BIOGRAPHICAL SKETCH

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NAME: Semchonok, Dmitry

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Principal Investigator

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	END DATE MM/YYYY	FIELD OF STUDY
Odessa Regional Basic Medical College, Laboratory diagnostics, Odessa	laboratory assistant	07/2003	Laboratory diagnostics
Odessa I. I. Mechnikov National University, Biology, Odessa	BS	07/2007	Biology
Odessa I. I. Mechnikov National University, Odessa, Odessa	MS	07/2008	Biochemistry
Rijksuniversiteit Groningen, Groningen	PHD	03/2016	Biophysical chemistry, electron microscopy
Rijksuniversiteit Groningen, Groningen	Postdoctoral Fellow	09/2017	Biophysical chemistry, electron microscopy
Rijksuniversiteit Groningen, Groningen	Resident	04/2018	Guest researcher in Biomolecular X-ray Crystallography group
Hebrew University of Jerusalem, Jerusalem	Postdoctoral Fellow	09/2018	Biophysical chemistry, electron microscopy
Rijksuniversiteit Groningen, Groningen	Resident	05/2019	Guest researcher in Biomolecular X-ray Crystallography group
Martin-Luther-Universität Halle-Wittenberg, Halle	Postdoctoral Fellow	12/2022	Biophysical chemistry, electron microscopy
Martin-Luther-Universität Halle-Wittenberg, Halle	Postdoctoral Fellow	10/2023	Biophysical chemistry, electron microscopy
University of Tennessee, Knoxville	Resident	present	Biophysical chemistry, electron microscopy
ITQB Nova, Oeiras	Other training	present	Principal Investigator of Cryo-EM Integrative Structural Biology Lab

A. Personal Statement

Major research foci: - Establishing basic principles of photosynthetic protein synthesis, assembly and functioning; - Molecular evolution of multicomponent complexes in bioenergetic membranes.

Expert in membrane proteins, cryo-EM, image analysis, and model building.

1. Opatíková M, Semchonok D, Kopečný D, Ilík P, Pospíšil P, Ilíková I, Roudnický P, Zeljković S, Tarkowski P, Kyrilis F, Hamdi F, Kastritis P, Kouřil R. Cryo-EM structure of a plant photosystem II supercomplex with light-harvesting protein Lhcb8 and α-tocopherol. Nature Plants. 2023 August 07; 9(8):1359-1369. Available from: https://www.nature.com/articles/s41477-023-01483-0 DOI:

10.1038/s41477-023-01483-0

2. Semchonok D, Mondal J, Cooper C, Schlum K, Li M, Amin M, Sorzano C, Ramírez-Aportela E, Kastritis P, Boekema E, Guskov A, Bruce B. Cryo-EM structure of a tetrameric photosystem I from Chroococcidiopsis TS-821, a thermophilic, unicellular, non-heterocyst-forming cyanobacterium. Plant Communications. 2022 January; 3(1):100248-. Available from: https://linkinghub.elsevier.com/retrieve/pii/S2590346221001541 DOI: 10.1016/j.xplc.2021.100248
3. Semchonok DA, Li M, Bruce BD, Oostergetel GT, Boekema EJ. Cryo-EM structure of a tetrameric cyanobacterial photosystem I complex reveals novel subunit interactions. Biochim Biophys Acta. 2016 Sep;1857(9):1619-1626. PubMed PMID: 27392600.
4. Semchonok D, Li M, Bruce B, Oostergetel G, Boekema E. Cryo-EM structure of a tetrameric cyanobacterial photosystem I complex reveals novel subunit interactions. Biochimica et Biophysica Acta (BBA) - Bioenergetics. 2016 September; 1857(9):1619-1626. Available from: https://linkinghub.elsevier.com/retrieve/pii/S0005272816305722 DOI: 10.1016/j.bbabio.2016.06.012

B. Positions, Scientific Appointments and Honors

Positions and Scientific Appointments

2023 -	Principal Investigator, ITQB Nova, Macromolecular Crystallography Unit, Oeiras
2023 -	Guest researcher, University of Tennessee, Knoxville, Department of Biochemistry and Cellular and Molecular Biology, Knoxville
2023 - 2023	Postdoctoral researher, Martin Luther University Halle-Wittenberg, Biophysikalische Chemie, Halle
2019 - 2022	Postdoctoral researcher, Martin-Luther-Universität Halle-Wittenberg, Biozentrum IWE ZIK HALOmem, Halle, Sachsen-Anhalt
2018 - 2019	guest researcher, Rijksuniversiteit Groningen, Biomolecular X-ray Crystallography , Groningen, Groningen
2018 - 2018	Postdoctoral researcher, Hebrew University of Jerusalem, Plant & Environmental Sciences, Jerusalem, Jerusalem
2017 - 2018	Guest researcher, Rijksuniversiteit Groningen, Biomolecular X-ray Crystallography , Groningen
2016 - 2017	Postdoctoral researcher, Rijksuniversiteit Groningen, Electron Microscopy group, Groningen, Groningen
2010 - 2016	PhD candidate , Rijksuniversiteit Groningen, Electron Microscopy group, Groningen, Groningen

C. Contribution to Science

Complete List of Published Work in My Bibliography:
https://www.ncbi.nlm.nih.gov/myncbi/dmitry.semchonok.1/bibliography/public/