

Mazei Yuri

Date of birth: 26 April 1977

Place of birth: Baku, Azerbaijan

Work address

Lomonosov Moscow State University
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Academic qualifications:

2012 – Professor at the Department of Zoology and Ecology

2008 – D. Sc. in Biology: Ecology and Hydrobiology (Organization of protozoan communities), Lomonosov Moscow State University

2007 – Associate professor at the Department of Zoology and Ecology

2002 – Ph. D. in Biology: Hydrobiology (Community structure of microbenthos in the zone of mixing of sea and river waters), Lomonosov Moscow State University

1999 – Diploma of higher education (M. Sc.) in Biology, Penza State Pedagogical University, Russia (Fauna, morphology and ecology of testate amoebae in Middle Volga Region)

Appointment:

Academic

2015 – Current position – Professor, Department of Hydrobiology, Lomonosov Moscow State University

2008 – Current position – Professor, Department of Zoology and Ecology, Penza State University, Penza, Russia

2002 – 2008 Associate Professor, Department of Zoology and Ecology, Penza State Pedagogical University, Penza, Russia Administrative

06.2015 – Current position – Deputy Vice-president – head of the Office of International Educational Cooperation, Lomonosov Moscow State University

Administrative

2015 – Current position – Vice-rector for international academic affairs, Lomonosov Moscow State University, Moscow, Russia

2012 – 2015 – Vice-rector for international affairs, Penza State University, Penza, Russia

2011 – 2012 – Vice-president for academic affairs, Penza State Pedagogical University, Penza, Russia

2008 – 2011 – Chair of the Research office, Penza State Pedagogical University, Penza, Russia

Research interests:

Structure and functional organization of biological communities at different spatial scales;

Palaeoecology;

Ecology and systematics of free-living testate amoebae, ciliates, heterotrophic flagellates;

Ecology of marine benthos, freshwater zooplankton, soil animals.

VISITING SCIENTIST ACTIVITY:

07.2014 – 08.2014: Natural History Museum, London, UK (topic: Morphology and systematics of the testate amoebae genus *Diffugia*: critical analysis of testate amoebae collections in the Natural History Museum)

09.2012: Visiting Scientist at the University of Padua, Italy, supported by the grant of the Università degli studi di Padova (New approaches in the teaching of zoology in universities: comparing Italian and Russian traditions and new findings)

04.2012: Visiting Scientist at the Annamalai University, Tamil-Nadu, India, supported by the international grant of the Russian Foundation for basic Research (Biodiversity of benthic faunal assemblages along the salinity gradients: patterns in arctic (the White Sea) and tropical (the Bay of Bengal) estuaries)

11.2011: Visiting Scientist at the University of Neuchâtel, Switzerland, supported by the Scientific & Technological Cooperation Programme Switzerland – Russia (Protist diversity and palaeoecological reconstruction of the Petchora Biosphere reserve)

09.2011: Visiting Scientist at the Annamalai University, Tamil-Nadu, India, supported by the international grant of the Russian Foundation for basic Research (Biodiversity of benthic faunal assemblages along the salinity gradients: patterns in arctic (the White Sea) and tropical (the Bay of Bengal) estuaries)

08.2010: Visiting Scientist at the Institute of Zoology of National Academy of Sciences of Ukraine, Kiev, supported by the international grant of the Russian Foundation for basic Research (Species diversity and protist community structure: role of scale, size and ecological characteristics of organisms)

04.2010: Visiting Scientist at the Institute of Hydrobiology of Chinese Academy of Sciences, Wuhan city, supported by the international grant of the Russian Foundation for basic Research

(Biodiversity patterns of protozoa in large rivers: testate amoebae and heterotrophic flagellates from the rivers of Yangtze and Volga)

02.2010: Visiting Scientist at the Natural History Museum, London, UK, supported by the grant of the Royal Society (Morphology and systematics of the testate amoebae genus *Diffugia*: critical analysis of testate amoebae collections in the Natural History Museum)

10.2009: Visiting Scientist at the University of Padua, Italy, supported by the grant of the Università degli studi di Padova (Studies on biodiversity and community structure of Protozoa (Flagellates, Testate Amoebae and Ciliates) in the karst caves and bog environments of Veneto region (North-Eastern Italy) and Middle Volga Region (South- Western Russia): comparative investigations in the same biotopes from different geographical areas)

09.2009 – 10.2009: Visiting Scientist at the University of Neuchâtel, Switzerland, supported by the Scientific & Technological Cooperation Programme Switzerland-Russia (Biogeography and biodiversity of free-living microorganisms: a study of testate amoebae (Protozoa) as model organisms)

10.2008 – 11.2008: Visiting Scientist at the University of Padua, Italy, supported by the grant of the Università degli studi di Padova (Biodiversity of testate amoebae in Sphagnum bogs)

04.2008 – 05.2008: Visiting Scientist at the Ocean University of China, Qingdao city, supported by the grant of the Natural Science Foundation of China (Biodiversity and systematics of benthic marine ciliated protozoa)

ACADEMIC AWARDS

2011: Honorary Certificate from the Ministry of Education and Science of Russian Federation

2008: Award from the Russian Academy of Sciences

2002: Award from the Governor of Penza Region

SUPERVISION OF Ph.D. STUDENTS

2015 – Babeshko K.V., Ph.D. in biology “Ecological preferences of sphagnobiont testate amoebas and application thereof for reconstruction of bog’s hydrological regime in Holocene”

2013 – Trulova A.S., Ph.D. thesis “Seasonal changes of testate amoebae community structure”.

2012 – Kireev A.V., Ph.D. thesis “Ecological and morphological characteristics of populations and species composition of testate amoebae and heterotrophic flagellates in water bodies of Middle Volga Region”.

2011 – Blinokhvatova Yu.V., Ph.D. thesis “Microspatial structure of soil-dwelling testate amoebae communities”.

2011 – Malysheva E.A., Ph.D. thesis “Testate amoebae communities structure in the contact zones of different biotopes”.

2011 – Marfina O.V., Ph.D. thesis “Testate amoebae communities structure in Baikal Region”.

2011 – Esaulov A.S., Ph.D. thesis “Morphology, systematics and ecology of abundant and poorly studied ciliates of the Class Karyorelictea from the White Sea and the Yellow Sea”.

2010 – Belyakova O.I., Ph.D. thesis “Community structure of testate amoebae and heterotrophic flagellates in epiphytic and epilytic mosses and lichens”.

2010 – Chernyshov V.A., Ph.D. thesis “Ecological and geographical patterns of soil-dwelling testate amoebae communities in Western Siberia”.

2009 – Embulaeva E.A., Ph.D. thesis “Soil-dwelling protozoan communities in the forest-steppe of Middle Volga Region”.

2007 – Bubnova O.A., Ph.D. thesis “Sphagnobiont testate amoebae communities structure at different spatial scales”.

2007 – Tsyganov D.V., Ph.D. thesis “Morphological variability, species composition and community structure of sphagnobiont testate amoebae communities”.

2006 – Tikhonenkov D.V., Ph.D. thesis “Free-living heterotrophic flagellates community structure”.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Protozoological Society affiliated with Russian Academy of Sciences

Hydrobiological Society affiliated with Russian Academy of Sciences

Society of Soil Zoologists affiliated with Russian Academy of Sciences

International Society for Testate Amoebae Research

MEMBERSHIP IN EDITORIAL BOARDS OF JOURNALS:

2016 – present: Deputy-Editor, RUSSIAN JOURNAL OF ECOSYSTEM ECOLOGY

2016 – present: editorial board member, NATURE CONSERVATION RESEARCH

2015 – present: editorial board member, EUROPEAN JOURNAL OF ECOLOGY

2014 – present: editorial board member, ARID ECOSYSTEMS

2013 – present: editorial board member, UNIVERSITY PROCEEDINGS. VOLGA REION. NATURAL SCIENCES

2011 – present: Deputy-Editor, PROTISTOLOGY, An International Journal

2008 – **2012**: Deputy-Editor, PROCEEDINGS OF THE BELINSKY PENZA STATE PEDAGOGICAL UNIVERSITY

INVITED AND PLENARY REPORTS AT CONFERENCES

- 2016**, Sao-Paolo (Brazil). VIII International Symposium on Testate Amoebae. Plenary lecture: Seasonal dynamics of testate amoeba communities
- 2014**, Padua (Italy). XXX National Congress of the Italian Society of Protistology. Invited lecture: Macroscale distribution of protists: case study of testate amoebae in Western Siberia.
- 2014**, Poznan (Poland). VII International Symposium on Testate Amoebae. Plenary lecture: Private life of *Sphagnum* samples: can we keep testate amoebae in a refrigerator?
- 2013**, Vancouver (Canada). XVI International Congress of Protistology. Invited lecture: Biodiversity patterns at different spatial scales: A case study with *Sphagnum*- and soil-dwelling testate amoebae in taiga
- 2012**, Xiamen (China). VI International Symposium on Testate Amoebae. Plenary lecture: Testate amoebae in boundaries: how do transitions between local communities look like?
- 2012**, Rome (Italy). XXIX National Congress of the Italian Society of Protistology. Invited lecture: Testate amoebae communities in soils: from point to global scale.
- 2009**, Montbéliard (France). V International Symposium on Testate Amoebae. Plenary lecture: Testate amoebae and landscapes: do tiny organisms reflect macro-environmental patterns? A case from forest-steppe region (Russia).
- 2007**, Dehli (India). International Symposium on Ciliate Biology. Plenary lecture: Changes of psammophilous ciliate community structure during 16-th year period in the White Sea estuary
- 2006**, Antwerp (Belgium). IV International Symposium on Testate Amoebae. Plenary lecture: Community structure of testate amoebae in Russian *Sphagnum* bogs at different scales.
- 2004**, Sopot (Poland). International Conference “The role of biodiversity in simple, physically driven ecosystems with special focus on sandy sediments”. Invited lecture: Psammophilous ciliate community structure in the estuary: species composition patterns and mechanisms of formation.

SELECTED PUBLICATIONS:

- Mazei Yu., Belyakova O., Coppellotti O., Payne R. Testate amoeba communities of epilithic mosses and lichens: new data from Russia, Switzerland and Italy // *Acta Protozoologica*. 2016. Vol. 55. P. 51-57.
- Payne R.J., Malysheva E., Tsyganov A., Pampura T., Novenko E., Volkova E., Babeshko K., Mazei Yu. A multi-proxy record of Holocene environmental change, peatland development and carbon accumulation from Staroselsky Moch peatland, Russia // *The Holocene*. 2016. Vol. 26. P. 314-326.
- Varotsos C.A., Mazei Yu., Burkovsky I., Efstathiou M.N., Tzanis Ch.G. Climate scaling behavior in the dynamics of the marine interstitial ciliate community // *Theoretical and Applied Climatology*. 2016. Vol. 125. P. 439-447.
- Payne R., Greevy A., Malysheva E., Ratcliffe J., Andersen R., Tsyganov A., Rowson J., Marcisz K., Zielinska M., Lamentowicz M., Lapshina E., Mazei Yu. Tree encroachment may lead to functionally-significant changes in peatland testate amoeba communities // *Soil Biology and Biochemistry*. 2016. Vol. 98. P. 18-21.
- Novenko E., Tsyganov A., Volkova E., Kupriyanov D., Mironenko I., Babeshko K., Utkina A., Popov V., Mazei Yu. Mid- and Late Holocene vegetation dynamics and fire history in the boreal forest of European Russia: A case study from Meshchera Lowlands // *Palaeogeography, Palaeoclimatology, Palaeoecology*. 2016. Vol. 459. P. 570-584.

- Payne R., Babeshko K., van Bellen S., Blackford J., Booth R., Charman D., Ellershaw M., Gilbert D., Hughes P., Jasey V., Lamentowicz Ł., Lamentowicz M., Malysheva E., Mauquoy D., Mazei Yu., Mitchell E.A.D., Swindles G., Tsyganov A., Turner T.E., Telford R. Significance testing testate amoeba water table reconstructions // *Quaternary Science Reviews*. 2016. Vol. 138. P. 131-135.
- Azovsky A., Tikhonenkov D., Mazei Yu. Global diversity and distribution of the smallest eukaryotes: biogeography of marine benthic heterotrophic flagellates // *Protist*. 2016. Vol. 167. P. 411-424.
- Novenko E., Tsyganov A., Volkova E., Babeshko K., Payne R., Mazei Yu. Mid- and late-Holocene vegetation history, climate and human impact in the western Mid-Russian Upland: new data and a regional synthesis // *Biodiversity and Conservation*. 2016. Vol. 25. P. 2453-2472.
- Amesbury M.J., Swindles G.T., Bobrov A., Charman D.J., Holden J., Lamentowicz M., Mallon G., Mazei Yu., Mitchell E.A.D., Payne R.J., Roland Th.P., Turner T.E., Warner B. Development of a new pan-European testate amoeba transfer function for reconstructing peatland palaeohydrology // *Quaternary Science Reviews*. 2016. Vol. 152. P. 132-151.
- Tsyganov A., Mityaeva O., Mazei Yu., Payne R. Testate amoeba transfer function performance along localised hydrological gradients // *European Journal of Protistology*. 2016. Vol. 55. Part B. P. 141-151.
- Tsyganov A., Komarov A., Mitchell E.A.D., Shimano S., Smirnova O.V., Aleynikov A.A., Mazei Yu.A. Additive partitioning of testate amoeba species diversity across habitat hierarchy within the pristine southern taiga landscape (Pechora-Ilych Biosphere Reserve, Russia) // *European Journal of Protistology*. 2015. Vol. 51. P. 42–54.
- Mazei Yu., Warren A. A survey of the testate amoeba genus *Diffflugia* Leclerc, 1815 based on specimens in the E. Penard and C.G. Ogden collections of the Natural History Museum, London. Part 3: Species with shells that are spherical or ovoid // *Protistology*. 2015. Vol. 9. № 1. P. 3–49.
- Novenko E., Tsyganov A., Volkova E., Babeshko K., Lavrentiev N., Payne R., Mazei Yu. The Holocene palaeoenvironmental history of central European Russia reconstructed from pollen, plant macrofossil and testate amoeba analyses of the Klukva peatland, Tula region // *Quaternary Research*. 2015. Vol. 83. P. 459–468.
- Payne R., Belyakova O., Mazei Yu. Community structure and environmental controls on forest epiphyte testate amoeba communities from European Russia // *European Journal of Protistology*. 2015. Vol. 51. P. 450-459.
- Mazei Yu., Chernyshov V., Tsyganov A., Payne R. Testing the effect of refrigerated storage on testate amoeba samples // *Microbial Ecology*. 2015. Vol. 70. P. 861-864.
- Mitchell E.A.D., Lamentowicz M., Payne R.J., Mazei Yu. Effect of taxonomic resolution on ecological and palaeoecological inference – a test using testate amoeba water table depth transfer functions // *Quaternary Science Reviews*. 2014. Vol. 91. P. 62–69.
- Shimano S., Bobrov A., Mazei Yu. Testate Amoebae of the Imperial Palace, Tokyo // *Memoirs of the National Museum of Nature and Science, Tokyo*. 2014. Vol. 50. № 3. P. 21–28.
- Mazei Yu., Warren A. A survey of the testate amoeba genus *Diffflugia* Leclerc, 1815 based on specimens in the E. Penard and C.G. Ogden collections of the Natural History Museum, London. Part 2: Species with shells that are pyriform or elongate // *Protistology*. 2014. Vol. 8. № 4. P. 133–171.
- Azovsky A.I., Mazei Yu.A. Do microbes have macroecology? Large-scale patterns in diversity and distribution of marine benthic ciliates // *Global Ecology and Biogeography*. 2013. Vol. 22. № 2. P. 163–172.
- Azovsky A., Saburova M., Tikhonenkov D., Khazanova K., Esaulov A., Mazei Yu. Composition, diversity and distribution of microbenthos across the intertidal zones of the

- Ryazhkov Island (the White Sea) // *European Journal of Protistology*. 2013. Vol. 49. № 4. P. 500–515.
- Bobrov A., Mazei Yu., Chernyshov V., Gong Y., Feng W. Testate amoebae communities from some freshwater and soil habitats in China (Hubei and Shandong provinces) // *Frontiers of Earth Sciences*. 2012. Vol. 6. №1. P. 1–9.
 - Mazei Yu., Belyakova O., Trulova A., Guidolin L., Coppelotti O. Testate amoebae communities from caves of some territories in European Russia and North-Eastern Italy // *Protistology*. 2012. Vol. 7. №1. P. 42–50.
 - Payne R., Lamentowicz M., Knaap P. van der, Leeuwen J. van, Mitchell E.A.D., Mazei Yu. Testate amoebae as non-pollen palynomorphs // *Review of Palaeobotany and Palynology*. 2012. Vol. 173. P. 68–79.
 - Fournier B., Malysheva E., Mazei Yu., Moretti M., Mitchell E.A.D. Toward the use of testate amoebae functional traits as indicator of floodplain restoration success // *European Journal of Soil Biology*. 2012. Vol. 49. P. 85–91.
 - Bobrov A., Shimano S., Mazei Yu. Two New Species of Testate Amoebae from the Mountain Forests soil of Japan and Redescription of the Genus *Deharvengia* // *Acta Protozoologica*. 2012. Vol. 51. № 1. P. 55–63.
 - Tikhonenkov D., Mylnikov A., Gong Y., Feng W., Mazei Yu. Heterotrophic Flagellates from Freshwater and Soil Habitats in Subtropical China (Wuhan Area, Hubei Province) // *Acta Protozoologica*. 2012. Vol. 51. № 1. P. 65–79.
 - Tsyganov A., Embulaeva E., Mazei Yu. Distribution of soil testate amoeba assemblages along catenas in the northern taiga zone (Karelia, Russia) // *Protistology*. 2012. Vol. 7. № 2. P. 71–78.
 - Mazei Yu., Warren A. A survey of the testate amoeba genus *Diffugia* Leclerc, 1815 based on specimens in the E. Penard and C.G. Ogden collections of the Natural History Museum, London. Part 1: Species with shells that are pointed aborally and/or have aboral protuberances // *Protistology*. 2012. Vol. 7. № 3. P. 121-171.
 - Heger T, Booth R., Sullivan M., Wilkinson D., Warner B., Asada T., Mazei Yu., Meisterfeld R., Mitchell E.A.D. The re-discovery of *Nebela ansata*: a forgotten microbe illustrates the knowledge gap between microbial and visible biodiversity // *Journal of Biogeography*. 2011. Vol. 38. P. 1897–1906.
 - Xu Y., Esaulov A., Lin X., Mazei Yu., Hu X., Al-Rasheid K.A.S, Warren A. Morphological Studies on Five Trachelocercids from the Yellow Sea coast of China, with a Description of *Tracheloraphis huangi* spec. nov. (Ciliophora, Karyorelictea) // *Acta Protozoologica*. 2011. Vol. 50. P. 205–218.
 - Burkovsky I.V., Mazei Yu.A. Long-term dynamics of marine interstitial ciliate community // *Protistology*. 2010. Vol. 6. № 3. P. 147–172.
 - Tikhonenkov D.V., Mazei Yu.A., Embulaeva E.A. Effect of ecosystem type on the soil heterotrophic flagellate communities in the forest-steppe conditions // *Protistology*. 2010. Vol. 6. № 3. P. 188–203.
 - Bobrov A.A., Mazei Yu.A., Tiunov A.V. Testate amoebae of a monsoon tropical forest of South Vietnam // *Acta Protozoologica*. 2010. Vol. 49. №4. P. 311–325.
 - Mazei Yu., Gao Sh., Warren A., Li L., Li J., Song W., Esaulov A. Reinvestigation of the marine ciliate *Trachelocerca ditis* (Wright, 1982) Foissner and Dragesco, 1996 (Ciliophora, Karyorelictea) from the Yellow Sea and an assessment of its phylogenetic position inferred from the small subunit rRNA gene sequence // *Acta Protozoologica*. 2009. Vol. 48. №3. P. 213–221.
 - Mazei Yu.A. Biodiversity patterns in protozoan communities: linking processes and scales // *Protistology*. 2008. Vol. 5. №4. P. 268–280.

- Mazei Yu. A., Tsyganov A.N. Species composition, spatial distribution and seasonal dynamics of testate amoebae community in sphagnum bog (Middle Volga region, Russia) // Protistology. 2007. Vol. 5. № 2/3. P. 156–206.
- Mazei Yu.A., Burkovsky I.V. Patterns of psammophilous ciliate community structure along salinity gradient in the White Sea estuary // Protistology. 2006. Vol.4. №3. P.251–268.
- Tikhonenkov D.V., Mazei Yu.A., Mylnikov A.P. Species diversity of heterotrophic flagellates in White Sea littoral sites // European Journal of Protistology. 2006. Vol.42. №3. P.191–200.
- Tikhonenkov D.V., Mazei Yu.A. Heterotrophic flagellates from freshwater biotopes of Matveev and Dolgij (Long) Islands (the Pechora Sea) // Protistology. 2006. Vol.4. №4. P.327-337.
- Tsyganov A.N., Mazei Yu.A. Morphology and biometry of *Arcella intermedia* (Deflandre, 1928) nov. comb. from Russia and review of hemispheric species of the genus *Arcella* (Testacealobosea: Arcellinida) // Protistology. 2006. Vol.4. №4. P. 361–369.
- Azovsky A.I., Mazei Yu.A. Distribution and community structure of benthic ciliates in the northeastern part of the Black Sea // Protistology. 2005. Vol.4. №2. P.83-90.
- Mazei Yu.A., Burkovsky I.V. Species composition of benthic ciliate community in the Chernaya river estuary (Kandalaksha gulf, White sea) with a checklist of total White Sea benthic ciliate fauna // Protistology. 2005. Vol.4. №2. P.107-120.
- Bobrov A.A., Mazei Yu.A. Morphological variability of testate amoebae (Rhizopoda: Testacealobosea, Testaceafilosea) in natural populations // Acta Protozoologica. 2004. Vol.43. P.133-146.
- Azovsky A.I., Mazei Yu.A. A conspectus of the Black Sea fauna of benthic ciliates // Protistology. 2003. Vol.3. Iss.2. P. 72-91.
- Mazei Yu.A., Burkovsky I.V. Vertical structure of the interstitial ciliate community in the Chernaya river estuary (the White Sea) // Protistology. 2003. Vol.3. Iss.2. P. 107-120.