Oleksandr V. Savytskyi, PhD

Citizenship: Ukrainian ▪ **Date of birth:** 13 February 1985

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Scientific Interests

I have completed my PhD in Molecular Biology. My interests are related to computational biology: molecular dynamics, structural modeling, drug discovery, grid and high-performance computing, 2D/3D scientific visualization.

Education

10.2010 – 05.2017 **PhD in Molecular Biology**

Protein Engineering and Bioinformatics Department, Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine (IMBG of NAS of Ukraine).

Advisor: Prof. Alexander I. Kornelyuk, Corresponding Member of NAS of Ukraine, Head of Protein Engineering and Bioinformatics Department in same Institute.

PhD Thesis: "Computational modeling and molecular dynamics simulations of *H. sapiens* tyrosyl-tRNA synthetase and its mutant forms".

09.2006 – 12.2007 **Master of Science in Biology**

Plant Protection, National University of Life and Environmental Sciences of Ukraine.

Advisor: Dr. Andrii P. Gryganskyi, Assistant Professor of Plant Pathology Department.

09.2002 – 06.2006 **Bachelor's Degree in Biology**

Plant Protection, National University of Life and Environmental Sciences of Ukraine.

Advisor: Dr. Andrii P. Gryganskyi, Assistant Professor of Plant Pathology Department.

Work Experience

04.2018 till now **Senior Researcher** of Protein Engineering and Bioinformatics Department, Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine.

10.2016 – 04.2018 **Researcher** of Protein Engineering and Bioinformatics Department, Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine.

03.2011 – 10.2016 **Junior Researcher** of Protein Engineering and Bioinformatics Department, Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine.

07.2008 – 03.2011 **Engineer** of Protein Engineering and Bioinformatics Department, Institute of Molecular Biology and Genetics, National Academy of Sciences of Ukraine.

● Supervising the research activities in Computational and Structural Biology. ● Working on computational methods in research of human tyrosyl-tRNA synthetase and its mutant forms, associated with Charcot-Marie-Tooth neuropathy. ● Development of computer services for the Molecular Dynamics simulations and trajectories analysis in the MolDynGrid virtual laboratory as a part of European Grid Infrastructure (EGI). ● HPC support. ● Control of the group's budget. ● International collaboration with multidisciplinary groups and hardware vendors.

Languages

Ukrainian (native) **Russian** (excellent) **English** (very good)

Computing Qualifications and Skills

Sequence alignments: BLAST, FASTA, ClustalW
Homology modeling: Modeller 9v14, SWISS-MODEL
Molecular dynamics: GROMACS 5.1, NAMD 2.10
Molecular docking: Autodock 4, GOLD 4
Molecular graphics: PyMOL 1.7, VMD 1.9, Chimera, Maestro 11
Data analyses: OriginPro 2015, gnuplot 4.5 (basic)
HPC\GRID\Cloud: ARC, gLite, PBS Pro
Programming lang.: Python (basic), Bash (basic), HTML (basic)

Other software:
Windows, Linux (basic); 3d's Max 2013 (V-Ray, RayFire, FumeFX, RealFlow, DreamScape); Autodesk Maya 2013; Abobe Photoshop CC, After Effects CC, Premiere Pro CC, Flash CC.

Web:
WordPress, Joomla, MySQL

Laboratory Techniques

Chemistry:	solution preparation, titrations, extractions filtrations, separations, distillation.
Microbiology:	aseptic and sterile techniques, bacterial staining, plating methods, enumeration and identification of bacteria, use of biological safety cabinets, media and buffer preparation, food microbiology, optical microscopy, transmission electron microscope, scanning microscopy.
Spectroscopy:	UV, visible, mass spectroscopy.
Molecular Biology:	PCR, agarose gel electrophoresis, cell fractionation by centrifugation.

Awards and Grants

2018	**State Prize of the President of Ukraine** for young scientists, Kyiv, Ukraine. Presented by IMBG of NASU (Authors: *Oleksandr V. Savytskyi, Andrii O. Salnikov, Ievgen A. Sliusar*).
	Travel Grant from Biotechnology Business Institute and Certificate of Participation in the ***"The 2nd European PhD and Postdoc symposium: The Promise of Future Medicine: From Research to Therapy"***, 6th to the 9th of November 2018, Copenhagen, Denmark.
	Fellowship of the President of Ukraine for young scientists.
	FEBS YTF Grant and Certificate of Participation in the FEBS Advanced Course ***"Ligand-binding theory and practice"***, 24 June - 1 July 2018, Nove Hrady, Czech Republic.
	Diploma of Laureate of Kyiv City Mayor Prize (Vitali V. Klitschko) for special achievements of youth in the development of the capital of Ukraine – Hero-City of Kyiv, 24 June 2018, Kyiv, Ukraine.
2017	**Travel Grant from Biotechnology Business Institute** to Participation in the ENABLE ***"1st European PhD and Postdoc symposium"***, 15-17 November 2017, Barcelona, Spain.
	Travel Grant from iNEXT (Horizon2020 #653706) for Participation in the Workshop on ***"Bridging Solution Methods: From NMR to Xray Scattering And Biophysics"***, 18-22 September 2017, Patras, Greece.
2016	**Diploma** of the Best Poster Presentation and **Certificate** of Participation in the XI International Conference ***"Factors in Experimental Evolution of Organisms"***, 12-16 September 2016, Odessa, Ukraine.
	FEBS YTF Grant and Certificate of Participation in the FEBS/IUBMB Advanced Lecture Course "**Molecular basis of human diseases: 50 years anniversary of Spetses summer schools**", 27th May - 1st June, 2016, Spetses island, Greece.
2016 – 2018	**Fellowship** of the National Academy of Sciences of Ukraine for young scientists.
2015	**CINECA HPC Grant 2015** for GPU Cluster (nVidia Tesla k40) in Bologna, Italy.
	Travel Grant from Cineca (IT) with PRACE (Partnership for Advanced Computing in Europe) and Certificate of Participation in the ***"High Performance Molecular Dynamics@CINECA"***, 18-20 November 2015, CINECA – BOLOGNA, Italy.
	Travel Grant from EGI-Engage (The EU Framework Programme HORIZON 2020) and Certificate of Participation in the ***"EGI Community Forum 2015"***, 10-13 November 2015, Bari, Italy.
	Diploma of the Best Poster Presentation and **Certificate** of Participation in the **"*VI Meeting of Ukrainian Biophysical Society"***, 28-30 May 2015, Luts'k-Svityaz, Ukraine.
2014	**Travel Grant from COMBIOM (7th EU Framework Program) and Certificate** of Participation in the Workshop on ***"Practical Training on IPR, Project Management and Equipment"***, 22-26 September 2014, Warsaw, Poland.
	FEBS-EMBO Travel Grant and Certificate of Participation in the ***"FEBS-EMBO Conference 2014"***, 30 August - 4 September 2014, Paris, France.
	FEBS-EMBO Travel Grant and Certificate of Participation in the ***"Young Scientific Forum 2014"***, 27-30 August 2014, Paris, France.
	The 2st prize award from the Scientific Council of the IMBG of NAS of Ukraine for the best 3nd year PhD thesis report on the ***"VIII Young Scientist Conference"***, 20-21 May 2014, Kyiv, Ukraine.
2013	**Travel Grant from COMBIOM (7th EU Framework Program)** for Participation in the **"*Opening of the Academic Year 2013/2014 at Biocentrum Ochota"***, 25 October 2013, Warsaw, Poland.
	FEBS YTF Grant and Certificate of Participation in the FEBS/EMBO Lecture Course ***"Protein interactions, assemblies and human disease"***, 16–26 September 2013, Spetses, Greece.

2013	**Travel Grant from NAS of Ukraine and Certificate** of Participation in the Satellite Meeting of the EBSA2013 ***"Molecular Biology in Portugal and EMBL (and EMBL Alumni)",*** 18 July 2013, Lisbon, Portugal.
	Travel Grant from NAS of Ukraine and Certificate of Participation in the ***"9th European Biophysics Congress EBSA 2013"***, 13-17 July 2013, Lisbon, Portugal.
	Travel Grant from NAS of Ukraine (additionally EBSA) and Certificate of Participation in the Satellite Meeting of the EBSA2013 ***"Bionanotechnology – Recent Advances",*** 10-13 July 2013, Sesimbra, Portugal.
	Travel Grant from NAS of Ukraine and Certificate of Participation in the ***"6th Theoretical Biophysics Symposium"***, 24-27 June 2013, Gothenburg, Sweden.
	Travel Grant from eSSENCE and Uppsala University for Participation in the eSSENCE International Workshop on ***"Macromolecular Structure and Dynamics"***, 3-5 June 2013, BMC, Uppsala, Sweden.
	The 1st prize award from the Scientific Council of the IMBG of NAS of Ukraine for the best 3nd year PhD thesis report on the ***"VII Young Scientist Conference"***, 28-29 May 2013, Kyiv, Ukraine.
2012	**Travel Grant from COMBIOM (7th EU Framework Program) and Certificate** of Participation in the Workshop on ***"Scientific Communication"***, 1-5 October 2012, Warsaw, Poland.
2012 – 2014	**Fellowship** of the National Academy of Sciences of Ukraine for Young Scientists.
	Travel Grant from NAS of Ukraine and Certificate of Participation in the ***"NorduGrid 2012"*** Conference, 30 May - 01 June 2012, Uppsala, Sweden.
	The 2nd prize award from the Scientific Council of the IMBG of NAS of Ukraine for the best 2nd year PhD thesis report on the ***"VI Young Scientist Conference"***, 24-25 May 2012, Kyiv, Ukraine.
	"Standard HPC Grant 2012" on Matrix cluster (100 000 CPU hours) from CASPUR scientific research program, Roma, Italy. (collaboration with Tullio Scopigno, Taras Bryk)
2011	**FEBS YTF Grant and Certificate** of Participation in the Workshop on "***Cell Biology and Pharmacology of Mendelian Disorders***", 7-11 October 2011, Vico Equense (Naples), Italy.
	Travel Grant from NAS of Ukraine and Certificate of Participation in IEEE International Conference ***IDAACS'2011 (Intelligent Data Acquisition and Advanced Computing Systems)***, 15-17 September, Prague, Czech Republic.
	Certificate of Participation in the 4th International ***IMBG Conference for Young Scientists "Molecular Biology: Advances And Perspectives"***, 14-17 September 2011, Kyiv, Ukraine.
	Travel Grant from NAS of Ukraine and Certificate of Participation in the **"*V Meeting of Ukrainian Biophysical Society"***, 22-25 June 2011, Luts'k, Ukraine.
	Certificate from WIPO (World Intellectual Property Organization), certify successfully completed the distance learning **"*DL-101 General Course on Intellectual Property*"** from 2 April to 20 May 2011.
2010	**Certificate** of Participation in ***"Autodesk Forum in Kyiv"***, 1 October 2010, Kyiv, Ukraine.
	FEBS YTF Grant and Certificate of Participation in ***"Physical Chemistry of Biointerfaces"*** Workshop, 19-24 July 2010, Donostia - San Sebastian, Spain.
2009	**Travel Grant from NAS of Ukraine and Certificate** of Participation in IEEE Workshop ***IDAACS'2009*** (***Intelligent Data Acquisition and Advanced Computing Systems***), 21-23 September, Rende (Cosenza), Italy.
	NAS of Ukraine Grant ***"Virtual Laboratory MolDynGrid Development as a Part of the Ukrainian Academic Grid infrastructure"***. Head of Project: Prof. A.I. Kornelyuk (IMBG of NAS of Ukraine).
2008	**Certificate** of Participation in ***UCG-December***, 2D/3D Visualization Workshop, 3 December 2008, Kyiv, Ukraine.
	Certificate of Participation in the 21st International ***CODATA (Committee on Data for Science and Technology)*** Conference, 5 - 8 October 2008, Kyiv, Ukraine.
	The 2nd prize award of the *Scientific Center of agricultural education of Ukraine* competition **for the best Master's Thesis** in the field of plant protection, Kyiv, Ukraine.
2005	***Phytopharmacology Academy of Syngenta*** Awarded the **Certificate** of completion, 23 December 2005, Kyiv, Ukraine.

As Invited Lecturer	
2017	**XII International Summer School "Molecular Microbiology and Biotechnology" 4-20 June 2017, Odessa, Ukraine.** "Useful cases in molecular modeling of biopolymers and their structural complexes" "High-Performance Computing and molecular dynamics simulations of proteins" "Grid computing and infrastructures for biomolecular research" "Virtual Laboratory MolDynGrid as efficient infrastructure for automation of molecular dynamics simulations (moldyngrid.org)" **2nd Conference for Young Scientists (CYS-2017), 6-9 June 2017, Kyiv, Ukraine.** "Computational molecular modeling and visualization of biopolymers" **PhD Course in Molecular Biology (03.01.19) in IMBG of NAS of Ukraine, Q1, Ukraine.** "Computational modeling of biopolymers and grid technologies"

Local projects	
2017 – 2018	**NAS of Ukraine Grant** *"Distributed Database development for molecular dynamics trajectories and NMR data in the virtual laboratory MolDynGrid".* Head of Project: Prof. A.I. Kornelyuk. (collaboration with KNU)
2014 – 2016	**NAS of Ukraine Grant** *"Cloud-technologies development and introduction in GRID services for the virtual laboratory MolDynGrid".* Head of Project: Prof. A.I. Kornelyuk. (collaboration with KNU)
2013 – 2017	**NAS of Ukraine Grant** *"Local conformational changes and formation of metastable structural elements in eukaryotic tyrosyl-tRNA synthetase".* Head of Project: Prof. A.I. Kornelyuk.
2013 – 2014	**NAS of Ukraine Grant** *"Software Development and adaptation on clusters SCIT-4 super computer for solving tasks in structural biology"*, Kyiv, Ukraine. (collaboration with KNU, IOP, ICYB, ISMA)
2011 – 2012	**NAS of Ukraine Grant** *"Software package development, adaptation and implementation in Ukrainian National Grid infrastructure for trajectories analysis of molecular dynamics of proteins"*, Kyiv, Ukraine. (collaboration with KNU, IOP of NASU, ISS of NASU)
2010 – 2013	**NAS of Ukraine Grant** *"Software package development, adaptation and implementation in Ukrainian National Grid infrastructure for trajectories analysis of molecular dynamics of proteins"*, Kyiv, Ukraine. (collaboration with KNU, IOP of NASU, ISS of NASU)
2008 – 2012	**NAS of Ukraine Grant** *"Dynamic aspects of eukaryotic tyrosyl-tRNA synthetase and study the effect of mutations on tRNA aminoacylation process and the emergence of neurodegenerative diseases".* Head of Project: Prof. A.I. Kornelyuk.

International Collaboration	
2015 till now	**EGI Federated Cloud (JRA2.4) Accelerated Computing.** IaaS-type cloud, made of academic private clouds and virtualized resources and built around open standards. Its development is driven by requirements of the scientific community. (EGI-Engage, Horizon 2020 EU, grant №654142) **EGI-Engage:WP4 (JRA2.4) Accelerated Computing.** Technologies for using GPUs in grid and cloud. Analysis of requirements from user communities. (EGI-Engage, Horizon 2020 EU, grant №654142)
2012 – 2013	**VT GPGPU** (the Virtual Team project aims to collect detailed requirements from existing and new EGI user communities and their support teams about using GPGPU services in the European Grid Infrastructure).
2010 – 2011	**NVIDIA's Tesla Bio Workbench.** Recently the GPU Test Drive system was installed in Ukraine within the scope of NVIDIA's Tesla Bio Workbench Project. This project aims at evaluation of performance of molecular dynamics simulations and trajectory analysis computations employing GPU accelerator support in specialized software including GROMACS 4.5, AMBER 11 and NAMD 2.7.

Professional Affiliations

2013 till now	**Expert Committee Member (Peer Reviewer)** of annual scientific conferences HPC-UA are devoted to development of high-performance computing systems and their applications to physics, biology and astronomy.
	Member of the EBSA (European Biophysical Societies' Association). Certificate from the Ukrainian Biophysical Society, since 2 April 2013.
	Member of GGUS in EGI project (the Global Grid User Support officer in the European Grid Infrastructure/National Grid Initiatives).
2010 till now	**Member of the FEBS** (Federation of European Biochemical Societies). Certificate from Ukrainian Biochemical Society, since 22 February 2010.
	Member of the VO: enmr.eu (WeNMR - e-Infrastructure-based global virtual research community for structural biology in the life sciences).
2009 till now	**Member** and **Administrator** of the Virtual Laboratory MolDynGrid (**VO: moldyngrid**).
	Member of the **UNG** (Ukrainian National Grid) and **EGI (X509v3 certificate)**.

Publications

PAPERS IN INTERNATIONAL JOURNALS:

1. Kravchuk, V. O., **Savytskyi, O. V.**, Odynets, K. O., Mykuliak, V. V., & Kornelyuk, A. I. (**2017**). COMPUTATIONAL MODELING AND MOLECULAR DYNAMICS SIMULATIONS OF MAMMALIAN CYTOPLASMIC TYROSYL-tRNA SYNTHETASE AND ITS COMPLEXES WITH SUBSTRATES. *J Biomol Struct Dyn*, 35(13): 2772-2788. (**Impact Factor: 2.9**^{2016}) PDF
2. **Savytskyi, O. V.**, & Kornelyuk, A. I. (**2015**). COMPUTATIONAL MODELING OF MOLECULAR DYNAMICS OF G41R MUTANT FORM OF HUMAN TYROSYL-tRNA SYNTHETASE, ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. *Ukr Biochem J*, 87(6), 142-153. (in Ukrainian) PDF
3. **Savytskyi, O. V.**, Yesylevskyy, S. O., & Kornelyuk, A. I. (**2013**). ASYMMETRIC STRUCTURE AND DOMAIN BINDING INTERFACES OF HUMAN TYROSYL-tRNA SYNTHETASE STUDIED BY MOLECULAR DYNAMICS SIMULATIONS. *J Mol Recognit*, 26(2), 113-120. (**Impact Factor: 3.31**^{2013}) PDF
4. Vislovukh, A. A., Shalak, V. F., **Savytskyi, O. V.**, Kovalenko, N. I., Gralievska, N. L., Negrutskii, B. S., & El'skaya, A. V. (**2012**). PTI-1: NOVEL WAY TO ONCOGENICITY. *Biopolym. Cell.*, 28(5), 404-410. PDF
5. Yesylevskyy, S. O., **Savytskyi, O. V.**, Odynets, K. A., & Kornelyuk, A. I. (**2011**). INTERDOMAIN COMPACTIZATION IN HUMAN TYROSYL-tRNA SYNTHETASE STUDIED BY THE HIERARCHICAL ROTATIONS TECHNIQUE. *Biophysical Chemistry*, 154(2-3), 90-98. (**Impact Factor: 2.276**^{2011}) PDF
6. Salnikov, A., Sliusar, I., Sudakov, O., **Savytskyi, O.**, & Kornelyuk, A. (**2010**). VIRTUAL LABORATORY MOLDYNGRID AS A PART OF SCIENTIFIC INFRASTRUCTURE FOR BIOMOLECULAR SIMULATIONS. *International Journal of Computing,* 9(4), 294-300. PDF
7. Salnikov, A., Sudakov, O., **Savytskyi, O.**, Sliusar, I., & Kornelyuk, A. (**2010**). THE INTEGRATED ENVIRONMENT OF VIRTUAL LABORATORY MOLDYNGRID FOR CALCULATION OF MOLECULAR DYNAMICS OF BIOPOLYMERS. *Medical Informatics and Engineering*, 1, 24-32. (in Ukrainian) PDF

PROCEEDINGS BOOKS:

8. **Savytskyi, O. V.**, Sliusar, I. A., Yesylevskyy, S. O., Stirenko, S. G., & Kornelyuk, A. I. (**2011**). INTEGRATED TOOLS FOR MOLECULAR DYNAMICS SIMULATION DATA ANALYSIS IN THE MOLDYNGRID VIRTUAL LABORATORY. *Proceedings of the 6-th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications*, IDAACS 2011, 1, 209-211. (ISI Proceedings) PDF
9. Salnikov, A. O., Sliusar, I. A., Sudakov, O. O., **Savytskyi, O. V.**, & Kornelyuk, A. I. (**2009**). MOLDYNGRID VIRTUAL LABORATORY AS A PART OF UKRAINIAN ACADEMIC GRID INFRASTRUCTURE. *Proceedings of the 5th IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications*, IDAACS 2009, 1, 237-240. (ISI Proceedings) PDF
10. A. Gryganskyi, N. Goncharenko, **O. Savytskyi**, O. Tereshchenko, O. Pererva (**2007**). DISEASE AND ITS CONTROL ON MUSHROOMS GROWING FARMS IN UKRAINE. *Proceedings Book of Scientific student's conference of NAU*, October 2007, Kyiv, Ukraine, 1, 33-36. (in Ukrainian)

CONFERENCE, MEETING, SYMPOSIA ABSTRACTS:

1. **O.V. Savytskyi**, V.O. Kravchuk and A.I. Kornelyuk. THE NEW ROLE OF CONNECTIVE PEPTIDE 1 IN MAMMALIAN TYROSYL-tRNA SYNTHETASE RELATED TO MUTATIONS ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. *iNEXT Workshop on "Bridging Solution Methods: From NMR to Xray Scattering And Biophysics"*, 18-22 September 2017, Patras, Greece, p. 32.

2. Petrychenko V.O, **Savytskyi O.V.**, Kornelyuk A.I.. COMPUTATIONAL MODELLING AND MOLECULAR DYNAMICS SIMULATIONS OF *Bos taurus* TYROSYL-tRNA SYNTHETASE IN COMPLEX WITH $tRNA^{Tyr}$. *Proceedings of the "Shevchenkivska Vesna: bioscience advances 2017"*, 18-21 April 2017, Kyiv, Ukraine, p. 23.
3. V.O. Kravchuk, **O.V. Savytskyi**, K.O. Odynets, V.V. Mykuliak, A.I. Kornelyuk. *IN SILICO* STUDY OF THE COMPLEXES OF *B. TAURUS* TYROSYL-tRNA SYNTHETASE WITH SUBSTRATES. *Biopolymers & Cell*, 32 (5), p. 399.
4. **Oleksandr V. Savytskyi** and Alexander I. Kornelyuk. MOLECULAR DYNAMICS SIMULATIONS OF TYROSYL-tRNA SYNTHETASE MUTANT FORMS ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. *Proceedings of the FEBS/IUBMB Advanced Lecture Course "Molecular basis of human diseases: 50 years anniversary of Spetses summer schools"*, 27th May - 1st June, 2016, Spetses island, Greece, p. 41.
5. Grom M.Yu., **Savytskyi O.V.** BIOINFORMATICS ANALYSIS OF IMMUNOGENICITY OF TYROSYL-tRNA SYNTHETASE AND ITS SEPARATED DOMAINS. *Proceedings of the 10th International Young Scientists' Biology Conference "From A Molecule Up To The Biosphere"*, 2-4 December 2015, Kharkiv, Ukraine, p. 119-120.
6. **O.V. Savytskyi**, I.A. Sliusar, A.O. Salnikov and A.I. Kornelyuk. MOLDYNGRID VIRTUAL LABORATORY AS WEB-ORIENTED GRID-SERVICE FOR BIOMOLECULAR SIMULATIONS. *Proceedings of the "EGI Community Forum 2015"*, 10-13 November 2015, Bari, Italy, p. 107.
7. **O.V. Savytskyi**, A.I. Kornelyuk. CONFORMATIONAL CHANGES IN MUTANT FORMS G41R OF TYROSYL-tRNA SYNTHETASE AND G526R OF GLYCYL-tRNA SYNTHETASE ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. *Proceedings of the "VI Meeting of Ukrainian Biophysical Society",* 28-30 May 2015, Luts'k-Svityaz, Ukraine, p. 46. (in Ukrainian)
8. S.V. Chysta, **O.V. Savytskyi**, A.I. Kornelyuk. INVESTIGATION OF INTRAMOLECULAR DYNAMICS AND CONFORMATIONAL CHANGES OF EUKARYOTIC TYROSYL-tRNA SYNTHETASE. *Proceedings of the "IX Young Scientist Conference"*, 26 May 2015, Kyiv, Ukraine. Biopolym. Cell., 31(Special Issue), p. 2.
9. **Oleksandr V. Savytskyi** and Alexander I. Kornelyuk. MOLECULAR DYNAMICS OF HUMAN TYROSYL-tRNA SYNTHETASE ACTIVE CENTER IN THE COMPLEX WITH TYROSYL-ADENYLATE. *Proceedings of the "XI Ukrainian Biochemical Congress"*, 6-10 October 2014, Kyiv, Ukraine, Ukrainian Biochemical Journal, Vol. 86, N5 (Supplement 1), p. 77-78.
10. **Oleksandr V. Savytskyi**, Semen O. Yesylevskyy and Alexander I. Kornelyuk. CONFORMATIONAL FLEXIBILITY AND DOMAIN BINDING INTERFACES IN HUMAN TYROSYL-tRNA SYNTHETASE STUDIED BY MOLECULAR DYNAMICS SIMULATIONS. *Proceedings of the "FEBS Young Scientists' Forum 2014"*, 27-30 August 2014, Paris, France, p54.
11. **Oleksandr V. Savytskyi**, Semen O. Yesylevskyy and Alexander I. Kornelyuk. CONFORMATIONAL FLEXIBILITY AND DOMAIN BINDING INTERFACES IN HUMAN TYROSYL-tRNA SYNTHETASE STUDIED BY MOLECULAR DYNAMICS SIMULATIONS. *Proceedings of the "FEBS-EMBO Conference 2014*", 30 August - 4 September 2014, Paris, France, p. 621.
12. **Oleksandr V. Savytskyi** and Alexander I. Kornelyuk. CONFORMATIONAL CHANGES OF HUMAN TYROSYL-tRNA SYNTHETASE IN THE COMPLEX WITH TYROSYL-ADENYLATE STUDIED BY MOLECULAR DYNAMICS SIMULATIONS. *Proceedings of the "VIII Young Scientist Conference",* 20-21 May 2014, Kyiv, Ukraine. Biopolym. Cell. 2014; 30 (Special Issue), p. 17.
13. **O.V. Savytskyi**, I.A. Sliusar, A.O. Salnikov, S.O. Yesylevskyy and A.I. Kornelyuk. MOLDYNGRID VIRTUAL LABORATORY AS WEB-ORIENTED GRID-SERVICE FOR AUTOMATION OF THE MOLECULAR DYNAMICS SIMULATIONS. *Proceedings of the Opening of the Academic Year 2013/2014 at Biocentrum Ochota*, 25 October 2013, Warsaw, Poland, p. 45.
14. **O.V. Savytskyi**, A.I. Kornelyuk. LOCAL BETA-SHEET FORMATION IN 153-156DELVKQV MUTANT OF HUMAN TYRRS ASSOCIATED WITH CMT DISEASE. *Proceedings of the 9th European Biophysics Congress, Lisbon, Portugal, 13-17 July, 2013, Eur Biophys J*, V. - 42, 2013. P. - S198, P-617.
15. **Oleksandr V. Savytskyi**, Semen O. Yesylevskyy and Alexander I. Kornelyuk. LOCAL *β*-SHEET FORMATION IN G41R MUTANT OF HUMAN TYROSYL-tRNA SYNTHETASE ASSOCIATED WITH CHARCOT-MARIE-TOOTH DISEASE. Proceedings of the 6th Theoretical Biophysics Symposium, 24-27 June 2013, Gothenburg, Sweden, p. 13.
16. **Oleksandr V. Savytskyi**, Ievgen A. Sliusar, Andrii O. Salnikov, Semen O. Yesylevskyy, Alexander I. Kornelyuk. CONFORMATIONAL CHANGES IN HUMAN TYROSYL-tRNA SYNTHETASE STUDIED IN THE MOLDYNGRID VIRTUAL LABORATORY. *Proceedings of the International Conference "NORDUGRID-2013: Distributed systems and Big Data – towards new horizons"*, 4-6 June 2013, Šiauliai, Lithuania, pp. 20-21.

17. **Oleksandr V. Savytskyi**, Semen O. Yesylevskyy and Alexander I. Kornelyuk. DOMAIN BINDING INTERFACES IN HUMAN TYROSYL-tRNA SYNTHETASE STUDIED BY THE HIEROT TECHNIQUE AND MOLECULAR DYNAMICS SIMULATIONS. *Proceedings of the eSSENCE International Workshop on "Macromolecular Structure and Dynamics", 3-5 June 2013, BMC, Uppsala, Sweden.* p. 12.
18. **O. V. Savytskyi** and A. I. Kornelyuk. FLEXIBLE STRUCTURE AND INTERDOMAIN INTERACTIONS IN HUMAN TYROSYL-tRNA SYNTHETASE STUDIED BY MOLECULAR DYNAMICS SIMULATIONS. *Proceedings of the "VII Young Scientist Conference of IMBG",* 28-29 May 2013, Kyiv, Ukraine*.* p. 21.
19. A. P. Gryganskyi, G. Bonito, M. Rodriguez-Carres, T. M. Porter, Y. Chen, S. Robb, H.-L. Liao, I. M. Anishchenko, **O. V. Savytskyi**, R. Ortega, J. E. Stajich, J. Heitman, A. P. Litvintseva, T. Y. James, S. Sekimoto, J. Spatafora, R. Vilgalys. GENOME BASED PHYLOGENY OF EARLY DIVERGING FUNGAL LINEAGES. *Proceedings of the 27th Fungal Genetics Conference at Asilomar*, 12-17 March 2013, Pacific Grove, CA, USA, p. 195.
20. O.O. Sudakov, A.O. Salnikov, I.A. Sliusar, **O.V. Savytskyi**, Yu.V. Boyko. APPLICATION OF THE UKRAINIAN GRID INFRASTRUCTURE IN JOINT PROJECTS OF KYIV NATIONAL TARAS SHEVCHENKO UNIVERSITY. *Proceedings of the the 5th International Conference "Distributed Computing and Grid-technologies in Science and Education"*, July 16 - 21, 2012, Dubna, Russia, p. 148.
21. Andrii P Gryganskyi, Richard A Humber, Matthew E Smith, Jolanta Miadlikovska, Steven Wu, Kerstin Voigt, Iryna M Anishchenko, **Oleksandr V Savytskyi**, and Rytas Vilgalys. MOLECULAR PHYLOGENY OF THE ENTOMOPHTHOROMYCOTA. *Proceedings of the 80-th Meeting of the Mycological Society of America*, 15-18 July 2012, Yale University, New Haven, Connecticut, p. 22.
22. **O.V. Savytskyi** and A.I. Kornelyuk. MOLECULAR DYNAMICS SIMULATIONS OF TYROSYL-tRNA SYNTHETASE MUTANTS USING COMPUTING ENVIRONMENT OF UKRAINIAN NATIONAL GRID INFRASTRUCTURE. *Proceedings of the "VII Young Scientist Conference of IMBG",* 28-29 May 2013, Kyiv, Ukraine, p. 1.
23. **Oleksandr V. Savytskyi**, S.O. Yesylevskyy, A.I. Kornelyuk. MOLECULAR DYNAMICS SIMULATIONS OF TYROSYL-tRNA SYNTHETASE MUTANTS ASSOCIATED WITH NEURODEGENERATIVE DISEASE. *Proceedings of the FEBS Workshop "Cell Biology and Pharmacology of Mendelian Disorders"*, 7-11 October 2011, Vico Equense (Naples), Italy, p. 65.
24. **Savytskyi O.V.**, Yesylevskyy S.O., Kornelyuk O.I.. COMPACTIZATION OF TYROSYL-tRNA SYNTHETASE STUDIED BY THE HIEROT TECHNIQUE AND MOLECULAR DYNAMICS SIMULATIONS. *Proceedings of the 4th International IMBG Conference for Young Scientists "Molecular Biology: Advances and Perspectives"*, 14-17 September 2011, Kyiv, Ukraine, p. 206.
25. Gryganskyi A.P., Colquhoun A., Colquhoun W., **Savytskyi O.**, Anishchenko I.M., Humber R.A., Vilgalys R. MOLECULAR PHYLOGENY OF ENTOMOPHTHOROMYCOTINA. *Scientific International Conference „Microbiologic biotechnology – the scientific intensive domain of modern knowledge"*, Chisinau, Republic of Moldova, 6-8 July 2011, p. 63.
26. Gryganskyi Andrii, Humber Richard A., Smith Mathew E., Bonito Gregory, Rodriguez-Carres Marianela, Anishchenko I., **Savytskyi Oleksandr**, Colquhoun A. and Vilgalys Rytas. MOLECULAR PHYLOGENY FOR THE SUBPHYLUM ENTOMOPHTHOROMYCOTINA INCERTAE SEDIS. *Proceedings of Meeting of the Mycological Society of America*, August 1-6, University of Alaska, Fairbanks, AK, USA, Inoculum 62(3), June 2011, pp. 21-22.
27. **Savytskyi O.V.**, Yesylevskyy S.O., Kornelyuk O.I.. COMPUTATIONAL ANALYSIS OF COMPACTIZATION OF TYROSYL-tRNA SYNTHETASE IN SOLUTION USING HIERARCHICAL ROTATIONS AND MOLECULAR DYNAMICS METHODS. *Proceedings of the V Meeting of Ukrainian Biophysical Society*, 22-25 June 2011, Luts'k, Ukraine, pp. 117-118. (in Ukrainian)
28. **O. Savytskyi**, R. Nikolaenko, A. Kornelyuk. MOLECULAR DYNAMICS SIMULATION OF MUTANT TYROSYL-tRNA SYNTHETASE ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY REVEALS THE STABILIZATION OF ENZYME DIMER INTERFACE. *Proceedings of Workshop Physical Chemistry of Biointerfaces*, CIC biomaGUNE, 19-24 July 2010, Donostia - San Sebastian, Spain, p. 23.
29. Gryganskyi A., Litvintseva A., Lee S.C., Smith M., Bonito G., Anishchenko I., **Savitskyi O.**, Colquhoun W., Vilgalys R., Heitman J. MATING REACTIONS, MATING LOCUS AND PHYLOGENY OF RHIZOPUS ORYZAE SPECIES COMPLEX. *Proceedings of Joint Meeting of the Mycological Society of America and The International Symposium on Fungal Endophytes of Grasses*, June 28-July 1, 2010, University of Kentucky, Lexington, Kentucky, USA, p. 39.
30. **O. Savytskyi,** I. Sliusar, A. Kornelyuk. INCREASING EFFECTIVENESS OF PROTEIN MOLECULAR DYNAMICS CALCULATIONS IN GRID-ENVIRONMENT ON VIRTUAL LABORATORY MOLDYNGRID**.** *Proceedings of First All-Ukrainian Congress "Medical and Biological Informatics and Cybernetics" with International Participation*, 23-26 June 2010, p. 152. (in Ukrainian)

31. A. Gryganskyi, A. Litvintseva, S. C. Lee, G. Bonito, M. Smith, **O. Savits'kyi**, W. Colquhoun, I. Anishchenko, R. Vilgalys, J. Heitman. MATING LOCUS IN RHIZOPUS ORYZAE**.** *Proceedings of MASMC 2010 (Middle Atlantic States Mycology Conference)*, 9-11 April 2010, Greensboro, NC, USA, p. 15.

Oral Presentations

1. **O.V. Savytskyi**, V.O. Kravchuk and A.I. Kornelyuk. THE NEW ROLE OF CONNECTIVE PEPTIDE 1 IN MAMMALIAN TYROSYL-tRNA SYNTHETASE RELATED TO MUTATIONS ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. *iNEXT Workshop on "Bridging Solution Methods: From NMR to Xray Scattering And Biophysics"*, 18-22 September 2017, Patras, Greece.
2. **Oleksandr Savytskyi**. COMPUTATIONAL MODELING OF TYROSYL-tRNA SYNTHETASE AND ITS MUTANT FORMS ASSOSIETED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. Workshop in the Institute for Condensed Matter Physics of NAS of Ukraine, 24 December 2015, Lviv, Ukraine.
3. **Oleksandr Savytskyi**. USE CASES FROM "EGI COMMUNITY FORUM 2015". *Grid Reports - 2015*, Bogolyubov Institute for Theoretical Physics of the National Academy of Sciences of Ukraine, 8 December 2015, Kyiv, Ukraine.
4. Marco Verlato, **Oleksandr Savytskyi**, Andrii Salnikov. GPU ACCELERATION FOR MOLECULAR DYNAMICS SIMULATIONS IN GRID: FIRST RESULTS AND PERSPECTIVES. USE CASES FROM OTHER COMMUNITIES. *The EGI Conference 2015*, 18-22 May 2015, Lisbon, Portugal.
5. **Oleksandr V. Savytskyi**. CLOUD-TECHNOLOGIES DEVELOPMENT AND INTRODUCTION IN GRID SERVICES FOR THE VIRTUAL LABORATORY MOLDYNGRID. *Grid Reports - 2014*, Bogolyubov Institute for Theoretical Physics of the National Academy of Sciences of Ukraine, 16 December 2014, Kyiv, Ukraine. (in Ukrainian)
6. **Oleksandr V. Savytskyi**. MOLDYNGRID VIRTUAL LABORATORY INTEGRATION INTO THE EUROPEAN GRID INFRASTRUCTURE. *XI Ukrainian Biochemical Congress*, 6-10 October 2014, Kyiv, Ukraine.
7. **Oleksandr V. Savytskyi** and Alexander I. Kornelyuk. CONFORMATIONAL CHANGES OF HUMAN TYROSYL-tRNA SYNTHETASE IN THE COMPLEX WITH TYROSYL-ADENYLATE STUDIED BY MOLECULAR DYNAMICS SIMULATIONS. *VIII Young Scientist Conference*, 20-21 May 2014, Kyiv, Ukraine.
8. A.I. Kornelyuk, A.O. Salnikov, I.A. Sliusar, **O.V. Savytskyi**, S.O. Yesylevskyy. MOLDYNGRID VIRTUAL LABORATORY AS WEB-ORIENTED GRID-SURVICE FOR AUTOMATION OF MOLECULAR DYNAMICS SIMULATIONS. *Cracow Grid Workshop (CGW'13)*, 4-6 November 2013, Krakow, Poland.
9. **Oleksandr V. Savytskyi**, Semen O. Yesylevskyy and Alexander I. Kornelyuk. DOMAIN BINDING INTERFACES IN HUMAN TYROSYL-tRNA SYNTHETASE STUDIED BY THE HIEROT TECHNIQUE AND MOLECULAR DYNAMICS SIMULATIONS. *The eSSENCE International Workshop on "Macromolecular Structure and Dynamics"*, 3-5 June 2013, BMC, Uppsala, Sweden.
10. **O. V. Savytskyi** and A. I. Kornelyuk. FLEXIBLE STRUCTURE AND INTERDOMAIN INTERACTIONS IN HUMAN TYROSYL-tRNA SYNTHETASE STUDIED BY MOLECULAR DYNAMICS SIMULATIONS. *The "VII Young Scientist Conference"*, 28-29 May 2013, Kyiv, Ukraine. (in Ukrainian)
11. **Oleksandr Savytskyi**. LOCAL BETA-SHEET FORMATION IN G41R MUTANT OF HUMAN TYROSYL-tRNA SYNTHETASE. *The Scientific Communication Workshop*, 1-5 October 2012, Warsaw, Poland.
12. **Oleksandr Savytskyi** and Alexander Kornelyuk. MOLECULAR DYNAMICS SIMULATIONS OF TYROSYL-tRNA SYNTHETASE AND ITS MUTANTS IN MOLDYNGRID VIRTUAL LABORATORY. *The NorduGrid 2012 Conference*, 30 May – 01 June 2012, Uppsala, Sweden.
13. **O.V. Savytskyi** and A.I. Kornelyuk. MOLECULAR DYNAMICS SIMULATIONS OF TYROSYL-tRNA SYNTHETASE MUTANTS USING COMPUTING ENVIRONMENT OF UKRAINIAN NATIONAL GRID INFRASTRUCTURE. *The VI Young Scientist Conference of the IMBG of NAS of Ukraine*, 24-25 May 2012, Kyiv, Ukraine. (in Ukrainian)
14. **O.V. Savytskyi**, I.A. Sliusar, S.O. Yesylevskyy, S.G. Stirenko, A.I. Kornelyuk. INTEGRATED TOOLS FOR MOLECULAR DYNAMICS SIMULATION DATA ANALYSIS IN THE MOLDYNGRID VIRTUAL LABORATORY**.** *The 6-th IEEE International Conference IDAACS 2011*, 15-17 September 2011, Prague, Czech Republic.
15. **O. Savytskyi,** I. Sliusar, A. Kornelyuk. INCREASING EFFECTIVENESS OF PROTEIN MOLECULAR DYNAMICS CALCULATIONS IN GRID-ENVIRONMENT ON VIRTUAL LABORATORY MOLDYNGRID**.** *The First All-Ukrainian Congress "Medical and Biological Informatics and Cybernetics" with International Participation,* 2010. (in Ukrainian)
16. **O.V. Savytskyi.** VIRTUAL LABORATORY MOLDYNGRID: HISTORY, CURRENT STATUS AND PROSPECTS. *Invited Speaker at Ternopil Ivan Pul'uj National Technical University*, December 2010, Ternopil. Ukraine. (in Ukrainian)

17. **O.V. Savytskyi,** A.O. Salnikov, I.A. Sliusar, O.O. Sudakov, A.I. Kornelyuk. VIRTUAL LABORATORY MOLDYNGRID DEVELOPMENT AS A PART OF THE UKRAINIAN ACADEMIC GRID INFRASTRUCTURE. *Grid Reports - 2009*, Bogolyubov Institute for Theoretical Physics of the National Academy of Sciences of Ukraine, 21 January 2010, Kyiv, Ukraine. (in Ukrainian)

Poster Presentations

1. **O.V. Savytskyi**, V.O. Kravchuk and A.I. Kornelyuk. THE NEW ROLE OF CONNECTIVE PEPTIDE 1 IN MAMMALIAN TYROSYL-tRNA SYNTHETASE RELATED TO MUTATIONS ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. *iNEXT Workshop on "Bridging Solution Methods: From NMR to Xray Scattering And Biophysics"*, 18-22 September 2017, Patras, Greece.
2. **Oleksandr V. Savytskyi** and Alexander I. Kornelyuk. COMPUTATIONAL MODELING OF MOLECULAR DYNAMICS SIMULATIONS OF TYROSYL-tRNA SYNTHETASE AND ITS MUTANT FORMS ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. *XI International Conference "Factors in Experimental Evolution of Organisms"*, 12-16 September 2016, Odessa, Ukraine.
3. **Oleksandr V. Savytskyi** and Alexander I. Kornelyuk. MOLECULAR DYNAMICS SIMULATIONS OF TYROSYL-tRNA SYNTHETASE MUTANT FORMS ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. *FEBS/IUBMB Advanced Lecture Course "Molecular basis of human diseases: 50 years anniversary of Spetses summer schools"*, 27th May - 1st June, 2016, Spetses island, Greece.
4. **O.V. Savytskyi**, I.A. Sliusar, A.O. Salnikov and A.I. Kornelyuk. MOLDYNGRID VIRTUAL LABORATORY AS WEB-ORIENTED GRID-SERVICE FOR BIOMOLECULAR SIMULATIONS. *EGI Community Forum 2015*, 10-13 November 2015, Bari, Italy.
5. **O.V. Savytskyi**, A.I. Kornelyuk. CONFORMATIONAL CHANGES IN MUTANT FORMS G41R OF TYROSYL-tRNA SYNTHETASE AND G526R OF GLYCYL-tRNA SYNTHETASE ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. *VI Meeting of Ukrainian Biophysical Society, 28-30 May 2015, Luts'k-Svityaz, Ukraine.*
6. **Oleksandr V. Savytskyi** and Alexander I. Kornelyuk. MOLECULAR DYNAMICS OF HUMAN TYROSYL-tRNA SYNTHETASE ACTIVE CENTER IN THE COMPLEX WITH TYROSYL-ADENYLATE. *XI Ukrainian Biochemical Congress*, 6-10 October 2014, Kyiv, Ukraine.
7. **Oleksandr V. Savytskyi**, Semen O. Yesylevskyy and Alexander I. Kornelyuk. CONFORMATIONAL FLEXIBILITY AND DOMAIN BINDING INTERFACES IN HUMAN TYROSYL-tRNA SYNTHETASE STUDIED BY MOLECULAR DYNAMICS SIMULATIONS. *FEBS-EMBO Conference 2014*, 30 August - 4 September 2014, Paris, France.
8. **Oleksandr V. Savytskyi**, Semen O. Yesylevskyy and Alexander I. Kornelyuk. CONFORMATIONAL FLEXIBILITY AND DOMAIN BINDING INTERFACES IN HUMAN TYROSYL-tRNA SYNTHETASE STUDIED BY MOLECULAR DYNAMICS SIMULATIONS. *FEBS Young Scientists' Forum 2014*, 27-30 August 2014, France.
9. **O.V. Savytskyi**, I.A. Sliusar, A.O. Salnikov, S.O. Yesylevskyy and A.I. Kornelyuk. MOLDYNGRID VIRTUAL LABORATORY AS WEB-ORIENTED GRID-SERVICE FOR AUTOMATION OF THE MOLECULAR DYNAMICS SIMULATIONS. *Opening of the Academic Year 2013/2014 at Biocentrum Ochota*, 25 October 2013, Warsaw, Poland.
10. **O.V. Savytskyi,** I.A. Sliusar, A.O. Salnikov and A.I. Kornelyuk. LOCAL *β*-SHEET FORMATION IN G41R AND 153-156delVKQV MUTANTS OF HUMAN TYROSYL-tRNA SYNTHETASE ASSOCIATED WITH CHARCOT-MARIE-TOOTH DISEASE. *FEBS/EMBO Lecture Course "Protein interactions, assemblies and human disease"*, 16–26 September 2013, Spetses, Greece.
11. **O. V. Savytskyi**, A. I. Kornelyuk. LOCAL BETA-SHEET FORMATION IN 153-156delVKQV MUTANT OF HUMAN TyrRS ASSOCIATED WITH CMT DISEASE. *The 9th European Biophysics Congress (EBSA2013)*, 13-17 July 2013, Lisbon, Portugal.
12. **Oleksandr V. Savytskyi**, Semen O. Yesylevskyy and Alexander I. Kornelyuk. LOCAL β-SHEET FORMATION IN G41R MUTANT OF HUMAN TYROSYL-tRNA SYNTHETASE ASSOCIATED WITH CHARCOT-MARIE-TOOTH DISEASE. *The 6th Theoretical Biophysics Symposium*, 24-27 June 2013, Gothenburg, Sweden.
13. **Oleksandr V. Savytskyi**, S.O. Yesylevskyy, A.I. Kornelyuk. MOLECULAR DYNAMICS SIMULATIONS OF TYROSYL-tRNA SYNTHETASE MUTANTS ASSOCIATED WITH NEURODEGENERATIVE DISEASE. *The FEBS Workshop Cell Biology and Pharmacology of Mendelian Disorders*, 7-11 October 2011, Vico Equense (Naples), Italy.
14. **Savytskyi O.V.** Yesylevskyy S.O., Kornelyuk O.I.. COMPUTATIONAL ANALYSIS OF COMPACTIZATION OF TYROSYL-tRNA SYNTHETASE IN SOLUTION USING HIERARCHICAL ROTATIONS AND MOLECULAR DYNAMICS METHODS. *The V Meeting of Ukrainian Biophysical Society*, 22-25 June 2011, Luts'k, Ukraine. (in Ukrainian)

15. **O. Savytskyi,** R. Nikolaenko, A. Kornelyuk. MOLECULAR DYNAMICS SIMULATION OF MUTANT TYROSYL-tRNA SYNTHETASE ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY REVEALS THE STABILIZATION OF ENZYME DIMER INTERFACE**.** *Physical Chemistry of Biointerfaces Workshop*, CIC biomaGUNE, 19-24 July 2010, Donostia - San Sebastian, Spain.
16. A.P. Gryganskyi, A. Litvintseva, S.C. Lee, M.E. Smith, G. Bonito, T.M. Porter, I.M. Anishchenko, **O. Savytskyi**, W. Colquhoun, J. Heitman, R. Vilgalys. STRUCTURE, FUNCTION, AND PHYLOGENY OF THE SEX LOCUS IN THE RHIZOPUS ORYZAE COMPLEX. *Joint Meeting of the Mycological Society of America and The International Symposium on Fungal Endophytes of Grasses*, June 28-July 1, 2010, University of Kentucky, Lexington, Kentucky, USA.
17. R. Nikolaenko, F. Tereschenko, **O. Savytskyi**, A. Kornelyuk. MOLECULAR DYNAMICS SIMULATION OF HUMAN TYROSYL-tRNA SYNTHETASE AND ITS MUTANT FORMS ASSOCIATED WITH CHARCOT-MARIE-TOOTH NEUROPATHY. *Polish – Ukrainian research collaboration meeting*, International Institute of Molecular and Cell Biology, 14 May 2009, Warsaw, Poland.

As Research Group Leader | Networking with Students

2014 – 2017	**Vladyslav Kravchuk**, Department of Biotechnology, National Aviation University, Institute of High Technologies, Taras Shevchenko National University of Kyiv. ***Collaboration*** in molecular dynamics of mammalian TyrRS, High-Performance Computing. ***Results:*** Diploma for the outstanding Bachelor's thesis, paper in Journal of Biomolecular Structure and Dynamics (Awarded as the best article of the year in 2016, IMBG of NASU), oral presentations. ***Status after:*** PhD student at the Institute of Science and Technology (IST) Austria.
2014 – 2017	**Valentyn Petrychenko**, ESC "Institute of Biology and Medicine", Taras Shevchenko National University of Kyiv. ***Collaboration*** in molecular dynamics of mammalian TyrRS in complex with tRNA, High-Performance Computing. ***Results:*** Diploma for the outstanding Bachelor's thesis, Diploma for the best oral presentation on the *Shevchenkivska Vesna: bioscience advances 2017*, 18-21 April 2017, Kyiv, Ukraine. ***Status after:*** M.Sc. Molecular biology at the Georg-August-Universität Göttingen, Germany.
2009 – 2010	**Anastasiia Kamenska**, Taras Shevchenko National University of Kyiv ***Collaboration*** in aggregation analysis *in silico* of *H. sapiens* TyrRS's mutant forms, associated with Charcot-Marie-Tooth neuropathy. ***Results:*** Bachelor thesis, abstracts, poster presentations in EU. ***Status after:*** PhD student at the University of Cambridge, United Kingdom.
2008 – 2010	**Roman Nikolaienko**, NTUU "Igor Sikorsky Igor Sikorsky Kyiv Polytechnic Institute". ***Collaboration*** in molecular dynamics of *H. sapiens* TyrRS's mutant forms, associated with Charcot-Marie-Tooth neuropathy. HPC and GRID computing. ***Results:*** Master thesis, abstracts, poster presentations. ***Status after:*** PhD student at the University of Missouri – Kansas City.

Participation in Meetings and Courses without Presented Materials (selected)

1. The EGI Community Forum 2014, 19–23 May, Helsinki, Finland. (via Web).
2. HPC Day 2013, 10-11 October 2013, Kyiv, Ukraine.
3. HPC-UA: International Conferences on High Performance Computing, 7-9 October 2013, Kyiv, Ukraine.
4. Satellite Meeting of the EBSA2013 "Molecular Biology in Portugal and EMBL (and EMBL Alumni)", 18 July 2013, Lisbon, Portugal.
5. Satellite Meeting of the EBSA2013 "Bionanotechnology – Recent Advances", 10-13 July 2013, Sesimbra, Portugal.
6. EGI Community Forum 2013, Manchester, United Kingdom, 8-12 April 2013. (via Web)
7. Erik Lindahl, and Devang Sachdev. GROMACS and Kepler GPUs. *GPU Technology Conference*, 4 April 2013. (via Web).

Activities and Interests

Reading (popular-science, science fiction), swimming, traveling, filming short films.