Curriculum vitae

Name: Vasily Zlatogursky

E-mail: v.zlatogursky@gmail.com

Date of birth: 26.11.1986

Education: 2004-2009: Undergraduate student, St.Petersburg State University
2009 Bachelor Diploma
BSc Thesis "Heliozoans (Heliozoa) of inner lakes of Valamo island"
2009-2011: Graduate student, St.Petersburg State University
2011 Master Thesis "Biodiversity of heliozoans of inner lakes of Valamo island"
2011-2014 Postgraduate student, St.Petersburg State University
2014 PhD Thesis "Diversity and evolution of cell coverings in centrohelid heliozoans (Protista: Centrohelida)"

Supervisor: Alexey Smirnov, PhD, professor St. Petersburg State University

Research interests: Protistology, Biodiversity of Heliozoa; Ameboid protists, Light and electron microscopy, Molecular phylogeny.

Job 2011-Present Assistant professor, Saint-Petersburg State University

Publications:

1. Zlatogursky V. V. 2011. Heliozoans. // Protista: handbook of zoology. – St-Petersburg.; Moscow: KMK Scientific Press. Part 3. – 474 p. (in Russian)
2. Zlatogursky V. V., 2010. Three new freshwater species of centrohelid heliozoans: *Acanthocystis crescenta* sp. nov., *A. kirilli* sp. nov., and *Choanocystis minima* sp. nov. // Eur. J. Protistol. 46[3], 159-163.
3. Zlatogursky V. V. 2012. *Raphidiophrys heterophryoidea* sp. nov. (Centrohelida: Raphidiophryidae), the first heliozoan species with a combination of siliceous and organic skeletal elements. // Eur. J. Protistol. 48 [1], 9-16.
4. Zlatogursky V. V. 2013. Puzzle-like cyst wall in centrohelid heliozoans *Raphidiophrys heterophryoidea* and *Raineriophrys erinaceoides* // Acta Protozool. 52 [4], 229-236.
5. Zlatogursky V. V. 2014. Two new species of centrohelid heliozoans: *Acanthocystis costata* sp. nov. and *Choanocystis symna* sp. nov. // Acta Protozool. 53 [4]: 311-322.
6. Burki F., Kaplan M., Tikhonenkov D. V., Zlatogursky V. V., Radaykina L., Smirnov A., Bui Q. M., Mylnikov A. P., Keeling P. J. 2016. Untangling the early diversification of eukaryotes: a phylogenomic study of the evolutionary origins of Centrohelida, Haptophyta and Cryptista. // Proceedings of the Royal Society B. 283, 20152802.
7. Zlatogursky V. V. 2016. There and back again: parallel evolution of cell coverings in centrohelid heliozoans. // Protist. 167: 51-66.
8. Pchelin I. M., Zlatogursky V. V., Rudneva M. V., Chilina G. A., Rezaei-Matehkolaei A., Lavnikevich D. M., Vasilyeva N. V., Taraskina A. E. 2016. Reconstruction of phylogenetic relationships in dermatomycete genus *Trichophyton* Malmsten 1848 based on ribosomal internal transcribed spacer region, partial 28S rRNA and beta-tubulin genes sequences. Mycoses. 59: 566-575.
9. Zlatogursky V. V., Kudryavtsev A., Udalov I., Bondarenko N., Pawlowski J., Smirnov A. 2016. Genetic structure of a morphological species within the amoeba genus *Korotnevella* (Amoebozoa: Discosea), revealed by the analysis of two genes. // Eur. J. Protistol. 56, 102-111.

10. Klimov V. I., Zlatogursky V. V. 2016. Light- and electron-microscopical study of *Belonocystis marina* sp. nov. (Eukaryota: incertae sedis). // Protist. 167: 479-489.
11. Udalov I. A., Zlatogursky V. V., Smirnov A.V. 2016. A New Freshwater Naked Lobose Amoeba *Korotnevella venosa* n. sp. (Amoebozoa, Discosea). // J. Euk. Microbiol. 63: 834–840.
12. Zlatogursky V. V., Klimov V. I. 2016. Barcoding heliozoa: perspectives of 18S rDNA for distinguishing between *Acanthocystis* species. // Protist. 167: 555-567.
13. Zlatogursky V. V. 2016. The state of art in the taxonomy of "Heliozoa" // Protistology, 10:92.
14. Zlatogursky V. V., Gerasimova E. A., Plotnikov A. O. 2017. A new species of centrohelid heliozoan Acanthocystis amura n. sp. isolated from two remote locations in Russia. // J. Euk. Microbiol. 64(4): 434-439.
15. Zlatogursky V. V., Drachko D., Klimov V. I., Shishkin Y. 2018. On the phylogenetic position of the genus *Raphidocystis* (Haptista: Centroplasthelida) with notes on the dimorphism in centrohelid life cycle. // Eur. J. Protistol. 64: 82-90.
16. Shishkin Y., Drachko D., Klimov V. I., Zlatogursky V. V. 2018. *Yogsothoth knorrus* gen. n., sp. n. and *Y. carteri* sp.n. (Yogsothothidae fam. n., Haptista, Centroplasthelida), with notes on Evolution and Systematics of Centrohelids. // Protist. 169: 682-696.
17. Adl S. M., Bass D., Lane C. E., Lukeš J., Schoch C. L., Smirnov A., Agatha S., Berney C., Brown M. W., Burki F., Cárdenas P., Čepička I., Chistyakova L., Del Campo J., Dunthorn M., Edvardsen B., Eglit Y., Guillou L., Hampl V., Heiss A. A., Hoppenrath M., James T. Y., Karpov S., Kim E., Kolisko M., Kudryavtsev A., Lahr D. J. G., Lara E., Le Gall L., Lynn D. H., Mann D. G., Massana I., Molera R., Mitchell E. A. D., Morrow C., Park J. S., Pawlowski J. W., Powell M. J., Richter D. J., Rueckert S., Shadwick L., Shimano S., Spiegel F. W., Torruella I., Cortes G., Youssef N., Zlatogursky V., Zhang Q. 2019. Revisions to the Classification, Nomenclature, and Diversity of Eukaryotes. // J. Euk. Microbiol. J. Euk. Microbiol. 66: 4–119

Conferences:

1. Zlatogursky V.V. Biodiversity, taxonomy and evolution of “Heliozoa” VI European Congress of Protistology, Berlin, 25-29 July 2011. Oral presentation.
2. Zlatogursky V.V. Different types of locomotive activity in heliozoans. Protist 2012, Oslo, 29 July – 3 August. Oral presentation.
3. Zlatogursky V.V. Raphidiophrys heterophryoidea – a no longer missing link in the evolution of centrohelid heliozoans. XIV International Congress of Protistology, Vancouver, 28 July – 2 August 2013. Oral presentation.
4. Zlatogursky V. V. Barcoding heliozoa: perspectives of 18S gene for distinguishing between *Acanthocystis* species. EukRef workshop, Vancouver, 19-24 July 2015. Poster.
5. Zlatogursky V. V. There and back again: coverings evolution in centrohelid heliozoans. VII European Congress of Protistology, Seville, 5-10 September 2015. Oral presentation.
6. Zlatogursky V. V. The state of art in the taxonomy of "Heliozoa" Protist-2016, Moscow, 6-10 June 2016. Oral presentation.
7. Drachko, D., Klimov, V., Shishkin, Y., Zlatogursky, V., 2017. The phenotypic masquerade in centrohelid heliozoan Raphidiophrys

heterophryoidea. XV International congress of protistology, Prague, 30 July – 4 August 2017. Oral presentation.

8. Klimov, V., Brown, M., Butenko, A., Clauß, S., Drachko, D., Flegontov, P., Eglit, Y., Eliáš, M., Lax, G., Shishkin, Y., Simpson, A.G.B., Smirnov, A., Tice, A.K., AndreyVishnyakov, Völcker, E., Zlatogursky, V., 2017. Belonocystis is a member of Amoebozoa: an example of dramatic flagella simplification? XV International congress of protistology, Prague, 30 July – 4 August 2017. Poster.
9. Shishkin, Y., Drachko, D., Klimov, V., Zlatogursky, V., 2017a. RS16-X – a newly isolated protist with possible relationships to Belonocystis and Luffisphaera. XV International congress of protistology, Prague, 30 July – 4 August 2017. Poster.
10. Shishkin, Y., Drachko, D., Klimov, V., Zlatogursky, V., 2017b. RS161 – a new morphologically and genetically distinct colonial centrohelid. XV International congress of protistology, Prague, 30 July – 4 August 2017. Poster.
11. Gerasimova, E. A., Zlatogursky, V. V., Plotnikov, A. O., 2017. New freshwater centrohelidian species Acanthocystis simemensmae sp. N., Acanthocystis lyra sp. n. and Acanthocystis amura sp. n. (Haptista, Heliozoa, Centrohelea) from Russia. XV International congress of protistology, Prague, 30 July – 4 August 2017. Poster.
12. Zlatogursky, V. V., Drachko, D., Shishkin, Y., 2018. New findings in the diversity, taxonomy and life cycles of centrohelid heliozoans. Phycological Society of America and the International Society of Protistologists Conference 2018, Vancouver, 29 July – 2 August 2018, Oral presentation.

Internships:

1. October-November 2011: Laboratory of molecular evolution and ecology of protists, Department of Genetics & Evolution, University of Geneva, Geneva, Switzerland.
2. October 2013: Laboratory of molecular evolution of protists, Department of Botany, University of British Columbia, Vancouver, Canada
3. 2018: Systematic biology program, Uppsala university, Uppsala, Sweden

Projects

1. 2012-2013 holder of RFBR grant 12-04-31982. “Biodiversity, phylogeny and DNA-barcoding of heliozoans”.
2. 2013 holder of CSHE grant ПСП-№13164 “Heliozoans (Heliozoa): bioindication methods design”
3. 2015-2017 holder of RFBR grant 15-04-18101_a “Taxonomy, phylogeny and biodiversity of “Heliozoa“
4. 2015 holder of RFBR grant 15-34-50255_мол_нр “Diversity of heliozoans in hyperhaline environments“
5. 2016-2018 holder of RFBR grant 16-34-60102 мол_а_дк “Evolution and biodiversity of centrohelid heliozoa (Centroplasthelida)”

Projects participation:

1. 2006-2008 RFBR 06-04-49387-a «Toward a new system of lobose amoebae».
2. 2007 RFBR 07-04-10156-к «Organization of the expedition for collecting protists in North-Western Russia (Leningradskaja Oblast and Valamo archipelago)»
3. 2008-2010 RFBR 08-04-00244-a «Ultrastructure, biology and phylogeny of amoeboid protists (flagellate cercozoans, amoebozoans and heliozoans)»
4. 2008 RFBR 08-04-10106-к «Expedition for collecting naked lobose amoebae at Valamo archipelago and in Leningradskaya region»
5. 2009-2011 RFBR 09-04-01749-a «Biodiversity, population structure and species problem among naked lobose amoebae»

6. 2010 RFBR 10-04-07041-д «Publication: "Protista: Handbook on zoology". Part 3»
7. 2010 RFBR 10-04-10049-к «Organization of the expedition for collecting of naked lobose amoebae strains at the territory of Valamo Archipelago»
8. 2011-2013RFBR 11-04-00077-а «Ultrastructure, biology and phylogeny of free-living excavates and amoeboid protists»
9. 2011-2013 RFBR 11-04-01921-а «Introns in ribosomal cluster of zoochlorellae, their evolution and functional importance in the complex symbiotic system: Protozoa, zoochlorellae and Chlorovirus (Phycodnaviridae) »
10. 2011 RFBR 11-04-10142-к «Organization of the expedition for collecting lobose amoeba strains at Valamo archipelago and at Valamo archipelago and Chupa inlet of White Sea»
11. 2012-2014 RFBR 12-04-01825-а «Multigene phylogeny of Amoebozoa and design of the new system, unifying all amoeboid protists».
12. 2012-2013RFBR 12-04-91664-ЭРА_а «Design and usage of DNA-barcodes for studying biodiversity of soil protists»
13. 2012-2014 RFBR 12-04-33229-мол_а_вед «Biodiversity of naked lobose amoebae (Amoebozoa) in deep-sea habitats»
14. 2015 RFBR 15-44-02467-р_повольжье_а «Centrohelidian heliozoa from brackish and saline continental reservoirs»
15. 2015-2017 RFBR 15-29-02749-офи_м «Complex revision of the amoeboid protists' biodiversity on the territory of the Russian Federation»

Field trips: 2007, 2009, 2010, 2011, 2013, 2015, 2016 Valamo island (North-Western Russia), Valamo field station of the St-Petersburg Naturalists Society
2008, 2010, 2012, 2015, 2016 SPbGU White Sea Station
2017 Friday Harbor labs, Friday Harbor, US
2018 Roscoff fieldstation, Roskoff, France

Awards 2011 The prize of Saint-Petersburg society of naturalists on the Master's thesis contests
2014 Scholarship of the President of the Russian Federation
2015, 2017 Holz-Conner Award International Society of Protistologists

Teaching experience: 2009-2015 summer fieldwork for undergraduate courses in Invertebrate Zoology; elementary laboratory classes in Invertebrate Zoology
2014-2016 Evolutionary and taxonomic diversity of marine invertebrates – international course for students of University of Tromsø and The University Centre in Svalbard (UNIS)

Skills: Isolation and maintenance of free-living protists cultures
Light microscopy
Scanning and transmission electron microscopy
DNA and RNA isolation, PCR, preparation of the DNA for Sanger and Illumina sequencing
Phylogenetic analysis