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## BIOGRAPHICAL SKETCH

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NAME	POSITION TITLE
<b>Mónika Sztretye (Fehér)</b>	<b>Postdoctoral Fellow</b>

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INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Oradea, Romania	BSc.	1999-2003	Physics - Chemistry
University of Oradea, Romania	MSc.	2003-2005	Biophysics
University of Debrecen, Hungary	Ph.D.	2005-2007	Physiology
Rush University Medical Center, Chicago, USA	postdoc	2007-	Physiology

### **Positions and Employment**

- 2005-2006: Researcher, The European Research Training Network on Skeletal Muscle, University of Debrecen Medical and Health Science Center, Faculty of Medicine, Department of Physiology, Hungary;
- 2006-2007: Junior Researcher, University of Debrecen Medical and Health Science Center, Faculty of Medicine, Department of Physiology, Hungary;
- 2007-present: Research scholar, Rush University Medical Center, Department of Molecular Biophysics & Physiology, Section of Cellular Signaling, Chicago, USA;

### **Professional memberships**

Biophysical society (2007-present)

### **Scientific Conferences and Training**

- 27<sup>th</sup> of February – 4<sup>th</sup> of March 2009, Boston, Massachusetts, Biophysical Society 53<sup>rd</sup> Annual Meeting;
- 2-6<sup>th</sup> of February 2008, Long Beach, California, Biophysical Society 52<sup>nd</sup> Annual Meeting;
- 6-8<sup>th</sup> of June 2007, Pécs, Hungarian Physiological Society LXXI Annual Meeting;
- 30<sup>th</sup> of May - 2<sup>nd</sup> of June 2007, Debrecen, University of Debrecen Medical and Health Science Center – “XII Nephrology Conference”;
- 19-23<sup>rd</sup> of February 2007, Debrecen, University of Debrecen Medical and Health Science Center - „Annual Ph.D. Conference”;

2-3<sup>rd</sup> of February 2007, Debrecen, Hungarian Biotechnology Association, Biomanager training;  
27-28<sup>th</sup> of October 2006, Szeged, Hungarian Biotechnology Association, Biomanager training;  
29-30<sup>th</sup> of September 2006, Budapest, Hungarian Biotechnology Association, Biomanager training;  
9-10<sup>th</sup> of June 2006, Debrecen, Hungarian Biotechnology Association, Biomanager training;  
7-9<sup>th</sup> of June 2006, Szeged, Hungarian Physiological Society LXX Annual Meeting;  
24-27<sup>th</sup> of May 2006, Debrecen, University of Debrecen Medical and Health Science Center – “XI  
Nephrology Conference”;  
26-29<sup>th</sup> of April 2006, Siena, University of Siena – “IHP Training Unit on Animal Welfare and Animal  
Models”;  
10-14<sup>th</sup> of April 2006, Debrecen, University of Debrecen Medical and Health Sciences Center – “Annual  
Ph.D. Conference”;  
18-21<sup>st</sup> of September 2005, Hortobágy, XXXIV European Muscle Conference;  
7-8<sup>th</sup> of July 2005, Ferrara, University of Ferrara, Department of Experimental and Diagnostic Medicine –  
“IHP Training Unit on Molecular Biology of Skeletal Muscle Sarcoplasmic Reticulum Proteins”;  
27-29<sup>th</sup> of May 2004, Oradea, University of Oradea, Faculty of Sciences – “Annual Session of Scientific  
Communications”;  
29-31<sup>st</sup> of May 2003, Oradea, University of Oradea, Faculty of Sciences – “Annual Session of Scientific  
Communications”;

## **Publications**

1. M. Bannwarth, I. R. Corrêa Jr, C. Fellay, A. Aebischer, **M. Sztretye**, S. Pouvreau, L. Royer, E. Ríos, K. Johnsson - „Indo-1 derivatives for local calcium sensing” - *ACS Chemical Biology*- under review;
2. **M. Sztretye**, J. Almássy, T. Deli, P. Szentesi, C. Jung, B. Dienes, C. A. Simut, E. Niggli, I. Jóna, L. Csernoch - „Altered sarcoplasmic reticulum calcium transport in the presence of the heavy metal chelator TPEN”- *Cell Calcium* –under review;
3. B. Lukács, **M. Sztretye**, J. Almássy, S. Sárközi, B. Dienes, K. Mabrouk, C. Simut, L. Szabó, P.Szentesi, M. De Waard, M. Ronjat, I. Jóna, L. Csernoch - ”Charged surface area of maurocalcine determines its interaction with the skeletal ryanodine receptor”- *Biophys J.* 2008 Oct;95(7):3497-509.
4. **M. Sztretye**, T. Deli, P. Szentesi, Gy.P. Szigeti, L. Csernoch - ”Effect of TPEN on the calcium release of cultured C2C12 mouse myotubes - *J Muscle Res Cell Motil.* 2007;28(7-8):421-8.
5. J. Almássy, **M. Sztretye**, B. Lukács, B. Dienes, L. Szabó, P. Szentesi, G. Vassort, L. Csernoch, I. Jóna- „Effects of K-201 on the calcium pump and calcium release channel of rat skeletal muscle” - *Pflugers Arch.* 2008 Oct;457(1):171-83.
6. Gy. P. Szigeti, J. Almássy, **M. Sztretye**, B. Dienes, L. Szabó, P. Szentesi, S. Sárközi, I. Jóna, G. Vassort, L. Csernoch - “Alterations in the calcium homeostasis of skeletal muscle from postmyocardial infarcted rats” - *Pflugers Arch.* 2007 Dec;455(3):541-53.

7. T. Deli, N. Varga, A. Ádám, I. Kenessey, E. Rásó, L. G. Puskás, J. Tóvári, J. Fodor, **M. Fehér**, Gy. P. Szigeti, L. Csernoch, J. Tímár - "Functional genomics of calcium channels in human melanoma cells", *Int J Cancer*. 2007 Jul 1;121(1):55-65.

### Platform Presentations

1. **M. Fehér**, P. Szentesi, L. Csernoch (2007) – „The study of skeletal muscle fibers calcium homeostasis on postmyocardial infarcted rats”, Annual Ph.D. Conference, Debrecen, Hungary;
2. **M. Fehér**, L. Csernoch (2006) - „Effects of *TPEN* on Excitation-Contraction Coupling in mammalian and amphibian skeletal muscle fibers” - IHP Training Unit, Siena, Italy;
3. **M. Fehér**, P. Szentesi, L. Csernoch (2006) - „Altered calcium release in the presence of low affinity calcium chelator-TPEN in skeletal muscle” - Annual Ph.D. Conference, Debrecen, Hungary;
4. **M. Fehér**, T. Jurcuț (2005) - „Theoretical basis for the calculation of the absorbed doses in photon beams radiotherapy”- Oradea, Romania; DISSERTATION WORK;
5. **M. Fehér**, A. Stan, C.A. Simuț (2003) - „A comparative study for the distribution of absorbed dose in tissue at irradiation of rhyopharyngeal tumors with fascicles of different energies”— Analele Universității din Oradea, Romania, Fizică-A, Tom XIII, 39-46; LICENCE THESIS.

### Posters

1. **M. Sztretye**, S. Pouvreau, M. Bannwarth, I. R. Corrêa Jr, C. Fellay, A. Aebischer, L. Royer, K. Johnsson, E. Ríos. (2009): “Indo-1 hybrid biosensors for calcium monitoring in cellular organelles”, Biophysical Society 53<sup>rd</sup> Annual Meeting, Boston, Massachusetts, USA;
2. B. Dienes, J. Fodor, J. Bihari, T. Oláh, **M. Sztretye**, M. Gönczi, P. Szentesi, L. Csernoch (2007): „Trisk 95 overexpression in rat primary myotubes suppresses E-C coupling mechanism”, Hungarian Physiological Society LXXI Annual Meeting, Pécs, Hungary;
3. J. Fodor, **M. Sztretye**, B. Dienes, M. Gönczi, P. Szentesi, L. Csernoch (2007): „Suppressed Trisk 95 expression modifies E-C coupling in rat primary myotubes”, Hungarian Physiological Society LXXI Annual Meeting, Pécs, Hungary;
4. L. Csernoch, J. Fodor, **M. Fehér**, B. Dienes, T. Deli, P. Szentesi, L. Szabó, I. Marty (2007) :„Suppressed SR calcium release and modified elementary calcium release events in Triadin-overexpressing cultured myotubes”, Biophysical Society 51<sup>st</sup> Annual Meeting, Baltimore, Maryland, USA;
5. Gy.P. Szigeti, **M. Fehér**, P. Szentesi, B. Dienes, L. Szabó, L. Csernoch (2006): „Changes in the calcium homeostasis of skeletal muscle from postmyocardial infarcted rats” – New frontiers in basic cardiovascular research, Debrecen, Hungary;
6. B. Dienes, B. Lukács, **M. Fehér**, P. Szentesi, C.A. Simuț, L. Szabó, I. Jóna, M. Ronjat, L. Csernoch

(2006): „Mutations in the scorpion toxin maurocalcine alter its ability to modify the calcium release events in frog skeletal muscle”, XXXVth European Muscle Conference, Heidelberg, Germany;

7. P. Szentesi, J. Fodor, **M. Fehér**, B. Dienes, L. Szabó, L. Csernoch (2006): „Triadin modifies EC-coupling in C2C12 myotubes”, XXXVth European Muscle Conference, Heidelberg, Germany;

8. **M. Fehér**, B. Dienes, L. Szabó, P. Szentesi, L. Csernoch (2006): „The study of skeletal muscle fibers calcium homeostasis in the presence of a low affinity calcium chelator”, Hungarian Physiological Society LXX Annual Meeting, Szeged, Hungary;

9. L. Csernoch, B. Lukács, **M. Fehér**, B. Dienes, P. Szentesi, I. Jóna (2006): „Mutations in the scorpion toxin maurocalcine alter its ability to modify the calcium release events in frog skeletal muscle”, Gordon Conference, Colby-Sawyer College New London, NH, USA;

9. P. Szentesi, **M. Fehér**, J. Almássy, B. Dienes, I. Jóna, L. Csernoch (2006): „Altered sarcoplasmic reticulum calcium transport in the presence of the heavy metal chelator TPEN”, Gordon Conference, Colby-Sawyer College New London, NH, USA;

10. **M. Fehér**, C. Oprea (2004): „Human occupational contamination in a fertilizer shop by human biosubstrata analysis” – „Annual session of scientific communications”, Oradea, Romania.