

Program	Program NUCLEU PN 09-13 02 08
Project title (ENG):	Eco toxicity assessment of hazardous substances on sediment / soil microorganisms using microbiotest methods
Project title (RO):	Evaluarea ecotoxicitatii substantelor periculoase asupra organismelor din sedimente / sol utilizand metode tip microbiotest
Duration	2011-2014
Team Leader	Stefania Gheorghe
Summary (short description) ENG	The project aimed to develop modern bioassays – microbiotests using invertebrates to measure the possible toxic effects arising from contaminated samples (effluents of industrial / domestic wastewater, discharging in the aquatic emissaries’, sediment and soil) on the aquatic / terrestrial systems and provide complementary information, based on which it can be assess the environmental risk.
Summary (short description) RO	In cadrul proiectului au fost dezvoltate bioteste moderne - microbioteste cu organisme nevertebrate - care sa permita masurarea posibilelor efecte toxice generate de probe reale de mediu contaminate natural (efluenti de apa uzata industriala / menajera, cu deversare in emisari acvatici, sedimente si sol) asupra sistemul acvatic / terestru si sa furnizeze informatii complementare, pe baza carora se poate evalua riscul de mediu.
Dissemination of results	
Full-paper ISI	Catalina Stoica, Stefania Gheorghe, Irina Lucaciu, Elena Stanescu, Iuliana Paun, Daniela Niculescu, <i>The impact of chemical compounds on benthic invertebrates from the Danube and Danube Delta systems</i> , Soil and Sediment Contamination: An International Journal 23(7): 763-778; Taylor & Francis Group, 2014, ISSN: 1532-0383 print / 1549-7887 online
Full-paper BDI	Gheorghe Stefania, Irina Lucaciu, Rozalia Grumaz, <i>Microbiotests versus conventional toxicity tests</i> , STEF92 Technology Ltd., Sofia, Bulgaria, 2010, ISBN 10: 954-91818-1-2; ISBN 13: 978-954-91818-1-4;
Conferences (platform, poster, abstract / full-paper)	Marinela Petrescu, Simona Calinescu, Bogdan Stanescu, Elena Birsan, Irina Lucaciu, Stefania Gheorghe, <i>Risk assessment induced by non-complying landfills of municipal waste to environmental water component</i> , Estfalia, Bucuresti, 2011, ISSN 1843-5831, International Symposium – SIMI 16-18 noiembrie, 2011, The Environment and Industry, PREZENTARE ORALA
	Stefania Gheorghe, Gabriela Vasile, Vasile Iancu, Irina Lucaciu, <i>Phytotoxicity of industrial contaminated soils</i> , INCDPP, Bucuresti, 2013, ISSN 2248 – 129, Sesiunea anuala de comunicari stiintifice “Protectia Plantelor – 80 ani de cercetare pentru agricultura romaneasca” 25 aprilie 2013, Bucuresti, Romania, POSTER
	Stefania Gheorghe, Catalina Stoica, Irina Lucaciu, Elena Stanescu, Daniela Niculescu, <i>Toxic effects of water and sediments collected from Danube Delta based on microbiotests battery response</i> , Iulia Hatieganu, Cluj-Napoca, 2014, ISBN 978-973-693-581-7.
	Irina Lucaciu, Adriana Cuciureanu, Stefania Gheorghe, <i>Ecological risk assessment generated by industrial wastewater discharges on Olt River</i> , 16 th Romanian International Conference on Chemistry and Chemical Engineering – RICCCE XVI’ 2009, PREZENTARE ORALA
	Irina Lucaciu, Marcel Luca, Tiberiu Orban, Stefania Gheorghe, Rozalia Grumaz, <i>Microbiotests in aquatic ecotoxicology – new testing strategy to reduce the use of fish in acute aquatic toxicity testing of environmental samples</i> , International Symposium – SIMI 28-30 October, 2009, The Environment and Industry, POSTER

Conferences (platform, poster, abstract / full-paper)	Gheorghe Stefania, Catalina Stoica, Stanescu Elena, Alina Catrangiu, Paun Iuliana, Lucaciu Irina, <i>Hazard classification of Danube –Danube – Danube Delta (water and sediment) based on organisms sensitivity</i> , International Symposium – SIMI 29-30 October 2013, Bucuresti, Romania, PREZENTARE ORALA.
	Stefania Gheorghe (IVAN), Irina Lucaciu, <i>Microbiotests – a specific type of bioassays as alternative methods for conventional ecotoxicity tests</i> , WG 3 meeting COST Action 636, Xenobiotics in the Urban Water Cycle 10-11 April 2009 in Kgs Lyngby (Copenhagen)
	Gheorghe Stefania, Irina Lucaciu, Rozalia Grumaz, <i>Microbiotests versus conventional toxicity tests</i> , Conferinta Internationala SGEM 2010, 21-26.06.2010 Albena, Bulgaria, PREZENTARE ORALA