

CURRICULUM VITAE CONTENT

- I. CONTACT INFORMATION**
- II. EDUCATION**
- III. NON-ACADEMIC PROFESSIONAL EXPERIENCE**
- IV. ACADEMIC APPOINTMENTS**
- V. HONORS & AWARDS**
- VI. RESEARCH & SCHOLARLY ACTIVITY**
 - a. PUBLICATIONS**
 - b. PROJECTS**
 - c. PRESS/MEDIA RELEASES**
 - d. ADMINISTRATIVE DUTIES, SERVICE, OUTREACH**
- VII. INSTRUCTION**
 - a. COURSE DIRECTOR**
 - b. FORMAL INSTRUCTION**
 - c. MENTORING/ADVISING**
- VIII. PROFESSIONAL MEMBERSHIPS AND SERVICE**
- IX. CONSULTING**
- X. VOLUNTEER ACTIVITIES**
- XI. SPEAKING ENGAGEMENTS**
- XII. PUBLISHED ABSTRACTS**
- XIII. PROFESSIONAL SYMPOSIA ATTENDED**

CURRICULUM VITAE

08/04/2025

- I. CONTACT** Alexander George Rabchevsky, Ph.D.
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- II. EDUCATION**
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|-------------|---|
| 1990 - 1995 | Ph.D. (Neuroscience), University of Florida, Dept Neuroscience, Gainesville, FL |
| 1983 - 1988 | B.S. (Biology), Hampden-Sydney College, Hampden-Sydney, VA |
- III. NON-ACADEMIC PROFESSIONAL EXPERIENCE**
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| 1988 - 1990 | Biological Laboratory Technician, Department of Pharmacology, Uniformed Services University of the Health Sciences, Bethesda, MD |
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- IV. ACADEMIC APPOINTMENTS**
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| 2013 - 2025 | Professor (tenured), Department of Physiology, Spinal Cord & Brain Injury Research Center, University of Kentucky College of Medicine |
| 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, Univ. Kentucky |
| 1995 - 1997 | Foreign Postdoctoral Fellow, INSERM Unité 421, University of Paris XII School of Medicine, Creteil, France |
| 1992 - 1995 | Graduate Teaching Assistant, Medical & Veterinary Neuroscience, University of Florida College of Medicine, Gainesville, FL |
| 1990 - 1995 | Graduate Research Assistant, University Florida College of Medicine, Gainesville, FL |

V. HONORS & AWARDS

Academic

2023	Sabbatical, Visiting Professorship, University of British Columbia, International Collaboration on Repair Discoveries (ICORD), Vancouver, BC
2013	James W. Holsinger Award for Excellence in Teaching, Department of Physiology and the College of Medicine, University of Kentucky
2008	James W. Holsinger Award for Excellence in Teaching, Department of Physiology and the College of Medicine, University of Kentucky
2006	Abraham Flexner Master Educator Award for Outstanding Teaching Contribution, Center for Excellence in Medical Education, University of Kentucky
2004 - 2023	Charles T. Wethington Award, Excellence in Research, University of Kentucky
2004 - 2024	Endowed Chair #1, Spinal Cord & Brain Injury Center, 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) <i>Declined</i>
1994	Poster Excellence Award, 12 th National Neurotrauma Society Symposium, Miami, FL
1994	Graduate Assistant Teaching Award, Medical Neuroscience, University of Florida, Gainesville, FL
1991 - 1993	Pre-Doctoral Studentship, "Rick Hansen Man in Motion" Legacy Fund, Canada, Dept of Neuroscience, University of Florida, Gainesville, FL
1988	Graduated semester behind class despite missing entire academic year following paralyzing accident in 1985, Hampden-Sydney College, VA
1988	Presidential Award for Courageousness, Hampden-Sydney College, VA
1987	Fellowship in Molecular Genetics, Biology Depart, Emory University, Atlanta, GA
1987	Presidential Award for Leadership and Character, Hampden-Sydney College, Hampden-Sydney, VA

Non-Academic

2022 - 2024	Unite 2 Fight Paralysis, President, Board of Directors, Minneapolis, MN
2023	20 th International Symposium on Neural Regeneration, SAB, Stevenson, WA
2020	Albert Nelson Marquis Lifetime Achievement Award, Marquis Who's Who
2019	Tom Gravitt Advocacy Award, Kentucky Congress on Spinal Cord Injury
2019	Friend of Year Award, Friends for Michael, Inc. Spinal cord injury org, KY
2018 - present	Unite 2 Fight Paralysis (U2FP), Board of Directors, Minneapolis, MN
2018 - present	NextStep Raleigh, Board of Directors, Raleigh, NC
2018 - present	Delegate, North American Spinal Cord Injury Consortium (NASCIC)
2018 - 2020	North American SCI Consortium (NASCIC), Executive Council

2017 - 2023	Independence Place KY (IPKY), Inc., Board of Directors, Chairman, Lexington, KY
2016 - 2019	National Neurotrauma Society, Council Member
2016 - present	Rabchevsky Foundation established, a Donor Advised Fund of Renaissance Charitable Foundation; Alexander G. Rabchevsky founder
2015	Invited by Governor Steve Beshear to the state Capitol in Frankfort, KY to sign proclamation recognizing the KCSCI on the 25 th anniversary of the Americans with Disabilities Act (ADA)
2013 - present	Kentucky Congress on Spinal Cord Injury (KCSCI), co-Founder & Vice President
2010 - 2019	No Barriers USA, Board of Directors member, Fort Collins, CO

VI. RESEARCH & SCHOLARLY ACTIVITY

DOCTORAL DISSERTATION

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

Thesis Advisor: Paul J. Reier, Ph.D.

RESEARCH INTERESTS

- Pathophysiology, neuroplasticity, and modulation of autonomic dysreflexia
- Mitochondrial dysfunction in the temporal neuropathology following neurotrauma
- ‘Mitoceticals’ to maintain mitostasis and neuroprotection after spinal trauma
- Alleviation of muscle spasticity with pharmaceuticals and antisense oligonucleotides
- Intraspinal and intrathecal transplantation of healthy mitochondria at injury sites
- Pathophysiology of bowel dysfunction and methods of management

PUBLICATIONS

Calculated h-Index of 43 (Web of Science, 08/2025)

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

h-Index = 49/i10-Index = 70; 8169/5330 citations (Google Scholar/Web of Science-Thomas Reuters) <https://www.webofscience.com/wos/author/record/2298115,52083451>

Mean RCR = 2.27 Icite <https://icite.od.nih.gov>

a. PEER-REVIEWED JOURNAL ARTICLES

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 Lumppp 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
 16. Sullivan P.G., **Rabchevsky A.G.**, Keller J.N., Lovell M.A., Sodhi A., Hart R.P. and Scheff S.W. (2004) Intrinsic differences in isolated brain and spinal cord mitochondria: Implication for therapeutic interventions. *Journal of Comparative Neurology* 474(4): 524-534. Epub 2004 Jun 3 DOI: 10.1002/cne.20130 PMID: 15174070
 17. Cameron A.A., Smith G.M., Randall D.C., Brown D.R. and **Rabchevsky A.G.** (2006) Genetic manipulation of intraspinal plasticity after spinal cord injury alters the severity of autonomic dysreflexia. *Journal of Neuroscience* 26(11): 2923-2932. Epub 2006 Mar 17 PMID: 16540569, PMCID: PMC3535471
 18. Xiong Y., **Rabchevsky A.G.** and Hall E.D. (2007) Role of peroxynitrite in secondary oxidative damage after spinal cord injury. *Journal of Neurochemistry* 100(3): 639-649. Epub 2006 Dec 22 DOI: 10.1111/j.1471-4159.2006.04312.x PMID: 17181549
 19. **Rabchevsky A.G.**, Sullivan P.G. and Scheff S.W. (2007) Temporal-spatial dynamics in oligodendrocyte and glial progenitor cell numbers throughout ventrolateral white matter following contusion spinal cord injury. *Glia* 55(8): 831-843. Epub 2007 Mar 29 PMID: 17390308 DOI: 10.1002/glia.20508
 20. Sullivan P.G., Krishnamurthy S., Patel S.P., Pandya J.D. and **Rabchevsky A.G.** (2007) Temporal characterization of mitochondrial bioenergetics after spinal cord injury. *Journal of Neurotrauma* 24(6): 991-999. Epub 2007 Jun 30 DOI: 10.1089/neu.2006.0242 PMID: 17600515
 21. *Ziemba K.S., Chaudhry N., **Rabchevsky A.G.**, Jin Y. and Smith G.M. (2008) Targeting axon growth from neuronal transplants along preformed guidance pathways within the adult CNS. *Journal of Neuroscience* 28(2): 340-348. Epub 2008 Jan 11 PMID: 18184776, PMCID: PMC6670506 *Featured article
 22. Hou S.P., Duale H., Cameron A.A., Abshire S.M., Lyttle T.S. and **Rabchevsky A.G.** (2008) Plasticity of lumbosacral propriospinal neurons is associated with the development of autonomic dysreflexia after thoracic spinal cord transection. *Journal of Comparative Neurology* 509(4): 382-399. Epub 2008 June 3 PMID: 18512692, PMCID: PMC2536612

23. Patel S.P., Pandya J.D., Sullivan P.G. and **Rabchevsky A.G.** (2009) Differential effects of the mitochondrial uncoupling agent, 2,4-dinitrophenol, or the nitroxide antioxidant, Tempol, on synaptic or nonsynaptic mitochondria after spinal cord injury. *Journal of Neuroscience Research* 87(1): 130-140. Epub 2008 Aug 19 PMID: 18709657, PMCID: PMC5291118
24. Patel S.P., Gamboa J.L., McMullen C.A., **Rabchevsky A.G.** and Andrade F.H. (2009) Lower respiratory capacity in extraocular muscle mitochondria: evidence for intrinsic differences in mitochondrial composition and function. *Investigative Ophthalmology & Visual Science* 50(1): 180-186. Epub 2008 Sep 16 PMID: 18791171, PMCID: PMC2615070
25. Hou S.P., Duale H. and **Rabchevsky A.G.** (2009) Intraspinal sprouting of unmyelinated pelvic afferents after complete spinal cord injury is correlated with autonomic dysreflexia induced by visceral pain. *Neuroscience* 159(1): 369-379. Epub 2008 Dec 24. PMID: 19146928, PMCID: PMC3546483
26. Duale H., Hou S.P., Derbenev A.V., Smith B.N. and **Rabchevsky A.G.** (2009) Spinal cord injury reduces the efficacy of pseudorabies virus labeling of sympathetic preganglionic neurons. *Journal of Neuropathology and Experimental Neurology* 68(2): 168-178. Epub 2009 Jan 20 PMID: 19151624, PMCID: PMC2748969
27. Derbenev A.V., Duale H., **Rabchevsky A.G.** and Smith B.N. (2010) Electrophysiological characteristics of identified kidney-related neurons in adult rat spinal cord slices. *Neuroscience Letters* 474(3): 168-172. Epub 2010 Mar 18. PMID: 20303390, PMCID: PMC2863015
28. Patel S.P., Sullivan P.G., Lyttle T.S. and **Rabchevsky A.G.** (2010) Acetyl-L-carnitine ameliorates mitochondrial dysfunction following contusion spinal cord injury. *Journal of Neurochemistry* 114(1): 291-301. Epub 2010 Apr 23 PMID: 20438613, PMCID: PMC2897952
29. Duale H., Lyttle T.S., Smith B.N. and **Rabchevsky A.G.** (2010) Noxious colorectal distention in spinalized rats further reduces pseudorabies virus labeling of sympathetic neurons. *Journal of Neurotrauma* 27(8): 1369-1378. Epub 2010 Jun 7 PMID: 20528165, PMCID: PMC2967825
30. **Rabchevsky A.G.**, Patel S.P., Duale H., Lyttle T.S., O'Dell C.R. and Kitzman P.H. (2011) Gabapentin for spasticity & autonomic dysreflexia after severe spinal cord injury. *Spinal Cord* 49(1): 99-105. Epub 2010 Jun 1 PMID: 20514053, PMCID: PMC2953609
31. Onifer S.M., Zhang O., Whitnel-Smith L.K., Raza K., O'Dell C.R., Lyttle T.S., **Rabchevsky A.G.**, Kitzman P.H., Burke D.A. (2011) Horizontal ladder task-specific re-training in adult rats with contusive thoracic spinal cord injury. *Restorative Neurology & Neuroscience* 29(4): 275-86. Epub 2011 Jun 24 PMID: 21697591, PMCID: PMC3544551
32. Zhang X., Patel S.P., McCarthy J.J., **Rabchevsky A.G.**, Goldhamer, D.J. and Esser K.A. (2012) A non-canonical e-box within the myoD core enhancer is necessary for circadian expression in skeletal muscle. *Nucleic Acids Research* 1-12, Advance Access published December 30, 2011. Epub 2012 Jan 3 PMID: 22210883, PMCID: PMC3333858

33. Patel S.P., Sullivan P.G., Lyttle T.S., Magnuson D.S.K. and **Rabchevsky A.G.** (2012) Acetyl-L-carnitine treatment following spinal cord injury improves mitochondrial function correlated with remarkable tissue sparing and functional recovery. *Neuroscience* 210: 296-307. Epub 2012 Mar 15. PMID: 22445934, PMCID: PMC3358433
34. **Rabchevsky A.G.**, Patel S.P., Lyttle T.S., Eldahan K.C., O'Dell C.R., Zhang Y., Popovich P.G., Kitzman P.H., and Donohue, K.D. (2012) Effects of gabapentin on muscle spasticity and both induced as well as spontaneous autonomic dysreflexia after complete spinal cord injury. *Frontiers in Physiology* 3: 329-350. Epub 2012 Aug 31 PMID: 22934077, PMCID: PMC3429097
35. Zhang Y., Guan Z., Reader B., Shawler T., Mandrekar-Colucci S., Huang K., Weil Z., Bratasz A., Wells J., Powell N.D., Sheridan J.F., Whitacre C.C., **Rabchevsky A.G.**, Nash M.S. and Popovich P.G. (2013) Autonomic dysreflexia causes chronic immune suppression after spinal cord injury. *Journal of Neuroscience* 33(32): 12970-12981. Epub 2013 Aug 9 PMID: 23926252, PMCID: PMC3735880
36. Nielson J.L., Guandique C.F., Liu A.W., Muraru V., Burke D.A., Lash A.T., Kline R.H. IV, Moseanko R., Hawbecker S., Strand S.C., Zdunowski S., Irvine K.A., Brock J.H., Rosenzweig E.S., Nout Y.S., Gensel J.C., Anderson K.D., Magnuson D.S.K., Whittemore S.R., McTigue D.M., Popovich P.G., **Rabchevsky A.G.**, Steward O., Courtine G., Edgerton V.R., Tuszynski M.H., Beattie M.S., Bresnahan J.C. and Ferguson A.R. (2014) Development of a database for translational spinal cord injury research. *Journal of Neurotrauma* 31: 1789-1799 Epub 2014 July 31 PMID: 25077610, PMCID: PMC4186058
37. #Patel S.P.*, Sullivan P.G.*, Pandya J.D., Goldstein G.A., VanRooyen J.L., Yonutas H.M., Eldahan K.C., Morehouse J., Magnuson D.S.K. and **Rabchevsky A.G.** (2014) N-acetylcysteine amide preserves mitochondrial bioenergetics and improves functional recovery following spinal trauma. *Experimental Neurology* 257: 95-105. Epub 2014 May 5 PMID: 24805071, PMCID: PMC4114148 *authors contributed equally #Featured in editorial (EN 261: 291-97)
38. #Pandya J.D., Readnower R.D., Patel S.P., Yonutas H.M., Pauly J.R., Goldstein G.A., **Rabchevsky A.G.** and Sullivan P.G. (2014) N-acetylcysteine amide confers neuroprotection, improves bioenergetics and behavioral outcome following TBI. *Experimental Neurology* 257: 106-113 Epub 2014 May 1 PMID: 24792639, PMCID: PMC4086163 #Featured in editorial (Semple B.D. Exp Neurol 261: 291-97)
39. Kwon B.K., Streijger F., Hill C.E., Anderson A.J., Bacon M., Beattie M.S., Blesch A., Bradbury E.J., Brown A., Bresnahan J.C., Case C.C., Colburn R.W., David S., Fawcett J.W., Ferguson A.R., Fischer I., Floyd C.L., Gensel J.C., Houle J.D., Jakeman L.B., Jeffery N.D., Jones L.A., Kleitman N., Kocsis J., Lu P., Magnuson D.S., Marsala M., Moore S.W., Mothe A.J., Oudega M., Plant G.W., **Rabchevsky A.S.**, Schwab J.M., Silver J., Steward O., Xu X.M., Guest J.D., Tetzlaff W. (2015) Large animal and primate models of spinal cord injury for the testing of novel therapies. *Experimental Neurology* 269:154-168. Epub 2015 April 19 DOI: 10.1016/j.expneurol.2015.04.008 PMID: 25902036

40. Patel S.P.*, Smith T.D.*, VanRooyen J.L., Powell D., Cox D.H., Sullivan P.G. and **Rabchevsky A.G.** (2016) Serial diffusion tensor imaging in vivo predicts long-term functional recovery and histopathology in rats following different severities of spinal cord injury. *Journal of Neurotrauma* 33:917-928 Epub 2015 Dec 9 PMID: 26650623, PMCID: PMC4876527 *authors contributed equally
41. Visavadiya N.P.*, Patel S.P.*, VanRooyen J.L., Sullivan P.G. and **Rabchevsky A.G.** (2016) Cellular and subcellular oxidative stress parameters following severe spinal cord injury. *Redox Biology* 8: 59-67. Epub 2015 Dec 30 PMID: 26760911, PMCID: PMC4712315 *authors contributed equally
42. Rau K.K., Hill C.E., Harrison B.J., Venkat G., Koenig H.M., Cook S.B, **Rabchevsky A.G.**, Taylor B.K., Hai T. and Petruska J.C. (2016) Cutaneous tissue damage induces long-lasting nociceptive sensitization and regulation of cellular stress- and nerve injury-associated genes in sensory neurons. *Experimental Neurology* S0014-4886(16)30159-5. Epub 2016 June 2 PMID: 27264359, PMCID: PMC4992590
43. Zhang Z., Shen M., Gresch P., Ghamari-Langroudi M., **Rabchevsky A.G.**, Emeson R. and Stamm S. (2016) Oligonucleotide-induced alternative splicing of serotonin 2C receptor reduces food intake. *EMBO Molecular Medicine* 8(8): 878-894. Epub 2016 June 9 PMID: 27406820, PMCID: PMC4967942
44. Patel S.P.*, Cox D.H.*, Gollihue J.L., Bailey W.M., Geldenhuys W.J., Gensel J.C., Sullivan P.G. and **Rabchevsky A.G.** (2017) Pioglitazone treatment following spinal cord injury maintains acute mitochondrial integrity and increases chronic tissue sparing and functional recovery. *Experimental Neurology* 293 74-82. Epub 2017 March 30 PMID: 28365473, PMCID: PMC5473659 *authors contributed equally
45. Gollihue J.L., Patel S.P., Mashburn C., Eldahan K.C., Sullivan P.G. and **Rabchevsky A.G.** (2017) Optimization of mitochondrial isolation techniques for intraspinal transplantation procedures. *Journal of Neuroscience Methods* 287: 1-12. Epub 2017 May 26 PMID: 28554833, PMCID: PMC5533517
46. Eldahan K.C., Cox DH, Gollihue, J.L., Patel S.P. and **Rabchevsky A.G.** (2017) Rapamycin exacerbates cardiovascular dysfunction after complete high-thoracic spinal cord injury. *Journal of Neurotrauma* 35:842-853. Epub 2017 Dec 15 PMID: 29205090, PMCID: PMC5863090
47. 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
48. Gollihue J.L., Patel S.P., Mashburn C., Eldahan K.C., Cox D.H., Donahue R.R., Taylor B.K., Sullivan P.G. and **Rabchevsky A.G.** (2018) Effects of mitochondrial transplantation on bioenergetics, cellular incorporation and functional recovery after spinal cord injury. *Journal of Neurotrauma* 35:842-853. Epub 2017 Dec 15 PMID: 29205090, PMCID: PMC6053898
49. Scholpa N.E., Williams H., Wang W., Corum D., Narang A., Tomlinson S., Sullivan P.G., **Rabchevsky A.G.** and Schnellmann R.G. (2019) Pharmacological stimulation of mitochondrial biogenesis using the FDA-approved β 2-adrenoreceptor agonist formoterol for the treatment of spinal cord injury. *Journal of Neurotrauma* 36:962-

972. Epub 2018 Nov 16 PMID: 30280980, PMCID: PMC6484358
50. Owen A.M., Patel S.P., Smith J.D., Belasuriya B.K., Mori S.F., Hawk G.S., Stromberg A.J., Kuriyama N., Kaneki M., **Rabchevsky A.G.**, Butterfield T.A., Esser K.A., Peterson C.A., Starr M.E. and Saito H. (2019) Chronic muscle weakness and mitochondrial dysfunction in the absence of sustained atrophy in a preclinical sepsis model. *eLife* v. 8, e49920, p. 1-25. Epub 2019 Oct 19 DOI: 10.7554/eLife.49920 PMID: 31793435, PMCID: PMC6890461
 51. Eldahan K.C., Williams H.C., Cox D.H., Gollihue J.L., Patel S.P. and **Rabchevsky A.G.** (2020) Paradoxical effects of continuous high dose gabapentin treatment on autonomic dysreflexia after complete spinal cord injury. *Experimental Neurology* 209: 59-70. Epub 2019 Oct 31 PMID: 31678138, PMCID: PMC9204647
 52. 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.; **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
 53. 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
 54. Morse L.R., Field-Fote E.C., Contreras-Vidal J., Noble-Haeusslein L.J., Rodreick M., Shields R.K., Sofroniew M., Wudlick R., Zanca J.M., **SCI 2020 Working Group** (2021) Meeting proceedings for SCI 2020: Launching a decade of disruption in spinal cord injury research. *Journal of Neurotrauma* 1:38(9):1251-1266. Epub 2021 Feb 3 DOI: 10.1089/neu.2020.7174 PMID: 33353467
 55. Hart S.H., Patel S.P., Michael F.M., Stoilov P., Leow C.J., Hernandez A., Jolly A., de la Grange P., **Rabchevsky A.G.**, Stamm S. (2022) Rat spinal cord injury associated with spasticity leads to widespread changes in the regulation of retained introns. *Neurotrauma Reports* 3(1): 105-121. Epub 2022 Mar 4 DOI: 10.1089/neur.2021.0042 PMCID: PMC8985541
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a. PEER-REVIEWED REVIEWS, ESSAYS AND CHAPTERS

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19. 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
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21. Michael F.M. and **Rabchevsky A.G.** (2023) Spinal interneurons and autonomic dysreflexia after injury. In: *Spinal Interneurons: Plasticity after spinal cord injury*. Zholudeva L. and Lane M. (Eds.), Elsevier, Chapter 11, pp 297-310. <https://doi.org/10.1016/B978-0-12-819260-3.00001-9>

b. PROJECTS - GRANT SUPPORT

Title: Function ceramide 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
Developed novel drugs that antagonize ceramide to delay the onset of or prevent neurodegeneration in AD. Specific Aim 1 characterization and neurotoxicity in neurons (Specific Aim 2) to prevent AD pathology will test improved cognition independent of sex (Specific Aim 3).
Role: Co-I, 0.4 calendar months

Title: Novel experimental models to study 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
Established novel techniques to determine the in vivo function of astrosomes. We proposed to establish novel techniques and models for EV functional analysis. We will study the function of astrosomes in physiological conditions (e.g., aging).
Role: Co-I, 0.4 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 - 06/30/2025
Total: \$2,253,674
Tested 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, 2.4 calendar months

Title: Neurobiology of CNS Injury & Repair Training Grant
MPI: Alilain, W.J., Gensel J.C., Saatman K.E.
Agency: National Institutes of Health/NINDS (2T32 NS077889)
Period: 07/01/2017 - 06/30/2027
Total: \$208,626 per year
Broad-based training in modern research concepts regarding the pathophysiology of neurotrauma.
Role: Training Faculty, effort as needed

Title: Macrophage depletion therapy (MD) 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
 Aim 1: effects of acute MD on myelopoiesis, biodistribution, and toxicity after SCI. Aim 2: effects of acute MD on recovery of locomotor, sensory, and autonomic function in chronic SCI rats. Aim 3: efficacy of acute MD on recovery of respiratory motor and forelimb function after cervical SCI.
 Role: Co-I, 0.9 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
 Tested the protective efficacy of mitoceuticals both alone and in combination with novel mitochondrial transplantation (MitoTxp) into the spinal cord, as well as minimally invasive subdural delivery of mitochondria within specialized polymer hydrogels.
 Role: PI, 2.4 calendar months

Title: TBI-induced exosome release accelerates Alzheimer's disease pathology
 PI: Bieberich E.
 Agency: Veterans Administration Medical Center, Lexington, KY (1 I01 BX003643-01A2)
 Period: 04/01/19 - 03/31/23
 Total: \$942,187
 Interrupt TBI-induced exosome secretion to prevent/delay onset of Alzheimer's disease.
 Role: Co-I, 0.3 calendar months

Title: Pharmacological inhibition of ceramide production in mitochondria as treatment for Alzheimer's disease
 PI: Crivelli, S. (Bieberich sponsor)
 Agency: BrightFocus Foundation
 Period: 09/01/2020 - 01/31/2023
 Total: \$200,000
 Tested whether pharmacological inhibition of ceramide production in mitochondria may inform possible interventions in Alzheimer's models.
 Role: Co-I, effort as needed

Title: Chemogenetic silencing of interneurons to modulate autonomic dysreflexia
 PI: Michael, F.M.
 Agency: Craig H. Neilsen Foundation (Postdoctoral Fellowship #651019)
 Period: 06/01/20 - 07/31/2022

Total: \$150,000
 Employed recombinant DREADD viral vectors to target and chemogenetically silence putative ascending propriospinal neurons to delineate contribution to autonomic dysreflexia.

Role: Sponsor

Title: Neurobiology of CNS Injury & Repair Training Grant
 MPI: Hall, E.D., Geddes, J.W.
 Period: 07/01/2017 - 06/30/2022
 Agency: National Institutes of Health/NINDS (T32 NS077889)
 Total: \$1,200,467
 Broad-based training in 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
 PI: Schnellmann, R.
 Agency: Department of Defense (CDMRP/SCIRP; W81XWH1910175)
 Period: 10/01/2019 - 05/31/2022
 Total: \$350,000
 Determined whether promoting mitochondrial biogenesis with formoterol post-SCI in mice promotes locomotion, vascular recovery and blood-spinal cord barrier integrity.

Role: Co-I, 0.24 calendar months

Title: Chronic muscle weakness in sepsis survivors
 PI: Saito, H.
 Agency: National Institutes of Health-NIGMS (R01 GM126181)
 Period: 09/15/2017 - 08/31/2021
 Total: \$1,162,800
 Investigated sarcomeric protein damage and causal mechanisms long after recovery from sepsis 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
 Tested whether pioglitazone affords neuroprotection following SCI by ameliorating mitochondrial dysfunction via interactions with mitoNEET using a novel transgenic model (mitoNEET null), as well as novel specific mitoNEET ligands and antagonists to mechanistically test our hypotheses.

Role: PI, 2.0 calendar months

Title: 26th Kentucky Spinal Cord & 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)
 Exposed attendees to recent research directions and advances of internationally recognized scientists at forefront of cell and molecular biology of spinal cord and brain injury research.
 Role: PI, 0.1 calendar months

Title: Mitochondrial transplantation strategies to promote recovery after spinal cord injury
 PI: Rabchevsky A.G.
 Agency: National Institutes of Health/NINDS (R21 NS096670)
 Period: 04/01/2016 - 04/30/2019 NCE
 Total: \$413,875
 Comparatively assessed transplantation of mitochondria derived from two cell-type sources (autologous muscle vs cultured cells) to provide additional analysis and outcome measures for long-term behavior.
 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
 Aims of these studies were to intrathecally inject oligonucleotides, designed by the MPI (Stamm), to inactivate constitutively active 5HT2C receptors in the injured spinal cord thought to underlie tail muscle spasticity in chronic stages of SCI utilizing a complete S2 transection SCI model (Rabchevsky).
 Role: MPI, 1.0 calendar months

Title: Mitochondrial transplantation and alternative biofuel administration to treat spinal cord 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
 Treated with ALC to promote energy production (ATP) will maintain bioenergetics of both endogenous and transplanted mitochondria to promote greater functional neuroprotection after SCI.
 Role: Co-I, 1.0 calendar months

Title: Continuous sensor-based home-cage recordings for SCI research
 PI: Rabchevsky A.G.

Agency: Craig H. Neilsen Foundation (Senior Investigator Award #T659612 - Subcontract)

Period: 08/31/2016 - 08/30/2018 \$600,000

Total: \$39,916; (U. Kentucky subcontract Emory University - Hochman S-PI)
Tested miniaturized sensor technologies on an individual's physio-behavioral variables to develop an animal-model prototype – in a home-cage – to test its efficacy 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
Studied 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
Tested supplementing healthy mitochondria isolated from exogenous sources into the contused rat spinal cord to maintain bioenergetics and promote functional recovery.

Role: PI, 3.0 calendar months

Title: Ketone body administration to treat spinal cord injury

PI: Patel S.P.

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

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

Total: \$298,026
Assessed whether ketone body administration post-SCI improves acute mitochondrial respiration and if prolonged treatment spares 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) MRI Supplement

Total: \$74,177
Serial MRI to evaluate 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
 Evaluated the efficacy ALC and/or NACA on bioenergetics of synaptic and non-synaptic mitochondria to establish therapeutic time windows of ALC/NACA administration after acute SCI.

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)
 Examined influence of inflammation on severity of autonomic dysreflexia in relation to cardiac output and function of both sensory and sympathetically correlated neurons.

Role: Co-I, 1.5 calendar months
 Title: Mitochondrial-targeted neuroprotection following spinal cord injury
 PI: Rabchevsky A.G.
 Agency: Craig H. Neilsen Foundation (Pilot Research Grant #190115)
 Period: 09/01/2011 - 08/31/2014
 Total: \$274,964
 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.

Role: PI, 3.0 calendar months
 Title: Effects of acetyl-L-carnitine treatment on mitochondrial function, tissue sparing and hind limb locomotor recovery after 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
 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 Foundation (Fellowship Grant # 2561)
 Period: 01/01/2008 - 12/31/2009
 Total: \$98,820
 Pseudorabies virus (PRV) expressing either PRV-GFP or PRV-RFP injected into the left kidney and distal colon two weeks after thoracic (T4) transection. GFP & RFP-labelled lumbosacral propriospinal neurons were quantified.
 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: \$1,200,467
 Training in modern research concepts regarding neurotrauma pathophysiology and neurodegenerative disorders and potential molecular targets for discovery of pharmacological and gene therapies.
 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
 Core D was for state-of-the-art microscopy and imaging analysis.
 Role: Assistant Director, Core D, 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
 Employed viral-mediated gene therapy in conjunction with retrograde and anterograde tracing to characterize visceral afferents and lumbosacral relay neurons after SCI, underlying autonomic dysreflexia.
 Role: PI, 3.0 calendar months

Title: Transplantation of glial progenitor cells from human embryonic stem cells into injured rat spinal cord
 PI: Rabchevsky A.G.
 Agency: Geron Corporation, Menlo Park, CA (Contract)
 Period: 01/31/2004 - 09/30/2005
 Total: \$99,730
 Differentiated human GPCs from purified human ESCs were transplanted near the injury site in attempts to improve recovery of hind limb locomotion following contusion SCI in adult rats.

Role: PI, 4.0 calendar months
 Title: Influence of neurotrophins on intraspinal plasticity modulating autonomic dysreflexia
 PI: Rabchevsky A.G.
 Agency: Kentucky Spinal Cord and Head Injury Research Trust (Grant #3-11)
 Period: 01/15/2004 - 10/14/2007
 Total: \$297,000
 Used recombinant adenoviruses to over-express control GFP, NGF or Semaphorin 3a in the dorsal horns to modulate post-traumatic intraspinal sprouting to modulate 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 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, United Kingdom (Grant #STR063)
 Period: 07/12/2002 - 06/11/2005
 Total: \$213,705
 Modified endogenous cells in the T4 transected rat spinal cord using adenoviral vectors for NGF and Semaphorin 3a to abolish central sprouting of pain fibers below SCI level that correlated with severity of autonomic dysreflexia measured by increased blood pressure during colon distention.

Role: PI, 3.0 calendar months
 Title: Combinational therapies for recovery after spinal cord injury: steroids and growth factors
 PI: Rabchevsky A.G.

Agency: Kentucky Spinal Cord and Head Injury Research Trust (Grant #9-17)
 Period: 01/12/2000 - 01/13/2003
 Total: \$299,247
 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

c. PRESS/MEDIA RELEASES

- 01/2025 "Three Men and a Spinal Cord Injury" inaugural podcast with Barry Munro (CSRO, U2FP) and John McAleavey (Kessler) <https://www.quadcast.org/podcast-2/episode/90df7e16/s6-e1-the-3-men-and-a-sci-pod>
- 08/2024 "Where there's a wheel, there's a way: A profile of Alexander "Sasha" Rabchevsky '88" Jones, Richard D. *Journal of the Sciences* 13; Hampden-Sydney College <https://blogs.hsc.edu/sciencejournal/wp-content/uploads/sites/6/2024/04/Jones.pdf>
- 09/2023 "What is the optimism that regeneration strategies (clinical) can be designed and implemented to restore lost functions after spinal cord injury?" *The 18th Annual Symposium, Unite 2 Fight Paralysis organization, Minneapolis, MN* <https://youtu.be/cSudV8MWgDo?si=k7VormxjJXvq8bQ1>
- 03/2023 "The Ups and Downs of a Visiting Professor at University of British Columbia" *The ICORDian Spring 2023* <https://icord.org/the-icordian-spring-2023/>
- 06/2022 "What's new in SCI Research?" *Spinal Cord Injury BC Virtual Peer Sessions* <https://www.youtube.com/watch?v=UTrnSYHM2us>
- 01/2020 "Albert Nelson Marquis Lifetime Achievement Award", *Marquis Who's Who* United Press: <http://www.24-7pressrelease.com/press-release-service/470075>
- 08/2018 "Sasha Rabchevsky and Michael Lane discuss the impact of COVID Shutdown on SCI research", *Unite 2 Fight Paralysis CureCast* <https://soundcloud.com/user-612244013/curecast-episode-37-interview>
- 04/2018 "Sasha Rabchevsky talks about his work at SCoBIRC", *Unite 2 Fight Paralysis CureCast* <https://soundcloud.com/user-612244013/sci-curecast-episode-18-with-sasha-rabchevsky>
- 11/2016 "Getchell Memorial Award Honors Graduate Scientist's Persistence Seeking National Funding" *UK Now* <http://uknow.uky.edu/research/getchell-memorial-award-honors-graduate%E2%80%99s-persistence-seeking-national-funding>
- 06/2016 "Mentoring a Key Factor in Spinal Cord Researcher's Success" *UK Now* <http://uknow.uky.edu/content/mentoring-key-factor-spinal-cord-researchers-success>
- 05/2016 "Spinal Cord and Brain Injury Research with Sasha Rabchevsky" *UK Research Podcast* [Sasha Rabchevsky podcast.mp3](#)

- 02/2016 "Motivated by Personal Experience, Scientist Seeks Answers About Spinal Cord Injury" *UK Now* <http://uknow.uky.edu/content/motivated-personal-experience-scientist-seeks-answers-about-spinal-cord-injury>; <https://youtu.be/938-NOmZkso>
- 11/2015 "Documentary of Drs. Rabchevsky & Sullivan's work on mitochondria-targeted interventions for SCI & TBI" *Extraordinary Medicine Episode (12)* FBR Media (Discovery Network) Liz Hodge, Director/Producer
- 10/2015 "Two University of Kentucky Researchers Awarded Grants from 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
- 08/2013 "Acetyl-L-Carnitine" *PN/Paraplegia News Magazine* <http://pvamag.com/pn/article/5680/acetyllcarnitine>; <http://www.healingtherapies.info/Acetyl-L-Carnitine.htm>
- 10/2012 "Modulation of Intraspinal Plasticity Associated with Autonomic Dysreflexia after Complete Spinal Cord Injury" *Keynote: J. Allyn Taylor International Prize in Medicine Symposium*, Western University, Ontario, Canada https://youtu.be/nQl_1Px54UY
- 09/2011 "Commonly Used Supplement May Improve Recovery from Spinal Cord Injuries" *UK Now* <http://uknow.uky.edu/content/commonly-used-supplement-may-improve-recovery-spinal-cord-injuries>

d. ADMINISTRATIVE DUTIES, SERVICE, OUTREACH

Departmental

- | | |
|-------------|---|
| 2019 - 2021 | Organizing Committee for the 2021 Kentucky Spinal Cord and Head Injury Research Trust Fund Symposium |
| 2018 - 2024 | 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 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 - 2024	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, VP Office Research
2011 - 2014	Council of Endowed Professors and Chairs, Steering Committee
2011 - 2014	Senate Hearing Panel member (Privilege and Tenure), Office President
2009	Office of Research Integrity (ORI) Program Review Committee, VPR
2009	Society for Promotion of Undergraduate Research (SPUR)
2004 - 2005	IACUC Pain Policy committee member
2002 - 2005	Institutional Animal Care and Use committee (IACUC) member

Outreach

2023	Tenth Annual Kentucky Congress on Spinal Cord Injury, Vice President and co-organizer; Tates Creek Ballroom, Lexington, KY
2021	Ninth Annual Kentucky Congress on Spinal Cord Injury, Vice President and co-organizer, Virtual Symposium, Lexington, KY
2020	Eight Annual Kentucky Congress on Spinal Cord Injury, Vice President and co-organizer, Virtual Symposium-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	Sixth Annual Kentucky Congress on Spinal Cord Injury, Vice President and co-organizer, Northeast Christian Church Hamburg, Lexington, KY
2021 - 2023	Independence Place KY, Inc., President, Board of Directors, Lexington, KY
2017	Inaugural North American Spinal Cord Injury Consortium (NASCIC), Representative of Kentucky Congress on Spinal Cord Injury, Airport Hilton, Miami, FL
2017	Fifth Annual Kentucky Congress on Spinal Cord Injury, Vice President and co-organizer, Cardinal Hill Rehabilitation Hospital, Lexington, KY
2017	Panel Discussion Member, Communication and self-advocacy; Real world situations and solutions. The 8th Annual Kentucky Appalachian Rural Rehabilitation Network Conference, Engagement, Communication & Access, Perkins Conference Center, Eastern Kentucky University, Richmond, KY
2017-2021	Independence Place KY, Inc., Board of Directors, Lexington, KY

2016	Fourth Annual Kentucky Congress on Spinal Cord Injury, Vice President and co-organizer, Cardinal Hill Rehabilitation Hospital, Lexington, KY
2015	Third Annual Kentucky Congress on Spinal Cord Injury, Vice President and co-organizer, Marriot Griffin Gate Hotel, Lexington, KY
2015	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
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	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
2012	Moderator of Panel Discussion, Aging with spinal cord injury from the client's 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
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	Spinal Cord Injury Peer Alliance Program, KARRN & Cardinal Hill Rehab Hospital
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

VII. INSTRUCTION

a. COURSE DIRECTOR

2022	BIO 426 - Neuroscience Seminar, <i>Spinal cord injury: Pathophysiology and therapeutics</i> (3hr)
2018	BIO 426 - Neuroscience Seminar, <i>Spinal cord injury: Pathophysiology and therapeutics</i> (3hr)

b. FORMAL INSTRUCTION

University of Kentucky Course Lecturer

2015	GRN 650 - Graduate Gerontology Program, <i>Research methods and design</i> (3hr)
2015	HON 301 - Undergraduate Honors Program, <i>Where are all the women?</i> (3hr)
2010 - 2018	PGY 206 - Elementary Physiology, <i>Endocrinology</i> (4hr)
2009 - 2024	PT 827 - Physical Therapy, <i>Pathophysiology of spasticity and autonomic dysreflexia after spinal cord injury & Functional electrical stimulation</i> (1hr)
2009 - 2023	ANA 605 & PGY 605 - Neurobiology of CNS Injury & Repair, <i>Spinal cord injury models & Intraspinial plasticity associated with autonomic dysreflexia after SCI & Post-traumatic demyelination & remyelination</i> (3hr)
2008	PT 827 - Physical Therapy, <i>Plasticity of both visceral sensory fibers and propriospinal neurons associated with the development of autonomic dysfunction after spinal cord injury</i> (1hr)
2007	ANA 780 & PGY 630 - CNS Injury and Repair, Special Topics Course, <i>Spinal cord injury models & Autonomic dysreflexia after spinal cord injury and post-traumatic demyelination & remyelination</i> (4hr)
2006 - 2008	OBI 814 - Dental Human Function, <i>Neurophysiology</i> (4hr)
2005	ANA 605 - Principles of Neurobiology, <i>Spinal cord injury models & Autonomic dysreflexia after spinal cord injury</i> (4hr)
2005	MD 817 - Medical Neuroscience, <i>Spinal cord injury and functional electrical stimulation</i> (1hr)
2004	PHA 658 - Advanced Pharmacology, <i>Modern viral approaches</i> (3hr)
2004	MD 817 - Medical Neuroscience, <i>Spinal cord injury: dysfunctions and therapeutic approaches</i> (1hr)
2003	MD 817 - Medical Neuroscience, <i>Spinal cord injury: Clinical treatment from lab bench to clinical trials</i> (1hr)
2003 - 2009	PGY 412G - Principles of Human Physiology, <i>Neurophysiology</i> (4hr)
2002	MD 817 - Medical Neuroscience, <i>Therapeutic interventions following spinal cord injury: defining targets of experimental treatments</i> (1hr)

2002 PT 827 - Physical Therapy, *A surgically implanted Functional Electrical System for standing and walking* (1hr)

Invited Guest 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) (1hr)

2009 - 2013 Spinal Cord Injury Research Training Program, The NIH and Ohio State University, Center for Brain and Spinal Repair, *Modulating the pathophysiology of autonomic dysreflexia after spinal cord injury* (2hr)

2007 Spinal Cord Injury Research Training Program, The NIH and 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 & Spinal cord injury and functional electrical stimulation* (3hr)

2006 - 2007 University of North Carolina Pembroke, Department of Biology, BIO S315 Neurobiology. *Spinal cord injury: dysfunctions, clinical treatments, experimental models & therapeutics* (host: Dr. Robert Poage) (1hr)

2006 - 2007 Reeve-Irvine Research Center, Spinal Cord Injury Techniques Course, University of California at Irvine, Department of Anatomy & Neurobiology, *Plasticity of sensory axons and propriospinal neurons influences the severity of autonomic dysreflexia after complete spinal cord injury & Basic fibroblast growth factor (FGF-2) therapy for recovery of motor function* (3hr)

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

2003 Reeve-Irvine Research Center, Spinal Cord Injury Techniques Course, University of California at Irvine, Department of Anatomy & Neurobiology, *Gene therapy for spinal cord dysfunction & Surgically implanted neuroprosthesis for exercise, standing and transfers after spinal cord injury* (3hr)

2002 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* (1hr)

2001 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*

c. MENTORING/ADVISING

Doctoral Thesis Advisor; *current positions*

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; Scientist II in Chris Norris' lab, UK Sanders-Brown Center on Aging, Lexington, KY
2007 - 2008	Joseph Whelan (Physiology), Master's thesis mentor; Biomedical Life Scientist at Leidos, MD

Postdoctoral Fellows; *current positions*

2019 - 2022	Dr. Felicia Mary Michael; Assistant Professor, City College London, United Kingdom
2011 - 2012	Dr. Rachel Hill; Bibliography Manager, University of Cincinnati, OH
2006 - 2014	Dr. Samirkumar Patel; Assistant Professor, Department of Physiology, Lexington, KY
2006 - 2009	Dr. Hanad Duale; CEO at Kare Intellex, Inc. Columbus, OH
2005 - 2008	Dr. Shaoping Hou; Associate Professor, University of Missouri, Interdisciplinary Neuroscience Faculty, Columbia, MO
2005 - 2006	Dr. Sairam Krishnamurthy; Professor of Pharmaceutics, Banaras Hindu University, India
2003 - 2004	Dr. Adrian A. Cameron; Nambour General Hospital, Australia

Graduate Students

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 Students

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 (Federal Work-Study)
2013	Catherine Wang, 2nd Year Med Student, Med Student Research Program (Federal Work-Study)
2003 - 2005	Igor Voskresensky, 2nd Year Medical Student (STEPS Program)
2002	Janna Hackett, 2nd Year Medical Student (Federal Work Study Program)

Undergraduate Students

2022	Jasey Williams, PGY394 Program
2022	Cannon La Font, PGY394 Program
2022	Emmylou Tidwell, PGY394 Program
2021 - 2022	Olivia Whitfield, PGY394 Program
2021 - 2022	Blayne Starkey, PGY394 Program
2021	Sophia Carpico, PGY394 Program
2021	Jay Patel, PGY394 Program
2020	Ashley Pitts, PGY394 Program
2019	Stephen Spezzano, PGY394 Program
2019	Bailee Taylor, BIO395/ABT396 Programs
2018 - 2019	Lydia Boyd, PGY394 Program
2018	Sean Dunn, BIO395 Program
2017	Christian Baker, KHP395 Program
2018	Alexandra Bruce, BIO395 Program
2019	Janki Naidugari, BIO395 Program
2016	Kaylin Foreman, KHP395 Program
2016	Meraj Kotwal, BIO395 Program
2016	Carlee Schreiber, KHP395 Program
2015	Rebecca Joel, BIO395 Program
2015	Ashley Pittman, HHS445 Program
2015	Aileexandria Sandlin, ABT301 Program
2015	Hannah Hollenbach, BIO395 Program
2015	Alex Carter, BIO395 Program
2014 - 2016	Jonathan Gardner, CHEM395 Program
2014 - 2017	Jensen Goh, BIO395 & KHP395 Programs
2013 - 2015	Ana Bahrami, BIO395 Program
2013 - 2014	Alicia Kaseta, Physiology Scholars Program
2013 - 2014	Jensen Goh, Physiology Scholars Program
2013 - 2014	Katherine Spezzano, BIO395 Program
2012	Nathalie Astudillo, BIO395 Program
2012	Nicholas Streck, BIO395 Program
2012 - 2013	Christian Baker, BIO395 Program
2011 - 2013	Taylor Smith, CHEM395 Program
2011	Seth Leeds, BIO395 Program
2011	Anthony Gutierrez, Gattton 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. Thesis Dissertation Committees, University of Kentucky

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/External Examiner for Ph.D. Thesis Defense Committees

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

Training of Visiting Foreign Scientists

2022	Dr. Sajeev Kaur, Postdoctoral Scholar, All India Institute of Medical Sciences, New Delhi, India
2010	Dr. Yanling Yang, Visiting Scholar, Yan'an University Medical School, Yan'an, P.R. China

Awards/Honors of Trainees

2020 - 2022	Felicia Michael, PhD – Principal Investigator, Craig H. Neilsen Postdoc Fellowship #651019 Chemogenetic silencing of
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	interneurons to modulate autonomic dysreflexia (Rabchevsky, Sponsor)
2021	Felicia Michael, PhD – Poster Cash Award and the Dean’s Lecture Series presentation, The Annual College of Medicine Trainee Poster Competition, University of Kentucky
2016	Jenna VanRooyen-Gollihue – Michael Goldberger Award, Top (1) ranked poster presentation. 34 th Annual National Neurotrauma Society Symposium, Lexington, KY
2016	Jenna VanRooyen-Gollihue – Thomas V. Getchell, PhD, Memorial Award for excellence in grant writing, Department of Physiology, University of Kentucky
2016	Jenna VanRooyen-Gollihue – Poster Award, 4th Annual Meeting of the Kentucky Chapter of the American Physiological Society, BioPharmacy Building, University of Kentucky, Lexington, KY
2016 - 2018	Khalid Eldahan – Pre-doctoral Scholar Training Program grant, Neurobiology of CNS Injury and Repair, National Institutes of Health-NIDA (5T32 NS077889) (Rabchevsky, Sponsor)
2016 - 2018	Jenna VanRooyen-Gollihue – NIH/NINDS F31 Grant Award (Principal 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 22 nd American Society for Neural Therapy and Repair Conference, Clearwater, FL
2015	Jenna VanRooyen – Poster Selection for Oral Presentation, The 22 nd Annual American Society for Neural Therapy and Repair Conference, Clearwater, FL
2014 - 2016	Jenna VanRooyen – Pre-doctoral Scholar Training Program grant, Neurobiology of CNS Injury and Repair, NIH-NIDA (5T32 NS077889) (Rabchevsky, Sponsor)
2013 - 2014	Catherine Wang – 3 rd Year Med Student, Professional Student Mentored Research Fellowship
2013	Samir Patel, PhD – Oral Presentation, 19 th Annual Kentucky Spinal Cord & Head Injury Research Trust Symposium, Louisville, KY
2013	Samir Patel, PhD – Poster Selection for Oral Presentation, 31 st Annual National Neurotrauma Society Symposium, Nashville, TN
2012	Samir Patel, PhD – Poster Selection for Oral Presentation, 30 th Annual National Neurotrauma Society Symposium, Phoenix, AZ
2009	Samir Patel, PhD – Neilsen Foundation Fellowship (<i>Declined</i>)
2009	Samir Patel, PhD – Travel Award recipient, 2 nd Joint Symposium of International & 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, 25 th Annual National Neurotrauma Society Symposium, Kansas City, MO
2007	Shaoping Hou, PhD – Outstanding Student Abstract, 25 th Annual Neurotrauma Society Symposium, Kansas City, MO

VIII. PROFESSIONAL MEMBERSHIPS AND SERVICE

Professional Affiliations

1997-present	Sigma Xi, Scientific Research Society
1994-present	American Society for Neural Transplantation/Therapy and Repair
1993-present	Society for Neuroscience
1993-present	National Neurotrauma Society

Grant Reviewer: Federal Study Sections

2023	NIH/NINDS: 2024/01 ZNS1 SRB-Q (09) Translational (BPN) - Special Emphasis Panel
2023	NIH/NINDS: 2023/10 ZNS1 SRB-G (62) Clinical Trials, G62 - Special Emphasis Panel
2021	NIH/NINDS: 2021/10 ZRG1 BDCN-E (02) M, Special Emphasis Panel Reviewer; Neurological Dysfunction and Degenerative Disorders
2016 - 2017	NIH/NINDS: Clinical Neuroplasticity and Neurotransmitters-CNNT
2013 - 2015	Spinal Cord Injury Research Program (SCIRP); Department of Defense Congressionally Directed Medical Research Programs (CDMRP)
2011 - 2013	NIH/NINDS: NST-1 Subcommittee member (K Awards Neuroscience/Neurology)
2010	NIH: ARRA RC4 Sustainable Community-Linked Infrastructure Panel ZRG1 HDM-D (58)
2009	NIH: Rare Diseases Clinical Research Consortia (ZRG1 HOP-Y (50) R)

Grant Reviewer: Non-Federal Study Sections

2023 - present	Swiss National Science Foundation (SNSF)
2022 - present	Praxis Spinal Cord Institute, Vancouver, BC Canada
2021 - present	International Spinal Research Trust (ISRT-Spinal Cord Foundation, UK) and Christopher & Dana Reeve Foundation (CDRF)
2015 - present	Wings for Life Spinal Cord Research Foundation
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 (SCIRP)
2010 - 2011	Veterans' Health Administration, RRD0 (RR&D Merit Review Award)
2007 - 2022	Canadian Institutes of Health Research (CIHR)
2006 - 2009	New York State Spinal Cord Injury Research Program
2006 - 2008	American Heart Association (AHA)
2005 - 2011	New Jersey Commission on Spinal Cord Research
2004 - 2010	Christopher & Dana Reeve Foundation (CDRF)
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

Editorial Boards

2023 - present	OBM Neurobiology, Editorial Board
2014 - present	Public Library of Science (PLOS) One, Editorial Board member
2012 - 2013	Frontiers in Integrative Physiology: Guest Editor Special Topic Series <i>Plasticity of primary afferent neurons & sensory processing after SCI</i>
2011 - 2021	Frontiers in Physiology, section Integrative Physiology, Associate Editor

Journal Reviewer (>15/year, since 2000)

American Journal of Physiology, Annals of Neurology, Autonomic Neuroscience: Basic and Clinical, Biology, Biomedicine Biomolecules, BMC Veterinary Research, Brain Research, Burns and Trauma, Cell Biochemistry & Function, Cell Biomaterials, Cell Reports, Cells, Cellular & Molecular Neurobiology, Clinical Neurophysiology, Communications Medicine, Comprehensive Physiology, European Journal of Neuroscience, Experimental Neurology, Experimental Physiology, Expert Opinion in Pharmacotherapy, Free Radical Biology and Medicine, Frontiers in Molecular Neuroscience, Frontiers in Neuroscience, Frontiers in Physiology, Glia, Journal of Applied Physiology, Journal of Clinical Medicine, Journal of Comparative Neurology, Journal of

Histochemistry and Cytochemistry, Journal of Inborn Errors of Metabolism and Screening, Journal of Inflammation Research, Journal of Integrative Neuroscience, Journal of Integrative Physiology, 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 Nutritional Physiology; Journal of Physiology, Journal of Precision Medicine: Health & Disease, Journal of Sexual Medicine, Journal of Spinal Cord Medicine, Journal of Translational Engineering in Health and Medicine, Journal of Urology, Journal of Visualized Experiments, Mayo Clinic Proceedings, Molecular Neurobiology, Mitochondrion, Molecular Therapy, Nature Communications, Nature Medicine, Nature Protocols, Neural Regeneration Research, Neurobiology of Disease, Neurochemical Research, Neuropharmacology, Neuroscience, Neuroscience Letters, The Neuroscientist, Neurotherapeutics, Neurotrauma Reports, OBM Neurobiology, Pain Management, Physiological Reports, Public Library of Science (PLOS) ONE, Reviews in the Neurosciences, Scientific Reports, Spinal Cord, Stem Cells, Tissue Engineering, Translational Medicine, The Scientific World, Trends in Neurosciences, World Journal of Orthopedics

Chaired Symposia, Councils, Committees, Panelist

2019 - 2022	National Neurotrauma Society, <i>Advocacy Committee member</i>
2021	<i>Invited panelist</i> , Advocacy Pathways for Spinal Cord Injury. Neurotrauma Advocacy: Building Pathway for the Future (Co-Chairs Drs. Grace Griesbach and Amy Wagner). The 38 th Annual National Neurotrauma Society virtual symposium
2019	<i>Co-Chair</i> (with Dr. Dianne Langford), Targeting mitochondrial medicine to improve functional outcome after CNS injury. The 37 th Annual National Neurotrauma Society Symposium, Pittsburgh, PA
2019	<i>Co-Chair</i> (with Drs. Grace Griesbach and Amy Wagner), What Does Function Mean to Me? Function After SCI & TBI & Advocacy-Roundtable Lunches. The 37 th Annual National Neurotrauma Society Symposium, Pittsburgh, PA
2016	<i>Co-Chair</i> (with Dr. Lumy Sawaki), Engineering approaches for functional restoration after spinal cord injury. The 34 th Annual National Neurotrauma Society Symposium, Lexington, KY
2016	<i>Chair</i> , Management of acute autonomic dysfunction after spinal cord injury. The 34 th Annual National Neurotrauma Society Symposium, Lexington, KY
2016 - 2019	<i>Council member</i> , National Neurotrauma Society
2015	<i>Chair</i> , No Barriers University Scientific Symposia, No Barriers USA Summit, Park City, UT
2015 - 2016	<i>Planning Committee</i> , 34 th Annual Meeting, National Neurotrauma Society
2013	<i>Debate Team Captain</i> , The 15 th International Symposium on Neural

	Regeneration (ISNR), Asilomar Conference, Pacific Grove, CA
2013	<i>Chair</i> , No Barriers University Scientific Symposia, No Barriers USA Summit, Telluride, CO
2011 - 2012	<i>Strategic Planning Committee member</i> , National Neurotrauma Society
2011	<i>Chair</i> , No Barriers University Scientific Symposia, No Barriers USA Summit, Winter Park, CO
2010	<i>Patient perspective</i> : What should I hope for, what should I know? The 36 th Annual American Spinal Injury Association (ASIA), Nashville, TN
2007	<i>Co-Chair</i> (with Dr. Pat Kochanek), Tissue engineering, neurobionics and transplantation. The 25 th Annual National Neurotrauma Society Symposium, Kansas City, MO
2005	<i>Chair</i> , Spinal cord injury, autonomic nervous system and dysfunction. The 4 th Congress of the International Society for Autonomic Neuroscience, Marseille, France
2005	<i>Co-Chair</i> (with Dr. Edward Hall), Spinal cord injury and neural prostheses. The 1 st Translational Neuroscience Conference, Lexington, KY
2004 - 2011	<i>Scientific Program Committee, Faculty Poster Judge, Student Abstract Competition</i> , National/International Neurotrauma Society Symposia
2003	<i>Chair</i> , Visceral function and pain in spinal cord injury. The 10 th International Symposium on Neural Regeneration (ISNR), Asilomar, Pacific Grove, CA
2001	<i>Co-Chair</i> (with Dr. Mary Bunge), Neuroprotective and regenerative therapies for spinal cord injury. The 19 th Annual National Neurotrauma Society Symposium, San Diego, CA

Invited Workshops and Stakeholder

2019	SCI 2020: Launching a Decade for Disruption in Spinal Cord Injury Research: <i>Session 1: [NINDS, OD-ODP]; Session 3: [NINDS/NCMRR/NINR]</i> , Bethesda, MD
2018 - 2020	North American Spinal Cord Injury Consortium (NASCI) <i>Advisory Team to Bladder/Bowel Working group</i> , Craig H. Neilsen Foundation
2016	The NIH/NINDS, Spinal Cord Injury Preclinical Data Workshop: <i>Developing a FAIR Share Community</i> , North Bethesda, MD
2012	The NIH/NINDS, <i>Optimizing the Predictive Value of Preclinical Research</i> Workshop, Washington, DC
2016	The 42 nd Annual Meeting of the American Spinal Injury Association (ASIA), Panel Discussion member; <i>How to move from animal models of spinal cord injury to clinical implementation</i> , Pre-course #2 - Progress in Translational Research, Philadelphia, PA
2009	Spinal Cord Injury Research Program (SCIRP), DoD & Congressionally Directed Medical Research Programs (CDMRP), <i>Invited Stakeholder</i> , Herndon, VA

2008	Spinal Cord Outcomes Partnership Endeavor (SCOPE) Workshop. <i>Functional Recovery after Spinal Cord Injury: Implications of Different Spinal Injury Patterns and Therapeutic Targets on Clinical Trial Outcomes</i> , Arlington, VA
2008	The NIH/NINDS, <i>Combination Therapies, Mechanisms and Targets for Neuroprotection for TBI</i> Workshop, Rockville, MD

IX. CONSULTING

2024 - present	Scientific Advisory Board, Dignify Therapeutics, Research Triangle Park, NC; Karl Thor, founder, CSO
2022 - 2024	Guideline development of Collaborative RECOSPA (REporting COrd Stimulation PArameters) for minimum reporting of standard parameters. ICORD, UBC; Andrei Krassioukov (PI)
2022 - 2023	The International Advisory Council (IAC): evaluating the progress of the Mend the Gap (MTG) project: A Transformative Biomaterials Platform for Spinal Cord Repair, Project Steering Committee. ICORD, UBC, CAN; Wolfram Tetzlaff (PI)
2021 - 2024	Scientific advisory board member, International Symposium for Neural Regeneration (ISNR)
2021 - present	Advisory Board, The Northeast Ohio Regional Spinal Cord Injury System (NORSCIS) 90SIMS0007 - Feasibility of gabapentin as an intervention to improve neurologic recovery; Kim D. Anderson (PI)
2021 - present	Scientific Advisor/Consultant, Cellvie, Inc. Houston, TX; Alexander Schueller, President
2014 - 2022	Data & Safety Monitoring Board, Keck Institute, NJ, DoD, Gail Forrest (PI)
2009 - 2024	Advisory Board, Kentucky Appalachian Rural Rehabilitation Network (KARRN), University of Kentucky, Department Physical Therapy; Patrick Kitzman, Founder

X. VOLUNTEER ACTIVITIES

2025	Volunteer, <i>Annual PossAbilities Expo</i> , Bowling Green, KY
2023	Moderator panel discussion, <i>18th Annual Science & Advocacy Symposium (Working2Walk)</i> , <i>Unite2FightParalysis</i> organization, Minneapolis, MN
2022	Moderator panel discussion, <i>17th Annual Science & Advocacy Symposium (Working2Walk)</i> , <i>Unite2FightParalysis</i> organization, Salt Lake City, UT
2021	Moderator panel discussion, <i>16th Annual Science & Advocacy Symposium (Working2Walk)</i> , <i>Unite 2 Fight Paralysis</i> organization, Virtual
2020 - 2024	Renaissance Run Estate Owner's Association, Board, Nicholasville, KY
2017	Disability Awareness Day, Life in a Wheelchair, Seton Catholic Elementary

2011 - 2018	Elkhorn Park Neighborhood Association, VP, Board Directors, Lexington, KY
2010 - 2015	Big Brothers Big Sisters of the Bluegrass, Lexington, KY
2009 - 2013	Fayette County Science Fairs and Bryan Station High School, Lexington, KY
2007 - 2009	Spinal Cord Injury Unit Support Group member, Cardinal Hill Rehabilitation Hospital, Lexington, KY
2006 - 2007	Coordinator of SCoBIRC 'Day in a Wheelchair' experience in collaboration with Cardinal Hill Rehabilitation Hospital, Lexington, KY

XI. SPEAKING ENGAGEMENTS - INVITED SEMINARS

UNIVERSITY OF KENTUCKY/STATE

2017	<i>Changing serotonin receptor 2C splice variants to combat spasticity after spinal cord injury</i> , University of Kentucky, Department of Molecular & Cellular Biochemistry, Lexington, KY
2015	<i>Mitochondrial targeted therapeutics for treatment of spinal cord injury</i> , Kentucky Spinal Cord Injury Research Center, University of Louisville, Louisville, KY
2012	<i>Novel targets for spinal cord injury therapeutics: Bioenergetic and autonomic dysfunctions</i> , University of Kentucky, Department of Physiology, Lexington, KY
2012	<i>Experimental design: Applying scientific method, power and avoiding bias</i> , University Kentucky, Spinal Cord and Brain Injury Research Center, Lexington, KY
2012	<i>Autonomic dysreflexia, electrical implants, No barriers: Perspectives from a paraplegic neuroscientist</i> , Appalachian Health Summit, Quality of Life Following Neurotrauma, Civic Center, Lexington, KY
2011	<i>Modulating the pathophysiology of autonomic dysreflexia after spinal cord injury</i> , University of Kentucky, Department of Physiology, Lexington, KY
2007	<i>Experimental potentials and clinical pitfalls of SCI therapeutics: Perspectives from a neuroscientist with SCI</i> , Annual KSCHIRT Symposium, University of Louisville, Louisville, KY
2003	<i>Combination therapies for recovery after spinal cord injury: steroids and growth factors</i> , Annual KSCHIRT Symposium, Frontiers in Spinal Cord Regeneration, Louisville, KY
2001	<i>Growth factor and gene therapy for functional recovery after spinal cord injury</i> , University of Kentucky, Department of Physiology, Lexington, KY
2001	<i>Growth factor and steroid therapy for recovery after spinal cord injury</i> , Annual KSCHIRT Symposium, Frontiers in Spinal Cord Regeneration, Louisville, KY
2000	<i>Effects of basic fibroblast growth factor (bFGF) and combination therapy on spinal cord injury</i> , Annual KSCHIRT Symposium University Kentucky, Lexington, KY
2000	<i>Growth factor therapies and transplantation strategies for spinal cord injury</i> ,

- University of Louisville, Department of Neurological Surgery, Louisville, 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
- 1999 *Basic fibroblast growth factor (bFGF) enhances functional recovery and tissue sparing after spinal cord injury*, Annual KSCHIRT Symposium, Louisville, KY
- 1998 *Basic fibroblast growth factor (bFGF) reduces tissue damage and enhances recovery after spinal cord injury*, Annual KSCHIRT Symposium, University of Kentucky, Lexington, KY

NATIONAL/INTERNATIONAL

- 2025 *Reproducibility quagmire in preclinical research; taxonomy and dogmatic impediments to translation & Pharmacological and genetic manipulation to combat both autonomic dysreflexia & spasticity*, Plenary Lectures, American College of Veterinary Internal Medicine (ACVIM) annual forum, Louisville, KY
- 2023 *What is the optimism that regeneration strategies (clinical) can be designed and implemented to restore lost functions after spinal cord injury?* The 18th Annual Unite 2 Fight Paralysis Symposium on Science & Advocacy. Minneapolis, MN
- 2023 *Compendium of an American graduate student supported by Rick Hansen 'Man in Motion' Legacy Fund*, Plenary Lecture, the 20th annual International Collaboration on Repair Discoveries (ICORD) Research Meeting, University of British Columbia, Vancouver, Canada
- 2021 *Mitochondrial transplantation strategies for the injured spinal cord*, United Mitochondrial Disease Foundation: Bench-to-Bedside webinar series, Center for Metabolic and Mitochondrial Medicine, University of Pittsburgh
- 2021 *Mitochondrial transplantation strategies for the injured spinal cord. Advances of mitochondria as a therapeutic agent*. Virtual 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, Toronto, Ontario, CAN
- 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 National Neurotrauma Society, Snowbird, UT
- 2017 *Mitochondrial bioenergetics and functional recovery after spinal cord injury*, 1st 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, Department of Physiology, Atlanta, GA
- 2015 *Targeting bioenergetic and autonomic dysfunctions after spinal cord injury*, Penn State University, Dept. 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 Keynote Address, *Modulation of intraspinal plasticity associated with autonomic dysreflexia after complete spinal cord injury*, The 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 Pembroke, Dept 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), 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, Neurosciences*, Bethesda, MD
- 2009 *Intraspinal plasticity of sensory fibers and propriospinal neurons is associated with autonomic dysreflexia after spinal cord injury*, University of Florida, 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; Plasticity of visceral sensory fibers and lumbosacral propriospinal neurons associated with autonomic dysfunction after spinal cord injury*, University of Alberta, Dept of Cell Biology, Edmonton, Alberta Canada
- 2008 *Plasticity of both visceral sensory fibers and propriospinal neurons is associated with development of autonomic dysfunction after spinal cord injury*, Touro University, School Osteopathic Medicine, Henderson, NV
- 2008 *Plasticity of lumbosacral propriospinal neurons is associated with the development of autonomic dysreflexia after thoracic spinal cord transection*, The 2nd 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 body and mind, Beckman Center, Irvine, CA
- 2006 *Plasticity of both sensory axons and propriospinal neurons influences the severity of autonomic dysreflexia after complete spinal cord injury*, Drexel University, College of Medicine, Department of Neurobiology and Anatomy, Philadelphia, PA
- 2005 *Influence of propriospinal pathway plasticity following spinal cord injury in the development of autonomic dysreflexia*. The 4th Congress of the International Society for Autonomic Neuroscience, Marseille, France
- 2004 *Clinical and experimental approaches to improve function after spinal cord injury*, Case Western Reserve University, Dept Biomedical Engineering & Cleveland FES Center, Cleveland, OH
- 2003 *Bowel and sexual dysfunction after spinal cord injury*. 1st 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; A surgically implanted neuroprosthesis for exercise, standing, and transfers*. The 5th International Spinal Research Trust, City University, London, U.K.
- 2000 *Effects of basic fibroblast growth factor (bFGF) therapy on spinal cord injury*, University of British Columbia, Department Zoology and International Collaboration on Repair Discoveries (iCORD), Vancouver, British Columbia, 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, Hospital Henri Mondor, Créteil, France

XII. PUBLISHED ABSTRACTS: LOCAL/NATIONAL/INTERNATIONAL MEETINGS

1. Helke C.J., **Rabchevsky A.G.** and Ichikawa H. (1991) *Putative neurotransmitter agents in sensory neurons of carotid sinus nerve of rat*, Society for Neuroscience 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 Meeting, 19: 57
3. **Rabchevsky A.G.**, Streit W.J. and Reier P.J. (1994) *Intraspinal transplantation of enriched microglia seeded within biodegradable polymeric tubes: Evidence for neuritic ingrowth*, Society for Neuroscience Annual Meeting, 20: 879
4. **Rabchevsky A.G.**, W.J. Streit and P.J. Reier. (1994) *Transplantation of brain macrophages (BrM) embedded in gelfoam into the injured rat spinal cord: evidence for neuritic ingrowth and the presence of extracellular matrix*, J. Neurotrauma 11(2), p. 93 Top Poster Award
5. Pennell N.A., **Rabchevsky A.G.** and Streit W.J. (1995) *Depletion of major histocompatibility complex (MHC)-bearing cells from embryonic rat spinal cord*, Society for Neuroscience Meeting, 21: 823
6. **Rabchevsky A.G.**, Streit W.J. and Reier P.J. (1995) *Transplantation of brain macrophages (BrM) embedded in Gelfoam into the injured rat spinal cord: Evidence for neuritic ingrowth and the presence of extracellular matrix*, J. Neurotrauma 12(10), p. 136
7. **Rabchevsky A.G.** and Dreyfus P.A. (1996) *Characterization of murine microglia and astrocytes in relation to IgG leakage into neural parenchyma after systemic adjuvant injection*, J. Neurotrauma 13(10), p. 630
8. **Rabchevsky A.G.**, Weinitz J.M., Couplier M., Fages C., Tinel M., Junier M.P. (1997) *La stimulation de la synthèse du Transforming Growth Factor alpha conduit, in vivo, à une réactivité astrocytaire dans le SNC*, European Society of Neuroscience, Bordeaux, France
9. **Rabchevsky A.G.**, Weinitz 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 Meeting, 28: 12
10. **Rabchevsky A.G.**, Turner A.F., Blades D.A., and Scheff S.W. (1998) *Basic fibroblast growth factor (bFGF) reduces tissue damage and enhances functional recovery following spinal cord injury in rat*, Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
11. **Rabchevsky A.G.**, Turner A.F. and Scheff S.W. (1998) *Intrathecal infusion of basic fibroblast growth factor (bFGF) following contusion injury to the adult rat spinal cord reduces tissue damage and enhances functional recovery*, Society for Neuroscience Meeting, 24: 545
12. **Rabchevsky A.G.**, Turner A.F. and Scheff S.W. (1998) *Effects of intrathecal*

infusion of basic fibroblast growth factor (bFGF) on functional recovery and tissue sparing following spinal cord injury in the adult rat, J. Neurotrauma 15(10), p. 892

13. **Rabchevsky A.G.**, Fugaccia I., Turner A.F., Blades D.A. and Scheff S.W. (1999) *Basic fibroblast growth factor (bFGF) significantly enhances hindlimb recovery following moderate and severe spinal cord injury in the rat*, The 8th International Symposium on Neural Regeneration, Asilomar, Pacific Grove, CA.
14. **Rabchevsky A.G.**, Fugaccia I., Sullivan P.G. and Scheff S.W. (1999) *Cyclosporin A does not reduce tissue damage after spinal cord injury in the rat*, Society for Neuroscience Meeting
15. **Rabchevsky A.G.**, Fugaccia I., Sullivan P.G. and Scheff S.W. (1999) *Cyclosporin A (CsA) does not reduce tissue damage after spinal cord injury in the rat*, J. Neurotrauma 16(10), p. 981.
17. **Rabchevsky A.G.**, Fugaccia I., Turner A.F., Blades D.A., Mattson. M.P. and Scheff S.W. (2000) *Basic fibroblast growth factor (bFGF) therapy following spinal cord injury in the rat*, Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
18. **Rabchevsky A.G.**, Fugaccia I. and Scheff S.W. (2000) *Stereological assessment of lesion development after spinal cord injury in rats: effect of methylprednisolone*, Society for Neuroscience Meeting
19. Sullivan P.G., **Rabchevsky A.G.**, Keller J.N., Lovell M.A. and Scheff. S.W. (2000) *Intrinsic differences between brain and spinal cord mitochondria*, Society for Neuroscience Meeting
20. Scheff S.W., **Rabchevsky A.G.**, Fugaccia I., Zhang P., Lump J.E., Main J.A. (2000) *A contusion model of spinal cord injury for use in both rats and mice*, J. Neurotrauma 17(10), p. 945
21. Sullivan P.G., Keller J.N., **Rabchevsky A.G.**, Lovell M.A. and Scheff. S.W. (2000) *Intrinsic differences in isolated brain and spinal cord mitochondria*, J. Neurotrauma 17(10), p. 950
22. Price D., Sullivan P.G., **Rabchevsky A.G.** and Scheff. S.W. (2000) *Dose response curve and optimal dosing of cyclosporin A after traumatic brain injury*, J. Neurotrauma 17(10), p. 961
23. **Rabchevsky A.G.**, Fugaccia I., Scheff S.W. (2000) *Stereological assessment of lesion volume after spinal cord injury in rats: effect of methylprednisolone*, J. Neurotrauma 17(10), p. 961
24. Zhang P., **Rabchevsky A.G.**, Fugaccia I. and Scheff S.W. (2000) *Intrathecal GDNF infusion fails to protect the injured rat spinal cord*, J. Neurotrauma 17(10), p. 965
25. Fugaccia I., **Rabchevsky A.G.**, Sullivan P.G. and Scheff S.W. (2000) *Stereological assessment of spared tissue following spinal cord injury in the rat*, J. Neurotrauma 17(10), p. 979
26. **Rabchevsky A.G.**, Fugaccia I., Sullivan P.G. and Scheff S.W. (2001) *Creatine diet supplement does not improve recovery or tissue sparing after spinal cord injury*,

Society for Neuroscience Meeting

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

modulates the severity of autonomic dysreflexia, Society for Neuroscience Annual Meeting, San Diego, CA

40. Cameron A.A., Smith G.M., Randall D.C., Brown D.R. and **Rabchevsky A.G.** (2004) *Genetic manipulation of afferent fiber sprouting following spinal cord injury modulates the severity of autonomic dysreflexia*, J. Neurotrauma 21(9), p. 1271
41. **Rabchevsky A.G.** and Smith G.M. (2004) *Gene therapy following spinal cord injury alters sensory fiber sprouting and intraspinal plasticity to modulate the severity of autonomic dysreflexia*. The International Spinal Research Trust Symposium, London, United Kingdom
42. **Rabchevsky, A.G.** (2005) *Influence of propriospinal pathway plasticity following spinal cord injury in the development of autonomic dysreflexia*, The 4th Congress of the International Society for Autonomic Neuroscience, Marseille, France
43. Krishnamurthy S., Pandya, J.D., Sullivan P.G. and **Rabchevsky A.G.** (2005) *Temporal study of mitochondrial bioenergetics following mid-thoracic spinal cord contusion injury in rats*, J. Neurotrauma 22(10), p. 1239
44. Krishnamurthy S., Cameron A.A., Lyttle T.S., Schwindel L.E., Carrico K.M. and **Rabchevsky A.G.** (2005) *Injury-induced neural plasticity influences the onset of autonomic dysreflexia in rats after complete high thoracic spinal cord transection*, J. Neurotrauma 22(10), p. 1172
45. Lyttle T.S., Voskresensky I.V., Schwindel L.E., Carrico K.M., **Rabchevsky A.G.** (2005) *Dose-dependent recovery of hind limb function with fibroblast growth factor-2 (FGF-2) over-expression at site of thoracic spinal cord contusion injury*, J. Neurotrauma 22(10), p. 1222
46. Xiong Y., **Rabchevsky A.G.**, Lyttle T.S., Thompson B.M. and Hall E.D. (2005) *Time course of oxidative damage and cytoskeletal degradation after spinal cord contusion injury in rats*, J. Neurotrauma 22(10), p. 1173
47. Hou S., Duale H., Lyttle T.S. and **Rabchevsky A.G.** (2006) *Contribution of propriospinal plasticity to the development of autonomic dysreflexia after complete spinal cord injury*, Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
48. Lyttle T.S., Wallace S.M., Carrico K.M. and **Rabchevsky A.G.** (2006) *Improved hind limb locomotor recovery after spinal cord injury with fibroblast growth factor-2 (FGF-2) over-expression is correlated with oligodendrocyte repopulation throughout ventrolateral white matter*, J. Neurotrauma 23(6), p. 995
49. Hou S., Krishnamurthy, S., Cameron A.A., Lyttle T.S. and **Rabchevsky A.G.** (2006) *Plasticity of propriospinal neurons correlates with autonomic dysreflexia after complete thoracic spinal cord transection in rat* J. Neurotrauma 23(6), p. 1026
50. 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
51. Hou S.P., Duale H., Cameron A.A., Abshire S.M. and **Rabchevsky A.G.** (2007)

Plasticity of lumbosacral propriospinal neurons is associated with the development of autonomic dysreflexia after thoracic spinal cord transection, Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY

52. Duale H., Hou S.P., Derbenev A.V., Smith B.N., **Rabchevsky A.G.** (2007) *Intraspinal plasticity and autonomic dysreflexia after spinal cord injury: a transneuronal tracing study using pseudorabies virus*, Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
53. **Rabchevsky A.G.** (2007) *Experimental potentials and clinical pitfalls of SCI therapeutics: Perspectives from a neuroscientist with SCI*, Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
54. Hou S., Duale H., Cameron A.A., Abshire S.M. and **Rabchevsky A.G.** (2007) *Plasticity of lumbosacral propriospinal neurons is associated with the development of autonomic dysreflexia after thoracic spinal cord transection*. J. Neurotrauma 24(7), p. 1231
55. Duale H., Hou S., Derbenev A., Smith B.N. and **Rabchevsky A.G.** (2007) *Intraspinal plasticity and autonomic dysreflexia after spinal cord injury: a transneuronal tracing study using pseudorabies virus*, J. Neurotrauma 24(7), p. 1260
56. Hou S., Duale H., Derbenev A.V., Smith B.N. and **Rabchevsky A.G.** (2007) *Propriospinal plasticity after spinal cord transection is associated with development of autonomic dysreflexia*, Neurorehab. & Neural Repair 21(6), p. 611
57. Duale H., Hou S., Derbenev A.V., Smith B.N., **Rabchevsky A.G.** (2008) *Severe spinal cord injury dramatically reduces the efficacy of pseudorabies virus labeling of sympathetic preganglionic neurons*, Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
58. Hou S., Duale H. and **Rabchevsky A.G.** (2008) *Intraspinal sprouting of unmyelinated pelvic afferents after complete spinal cord injury mediates autonomic dysreflexia induced by visceral pain*, Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
59. Patel S.P., Lyttle T.S., Sullivan P.G. and **Rabchevsky A.G.** (2008) *Effect of acetyl-L-carnitine on mitochondrial dysfunction following acute contusion spinal cord injury*, Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
60. Duale H., Hou S., Derbenev A.V., Smith B.N. and **Rabchevsky A.G.** (2008) *Severe spinal cord injury dramatically reduces the efficacy of pseudorabies virus labeling of sympathetic preganglionic neurons*, J. Neurotrauma 25(7), p. 859 The 26th National Neurotrauma Society Symposium, Orlando, FL
61. Hou S., Duale H. and **Rabchevsky A.G.** (2008) *Intraspinal sprouting of unmyelinated pelvic afferents after complete spinal cord injury mediates autonomic dysreflexia induced by visceral pain*, J. Neurotrauma 25(7), p. 860 The 26th National Neurotrauma Society Symposium, Orlando, FL
62. Patel S.P., Lyttle T.S., Sullivan P.G. and **Rabchevsky A.G.** (2008) *Effect of acetyl-L-*

carnitine on mitochondrial dysfunction following acute contusion spinal cord injury, J. Neurotrauma 25(7), p. 893 The 26th National Neurotrauma Society Symposium, Orlando, FL

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 76. **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 Meeting, Washington, D.C
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86. **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 Meeting, Washington, DC
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90. Patel S.P., VanRooyen J.L. Sullivan P.G. and **Rabchevsky A.G.** (2015) *Synergistic effects of β -hydroxybutyrate and acetyl-L-carnitine on mitochondrial function after spinal cord injury*, J. Neurotrauma 32, p. A-118 33rd National Neurotrauma Society Symposium, Santa Fe, NM
91. Eldahan K.C., VanRooyen J.L., Patel S.P. and **Rabchevsky A.G.** (2015) *Pharmacological manipulation of maladaptive plasticity to prevent autonomic dysreflexia*, The 16th International Symposium on Neural Regeneration, Asilomar, Pacific Grove, CA
92. 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
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National Neurotrauma Society Symposium, Lexington, KY

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96. Gollihue J.L., Patel S.P., Mashburn C., Eldahan K.C., Cox D., Sullivan P.G. and **Rabchevsky A.G.** (2016) *Mitochondrial transplantation into the injured spinal cord improves cellular respiration*, The 1st Annual Clinical-Translational Research Symposium, Kentucky Neuroscience Institute, Lexington, KY
97. Eldahan K.C., Cox D.H., Gollihue J.L., Patel S.P. and **Rabchevsky A.G.** (2016) *Chronic rapamycin administration after high-thoracic spinal cord injury exacerbates cardiovascular dysfunction*, The 1st Annual Clinical-Translational Research Symposium, Kentucky Neuroscience Institute, Lexington, KY
98. Patel S.P., Cox D.H., Gollihue J.L., Bailey W., Gensel J., Sullivan P. and **Rabchevsky A.** (2016) *Pioglitazone improves functional neuroprotection following spinal cord injury*, 1st Annual Clinical-Translational Research Symposium, Kentucky Neuroscience Institute, Lexington, KY
99. Hou S., Saltos T., Connors T., Eldahan K.C., **Rabchevsky A.G.**, Lu P., Tom V.J. (2016) *Grafting embryonic raphe nuclei cells into a complete spinal cord injury site reestablishes serotonergic modulation of sympathetic activity and improves cardiovascular regulation*, Society for Neuroscience Meeting, San Diego, CA
100. Gollihue J., Patel S., Eldahan K., Cox D. and **Rabchevsky A.** (2017) *Mitochondrial transplantation restores bioenergetics after spinal cord injury*, The FASEB Journal, 31(1_supplement) Abstract #693.10, Experimental Biology Annual Meeting, Chicago, IL
101. Patel S.P., Gollihue J.L., Eldahan K.C., Cox D.H., Sullivan P.G. and **Rabchevsky A.G.** (2017) *Mitochondrial transplantation following contusion spinal cord injury*, J. Neurotrauma 34 (A-66), p. A18-11 The 35th Annual National Neurotrauma Society Symposium, Snowbird, UT
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103. Patel S.P., Gollihue J.L., Eldahan K.C., Cox D.H., Sullivan P.G., **Rabchevsky A.G.** (2017) *Mitochondrial transplantation following contusion spinal cord injury*, The 19th International Spinal Research Trust Meeting, London, United Kingdom
104. Patel S.P., Gollihue J.L., Eldahan K.C., Cox D., Sullivan P.G. and **Rabchevsky A.G.** (2017) *Mitochondrial transplantation following contusion spinal cord injury*, The 2nd Annual Clinical-Translational Research Symposium, Kentucky Neuroscience Institute, Lexington, KY
105. Patel S.P., Gollihue J.L., Eldahan K.C., Cox D.H., Sullivan P.G. and **Rabchevsky A.G.**

- (2017) *Transplantation of mitochondria following spinal trauma*, Society for Neuroscience Meeting, Washington, DC
106. Steele A.M., Starr M.E., Patel S. P., Smith J.D., Kuriyama N., Stromberg A. J., Kaneki M., Esser K.A., **Rabchevsky A.G.**, Peterson C.A. and Saito H. (2017) *Mitochondrial damage and dysfunction in skeletal muscle of middle-aged sepsis survivors*, Shock 47(6) Suppl. 1:30-31
 107. Steele A.M., Starr M.E., Patel S. P., Smith J.D., Kaneki M., Esser K.A., **Rabchevsky A.G.**, Peterson C.A. and Saito H. (2017) *Mitochondrial Myopathy in Murine Sepsis Survivors with Long-Term Muscle Weakness*, The 15th Biennial Advances in Skeletal Muscle Health and Disease Conference, Gainesville, FL
 108. Patel S., Cox D., Bailey W., Williams, H., Gensel, J., Sullivan P. and **Rabchevsky A.** (2018) *Pioglitazone maintains mitochondrial bioenergetics via binding to mitoNEET following spinal cord injury*, J. Neurotrauma 35 (PS2.03.13), p. A-166 The 3rd International/National Neurotrauma Society Symposium, Toronto, Ontario CAN
 109. Patel S.P., Cox D.H., Bailey W.M., Williams, H.C., Gensel, J.C., Sullivan P.G. and **Rabchevsky A.G.** (2018) *Pioglitazone maintains mitochondrial respiration following spinal cord injury via interaction with mitoNEET*, Society for Neuroscience Meeting, San Diego, CA
 110. Stamm S., Danyi S.N., Patel S.P. and **Rabchevsky A.G.** (2018) *Splice-site changing oligonucleotides targeting the serotonin receptor 2C to reduce spasticity after spinal cord injury*, RNA International Meeting, San Francisco, CA
 111. Patel S.P., Gollihue J.L., Williams, H., Cox D.H., Sullivan P.G. and **Rabchevsky A.G.** (2019) *Effects of mitochondrial transplantation on bioenergetics and neuroprotection following spinal cord injury*, The 26th Annual American Society for Neural Therapy and Repair Conference, Clearwater, FL
 112. Bourbeau D., Bolon A., Creasey G., Fertig B., French J., Jeji T., Kaiser A., **Rabchevsky A.G.**, Santacruz B.G., Sun J., Thor K., Wheeler T. and Wierbicky J. (2019) *Needs, priorities, and attitudes of individuals with neurogenic bladder and bowel dysfunction considering nerve stimulation devices*. The 45th American Spinal Injury Association (ASIA), Waikiki, HI
 113. Danyi S.N., Cox D.H., Patel S.P., Spielmann H.P., **Rabchevsky A.G.** and Stamm S. (2019) *Splice-site changing oligonucleotides targeting the serotonin receptor 2C may reduce spasticity after spinal cord injury*, RNA International Meeting, Krakow, Poland
 114. Khan M.A., Marium M.A., Wiegman K., Nuti K., Patel S.P., DeRouchey J.E., **Rabchevsky A.G.** and Dziubla T.D. (2020) *Synthesis and optimization of hyaluronic acid-methyl cellulose thermogel for the controlled release of viable mitochondria*, American Institute of Chemical Engineers (AIChE) meeting: Materials Engineering and Sciences Division
 115. Jagielo-Miller, J. E., Patel, S. P., Bailey, C. S., Count, C. T., **Rabchevsky, A. G.** and Prendergast, M. A. (2021) *Ethanol exaggerates cell death at high but not low impact force in an organotypic hippocampal slice culture mechanical distension*

model of traumatic brain injury, Virtual poster, Society for Neuroscience meeting (50th)

116. Michael F.M., Patel S.P., Vaught H.M., Khan M.A., Sullivan P.G., DeRouchey J., Dziubla T.D. and Rabchevsky A.G. (2021) *Mitochondrial transplantation into the spinal cord via engineered erodible hydrogels*, Annual Military Health System Research Symposium
117. Duggan B., Khan M.A., Marium, M.A., Darby D., Chaudhuri K., Michael F., Pham J., Patel S.P., DeRouchey J.E., **Rabchevsky A.G.**, Dziubla T.D. (2021) *Mechanical characterization, release and degradation of hyaluronic acid-methyl cellulose thermogels for viable mitochondria replacement therapy*, American Institute of Chemical Engineers (AIChE) meeting: Materials Engineering and Sciences Division
118. Patel S.P., Michael F.M., Vaught H.M., Khan M.A., Sullivan P.G., DeRouchey J., Dziubla, T.D. and **Rabchevsky A.G.** (2021) *Development of a thermal-gelling, erodible hydrogel for localized delivery of viable mitochondria*, J. Neurotrauma, The 38th Annual National Neurotrauma Society Virtual Symposium
119. Michael F., Danyi S., Patel S., de la Grange P., Stamm S. and **Rabchevsky A.** (2021) *Spinal cord injury induces alterations in the regulation of gene expression by intron retention*, J. Neurotrauma, The 38th National Neurotrauma Society Symposium, Virtual Symposium
120. Griesbach G., **Rabchevsky A.**, Wagner A. and LaPlaca M. (2021) *Neurotrauma advocacy: Building a pathway for the future*, J. Neurotrauma The 38th Annual National Neurotrauma Society Virtual Symposium
121. Michael F.M., Patel S.P., Vaught H.M., Sullivan P.G., DeRouchey J., Dziubla T.D. and **Rabchevsky A.G.** *Optimization of mitochondrial transplantation via engineered erodible hydrogels* (2021) Research Poster Competition, University of Kentucky, Lexington, KY
122. Michael F.M., Patel S. P., Vaught, H.M., Khan M.A., Sullivan P.G., DeRouchey J., Dziubla T.D. and **Rabchevsky A.G.** (2021) *Optimization of engineered erodible thermal hydrogels for mitochondrial transplantation*, The 26th Kentucky Spinal Cord & Head Injury Research Trust Virtual Symposium, Lexington, KY
123. Jagielo-Miller J.E., Patel S.P., Bailey C.S., Count C.T., **Rabchevsky A.G.** and Prendergast M.A. (2022) *Ethanol pre-exposure differentially impacts cell survival based on injury severity in an organotypic hippocampal slice culture model of traumatic brain injury*. Substance Use Research Day, University of Kentucky, Lexington, KY
124. Michael F.M., Kaur S., Patel S. P., Vaught, H.M., Tharappel., Sullivan P.G. and **Rabchevsky A.G.** (2022) *Reversible inhibitory DREADDS mediated silencing of ascending propriospinal neurons suppressed autonomic dysreflexia by modulating signal relay between lumbosacral sensory fibers and thoracolumbar sympathetic preganglionic neurons*, Annual Clinical-Translational Research Symposium, Kentucky Neuroscience Institute, Lexington, KY
125. Patel S.P., Michael F.M., Khan M.A., Tharappel J., Vaught H., Sullivan P.G., DeRouchey J., Dziubla, T.D. and **Rabchevsky A.G.** (2022) *Mitochondrial*

transplantation to the injured spinal cord via engineered erodible hydrogels, Annual Clinical-Translational Research Symposium, Kentucky Neuroscience Institute, Lexington, KY

126. Michael F.M., Patel S.P., Tharappel J., Vaught H.M., Khan A.F., Sullivan P.G., DeRouchey J., Dziubla T.D. and **Rabchevsky A.G.** (2022) *Erodible thermogelling hydrogels for subdural transplantation of exogenous mitochondria following spinal cord injury*, The 29th American Society for Neural Therapy and Repair Conference, Clearwater, FL
127. Michael F.M., Patel S.P., Tharappel J., Vaught H.M., Khan M.A., Sullivan P.G., DeRouchey J., Dziubla T.D. and **Rabchevsky A.G.** (2022) *Delivering mitochondria to the spinal cord via engineered erodible hydrogels*, Annual Military Health System Research Symposium
128. Patel S.P., Michael F.M., Khan A.F., Sullivan P.G., DeRouchey J.E., Dziubla T.D. and **Rabchevsky A.G.** (2022) *Exogenous mitochondrial supplementation to the injured spinal cord via engineered erodible hydrogels*, J. Neurotrauma The 39th National Neurotrauma Society Hybrid Symposium, Atlanta, GA
129. Michael F.M., Patel S.P., Vaught H.M., Tharappel J. and **Rabchevsky A.G.** (2022) *Chemogenetic silencing of ascending propriospinal neurons to modulate autonomic dysreflexia*, J. Neurotrauma The 39th National Neurotrauma Society Hybrid Symposium, Atlanta, GA
130. Gallegos Z., Ammar J.A., Patel S.P., **Rabchevsky A.G.**, Dziubla T. and DeRouchey J. (2022) *Characterization of thermogels for mitochondria delivery*, Undergraduate Research Poster Competition, University of Kentucky, Lexington, KY
131. Patel S.P., Michael F.M., Tharappel J., Vaught H.M., Khan A.F., Sullivan P.G., DeRouchey J., Dziubla T.D. and **Rabchevsky A.G.** (2022) *Delivering mitochondria to the spinal cord via engineered erodible hydrogels*, Society for Neuroscience Annual Hybrid Meeting, San Diego, CA
132. Michael F.M., Patel S.P., Vaught H.M., Tharappel J. and **Rabchevsky A.G.** (2022) *Reversible chemogenetic silencing of ascending propriospinal neurons modulates hemodynamic changes associated with autonomic dysreflexia in response to noxious stimuli following spinal cord injury*. Society for Neuroscience Hybrid Meeting, San Diego, CA
133. Akin E.V.; Michael F.M., Tharappel J.T., Vaught H.M., Khan A.F., Ahmed J.A., Sullivan P.G., DeRouchey J.E., Dziubla T.D., **Rabchevsky A.G.** and Patel S.P. (2023) *Effects of subdural delivery of mitochondria in combination with neuroprotective agents on cellular bioenergetics in contused spinal cord*, The 28th Kentucky Spinal Cord & Head Injury Research Trust Symposium, Lexington, KY
134. Patel S.P., Michael F.M., Tharappel J.T., Vaught H.M., Akin E.V., Khan A.F., Ahmed J. A., Sullivan P.G., DeRouchey J.E., Dziubla T.D. and **Rabchevsky A.G.** (2023) *Effect of subdural transplantation of mitochondria on cellular bioenergetics following contusion spinal cord injury*, J. Neurotrauma, P02.07 The 40th National Neurotrauma Society, Austin, TX
135. Ahmed A.J., Gallegos Z., DeRouchey J.E., Patel S.P., **Rabchevsky A.G.** and Dziubla

- T.D. (2023) Erodible thermogelling hydrogels for localized mitochondria delivery to spinal cord injuries. SFB Biomaterials Day, Vanderbilt University, Nashville TN
136. Ahmed A.J., Gallegos Z., DeRouchey J.E., Patel S.P., **Rabchevsky A.G.** and Dziubla T.D. (2023) *Physiochemical characterization of hyaluronic acid-methylcellulose hydrogels for mitochondria transplantation*, American Institute of Chemical Engineers (AIChE) meeting: Materials Engineering and Sciences Division.
 137. Patel S.P., Michael F.M., Tharappel J., Vaught H.M., Khan M.A., Sullivan P.G., DeRouchey J., Dziubla T.D. and **Rabchevsky A.G.** (2023) *Delivering mitochondria to the spinal cord via engineered erodible hydrogels*, Annual Military Health System Research Symposium, Kissimmee, FL
 138. **Rabchevsky, A.G.** (2023) *What is the optimism that regeneration strategies (clinical) can be designed and implemented to restore lost functions after spinal cord injury?* The 18th annual Science & Advocacy Symposium (Working2Walk), Unite 2 Fight Paralysis organization, Minneapolis, MN
 139. Ahmed A.J., DeRouchey J.E., Sullivan P.G., Patel S.P., **Rabchevsky A.G.** and Dziubla T.D. (2024) *Grafted poly(N-isopropylacrylamide) on hyaluronic acid as an injectable hydrogel for localized mitochondria delivery*, American Institute of Chemical Engineers (AIChE) meeting: Materials Engineering and Sciences Division.
 140. Jessica L. Nielson, David W. McMillan, Evan C. Lewis, Dominik Zbogor, Ricardo Battaglino, **Alexander G. Rabchevsky**, Robert Wudlick, Tegan M. Carr (2025) *Muscle spasms and pain reduction in people with spinal cord injury who use psilocybin – results from an anonymous online survey study*. Psychedelic Science conference, Denver, CO

XIII. PROFESSIONAL SYMPOSIA ATTENDED

2025	American College of Veterinary Internal Medicine (ACVIM) forum, Louisville, KY
2024	The 19 th annual Science & Advocacy Symposium, Unite 2 Fight Paralysis, Atlanta, GA
2023	The 18 th annual Science & Advocacy Symposium, Unite 2 Fight Paralysis, Minneapolis, MN
2023	The Inaugural progress meeting of the Mend the Gap (MTG) project, “A Transformative Biomaterials Platform for Spinal Cord Repair”, ICORD, UBC, Vancouver, Canada
2023	The 20 th International Symposium on Neural Regeneration SAB, Stevenson, WA
2022	The 17 th annual Science & Advocacy Symposium, Unite 2 Fight Paralysis, Salt Lake City, UT
2022	The 51 st annual Society for Neuroscience Meeting, San Diego, CA
2022	The 38 th annual Neurotrauma Society Symposium, Atlanta, GA
2021	The 26 th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
2021	The 16 th annual Science & Advocacy Symposium, Unite 2 Fight Paralysis organization <i>virtual</i>
2021	The 38 th Annual National Neurotrauma Society symposium <i>virtual</i>
2020	The 15 th annual Science & Advocacy <i>virtual</i> Symposium, Unite 2 Fight Paralysis organization
2019	The 14 th annual Science & Advocacy Symposium, Unite 2 Fight Paralysis, Cleveland, OH
2019	SCI 2020: Launching a Decade for Disruption in Spinal Cord Injury Research, Bethesda, MD
2019	The 25 th annual American Society for Neural Therapy & Repair Conference, Clearwater, FL
2019	The 37 th annual Neurotrauma Society Symposium, Pittsburgh, PA
2019	The 25 th annual Kentucky Spinal Cord & Head Injury Research Symposium, Louisville, KY
2019	The 22 nd annual American Society Neural Therapy and Repair Conference, Clearwater, FL
2018	The 3 rd Joint National/International Neurotrauma Society Symposium, Toronto, Canada
2018	The 24 th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
2018	The 47 th annual Society for Neuroscience Meeting, San Diego, CA
2017	The 23 rd annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
2017	The 35 th annual National Neurotrauma Society Symposium, Snowbird, UT
2017	The 17 th International Symposium on Neural Regeneration, Asilomar, Pacific Grove, CA
2017	The Inaugural meeting of the North American Spinal Cord Injury Consortium, Miami, FL
2017	The 12 th annual Science & Advocacy Symposium, Unite 2 Fight Paralysis, Miami, FL
2017	The 13 th International Spinal Research Trust Symposium, London, UK
2017	The 46 th annual Society for Neuroscience Meeting, Washington, DC
2016	The 22 nd annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
2016	The 34 th annual National Neurotrauma Society Symposium, Lexington, KY
2015	The 16 th International Symposium on Neural Regeneration, Asilomar, Pacific Grove, CA
2015	The 21 st annual Kentucky Spinal Cord & Head Injury Research Symposium, Louisville, KY
2015	The 33 rd annual National Neurotrauma Society Symposium, Santa Fe, NM
2015	The 22 nd annual American Society for Neural Therapy & Repair Conference, Clearwater, FL
2014	The 20 th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY

2014 The 44th annual Society for Neuroscience Meeting, Washington, DC
 2013 The 19th annual Kentucky Spinal Cord & Head Injury Research Symposium, Louisville, KY
 2013 The 31st annual National Neurotrauma Society Symposium, Nashville, TN
 2012 The 42nd annual Society for Neuroscience Meeting, New Orleans, LA
 2012 The 30th annual National Neurotrauma Society Symposium, Phoenix, AZ
 2012 The 18th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
 2011 The 29th annual National Neurotrauma Society Symposium, Fort Lauderdale, FL
 2010 The 17th annual Kentucky Spinal Cord & Head Injury Research Symposium, Louisville, KY
 2011 The 41st annual Society for Neuroscience Meeting, Washington, DC
 2010 The 16th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
 2010 The 28th annual National Neurotrauma Society Symposium, Las Vegas, NV
 2010 The 40th annual Society for Neuroscience Meeting, San Diego, CA
 2009 The 2nd Joint National/International Neurotrauma Society Symposium, Santa Barbara, CA
 2009 The 15th annual Kentucky Spinal Cord & Head Injury Research Symposium, Louisville, KY
 2008 The 26th annual National Neurotrauma Society Symposium, Orlando, FL
 2008 The 14th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
 2010 The 25th annual National Neurotrauma Society Symposium, Kansas City, MO
 2007 The 13th annual Kentucky Spinal Cord & Head Injury Research Symposium, Louisville, KY
 2006 The 12th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
 2006 The 24th annual National Neurotrauma Society Symposium, St. Louis, MO
 2005 The 4th Congress of the International Society for Autonomic Neuroscience, Marseille, France
 2005 The 23rd annual National Neurotrauma Society Symposium, Washington, DC
 2005 The 11th annual Kentucky Spinal Cord & Head Injury Research Symposium, Louisville, KY
 2004 The 10th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
 2004 The 34th annual Society of Neuroscience Meeting, San Diego, CA
 2004 The 22nd annual National Neurotrauma Society Symposium, San Diego, CA
 2004 The 6th International Spinal Research Trust Symposium, London, UK
 2003 The 1st Symposium on Autonomic Dysfunction after Spinal Cord Injury, Banff, Alberta, CAN
 2003 The 9th annual Kentucky Spinal Cord & Head Injury Research Symposium, Louisville, KY
 2003 The 21st annual National Neurotrauma Society Symposium, Biloxi, MS
 2002 The 8th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
 2002 The 1st Joint National/International Neurotrauma Society Symposium, Tampa, FL
 2002 The 5th International Spinal Research Trust Symposium, London, UK
 2001 The 31st annual Society of Neuroscience Meeting, San Diego, CA
 2001 The 7th annual Kentucky Spinal Cord & Head Injury Research Symposium, Louisville, KY
 2001 The 20st annual National Neurotrauma Society Symposium, San Diego, CA
 2000 The 6th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY

2000	The 30 th annual Society of Neuroscience Meeting, New Orleans, LA
2000	The 19 th annual National Neurotrauma Society Symposium, New Orleans, LA
1999	The 8 th International Symposium on Neural Regeneration, Asilomar, Pacific Grove, CA.
1999	The 5 th annual Kentucky Spinal Cord & Head Injury Research Symposium, Louisville, KY
1999	The 18 th annual National Neurotrauma Society Symposium, Miami, FL
1998	The 17 th annual National Neurotrauma Society Symposium, Los Angeles, CA
1998	The 4 th annual Kentucky Spinal Cord & Head Injury Research Symposium, Lexington, KY
1997	The 16 th annual European Society for Neuroscience Meeting, Bordeaux, France
1997	The 27 th annual Society of Neuroscience Meeting, New Orleans, LA
1997	The 16 th annual National Neurotrauma Society Symposium, New Orleans, LA
1996	The 15 th annual National Neurotrauma Society Symposium, Washington, DC
1994	The 13 th annual National Neurotrauma Society Symposium, Miami, FL
1994	The 24 th annual Society of Neuroscience Meeting, Miami, FL
1994	The 1 st annual American Society for Neural Therapy & Repair Conference, Clearwater, FL
1993	The 23 rd annual Society of Neuroscience Meeting, Washington, DC