Vladimir O. Talibov

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Summary

A protein biochemist with an interest in ligand discovery. Experienced in biophysical and kinetic methods.

Skills

<u>Experimental</u>: Biophysical methods (SPR biosensors, TSA, MST), protein techniques, expression&purification, macromolecular crystallography

Computer: Linux, numerical analysis, RDKit, KNIME

Languages: English, Russian, Swedish (basic)

Expertise: Biophysical methods, enzymology, small molecules.

Experience

Senior Scientist

Mar 2021 - current

Sprint Bioscience AB, Huddinge, Sweden

- Support of FBLD projects as a member of Protein Science Team
- Structural biology (MX)
- Biophysical and biochemical methods.

Researcher

Aug 2019 – Feb 2021

MAX IV Laboratory, Lund, Sweden

- Development of operation protocols for MAX IV fragment screening facility
- Design, curation and maintenance of in-house fragment library
- BioMAX user support as a beamline scientist, including on-call service.

PhD student, Researcher

Apr 2014 – Jun 2019

Uppsala University, Uppsala, Sweden

- Development of biophysical and enzymatic assays for ligand discovery
- Maintenance of biosensors and chromatographic equipment.
- Teaching (20%, MSc-level courses)

Laboratory Assistant

Jul 2012 - Feb 2014

OOO "Biochip-IMB", Moscow, Russia

- Development and validation of multiplex clinical diagnostics assays
- QC of proteins, synthetic oligonucleotides and reactive small molecules.

Education

PhD in Biochemistry

2014 - 2019

Uppsala University, Uppsala, Sweden Advisor: Prof. U. Helena Danielson

"Interaction kinetic analysis in drug design, enzymology and protein research".

BSc&MSc in Chemistry

2008 - 2013

Moscow State University, Moscow, Russia Specialisation in bioorganic chemistry.

Interests

Molecular recognition, early stage lead discovery, screening techniques.

Research articles: 9; details are available at GScholar. Other: reviews - 2, book chapters - 1, patents - 1.

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- [4] T. Ursby, K. Åhnberg, R. Appio, O. Aurelius, A. Barczyk, A. Bartalesi, M. Bjelčić, F. Bolmsten, Y. Cerenius, R. B. Doak, et al. "BioMAX-the first macromolecular crystallography beamline at MAX IV Laboratory". In: *J. Synchrotron Radiat.* 27.5 (2020).
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- [7] V. O. Talibov, V. Linkuvienė, U. H. Danielson, and D. Matulis. "Kinetic Analysis of Carbonic Anhydrase–Sulfonamide Inhibitor Interactions". In: *Carbonic Anhydrase as Drug Target*. Springer, Cham, 2019, pp. 125–140.
- [8] V. Linkuviene*, V. O. Talibov*, U. H. Danielson, and D. Matulis. "Introduction of intrinsic kinetics of protein–ligand interactions and their implications for drug design". In: *J. Med. Chem.* 61.6 (2018), pp. 2292–2302.
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- [10] V. O. Talibov, V. Linkuvienė, D. Matulis, and U. H. Danielson. "Kinetically selective inhibitors of human carbonic anhydrase isozymes I, II, VII, IX, XII, and XIII". In: *J. Med. Chem.* 59.5 (2016), pp. 2083–2093.
- [11] V. I. Butvilovskaya, M. V. Tsybulskaya, A. A. Tikhonov, V. O. Talibov, P. V. Belousov, A. Y. Sazykin, A. M. Schwartz, S. A. Surzhikov, A. A. Stomakhin, O. N. Solopova, et al. "Preparation of recombinant serpins B3 and B4 and investigation of their specific interactions with antibodies using hydrogel-based microarrays". In: *Mol. Biol.* 49.5 (2015), pp. 705–713.
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