Assoc. Prof. Galina Radeva, PhD

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My research interests are linked to apply genomics-lead approaches to investigating the diversity, distribution and functioning of microbial communities in extreme habitats. The studies are focused on phylogeny, taxonomy and to monitoring shifts in microbial community structure in environmental setting such as soil and water polluted with heavy metals, marine sediments contaminated by waste waters, high altitude lakes and hot thermal springs.

Mihaela Alexova –biologist at the Department and PhD student in Faculty of Biology, Sofia University. The PhD thesis is the microbial assessment of resistance and resilience of soils treated by pesticides, under the shared supervision of Assoc. prof. A. Kenarova and Assoc. prof. G. Radeva.

Projects:

- Assessment of biological responses to uranium mining at Senocos: A model for biomonitoring of uranium mining impacted areas. DO02-131 DVU/2008-2012. Project coordinator: Assoc. Prof. Valentin Bogoev. Coordinator for IMB- Assoc. Prof. G. Radeva
- Construction of 16S rDNA clone libraries and ARDRA (Amplified Ribosomal DNA Restriction Analysis) of 16S rRNA gene sequences of microorganisms inhabiting Bulgarian thermal springs. National research programme GENOMICS G-1-02/2005-2009. Coordinator for IMB: G. Radeva
- Assessment of stable bioindicators in areas with increased radioactivity by microbial analysis, 14Б/1411/2004-2008. Project coordinator: G. Radeva

Selected publications:

Radeva G., Kenarova A., Bachvarova V., Flemming K., Popov I., Vassilev D., Selenska-Pobell S. 2014. Phylogenetic diversity of Archaea and the archaeal ammonia monooxygenase gene in uranium mining-impacted locations in Bulgaria. Archaea vol. 2014, Article ID 196140.

Kenarova A., Radeva G., Traykov I., Boteva S. 2014. Community Level Physiological Profiles of Bacterial Communities Inhabiting Uranium Mining Impacted Sites. Ecotoxicology and Environmental Safety, online 7 December 2013, 100, 226-232.

Radeva G., Kenarova A., Bachvarova V., Flemming K., Popov I., Vassilev D., Selenska-Pobell S. 2013. Bacterial Diversity at Abandoned Uranium Mining and Milling Sites in Bulgaria as Revealed by 16S rRNA Genetic Diversity Study Water, Air, & Soil Pollution, published online 22 October 2013, vol. 224, (11), p. 1748.

Boteva S, Kenarova A., Radeva G., Traykov I, Bogoev V. 2013.Community dynamics of pelagic bacteria in the high mountain lake Bubreka-Rila mountain, Bulgaria Compt rend Acad. Bulg. Sci, vol. 66 (11), 1579-1586.

Ivanova I., Atanassov I., Lyutskanova D., Stoilova-Disheva M., Tomova, A. Derekova I., Radeva G., Buchvarova V., Kambourova M. 2011.High Archaea diversity in Varvara hot spring, Bulgaria. Journal of Basic Microbiology, 51, (2) p.163-172.

Radeva, G. and Selenska-Pobell, S. 2005. Bacterial diversity in water samples from uranium wastes as demonstrated by 16S rDNA and ribosomal intergenic spacer amplification retrievals Can. J Microbiol. 51(11): 910-923

Nedelkova, M., Radeva, G., and S. Selenska-Pobell. 2005 Molecularbacterial diversity in water at the deep-well monitoring site atTomsk-7, p. 521-536. In: C.- F. Tsang and J. Apps ed. Undergroundinjection science and Technology, Amsterdam, The Netherlands Elsevier B.V.