

## Mónika Sztretye

PERSONAL INFORMATION	Mónika Tünde Sztretye					
	H-4002 Debrecen PO BOX 400. (Hu	ngary)				
	+36 20 960 0064, +36 52 255 575					
	🔀 sztretye.monika@med.unideb.hu					
	Date of birth 22. February 1981					
WORK EXPERIENCE						
2022 - present	research associate Cell Physiology Research Group, Eötvös Loránd Research Network (ELKH)					
2011 – present	research associate University of Debrecen, Faculty of Medicine, Department of Physiology					
2014	visiting research fellow Universitatsspital Basel, Switzerland					
2007 – 2011	postdoc Rush University Medical Center, Chicago, IL, USA					
2005 – 2007	junior research associate Medical University of Debrecen, Dep	partment of Physiology				
Other	2015-2016 maternity leave					
EDUCATION AND TRAINING						
2010	PhD University of Debrecen Medical and Health Science Center, Faculty of Medicine, Department of Physiology Thesis: Modulation and alteration of the elementary calcium release events under normal and pathological conditions					
2005-2007	PhD student					
	Medical University of Debrecen, Department of Physiology					
2003 – 2005	MSc in Biophysics University of Oradea (Romania), Faculty of Sciences, Physics of Biomedical Explorations and Therapies section Thesis: Theoretical basis for the calculation of the absorbed doses in photon beams radiotherapy					
1999 – 2003	Physics-Chemistry License Degree University of Oradea (Romania), Faculty of Sciences Physics – Chemistry section Thesis: A comparative study for the distribution of absorbed dose in tissue at irradiation of rhinopharyngeal tumors with fascicles of different energies					
PERSONAL SKILLS						
Mother tongue	Hungarian					
Other language(s)	UNDERSTANDING	SPEAKING	WRITING			



	Listening	Reading	Spoken interaction	Spoken production			
English	C2	C2	C2	C2	C2		
Romanian	C2	C2	C2	C2	C2		
	Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user Common European Framework of Reference for Languages						
Communication skills	I have excellent communication skills both verbally and in writing which I actively use to establish and maintain collaborations with domestic and foreign research groups.						
Organizational / management skills	I pride myself with sense of responsibility, opinion-forming skills, organizational skills, consensus- oriented cooperation, consensus-oriented decision-making, problem-solving skills, team spirit, loyalty, conflict management skills, active monitoring, planning skills, team skills, balanced self-confidence, positive self-awareness, coordination skills.						
Job-related skills	I pride myself with excellent problem-solving skills and to be a result orientated person. I have many years of experience, which I gained in a responsible and challenging environment. I have experience in handling experimental animals and conducting animal experiments (Laboratory Animal Science and Welfare level EU-B, certificate no. 430/B/2022/DEMÁB)						
Computer skills	Microsoft Office™, Sigma Plot						
EDUCATIONAL ACTIVITIES							
Teaching experience	Medical physiology for general medicine and dentistry students - practical since 2011 in Hungarian and English Cell physiology lecture for molecular biology students since 2019 in Hungarian and English Human physiology practical and seminars for pharmacy students since 2011 in Hungarian and English Thesis supervision of 2 PhD students						
Visiting professorship	Visiting scientist Universitatspital Basel Department of Biomedicine in 2014						
PUBLIC ACTIVITIES							
Awards	2019 Short rese Budapest	arch visit to Siena,		al Conference Scientific to Sorrentino) - Italian C award			

- 2014 European Young Physiologist Symposium award (Budapest, Hungary)
- 2013 FEPS-IUPS travel award (Birmingham, UK)

## SCIENTIFIC ACTIVITIES Research interests Electromechanical coupling of striated muscles. Optical detection of intracellular calcium concentration changes, investigation of calcium homeostasis in excitable cells. Functional investigation of ion channels during muscle activity using electrophysiological methods and confocal microscopy.



The role of the endocannabinoid system in skeletal muscle function. The role of mitochondria in muscle diseases; antioxidants.

Member of the Public Board of the Hungarian Academy of Sciences since 2021.

Research grants 2022-2026 "*NKFIH FK\_22 grant*" – lead scientist (title: **Investigating the role of the skeletal** endocannabinoid system in health and disease ID: FK 142481)

2022 "NKFIH Mec\_R\_22 travel grant – lead scientist (title: **The role of store operated calcium** entry in healthy and diseased mouse skeletal muscle cells)

2022-2023 *"TÉT grant"* – lead scientist (title: **Assessing the ability of cannabinoids to correct the calcium fluxes in skeletal muscle fibers from mdx mice**, ID: 2019-2.1.11-TÉT-2019-00102)

2021-2022 *"TÉT grant"* – co-researcher (title: **The role of the skeletal endocannabinoid system in health and disease**, ID: 2019-2.1.11-TÉT-2019-00063)

2020-2022 Erasmus+ teachers mobility, University of Oradea, Romania

2021 "University of Debrecen – Bridging fund research grant (3 M HUF)

2020-2021 "University of Debrecen –Support for young teachers/researchers to initiate PhD topics (1.5 M HUF)

2018–2021 "*NKFIH PD\_18 grant*" – lead scientist (title: **Carotenoids, as biological mediators** responsible for enhanced skeletal muscle function; ID: **PD 128370**)

2014–2018 "*NKFIH PD\_14 grant*" – lead scientist (title: **The role of store operated calcium** entry in healthy and diseased mouse skeletal muscle cells, ID: PD 108476)

2018 *"Bolyai+ Higher Education Research fellowship"* (Ministry of Innovation and Technology, New National Excellence Program; title: Investigating the role of mitochondria and store-operated calcium entry in healthy and diseased skeletal muscle fibers, ID: ÚNKP-18-4-DE-157)

2016-2019 "Bolyai János Research fellowship" (Hungarian Academy of Sciences) (title: Investigating the role of mitochondria and store-operated calcium entry in healthy and diseased skeletal muscle fibers ; ID: BO/00929/16)

2014 "SCIEX-NMS" research fellowship (8 months) (title: JP-45 variants as functional modifiers of the MH phenotype)

2005-2006 "Young researcher" - European Research Training network on skeletal muscle – The sixth framework programe (FP6) Medical University of Debrecen, Department of Physiology

Research publications <u>https://scholar.google.com/citations?user=qKgRhN0AAAAJ&hl=en</u> MTMT ID: 10027648 ORCID: 0000-0002-5946-6986