

Nickolai Shadrin

Ph.D. in Hydrobiology

Senior Research Scientist

Institute of Biology of the Southern seas

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Education & Experience

Graduated Leningrad (St.-Petersburg) State University, Biological-Soil Faculty, 1974.

PhD thesis: Influence of temperature and feeding condition on dynamics of planktonic copepod populations, 1982, Institute of Biology of the Southern seas, Sevastopol.

1983-1985 - research scientist, Biological Institute of Buryat Branch of Academy Sci. of USSR (Ecological & Parasitological Dep.), Ulan-Ude.

1985 – now - senior res. scientist, Institute of Biology of the Southern seas (1985 – 2007 –Marine ecosystem functioning Dep., since 2007 – Dep. of Marine animal physiology and general biochemistry), Sevastopol.

January –December 2014 also senior visiting scientist in Research & Development Center of Saline Lake and Epithermal Deposits, CAGS, Beijing, China

I was a leader or co-leader of several international projects. Was a leader of many expeditions, also take part in the expeditions in Inner Mongolia and Lake Yuncheng (China).

Area of research interests: general, saline lake and semi-aquatic ecology, geoecology, life in extreme environment, biofilms, stromatolites, ecosystem functioning, alien species, food webs, integrated sustainable environmental management, aquaculture, eco-physiology and ethology of hydrobionts, long-term changes, evolution, and etc.

Member of Journal's Editorial Boards: Marine Ecological J. (Russia), J. of Biosafety (China), J. of Biosafety & Health Education (USA).

Five Representative Publications on saline lakes

Anufriieva E.V., Shadrin N.V. 2014. The swimming behavior of *Artemia* (Anostraca): new experimental and observational data. *Zoology*, 117: 415-421

Anufriieva E., Holynska, M., Shadrin N. Current invasions of Asian cyclopoid species (Copepoda, Cyclopoidae) in Crimea, with taxonomical and zoogeographical remarks on the hypersaline and freshwater fauna // *Annales Zoologici*, 2014, vol. 64(1):109-130.

Shadrin N.V., Anufriieva E.V. Climate Change Impact on the Marine Lakes and their Crustaceans: The Case of Marine Hypersaline Lake Bakalskoye (Ukraine) // *Turkish Journal of Fisheries and Aquatic Sciences*, 2013, V. 13: 603-611.

Gerasimenko L.M., Zhegallo E.A., Mikhodyuk O.S., Orleansky V.K., Ushatinskaya G.T., Shadrin N.V., Shkolnik E.L. The halophilic algae-bacterial mats and MN-stromatolites of Kerch peninsula // *The Firth Intern. Conf. "Environmental Micropaleontology, Microbiology and Meiobenthology" EMMM'2008* (Dep. of Appl. Geology, Univ. of Madras, India, Febr. 17-25, 2008). - Chennai (India), 2008. - P. 93-97.

Mukhanov V.S., Naidanova O.G., Shadrin N.V., Kemp R.B. The spring energy budget of the algal mat community in a Crimean hypersaline lake determined by microcalorimetry // *Aquatic Ecology*. - 2004. - Vol. 38. - P. 375-385.

Candidate's Statement

I am involved in salt lake research already for more than 15 years. I participated in the 9th International Conference of Salt Lake Research 2002 (Russia) and was one of the organizers of the 12th conference of ISSLR in China.

Research of inland saline waters has a growing human dimension. Our Society should promote to develop understanding of this by public and decision-makers. We need more communicate with different sectors. One other main task is to develop a theoretical conceptual view on saline lake ecosystems and their role in landscape connectivity, second – to develop an idea that saline lakes are not only valuable salts, but also they have diverse valuable biological recourses, and third – we need to go to an implementation of integrated sustainable multipurpose use of saline lakes and their watersheds.

As a member-at-Large of the Society I plan to give my main attention to several goals.

- First, to involve more members from different scientific area, who interested in every issues of saline lake researches and use.
- Second, to develop some programs to teach and train young scientists and students.
- Third, to promote organization of topic workshops to develop joint projects.