

PROKOP SUSANNE

Education:

2010-2016: Semmelweis University, Budapest
Faculty of Medicine

2013-2016: Pazmany Peter Catholic University, Budapest
Quantitative modeling

Relevant Coursework

Physiology *	Immunology *	Genetics *
Anatomy, Neuroanatomy	Biophysics	Genomics
Biochemistry *	Medical Microbiology	Pharmacology
Pathology	Epigenetics	Biostatistics
Computer Programming	Calculus	Linear Algebra

**Best student of the year (first place in the thematic competition)*

Research

2016-: Institute of Experimental Medicine, Hungarian Academy of Sciences
Laboratory of Molecular Neurobiology-Laboratory of Prof. Istvan Katona

2015-summer: Research at the Department of Pharmacology
Vanderbilt University, Nashville, Tennessee, USA
Laboratory of Vsevolod V. Gurevich

- Designing receptor specific arrestins
- Building research collaboration between *Gurevich laboratory* (Vanderbilt University) and *Hunyady laboratory* (Semmelweis University)

2014-summer: Research at the Department of Biological Sciences
Vanderbilt University, Nashville, Tennessee, USA
Laboratory of Todd Graham
Protein transport and membrane biogenesis

2012-2016: Undergraduate Research at the Department of Physiology
Semmelweis University
Molecular Endocrinology Laboratory of Prof. Laszlo Hunyady
Dimerization and signaling of G-protein coupled receptors

2011-2014: Undergraduate Research at the Department of Medical Chemistry
Semmelweis University
Molecular Genetic Laboratory of Prof. Mária Sasvári
Genetic background of Type 1 and Type 2 diabetes and its association with depression

Awards:

International Young Physicists' Tournament:

Representation of the Hungarian team: 2008: Trogir, Croatia
2009: Tian Jin, China

International Conference of Young Scientists:

2nd place in Physics section: 2010: Bali, Indonesia

2011: Certificate of Merit from the Hungarian Education Minister

International courses:

2011: Summer practice at Lubinus Klinik, Traumatology Department:
Kiel, Germany

2013: Autumn School on Computational Aspects of Gene Regulation,
European Mathematical Society, Bedlewo, Poland

2014: Member of the Vanderbilt International Summer Research Academy

Posters

Polymorphisms in regulatory regions of the WFS1 gene are putative risk factors of diabetes mellitus

Zsuzsanna Elek¹, Nóra Németh¹, Susanne Prokop¹, Anikó Somogyi², Mária Sasvári-Székely¹, Zsolt Rónai¹

The complex life of mRNA EMBO | EMBL Symposium, 7-10. 10. 2012.
Heidelberg, Germany

SNAP-25 gene polymorphisms are putative risk factors of impulsivity endophenotype

Prokop Susanne¹, Németh Nóra¹, Kovács-Nagy Réka¹, Székely Anna, Rónai Zsolt¹, Sasvári-Székely Mária¹

15th Hungarian Congress of Neuropsychopharmacology, 4- 6 October 2012
Tihany, Hungary

Analysis of the WFS1 gene promoter polymorphisms as putative risk factors of diabetes mellitus

Zsuzsanna Elek¹, Nóra Németh¹, Susanne Prokop¹, Anikó Somogyi², Mária Sasvári-Székely¹, Zsolt Rónai¹

European Human Genetics Conference
Paris, France 2013. 06. 8-11.

Investigation of the dimerization of G-protein coupled receptors with a new BRET titration method

¹Szalai Bence, ²Hoffmann Péter, ¹Prokop Susanne, ^{1,2}Várnai Péter, ^{1,2}Hunyady László
Annual Conference of Hungarian Society of Physiology, 2013

Improved methodical approach for quantitative BRET analysis of G protein coupled receptor dimerization

¹Szalai Bence, ¹Prokop Susanne, ^{1,2}Várnai Péter, ^{1,2}Hunyady László
Meeting of the Federation of European Physiological Societies,
2014, Budapest

Improved methodical approach for quantitative BRET analysis of G protein coupled receptor dimerization

¹Szalai Bence, ¹Prokop Susanne, ^{1,2}Várnai Péter, ^{1,2}Hunyady László

Meeting of the Federation of European Physiological Societies, 2014, Budapest

Co-evolution and co-expression based analysis and prediction of G Protein-coupled receptor heterodimerization

Bence Szalai, Susanne Prokop, Miklós Cserző, Péter Várnai, László Hunyady, 2015

RECOMB 2015, 19th Annual International Conference of Research in Computational Molecular Biology, Warsaw, 2015.04.11-15.

Presentations

New ways of measuring viscosity-The curiosities of rotating bodies on liquid

International Conference of Young Scientists, Bali, Indonesia, 2010

Analysis of the WFS1 gene promoter polymorphisms as putative risk factors of diabetes mellitus

Hungarian Student Research Conference, 2013, III. place

Dimerization of vasopressin receptors

Semmelweis Student Research Conference, 2014, I. place

The role of the WFS1 gene in type two diabetes

Semmelweis Student Research Conference, 2014, I. place

Protein trafficking in the secretory and endocytic pathways- the role of Drs2 flippase activity

Vanderbilt University, 2014

Studying G Protein Coupled Receptor dimerization, using co-evolution based bioinformatical methods

Semmelweis Student Research Conference 2015, I. place

The role of phospholipid flippases in the regulation of protein transport in budding yeast

Semmelweis International Students` Conference , 2015, Basic Sciences

Studying G Protein Coupled Receptor dimerization, using co-evolution based bioinformatical methods

Hungarian National Student Research Conference 2015, I. place, Presentation Award

Publications

Differential manipulation of arrestin-3 binding to basal and agonist-activated G protein-coupled receptors.

Prokop S¹, Perry NA², Vishnivetskiy SA², Toth AD¹, Inoue A³, Milligan G⁴, Iverson TM², Hunyady L¹, Gurevich VV⁵.
Cell Signal. 2017

Improved methodical approach for quantitative BRET analysis of G protein coupled receptor dimerization

¹Szalai Bence, ¹Hoffmann Péter, ¹Prokop Susanne, ^{1,2}Várnai Péter, ^{1,2}Hunyady László
PLOS ONE, 2014

Multicapillary gel electrophoresis based analysis of genetic variants in the WFS1 gene

Elek Z, Dénes R, Prokop S, Somogyi A, Yowanto H, Luo J, Souquet M, Guttman A, Rónai Z.
Electrophoresis. 2016

Languages

Hungarian: native language

German: native language

English: Euro English Language Examination at C1 level: Proficient User