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| Name SURNAME: Ioan ARDELEAN | |  |
| Function: | WP 3 leader | |
| Institution: | Institute of Biology Bucharest, Romanian Academy | |
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| Phone: | +40 0728 129 144 | |
| Division | Department of Microbiology | |
| Areas of Expertise: | | |
| <p>The interplay between photosynthesis and respiration in cyanobacteria , during photoautotrophic and mixotrophic growth , the use of photosynthetic microorganisms (cyanobacteria and microalgae) in waste water treatment either alone (N and P removal from outlet water) or together with activated sludge (organic substances removal from inlet water), bioremediation (petroleum) and bioenergy (H₂ and biodiesel), (gold) nanoparticle synthesis by (cyano)bacteria.</p> | | |
| Short Description of your Institution: | | |
| <p>Institute of Biology Bucharest, Romanian Academy (www.ibiol.ro) founded more than 50 years ago has now three departments : Microbiology, Plant and animal citobiology, and Ecology, taxonomy and conservation. The Institute of Biology Bucharest of the Romanian Academy is a research institution with strong background and history in research areas, a lot of very well know scientists both domestic and abroad working in the institute. The research directions currently developed in the institute are oriented towards study of biodiversity of Romania (plants, animals, microorganisms) and relations with biotic and abiotic factors; the study of microorganisms (archaea, bacteria, fungi) from extremely and hostile environments; bioremediation; study of <i>in vitro</i> development processes in plants; the preservation of endemic, rare and endangered plants; comparative structural and functional studies on the proliferation processes and cellular reactivity to the animal cells; the study of structures and biological processes at molecular and cellular level; the study of various cellular components with applicative potential in environmental technologies, in bio- and nanotechnologies. The results obtained within the institute were published in national and international journals, books, book chapters and presented at national and international conferences and scientific meetings. Their impact was significant, taking into account the large number of citations in other scientific articles from scientific journals in the main flow of scientific information, as well as the awards received, both in Romania and abroad. During more of the 55 years of activity, the Institute of Biology has developed a series of scientific collaboration with prestigious national and international institutions, participating in European projects, bilateral agreements or agreements for cooperation in the framework of inter-academic exchange programs.</p> | | |
| Role in the project: | | |
| <p>Utilization of microbiota resulted from municipal wastewater treatment plants and from fish farm biofilters as starting material for isolation of improved microbiota populations in order to be used in recirculating aquaculture systems ; select autotrophic microorganisms (cyanobacteria and microalgae) for the wastewater discharged by recirculating aquaculture systems treatment; Synthesis of consortia of microorganisms which are able to work efficiently in RAS at laboratory level and, lateron, <i>in situ</i>.</p> | | |

Date,
22nd March 2017



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| Name/Surname | Isam ARDELEAN |
| Date | 22 nd March 2017 |
| Signature |  |