ENVIRONMENTAL PROTECTION THROUGH CONSERVATION AND REMEDIATION

Contact details

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Site

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<tbody>
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Areas of expertise

Assessment of biodiversity in natural and anthropogenic ecosystems, the conservation or remediation of degraded lands in perspective by promoting restoration of natural habitats.

Identifying, testing and application of combinations of species including microorganisms (bacteria, cianoficee), fungi and plants able to remedy degraded soils and stimulate the installation of natural habitats.

Recovery of copper through bio-technological procedures from the low-grade ores.

Applied research on tissue culture and plants multiply "in vitro".

Team

Assoc. Prof. Dr. Marian Jelea, Assoc. Prof. Dr. Monica Marian, Assist. Prof. Dr. Stela-Gabriela Jelea

Representative projects

- "Drawing proper assessment study in order to obtain the environmental permit", contract with industry, 2016-2017
- "Monitoring action microbiota in order to use them in the soil remediation ponds", PNII, (2007-2010)
- "We can refund flowers borrowed from our children?", Environment Fund Administration, (2008-2009)
- "Conservation of biodiversity and ecological reconstruction of the lower basin of the River Tour - Adrian pond" AFM, (2007-2008)
- "Evolution of installation of iron and sulphur oxidizing bacteria in the sulphidic mine wastes and their influence in generating acid mine drainage", GRANT CNCSIS, http://194.102.64.7/GranturiFinalizate/faces/Projects/ProjectDetails.jsp (2007-2008)

Significant results

- The most representative publications of the past 5 years:
  1. Laposi, Alexandru; Ardelean, Aurel; Marian, Monica, ASPECTS OF INVASIVE PLANTS DOMINATED HABITATS USE BY MARSH WARBLER (ACROCEPHALUS PALUSTRIS) IN SOMES RIVER FLOODPLAIN CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES Volume: 13 Issue: 2 Pages: 515-521 Published: AUG 2018
  2. L MIHALESCU, Z VOŞGAN, M MARIAN, S JELEA, OM ROȘCA, F POP., Studies Regarding the Combat of the Braches Burns Produced by the Phomopsis Vaccinii at Blueberry Bushes Cultivated in Maramures County Bulletin USAMV series Agriculture 75, 2, 2018
  3. Z VOŞGAN, L MIHALESCU, S JELEA, A DUMUŢA, F POP, The Hygienic Quality of Raw Romanian Goat Milk Depending on the Milking Season Bulletin USAMV series Agriculture 75, 1, 2018
  4. Z VOŞGAN, L MIHALESCU, R VIDICAN, M MARIAN, S JELEA, O MARE, Monitoring the Vegetation Communities on the Southern Slope of the Gutai Mountains on the Basis of Ecological Indices Bulletin USAMV series Agriculture 75, 1, 2018
  5. Viorica, Cosier; Marian, Monica, The advent of genomics and its potential contribution to the development of quantitative genetics ROMANIAN BIOTECHNOLOGICAL LETTERS Volume: 22 Issue: 5 Pages: 12847-12859 Published: SEP-OCT 2017
Research & development

Evaluation of species of flora / fauna, microorganisms, fungi, from natural and anthropogenic habitats in order to protect themselves or to remedy environmental.

Identifying biological methods based on the use of complex organisms able to reduce contamination of soil / water and facilitate the restoration of ecosystems;

Identification of plant extracts allelopathic greenhouse (natural pesticides) in weed control and phytopathogenic;

In vitro multiplication of species of plants for remediation and / or cultivation;

The analysis, monitoring and diminishing of the effects produced by the polluting factors from industry;

Evolution of installation of iron and sulphur oxidizing bacteria in the sulphidic mine wastes and their influence in generating acid mine drainage;

Research studies for native vegetation installed in the acidic mine waste areas.

Recovery of copper through biotechnological procedures from the low-grade ores.

Reducing acid mine drainage (AMD) phenomena through passive methods.

Consulting

Structure and function in natural ecosystems and to restore contaminated their.

Growing plants in different conditions of land polluted and / or contaminated.

Evaluation of medical resources in the spontaneous flora, possible methods for obtaining the active principles of tissue culture.

Biological assessment of contaminated land.

Combinations of organisms with potential decontaminant.

Impact assessment polluting agents on health of population.

Epidemiological surveys in public health.

Training

Structure and function in natural ecosystems and to restore contaminated their.

Growing plants in different conditions of land polluted and / or contaminated.

Evaluation of medical resources in the spontaneous flora, possible methods for obtaining the active principles of tissue culture.

Biological assessment of contaminated land.

Occupational toxins, the relationship between chemical structure and toxic action, dose-effect relationships and dose-response relationships.

Ecological restoration of degraded mining lands acid extraction (mining waste dumps and tailings).