
Personal information

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Professional experience

01/01/2017-31/08/2020	Employment as Junior Researcher in the group of Dr Vytautas Smirnovas at Institute of Biotechnology, Life Sciences Centre, Vilnius University, Lithuania.
01/10/2015-16/03/2020	Doctoral studies in Biochemistry at the Vilnius University, Lithuania. Title of the research project: <i>Towards Understanding Amyloid Fibril Formation and Self-replication</i> . Supervisor: Dr Vytautas Smirnovas.
26/06/2018-16/02/2019	Internship in Prof. Michele Vendruscolo group at Department of Chemistry, University of Cambridge, United Kingdom. Research activity: <i>Analysis of the heterogeneity and relative abundance of Aβ42 aggregates during amyloid fibril formation reaction via atomic force microscopy</i> . Supervisors: Prof. Michele Vendruscolo & Dr Francesco Simone Ruggeri.
07/04/2018-15/04/2018	Short-term internship in Dr Rita P.-Y. Chen group at Institute of Biological Chemistry, Academia Sinica, Taiwan. Research activity: <i>Preparation of mouse prion protein fragment (107-143) amyloid fibrils</i> . Supervisors: Dr Rita P.-Y. Chen and Kuan-Yu Chu.
01/02/2015-01/02/2018	Employment as Researcher Biologist (part-time) in the group of Dr Vytautas Smirnovas at Institute of Biotechnology, Life Sciences Centre, Vilnius University, Lithuania
18/02/2015-04/03/2015	Short-term internship in Prof. Roland Winter group at Dortmund Technical University, Germany. Research activity: <i>Analysis of insulin amyloid aggregate morphology and secondary structure via atomic force microscopy and infrared spectroscopy, respectively</i> . Supervisors: Prof. Roland Winter and Dr Vytautas Smirnovas.
01/10/2013-01/06/2015	Master's research project at Institute of Biotechnology, Life Sciences Centre, Vilnius University, Lithuania. Title of the research project: <i>Production of recombinant amyloid-beta peptide and evaluation of potential inhibitors of its aggregation</i> . Supervisor: Dr Vytautas Smirnovas.
01/10/2013-01/09/2015	Employment as Laboratory Assistant (part-time) in Dr Vytautas Smirnovas group at Institute of Biotechnology, Life Sciences Centre, Vilnius University, Lithuania
01/09/2012-01/06/2013	Bachelor's research project at Institute of Biotechnology, Life Sciences Centre, Vilnius University, Lithuania. Title of the research project: <i>Production of mouse recombinant prion protein</i> . Supervisor: Dr Vytautas Smirnovas.
01/09/2011-01/05/2012	Student research project at Institute of Biochemistry, Vilnius University, Lithuania. Research activity: <i>Determination of glucose concentration in the samples using an electrochemical amperometric enzymatic sensor</i> . Supervisor: Dr Bogumila Kurtinaitienė.

Education

01/10/2015-16/03/2020	Doctoral studies in Biochemistry at Institute of Biotechnology, Life Sciences Center, Vilnius University, Lithuania. Doctor of Science degree (equivalent to PhD).
01/09/2013-19/06/2015	M.Sc. Studies in Bioengineering at Vilnius Gediminas Technical University, Lithuania. Masters's degree in Bioengineering. Graduated with distinction.
01/09/2009-28/06/2013	Studies in Bioengineering at Vilnius Gediminas Technical University, Lithuania. Bachelor's degree in Bioengineering.

Publications

1. Strazdaite, S.; Navakauskas, E.; Kirschner, J.; **Sneideris, T.**; Niaura, G. *Structure Determination of Hen Egg-White Lysozyme Aggregates Adsorbed to Lipid/Water and Air/Water Interfaces*. Langmuir 2020. [Non-self citations, according to Scopus: 0].
2. Ziaunys, M.; **Sneideris, T.**; Smirnovas, V. *Formation of distinct prion protein amyloid fibrils under identical experimental conditions*. Scientific Reports 2020, 10, 4572. [Non-self citations, according to Scopus: 0].
3. **Sneideris, T.***; Sakalauskas*, A.; Sternke-Hoffmann*, R.; Peduzzo, A.; Ziaunys, M.; Buell, A.; Smirnovas, V. *The Environment Is a Key Factor in Determining the Anti-Amyloid Efficacy of EGCG*. MDPI Biomolecules, 2019, 9, 855. [*co-first author]. [Non-self citations, according to Scopus: 0].
4. Pampuscenko, K.; Morkuniene, R.; **Sneideris, T.**; Smirnovas, V.; Budvytyte, R.; Valincius, G.; Brown G.C.; Borutaite, V. *Extracellular tau induces microglial phagocytosis of living neurons in cell cultures*. Journal of Neurochemistry, 2019, 13:e14940. [Non-self citations, according to Scopus: 0].
5. Ruggeri, F. S.; **Šneideris, T.**; Chia S.; Vendruscolo, M.; Knowles, T. P. J. *Characterizing Individual Protein Aggregates by Infrared Nanospectroscopy and Atomic Force Microscopy*. JoVE, 2019, e60108. [Non-self citations, according to Scopus: 0].
6. Schilling, C.; Mack, T.; Lickfett, S.; Sieste, S.; Ruggeri, F. S.; **Sneideris, T.**; Dutta, A.; Berau, T.; Naraghi, R.; Sinske, D.; Knowles, T.P.J.; Synatschke, C.V.; Weil, T.; Knöll, B. *Sequence-Optimized Peptide Nanofibers as Growth Stimulators for Regeneration of Peripheral Neurons*. Advanced Functional Materials, 2019, vol 1809112, 1-15 p. [Non-self citations, according to Scopus: 1].
7. Ruggeri, F. S.; **Šneideris, T.**; Vendruscolo, M.; Knowles T.P.J. *Atomic force microscopy for single molecule characterisation of protein aggregation*. Archives of Biochemistry and Biophysics, 2019, vol. 664, 134-148 p. [Non-self citations, according to Scopus: 6].
8. Ziaunys, M.; **Sneideris, T.**; Smirnovas, V. *Exploring the potential of deep-blue autofluorescence for monitoring amyloid fibril formation and dissociation*. PeerJ, 2019 vol 7, e7554. [Non-self citations, according to Scopus: 0].
9. Ziaunys, M.; **Sneideris, T.**; Smirnovas, V. *Self-inhibition of insulin amyloid-like aggregation*. PCCP, 2018, vol. 20, p. 27638-27645. [Non-self citations, according to Scopus: 5].
10. **Sneideris, T.**; Darguzis, D.; Botyriute, A.; Grigaliunas, M.; Winter, R.; Smirnovas, V. *pH-Driven Polymorphism of Insulin Amyloid-Like Fibrils*. PlosOne, 2015, vol. 10, p. e0136602. [Non-self citations, according to Scopus: 14].
11. **Sneideris, T.***; Milto, K.*; Smirnovas, V. *Polymorphism of amyloid-like fibrils can be defined by the concentration of seeds*. PeerJ, 2015, vol. 3, p. e1207. [*co-first author]. [Non-self citations, according to Scopus: 4].
12. **Sneideris, T.**; Baranauskiene, L.; Cannon, J. G.; Rutkiene, R., Meskys, R.; Smirnovas, V. *Looking for a generic inhibitor of amyloid-like fibril formation among flavone derivatives*. PeerJ, 2015, vol. 3, p. e1271. [Non-self citations, according to Scopus: 10].

Participation in conferences

1. 8th Scandinavian Conference of Amyloid Diseases and Amyloid Mechanisms (ADAM8), Lund, Sweden, 2019. Poster presentation: *Environment is the key factor in detection of anti-amyloid compounds.*
2. 3rd Ulm Meeting on Biophysics of Amyloid Formation, Ulm, Germany, 2019. Poster presentation: *Properties of prion self-replication.*
3. The Coins 2018, Vilnius, Lithuania, 2018. Poster presentation: *Effect of temperature and denaturant concentration on the elongation of distinct mouse prion protein fibril strains.*
4. Prion 2018, Santiago de Compostela, Spain, 2018. Oral & poster presentation: *Properties of prion self-replication*, Prion 2018, Santiago de Compostela, Spain, 2018.
5. 61st International Conference for Students of Physics and Natural Sciences Open readings 2018, Vilnius, Lithuania, 2018. Poster presentation: *Effect of temperature and denaturant concentration on the elongation of distinct mouse prion protein fibril strains.*
6. 62nd Annual Meeting of Biophysical Society, San Francisco, USA, 2018. Poster presentation: *Polymorphism of prion protein amyloid-like fibrils.*
7. International Conference Vita Scientia, Vilnius, Lithuania, 2018. Poster presentation: *Effect of the environment on amyloid aggregation.*
8. Protein misfolding in disease - Toxic aggregation-prone proteins in ageing and age-related diseases: from structure to pathology and spreading, Roscoff, France, 2016. Poster presentation: *Looking for a generic inhibitor of amyloid-like fibril formation among flavone derivatives.*
9. XIV Conference of the Lithuanian Biochemical Society, Druskininkai, Lithuania, 2016. Oral & poster presentation: *Looking for a generic inhibitor of amyloid-like fibril formation among flavone derivatives.*
10. International Conference Vita Scientia, Vilnius, Lithuania, 2016. Poster presentation: *Polymorphism of amyloid-like fibrils can be defined by the concentration of seeds.*
11. First NGP-NET Symposium on Non-Globular Proteins, Porto, Portugal, 2015. Oral & poster presentation: *Polymorphism of amyloid-like fibrils can be defined by the concentration of seeds.*

Participation in international training schools

13/02/2017-17/02/2017	2 nd NGP-net Winter School on Experimental Methods to Characterize Non-Globular Proteins, Marseille, France
01/09/2016-10/09/2016	13 th Greta Pifat Mrzljak International School of Biophysics, Split, Croatia

Participation in research projects

01/02/2017-31/12/2019	Junior Researcher in TAPLLT-17-006, "Understanding prion peptide fibril-induced aggregation of prion protein"
01/10/2013-09/30/2015	Laboratory Assistant in VP1-3.1-ŠMM-07-K-02-022, "Exploring flavones as generic inhibitors of amyloid-like fibril formation".

Awards and Scholarships

17/07/2019	Scholarship for academic achievements from the Research Council of Lithuania (RCL) - awarded to ≈250 PhD students for exceptional academic achievements.
02/07/2019	Travel stipend from RCL to attend "8 th Scandinavian Conference of Amyloid Diseases and Amyloid Mechanisms (ADAM8)", Lund, Sweden.
03/01/2018	Best poster award at the international conference "Vita Scientia 2018", Vilnius, Lithuania. Poster Title: <i>Effect of the environment on amyloid aggregation.</i>
01/03/2018	Scholarship for academic achievements from the RCL - awarded to ≈250 PhD students for exceptional academic achievements.

26/01/2018	Travel stipend from RCL to attend "Prion 2018" conference, Santiago de Compostela, Spain.
01/12/2017	Travel grant from COST action BM1405 to attend "62 nd Annual Meeting of Biophysical Society", San Francisco, USA.
01/03/2017	Scholarship for academic achievements from the RCL - awarded to ≈250 PhD students for exceptional academic achievements.
07/01/2017	Travel grant from COST action BM1405 "2 nd NGP-net Winter School on Experimental Methods to Characterise Non-Globular Proteins", Marseilles, France.
03/05/2016	Travel grant from the European Biophysical Society (EBSA) to attend "13 th Greta Pifat Mrzljak International School of Biophysics", Split, Croatia.
01/03/2016	Award for work cycle "Research of amyloid protein aggregation" from the Lithuanian Academy of Sciences.

Supervision of undergraduate students

09/2016-06/2018	Karina Sluckaitė; Thesis title: <i>Purification and aggregation of recombinant mouse prion protein MoPrP89-230 and its aggregation studies.</i>
09/2016-06/2018	Elżbieta Kulicka; Thesis title: <i>Mouse prion protein (MoPrP89-230) synthesis, purification and aggregation;</i> Co-Supervisors: Dr Vytautas Smirnovas & Ričardas Mališauskas.
09/2016-06/2018	Romuald Stanilko; Thesis title: <i>Impact of environmental factors on insulin aggregation kinetics;</i> Co-Supervisors: Dr Vytautas Smirnovas & Ričardas Mališauskas.
09/2016-06/2017	Miglė Čiurinskaitė; Thesis title: <i>Purification of recombinant tau protein and its aggregation studies;</i> Co-Supervisor: Dr Vytautas Smirnovas.
09/2016-06/2017	Greta Musteikytė; Thesis title: <i>Purification and aggregation of recombinant human superoxide dismutase and its aggregation studies;</i> Co-Supervisor: Dr Vytautas Smirnovas.
09/2016-06/2017	Andrius Sakalauskas; Thesis title: <i>Construction of mouse prion protein 144 stop mutant gene, expression and purification of the recombinant protein and its aggregation studies;</i> Co-Supervisors: Dr Vytautas Smirnovas & Dr Rūta Gruškienė.
09/2015-06/2016	Mantas Žiaunys; Thesis title: <i>Recombinant Sheep Prion Protein ARQ and VRQ Purification and Aggregation Analysis;</i> Co-Supervisor: Dr Vytautas Smirnovas.