

Expertise & Experience

Tudora Catalina, 49 years old, horticultural engineer

Position within the project: researcher member

Current position held: A III-nd grade Scientific Researcher, Testing Department - DI, INMA, No. 6 Ion Ionescu de la Brad Blvd., sector 1, Bucharest, Romania, 013813

Professional experience in the field of the project: The scientific research activity carried out so far is within the fields of intelligent specialization: Agriculture, Horticulture, Environment, Bioeconomy.

Domains of competence, research services: testing on seed and plant of various bioproducts, (vegetal, microbial) with applications in various fields of agriculture (organic farming); plant and seedling testing of different physical fields (acoustic, laser, LED); tests on seed quality indices (faculty and germination energy); establishment of experimental lots and the production of quality plant material required in various experiments; valorisation of biologically active compounds from spontaneous plants and obtaining an ecological product with applicability in the field of weed control

List of the most important achievements in the field of the project:

1. *New Isoxazole Derivatives as Nitric Oxide Elicitors in Plant Tissues*, Beilstein Journal of Organic Chemistry (FI-2,697), 13, 659-664, 2017; **2.** *Highlighting the action mechanism of some new plant biostimulants*, 12th Edition of the International Symposium PRIOCHEM, Bucharest, 27-28, Octombrie 2016; **3.** *Preliminary study regarding the biological activity evaluation of two plants from the wild flora: Ambrosia spp. and Aristolochia spp.*, The International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest „Agriculture for Life, Life for Agriculture”, Bucuresti, 4-6 Iunie 2015; **4.** *Evaluation of Safflower culture (Carthamus tinctorius) as a forage alternative for Sunflower culture (Helianthus annuus) in the arid areas of southern Roumania*, Analele Universitatii din Craiova, Seria Agricultura, Montanologie, Cadastru, vol.44, no.1, 127-132, 2014; **5.** *Changes in phenolics and protein content during seed germination of Carthamus tinctorius L.*, The 14th International Symposium Prospects for the 3rd Millennium Agriculture, University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania, 2014.

List of research grants or testing technical services, as colaborator:

MIS ETC code: 146, "Biofuels-source of common sustainable development in the cross-border cooperation area", 2011-2013, Researcher-Agriculture expert; **code: 656**, "MedPlaNet-medical plant network for enhancement of the comparative advantage of Calarasi-Silistra cross-border area for sustainable development", 2010-2011, Researcher-Agriculture expert. **PN II/52-136/PLANTCAMP** "Research on the use of acoustic fields and laser radiation stimulate enviromental plant" 2008-2011, Project manager. **CEEX/MENER 1**. "Enviromental restoration of areas affected by oil exploitation in communities adiacent to urban" 2005-2008, Project manager; **2.** "Solutions and procedures for environmental remediation of soil and water contaminated by radionuclides and heavy metals fron waste dumps and renaturation uranium industry" 2005-2008, Project manager. **CEEX/BIOTECH 1**. "Unconventional biotechnology treatment plant green fields in order preserve the natural environment" 2006-2008, Project manager; **2.** "Laser-based environmentally friendly LED supraluminiscente athermic and to improve crops." 2005-2008, Project manager. **AGRAL-320** "Ecological technology for crop protection of medicinal plants" 2004-2006, Project manager.