

# Dr. Alexander Kudryavtsev

## Curriculum vitae

**Date of birth:** 31.01.1978

**Nationality:** Russian

**Address:** Department of Invertebrate Zoology, Faculty of Biology and Soil Science, Saint-Petersburg State University, Universitetskaja nab. 7/9, 199034 Saint-Petersburg, Russia

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**Marital status:** married, 3 children

### Present position.

Senior researcher, Department of Invertebrate Zoology, Faculty of Biology and Soil Science, Saint-Petersburg State University;

Leading specialist, Core Facility Centre "Culture Collection of Eukaryotic Microorganisms", Saint-Petersburg State University

### Current research interests:

1. Phylogeny of Amoebozoa based on morphological and gene sequence data.
2. Species problem and biogeography of amoebae.
3. Biodiversity and community composition of the deep-sea amoeboid protists.

### Current teaching:

1. Molecular techniques in zoology, practical course (master students; Spring semester)
2. Methods of electron microscopy (master students; Spring semester)

### Education and professional experience.

#### Professional experience:

**December 2010-April 2012:** postdoc, Molecular Systematics Group, Department of Genetics and Evolution, University of Geneva, under the supervision of Prof. Dr Jan Pawlowski; project title: "Barcoding amoebae" (grant IZLR Z3\_128338 from Science and Technology Cooperation Programme Switzerland – Russia)

**November 2008-October 2010:** postdoc, Protozoology Research Group, Institute for Biology/Zoology, Free University of Berlin, under the supervision of Prof. Dr K. Hausmann; project title: "Deep-sea protozoa communities" (DFG grant HA 818/22-1)

**November 2007-September 2008:** postdoc, Molecular Systematics Group, Department of Zoology and Animal Biology, University of Geneva, under the supervision of Prof. Dr Jan Pawlowski; project title: "Molecular phylogeny of Amoebozoa and Rhizaria"

**January 2004-October 2007:** assistant professor, then senior lecturer, Department of Invertebrate Zoology, Faculty of Biology & Soil Science, Saint-Petersburg State University

### **Education:**

**08.04.2004:** PhD degree in biology (zoology) at Saint-Petersburg State University, thesis title "Biodiversity, systematics and phylogeny of the order Himatismenida Page, 1987 (Rhizopoda)"

**2001-2003:** PhD student of the Department of Invertebrate Zoology, Faculty of Biology & Soil Sci., Saint-Petersburg State University

**27.11.2000:** Maintained MSci thesis "On the systematics of the order Himatismenida Page, 1987 (Rhizopoda, Lobosea): an attempt of revision" (result: excellent); awarded the MSci degree

**1998-2000:** MSci student of the Department of Invertebrate Zoology, Faculty of Biology & Soil Sci., Saint-Petersburg State University

**1994-1998:** Undergraduate student of the Faculty of Biology & Soil Science of Saint-Petersburg State University

**1985-1994:** Secondary school education; graduated from Anichkov Lyceum of the Saint-Petersburg Palace of Youth Creativity in 1994

### **International training visits, fellowships and schools:**

**August 24-25, 2013:** Workshop on habitat mapping (working with PRIMER and ArGIS software), National University of Ireland, Galway, Ireland.

**August 6-17, 2012:** International summer school on computational phyloinformatics ComPhy 2012, Moscow, Russia

**August 2007-September 2007:** Protozoology Research Group, Institute for Biology/Zoology, Free University of Berlin, under the supervision of Prof. Dr K. Hausmann; project title: "Cell surface ultrastructure and the diversity of movement patterns in Flabellinea (Amoebozoa)"; supported by the DAAD fellowship A/07/09265

**October 2005-July 2006:** Protozoology Research Group, Institute for Biology/Zoology, Free University of Berlin, under the supervision of Prof. Dr K. Hausmann; project title: "Investigation of the mechanisms of movement in *Cochliopodium* spp. (Lobosea, Himatismenida)"; supported by the DAAD fellowship A/05/00103

**August 2002-December 2002:** Laboratory for Molecular systematics and Animal Evolution, Faculty of Biology and Pharmacy, university of Leipzig, under the supervision of Prof. Dr M. Schlegel; project title: "Phylogeny of the genus *Cochliopodium* on the basis of 18S rRNA sequence data"

**October 2001-March 2002:** Department of Cell Biology, Institute for Zoology, university of Tübingen under the supervision of Prof. Dr D. Ammermann. Project title: "Transcription regulation in *Stylonichia* (Ciliophora, Hypotricha)"; supported by DAAD grant 325/lin

**July 2001:** Research training on the methods of molecular biology at the Department of General Zoology, Institute for Zoology, university of Kiel under the supervision of Prof. Dr T. Bosch. Supported by Leonard Euler Fellowship from DAAD

### **Field work experience:**

**2010:** SoJaBio expedition on board the Russian research vessel “Akademik M.A. Lavrentyev” (August, 11 – September, 5; Vladivostok, Russia); collection of protists from deep-sea bottom sediment samples

**2009:** DIVA3 expedition on board German research vessel METEOR (July, 10; Montevideo, Uruguay – August, 23; Ponta Delgada, The Azores); collection of protists from deep-sea bottom sediment samples

**November 2007, May 2008:** marine research station Villefranche-sur-mer (France); collection of radiolarians for phylogenomic research

**1997-2001 and 2013:** Regular research visits to the Marine Biological station of the Saint-Petersburg State University (Chupa Inlet, Kandalaksha Bay, The White Sea); collection of marine and brackish-water protists. Annually, 2 - 8 weeks during Summer

### **Funded research projects.**

#### **Ongoing projects:**

**2014:** Holder of the grant No 14-04-10181K from the Russian Foundation for Basic Research, project title: “Research project of a complex field expedition for collection of naked lobose amoebae and heliozoa from the ecosystems with salinity gradients”

**2013-2014:** Holder of the grant No 12-04-33229 from the Russian Foundation for Basic Research, project title: “Biodiversity of naked lobose amoebae (Amoebozoa) in deep-sea habitats”

**2012-2014:** Holder of the grant No 12-04-01835 from the Russian Foundation for Basic Research, project title: “Taxonomic revision, phylogenetic analysis and morphospecies structure in the order Himatismenida (Amoebozoa incertae sedis)”

#### **Accomplished projects:**

**2010-2012:** Member of the research group working on the project “Barcoding amoebae” supported by the cooperative grant No IZLR Z3\_128338 from Science and Technology Cooperation Programme Switzerland – Russia, provided to Prof. Dr J. Pawlowski (Molecular Systematics Group, Department of Genetics and Evolution, University of Geneva)

**2009-2011:** Member of the research group working on the project “Biodiversity, population structure and species problem among naked lobose amoebae” supported by the grant No 09-04-01749 from the Russian Foundation of Basic Research, provided to Dr A. V. Smirnov (Department of Invertebrate Zoology, Faculty of Biology & Soil Sci., St. Petersburg State University)

**2006-2008:** Member of the research group working on the project “Toward a new system of lobose amoebae” supported by the grant No 06-04-49387 from the Russian Foundation of Basic Research, provided to Dr A. V. Smirnov (Department of Invertebrate Zoology, Faculty of Biology & Soil Sci., St. Petersburg State University)

**2005-2008:** Member of the research group working on the project “Molecular systematics of amoeboid protists” supported by the cooperative grant No IB73A0-111064 from the Swiss National Science Foundation (SCOPES program), provided to Prof. Dr J. Pawlowski (Molecular Systematics Group, Department of Zoology and Animal Biology, University of Geneva)

**2007:** Holder of the grant No PD07-1.4-143 from the St. Petersburg Committee of Science and Higher Education (Government of Saint-Petersburg), project title: “Diversity of

amoebae of Cochliopodiidae (Amoebozoa) in the Lahta Bay and marsh habitats of Yuntolovo protected area: perspectives for biomonitoring”

**2005-2006:** Holder of the grant No 05-04-49000 from the Russian Foundation for Basic Research, project title: “Systematic revision, inference of the phylogenetic relations and elaboration of the new system of the order Himatismenida Page, 1987 (Lobosea)”

**2003-2005:** Member of the research group working on the project "Investigation of the spatial microstructure of the natural habitats and elaboration of new model of the global- and local-scale distribution of protozoan species", supported by the grant No 03-04-48718 from the Russian Foundation of Basic Research, provided to Dr A. V. Smirnov (Department of Invertebrate Zoology, Faculty of Biology & Soil Sci., St. Petersburg State University)

**2003-2004:** Member of the research group working on the project "Systematics and phylogeny of amoeboid protists", supported by the grant No E02-6.0-78 from the Ministry of Education of Russia provided to Prof. Dr S. A. Karpov (Department of Invertebrate Zoology, Faculty of Biology & Soil Sci., St. Petersburg State University)

**1999-2002:** Member of the research group working on the project "Morphology, ecology and evolution of the Protozoa and their symbiotic systems with Prokaryota", supported by the grant for promotion of leading scientific schools from Russian Ministry of Science, High School and Technical Politics, provided to Prof. Dr L. N. Seravin (Biological Research Institute of Saint-Petersburg State University)

**1998-1999:** Member of the research group working on the project "Evaluation of the ecological role of gymnamoebae (Rhizopoda, Gymnamoebia) in freshwater benthic communities", supported by the grant No 99-04-49838 from the Russian Foundation of Basic Research, provided to Dr A. V. Smirnov (Department of Invertebrate Zoology, Faculty of Biology & Soil Sci., St. Petersburg State University)

### **Membership:**

**Since 2006:** Member of the German Society of Protozoologists

**Since 1998:** Member of St. Petersburg Naturalists Society

### **Presentations.**

#### **Invited talks:**

**2011:** - A. Kudryavtsev. "Phylogenetic relationships and genetic structure of morphospecies in *Cochliopodium* (Amoebozoa: Himatismenida): implications for the species problem in amoebae". Ecological Colloquium at the University of Cologne, June, 29.

**2009:** - A. Kudryavtsev. "Phylogeny of Cochliopodiidae and other Amoebozoa". Workshop on Molecular Systematics of Amoebozoa and Rhizaria, Geneva, Switzerland. January, 12-13.

- A. Kudryavtsev. "Environmental sequencing using Cox1 gene". Workshop on Molecular Systematics of Amoebozoa and Rhizaria, Geneva, Switzerland. January, 12-13.

#### **Contributed talks:**

**2013:** - A. Kudryavtsev. "Diversity of protozoa (with emphasis on Amoebozoa) from deep-sea sediment samples collected by two expeditions to Atlantic Ocean and the Sea of Japan". 48<sup>th</sup> European Marine biology Symposium, Galway, Ireland. August, 19-23.

- A. Kudryavtsev, A. Glotova and A. Smirnov. "The smaller, the earlier? The most early-branching species are the smallest ones in Himatismenida and Vannellida (Amoebozoa, Lobosa)". 14<sup>th</sup> International Congress of Protistology, Vancouver, Canada. July, 28 – August, 3.

**2012:** - A. Kudryavtsev. "DNA barcoding as a tool for species identification in naked lobose amoebae (Amoebozoa)." 2<sup>nd</sup> Protist Workshop at Eawag, Dübendorf, Switzerland. March, 15.

- A. Kudryavtsev and J. Pawlowski. "Phylogenetic relationships of the Himatismenida and taxonomy of Amoebozoa." 31<sup>st</sup> Annual Meeting of the German Society for Protozoology, Wuppertal, Germany. February, 29 - March, 3.

- A. Kudryavtsev, A. Smirnov and J. Pawlowski. "Phylogeny and DNA barcoding of the Himatismenida based on three genes". Protist 2012: 19th International Symposium on Evolutionary Protistology and 62nd meeting of International Society of Protistologists, Oslo, Norway. July, 29 - August, 3.

**2011:** - A. Kudryavtsev, A. Smirnov and J. Pawlowski. "Cytochrome oxidase subunit 1 (COI) as potential DNA barcode for lobose amoebae: application in the study of biogeography and genetic structure of amoebae morphospecies." 4th International Barcode of Life Conference, Adelaide, Australia. November, 30 - December, 3.

- A. Kudryavtsev and J. Pawlowski. "Genetic structure of amoebozoan morphospecies: a case study on freshwater *Cochliopodium* spp." VI European Congress of Protistology, Berlin, Germany. July, 25-29.

- A. Kudryavtsev, J. Pawlowski and K. Hausmann. "Expanding our knowledge of Amoebozoa: Atlantic and Pacific deep-sea amoebae from two expeditions – phylogenetic and taxonomic implications". VI European Congress of Protistology, Berlin, Germany. July, 25-29.

**2010:** - A. Kudryavtsev, J. Pawlowski and K. Hausmann. "Diversity of Amoebozoa in deep-sea samples from the western Atlantic – A preliminary report". 29<sup>th</sup> Annual Meeting of the German Society for Protozoology, Düsseldorf, Germany. March, 17-20.

**2009:** - A. Kudryavtsev, J. Pawlowski and K. Hausmann. "Species diversity and phylogeny of the family Microchlamyidae Ogden, 1985 (Amoebozoa, Arcellinida)". 5<sup>th</sup> International Symposium on Testate Amoebae, Montbéliard, France. September, 14-17.

- A. Kudryavtsev, J. Pawlowski and K. Hausmann. "Small-subunit ribosomal DNA of *Thecamoeba verrucosa* (Ehrenberg, 1838) (Amoebozoa, Thecamoebidae) and the phylogenetic relationships of Acanthamoebidae". 13<sup>th</sup> International Meeting on the Biology and Pathogenicity of Free-living Amoebae, Puerto de la Cruz, Tenerife, Spain. May, 17-21.

- A. Kudryavtsev. "SSU rDNA and ultrastructure of Cochliopodiidae, *Thecamoeba* and *Pellita*: implications for phylogeny of Discosean amoebae". 28<sup>th</sup> Annual Meeting of the German Society for Protozoology, Naumburg (Saale), Germany. February, 25-28.

**2008:** - A. Kudryavtsev and J. Pawlowski. "Phylogeny of the genus *Cochliopodium* (Amoebozoa) based on ultrastructure and gene sequence data." 59<sup>th</sup> Meeting of the International Society of Protistology/17<sup>th</sup> International Symposium on Evolutionary Protistology, Halifax, Canada. July, 21-26.

**2007:** - A. Kudryavtsev and K. Hausmann. "Locomotion and F-actin distribution in flabellinean amoebae of Cochliopodiidae, *Flamella* and *Pellita* (Amoebozoa)." V European Congress of Protistology and XI European Conference on Ciliate Biology. Saint-Petersburg, Russia. July, 23-27.

**2006:** - "Morphological diversity of the genus *Cochliopodium* (Himatismenida): how to put it in order?" 25<sup>th</sup> Annual Meeting of the German Society for Protozoology, Liebenwalde (Berlin), Germany. March, 8-11.

**2000:** "Diversity of Himatismenida from freshwater and marine habitats of North-Western Russia". 38 International Conference of Students, Novosibirsk, Russia. March, 24-27.

### **Poster presentations:**

**2012:** - A. Kudryavtsev and J. Pawlowski. "Himatismenida Page, 1987 (Amoebozoa) is a proper taxonomic home for *Parvamoeba* Rogerson, 1993: morphological and molecular evidence". Protist 2012: 19th International Symposium on Evolutionary Protistology and 62nd meeting of International Society of Protistologists, Oslo, Norway. July, 29 - August, 3.

**2011:** - A. Kudryavtsev and J. Pawlowski. "Genetic diversity of the morphospecies in Amoebozoa analysed using several molecular markers". EMBO Conference "Comparative genomics of eukaryotes", Sant Feliu de Guixols, Spain. October, 15-20.

**2010:** - A. Kudryavtsev, J. Pawlowski and K. Hausmann. "Amoebozoa in deep-sea samples from the western Atlantic revealed by the DIVA3 expedition on board RV METEOR". 12<sup>th</sup> International Deep-Sea Biology Symposium, Reykjavik, Iceland. June, 6-11.

- K. Hausmann and A. Kudryavtsev. "Auf den Spuren von Ernst Haeckel: Plankton aus dem Oberflächenwasser des Süd-West-Atlantik". 29<sup>th</sup> Annual Meeting of the German Society for Protozoology, Düsseldorf, Germany. March, 16-19.

**2008:** - A. Kudryavtsev, C. Wylezich, M. Schlegel, J. Walochnik and R. Michel. "Ultrastructure and molecular phylogeny of the genus *Flamella* Schaeffer, 1926 (Amoebozoa)." 25<sup>th</sup> Annual Meeting of the German Society for Protozoology, Rostock Warnemünde, Germany. March, 5-8.

**2007:** - "A higher species diversity in the family Microchlamyidae Ogden, 1985 (Amoebozoa, Testacealobosia): two new species of the genus *Spumochlamys* Kudryavtsev and Hausmann, 2007." V European Congress of Protistology and XI European Conference on Ciliate Biology. Saint-Petersburg, Russia. July, 23-27.

- A. Kudryavtsev and K. Hausmann. "An unusual combination of light- and electron-microscopical features in "*Thecamoeba*" *verrucosa* (Ehrenberg, 1838) (Amoebozoa)." V European Congress of Protistology and XI European Conference on Ciliate Biology. Saint-Petersburg, Russia. July, 23-27.

**2006:** - "Morphology and ultrastructure of a new species of *Microchlamys* (Testacealobosia, Microchlamyidae) from Central Asia." International Symposium on Testate Amoebae, Antwerp, Belgium. September, 12-14.

- A. Kudryavtsev and K. Hausmann. "Locomotion and F-actin distribution in *Cochliopodium* sp. (Amoebozoa, Himatismenida)." 25<sup>th</sup> Annual Meeting of the German Society for Protozoology, Liebenwalde (Berlin), Germany. March, 8-11.

**2002:** "Is it reasonable to include *Cochliopodium* and *Gocevia* (Rhizopoda, Lobosea, Himatismenida) in one order?" 21<sup>st</sup> Annual Meeting of the German Society for Protozoology, Konstanz, Germany. February, 27-March, 2.

**2001:** "On the species composition of *Cochliopodium* (Lobosea, Himatismenida) - a diverse, but "missing" group of amoebae". 9<sup>th</sup> International Congress of Protozoology, Salzburg, Austria. July, 15-19.

### **Personal grants and awards.**

**2004:** Grant for the "Young Scientists" from St. Petersburg Committee of Higher Education and Culture

**2003:** Title "G. Soros PhD Student" and the scholarship from G. Soros Foundation

**2002:** - Honourable scholarship from the Government of Russia

- Title "G. Soros PhD Student" and the scholarship from G. Soros Foundation

**2001:** - 2<sup>nd</sup> prize from the Saint-Petersburg Society of Naturalists at the Competition of diploma and MSc works, maintained at Saint-Petersburg State University in 2000-2001 academic year

- Leonard Euler fellowship from the DAAD

- Grant for the "Young Scientists" from Saint-Petersburg Committee of Higher Education and Culture

**2000:** Grant for the "Young Scientists" from St. Petersburg Committee of Higher Education and Culture

- N. Malchevsky scholarship from the Saint-Petersburg Society of Naturalists

- Title "G. Soros Student" and the scholarship from G. Soros Foundation

**1999:** Grant for the "Young Scientists" from St. Petersburg Committee of Higher Education and Culture

## **Publications (listed chronologically).**

### **Peer-reviewed papers:**

1. Kudryavtsev A. A., 1999. Description of *Cochliopodium larifeili* n. sp. (Lobosea, Himatismenida), an amoeba with peculiar scale structure, and notes on the diagnosis of the genus *Cochliopodium* (Hertwig and Lesser, 1874) Bark, 1973. *Protistology*, 1, 66-71.
2. Kudryavtsev A. A., 1999. The first isolation of *Cochliopodium gulosum* Schaeffer, 1926 (Lobosea, Himatismenida) since its initial description. I. Light-microscopical investigation. *Protistology*, 1, 72-75.
3. Kudryavtsev A. A., 2000. The first isolation of *Cochliopodium gulosum* Schaeffer, 1926 (Lobosea, Himatismenida) since its initial description. II. Electron-microscopical study and redescription. *Protistology*, 1, 110-112.
4. Kudryavtsev A. A., 2000. Fauna of Himatismenida Page, 1987 (Rhizopoda, Lobosea) in Keret' Archipelago (Kandalaksha Bay, The White Sea) with notes on taxonomy of the order. *Vestnik SPbGU (Proc. of the Saint-Petersburg State University)*, 2 (11), 76-77. (In Russian, with English summary)
5. Kudryavtsev A. A., 2001. Freshwater himatismenids (Rhizopoda, Lobosea) from the bottom sediments of the lake at Srednii Island (Chupa Inlet, Kandalaksha Bay, the White Sea). *Vestnik SPbGU (Proc. of the Saint-Petersburg State University)*, 4 (27), 10-11. (In Russian, with English summary)
6. Kudryavtseva A. V., Kudryavtsev A. A., 2001. Salinity tolerance of several species of lobose amoebae (Rhizopoda, Lobosea). *Vestnik SPbGU (Proc. of the Saint-Petersburg State University)*, 4 (27), 6-9. (In Russian, with English summary)
7. Kudryavtsev A. A., 2004. Description of *Cochliopodium spiniferum* sp. n., with notes on the species identification within the genus *Cochliopodium*. *Acta Protozool.*, 43, 345-349.
8. Kudryavtsev A., Brown S., Smirnov A., 2004. *Cochliopodium barki* n. sp. (Rhizopoda, Himatismenida) re-isolated from soil 30 years after its initial description. *Eur. J. Protistol.*, 40, 283-287.

9. Kudryavtsev A., 2005. Redescription of *Cochliopodium vestitum* (Archer, 1871), a freshwater spine-bearing *Cochliopodium*. Acta Protozool., 44, 123-128.
10. Kudryavtsev A., Bernhard D., Schlegel M., Chao E. E.-Y., Cavalier-Smith T., 2005. 18S ribosomal RNA gene sequences of *Cochliopodium* (Himatismenida) and the phylogeny of Amoebozoa. Protist, 156, 215-224.
11. Smirnov A.V., Kudryavtsev A.A., 2005. Pellitidae n. fam. (Lobosea, Gymnamoebia) – a new family, accommodating two amoebae with an unusual cell coat and an original mode of locomotion, *Pellita catalonica* n.g., n.sp. and *Pellita digitata* comb. nov. Eur. J. Protistol., 41, 257-268.
12. Kudryavtsev A., Smirnov A., 2006. *Cochliopodium gallicum* n. sp. (Himatismenida), an amoeba bearing unique scales from cyanobacterial mats in the Camargue (France). Eur. J. Protistol., 42, 3-7.
13. Kudryavtsev A., 2006. "Minute" species of *Cochliopodium* (Himatismenida): description of three new fresh- and brackish-water species with a new diagnosis for *Cochliopodium minus* Page, 1976. Eur. J. Protistol., 42, 77-89.
14. Kudryavtsev A., Hausmann K., 2007. *Spumochlamys iliensis* n. g. n. sp. (Testacealobosia, Microchlamyidae) from Central Asia, with notes on the diversity of *Microchlamys*-like testate amoebae. Eur. J. Protistol., 43, 185-191.
15. Kudryavtsev A., Wylezich C., Schlegel M., Walochnik J., Michel R., 2009. Ultrastructure, SSU rRNA gene sequences and phylogenetic relationships of *Flamella* Schaeffer, 1926 (Amoebozoa), with description of three new species. Protist, 160, 21-40.
16. Kudryavtsev A., Pawlowski J., Hausmann K., 2009. Description and phylogenetic relationships of *Spumochlamys perforata* n. sp. and *Spumochlamys bryora* n. sp. (Amoebozoa, Arcellinida). J. Euk. Microbiol., 56, 495-503.
17. Kudryavtsev A., Hausmann K., 2009. *Thecamoeba aesculea* n. sp. (Amoebozoa, Thecamoebidae), a terrestrial amoeba with affinities to *Th. sphaeronucleolus* (Greeff, 1891). Acta Protozool., 48, 91-96.
18. Burki F., Kudryavtsev A., Matz M.V., Aglyamova G.V., Bulman S., Fiers M., Keeling P.J., Pawlowski J., 2010. Evolution of Rhizaria: new insights from phylogenomic analysis of uncultivated protists. BMC Evolutionary Biology, 10, 377.
19. Kudryavtsev A., Wylezich C., Pawlowski J., 2011. *Ovalopodium desertum* n. g. n. sp. and the phylogenetic relationships of Cochliopodiidae (Amoebozoa). Protist, 162, 571-589.
20. Kudryavtsev A., Pawlowski J., Hausmann K., 2011. Description of *Paramoeba atlantica* n. sp. (Amoebozoa, Dactylopodida) – a marine amoeba from the Eastern Atlantic, with emendation of the dactylopodid families. Acta Protozool., 50, 239-253.
21. Kudryavtsev A., 2012. Microscopic evidence for inclusion of *Parvamoeba* Rogerson, 1993 into the order Himatismenida (Amoebozoa). Europ. J. Protistol., 48, 85-88.
22. Pawlowski J., Audic S., Adl S., Bass D., Belbahri L., Berney C., Bowser S. S., Cepicka I., Decelle J., Dunthorn M., Fiore-Donno A. M., Gile G. H., Holzmann M., Jahn R., Jirku M., Keeling P. J., Kostka M., Kudryavtsev A., Lara E., Lukes J., Mann D. G., Mitchell E. A. D., Nitsche F., Romeralo M., Saunders G. W., Simpson A. G. B., Smirnov A. V., Spouge J. L., Stern R. F., Stoeck T., Zimmermann J., Schindel D., de Vargas C., 2012. CBOL Protist Working Group: barcoding eukaryotic richness beyond the animal, plant, and fungal kingdoms. PLoS Biology, 10, e1001419.



23. Kudryavtsev A., Pawlowski J., 2013. *Squamamoeba japonica* n. g. n. sp. (Amoebozoa): A Deep-sea Amoeba from the Sea of Japan with a Novel Cell Coat Structure. *Protist*, 164, 13-23.
24. Sadritdinova A.F., Snezhkina A.V., Dmitriev A.A., Krasnov G.S., Astakhova L.N., Kudryavtsev A.A., Mel'nikova N.V., Speranskaya A.S., Darii M.V., Lakunina V.A., Uroshlev L.A., Smurov A.O., Stepanov O.A., Kudryavtseva A.V., 2013. A new reference gene, Ef1A, for quantitative real-time PCR assay of the starfish *Asterias rubens* pyloric caeca. *Doklady Biol. Sci.*, 451, 277-279.
25. Kudryavtsev A., 2014. *Paravannella minima* n. g. n. sp. (Discosea, Vannellidae) and distinction of the genera in the vannellid amoebae. *Eur. J. Protistol.*, 50, DOI: <http://dx.doi.org/10.1016/j.ejop.2013.12.004>
26. Kudryavtsev A., 2014. Scale structure of *Cochliopodium actinophorum* (Auerbach, 1856) (Amoebozoa, Cochliopodiidae) and a new diagnosis of this species. *Acta Protozool.*, 53, in press.
27. Kudryavtsev A., Brown M.W., Tice A., Spiegel F.W., Pawlowski J., Anderson O.R., 2014. A revision of the order Pellitida Smirnov et al., 2011 (Amoebozoa, Discosea) based on ultrastructural and molecular evidence, with description of *Endostelium crystalliferum* n. sp. *Protist*, 165, 208-229. DOI: <http://dx.doi.org/10.1016/j.protis.2014.02.003>
28. Geisen S., Weinert J., Kudryavtsev A., Glotova A., Bonkowski M., Smirnov A., 2014. Two new species of the genus *Stenamoeba* (Discosea, Longamoebia): Cytoplasmic MTOC is present in one more amoebae lineage. *Eur. J. Protistol.*, 50, 153-165. DOI: <http://dx.doi.org/10.1016/j.ejop.2014.01.007>

#### **Popular papers:**

1. Kudryavtsev A., Hausmann K., 2009. Axopodien – starre Schwebereinrichtungen oder flexible Zellfortsätze? *Mikrokosmos*, 98, 321-327.
2. Hausmann K., Kudryavtsev A., 2010. Plankton aus dem Oberflächenwasser des Süd-West-Atlantiks. Teil 1: Algen und Foraminiferen. *Mikrokosmos*, 99, 47-51.
3. Hausmann K., Kudryavtsev A., 2010. Plankton aus dem Oberflächenwasser des Süd-West-Atlantiks. Teil 2: Radiolarien. *Mikrokosmos*, 99, 92-99.

#### **Conference abstracts and proceedings (listed chronologically):**

1. Kudryavtsev A., 2000. Diversity of Himatismenida (Rhizopoda, Lobosea) in freshwater and marine habitats of the North-Western Russia. Proc. N.V. Timofeev-Ressovsky memorial conference "Biosphere and Mankind", Ekaterinburg, Russia, p. 134-137.
2. Kudryavtsev A., 2001. On the species composition of *Cochliopodium* (Lobosea, Himatismenida) - a diverse, but "missing" group of amoebae. Proc. IX International Congress of Protozoology, Salzburg, Austria, p.87.
3. Kudryavtsev A., 2002. Is it reasonable to include *Cochliopodium* and *Gocevia* (Rhizopoda, Lobosea, Himatismenida) in one order? Proc. XXI Annual Meeting of the German Society for Protozoology, Konstanz, Germany.
4. Kudryavtsev A., 2006. Morphological diversity of the genus *Cochliopodium* (Himatismenida): how to put it in order? Proc. XXV Annual Meeting of the German Society for Protozoology, Liebenwalde (Berlin), Germany, p. 39.

5. Kudryavtsev A., Hausmann K., 2006. Locomotion and F-actin distribution in *Cochliopodium* sp. (Amoebozoa, Himatizmenida). Proc. XXV Annual Meeting of the German Society for Protozoology, Liebenwalde (Berlin), Germany, p. 40.
6. Kudryavtsev A., 2006. Morphology and ultrastructure of a new species of *Microchlamys* (Testacealobosia, Microchlamyidae) from Central Asia. Proc. International Symposium on Testate Amoebae, Antwerp, Belgium, p. 48.
7. Kudryavtsev A., 2007. A higher species diversity in the family Microchlamyidae Ogden, 1985 (Amoebozoa, Testacealobosia): two new species of the genus *Spumochlamys* Kudryavtsev and Hausmann, 2007. Abstracts of the V European Congress of Protistology and XI European Conference on Ciliate Biology. Protistology, 5, 45-46.
8. Kudryavtsev A., Hausmann K., 2007. Locomotion and F-actin distribution in flabellinean amoebae of Cochliopodiidae, *Flamella* and *Pellita* (Amoebozoa). Abstracts of the V European Congress of Protistology and XI European Conference on Ciliate Biology. Protistology, 5, p. 46.
9. Kudryavtsev A., Hausmann K., 2007. An unusual combination of light- and electron-microscopical features in "*Thecamoeba*" *verrucosa* (Ehrenberg, 1838) (Amoebozoa). Abstracts of the V European Congress of Protistology and XI European Conference on Ciliate Biology. Protistology, 5, p. 46.
10. Kudryavtsev A., Wylezich C., Schlegel M., Walochnik J., Michel R., 2008. Ultrastructure and molecular phylogeny of the genus *Flamella* Schaeffer, 1926 (Amoebozoa). Proc. XXVII Annual Meeting of the German Society for Protozoology, Rostock Warnemünde, Germany. (no page numbering)
11. Kudryavtsev A., Pawlowski J., 2008. Phylogeny of the genus *Cochliopodium* (Amoebozoa) based on ultrastructure and gene sequence data. Abstracts, "Protist 2008", 21-22.
12. Kudryavtsev A., 2009. SSU rDNA and ultrastructure of Cochliopodiidae, *Thecamoeba* and *Pellita*: implications for phylogeny of Discosean amoebae. Proc. XXVIII Annual Meeting of the German Society for Protozoology, Leipzig, Germany, p. 16.
13. Kudryavtsev A., Pawlowski J., Hausmann K., 2009. Small-subunit ribosomal DNA of *Thecamoeba verrucosa* (Ehrenberg, 1838) (Amoebozoa, Thecamoebidae) and the phylogenetic relationships of Acanthamoebidae. Abstracts 13<sup>th</sup> International Meeting on the Biology and Pathogenicity of Free-living Amoebae, Puerto de la Cruz, p. 45.
14. Kudryavtsev A., Pawlowski J., Hausmann K., 2009. Species diversity and phylogeny of the family Microchlamyidae Ogden, 1985 (Amoebozoa, Arcellinida). Abstracts, 5<sup>th</sup> International Symposium on Testate Amoebae, Montbéliard, p. 42.
15. Kudryavtsev A., Pawlowski J., Hausmann K., 2010. Diversity of Amoebozoa in deep-sea samples from the western Atlantic – A preliminary report. Science in parasitology and protozoology solves problems, Düsseldorf, p. 134.
16. Kudryavtsev A., Pawlowski J., Hausmann K., 2010. Amoebozoa in deep-sea samples from the western Atlantic revealed by the DIVA3 expedition on board RV METEOR. Abstracts, 12<sup>th</sup> International Deep-Sea Biology Symposium, Reykjavík, p.134.
17. Kudryavtsev A., Pawlowski J., 2011. Genetic structure of amoebozoan morphospecies: A case study on freshwater *Cochliopodium* spp. Abstracts, VI European Congress of Protistology, Berlin, p. 81.

18. Kudryavtsev A., Pawlowski J., Hausmann K., 2011. Expanding our knowledge of Amoebozoa: Atlantic and Pacific deep-sea amoebae from two expeditions: Phylogenetic and taxonomic implications. Abstracts, VI European Congress of Protistology, Berlin, p. 80-81.
19. Kudryavtsev A., Pawlowski J., 2011. Genetic diversity of the morphospecies in Amoebozoa analysed using several molecular markers. Abstracts, Comparative Genomics of Eukaryotes, Sant Feliu de Guixols.
20. Kudryavtsev A., Smirnov A., Pawlowski J., 2011. Cytochrome oxidase subunit 1 (COI) as potential DNA barcode for lobose amoebae: application in the study of biogeography and genetic structure of amoebae morphospecies. Abstracts, 4th International Barcode of Life Conference, Adelaide.
21. Kudryavtsev A., Pawlowski J., 2012. Phylogenetic relationships of the Himatistenida and taxonomy of Amoebozoa. Abstracts, 31<sup>st</sup> Annual Meeting of the German Society for Protozoology, Shaker Verlag, Aachen, p. 82.
22. Kudryavtsev A., Pawlowski J., 2012. Himatistenida Page, 1987 (Amoebozoa) is a proper taxonomic home for *Parvamoeba* Rogerson, 1993: morphological and molecular evidence. Abstracts, Protist 2012: 19th International Symposium on Evolutionary Protistology and 62nd meeting of International Society of Protistologists, Oslo, p. 61.
23. Kudryavtsev A., Smirnov A., Pawlowski J., 2012. Phylogeny and DNA barcoding of the Himatistenida based on three genes. Abstracts, Protist 2012: 19th International Symposium on Evolutionary Protistology and 62nd meeting of International Society of Protistologists, Oslo, p. 45.
24. Kudryavtsev A., 2013. Diversity of protozoa (with emphasis on Amoebozoa) from deep-sea sediment samples collected by two expeditions to Atlantic Ocean and the Sea of Japan". Abstracts, 48<sup>th</sup> European Marine Biology Symposium, Galway, p. 116.
25. Kudryavtsev A., Glotova A., Smirnov A., 2013. The smaller, the earlier? The most early-branching species are the smallest ones in Himatistenida and Vannellida (Amoebozoa, Lobosa). Abstracts, 14<sup>th</sup> International Congress of Protistology, Vancouver, p. 83-84.

### **Laboratory skills.**

1. Collection, isolation and culturing of various protozoa from natural samples. Maintenance of the culture collection.
2. Conventional light microscopy, video and immunofluorescence microscopy. Basics of confocal laser scanning microscopy.
3. Transmission and scanning electron microscopy; microphotography and digital processing of the images.
4. DNA and RNA purification using various protocols, PCR amplification, cloning and sequencing of DNA fragments. DNA/RNA analysis using blot hybridization. Sequence alignment and phylogenetic analysis, operation of phylogeny reconstruction software.

### **Language skills.**

1. Russian (mother language).
2. German and English: fluent.

3. French: reading.