

Name(·): Hallvard Haanes
Title(*): PhD
Country/Countries(*): Norway
Institute name: Norwegian Radiation Protection Authority
Department/section: Dep Monitoring and Research
E-Mail: Hallvard.haanes@nrpa.no
Web address: www.nrpa.no

I AM LOOKING FOR: A PROJECT TO JOIN

BRIEF DESCRIPTION OF YOUR PARTNER SEARCH (*) (2-3 lines to be published on the website – the complete form will be available to download)

We would like to join a project assessing ecosystem effects (e.g. toxicology) in soil and potentially among plants, either through field work and / or through cosm experiments. We wish to address effects of radionuclides and synergy effects with other stressors (e.g. heavy metals etc).

Please complete the information below depending if you are looking for a partner (to join your project), or a project (you would like to join) – Max 1 page.

DESCRIPTION OF YOUR EXPERTISE /SKILLS

We constitute a team of researchers with expertise on soil ecology, earthworm biology, radioecology, radiobiology, dosimetry, biodiversity, population genetics, and plant ecology. We have measurement equipment (radioactivity), and through the partners laboratory facilities for analysis of soil chemistry and genetic analysis like barcoding.

DESCRIPTION OF YOUR PROJECT / THE PROJECT YOU WOULD LIKE TO JOIN

We wish to assess effects from ionizing radiation on ecosystem-specific processes (structural like biodiversity and functional processes), primarily in soil but also in a forest community of plants if possible. In Norway there is an anomaly with extreme levels of primordial nuclides (Thorium series) where effect studies on radioactivity look promising, for example through a gradient study, and we thus want to use this locality to do field work on soil and forest plant communities, as well as using soil from this site for soil microcosm experiments. Initially we want to look at structural issues of ecosystems (biodiversity, species richness, evenness and composition) through taxonomic identification and through barcoding. At the site a gradient will be established among sampling stations through physical characterization using gamma spectrometry on sight, high resolution gamma spectrometry of soil samples, as well as we will measure exhalation of thoron and progeny through passive integrative alpha detectors. Dosimetry will be done by our expert post doc on the field.

DESCRIPTION OF THE EXPERTISE/SKILLS YOU ARE LOOKING FOR IN YOUR PROJECT

We would like to join a larger project addressing ecosystem-specific processes, that in chronological order of prioritization possesses expertise on soil fauna taxonomy and ecology, soil barcoding (also lab facilities), soil chemical-physical properties / processes, as well as knowledge and expertise within plant communities and taxonomy.

Please send this form back to : biodiversa@fondationbiodiversite.fr