrity. *Keystone Symposium on Mitochondrial Dynamics*, Steamboat Springs, CO
73. VanRooyen J.L., Patel S.P., Eldahan K.C., Smith T.L., Cox D.H. and **Rabchevsky A.G.** (2015) Mitochondrial transplantation to restore cellular bioenergetics after spinal cord injury. *The 22nd Annual American Society for Neural Therapy and Repair Conference*, Clearwater, FL
74. Pharmacological manipulation of mTOR activity to modulate maladaptive intraspinal plasticity and autonomic dysreflexia. Eldahan K.C., VanRooyen J.L., Patel S.P. and **Rabchevsky A.G.** (2015) *The 33rd Annual National Neurotrauma Society Symposium*, Santa Fe, NM *J. Neurotrauma* 32, p. A-38.

75. Synergistic effects of β -hydroxybutyrate and acetyl-L-carnitine on mitochondrial function after spinal cord injury. Patel S.P., VanRooyen J.L. Sullivan P.G. and **Rabchevsky A.G.** (2015) *The 33rd Annual National Neurotrauma Society Symposium*, Santa Fe, NM *J. Neurotrauma* 32, p. A-118.
76. Pharmacological manipulation of maladaptive plasticity to prevent autonomic dysreflexia. Eldahan K.C., VanRooyen J.L., Patel S.P. and **Rabchevsky A.G.** (2015) *The 16th International Symposium on Neural Regeneration*, Asilomar Conference, Pacific Grove, CA
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