Postdoctoral Researcher

Aarhus University, Department of Agroecology, DK-4200 Slagelse, Denmark

Application Deadline: October 18th, 2020
Start date: January 1st, 2020 or as soon as possible thereafter
Website: https://international.au.dk/about/profile/vacant-positions/job/post-doc-position-in-bioactive-natural-compounds-in-plant-defence/

Qualifications

We are searching for a candidate with a genuine interest in the chemical mechanisms behind ecological interactions. The qualified candidate is specialized in mass spectrometry-based analytical chemistry and must have experience and high skills in the use of instruments such as LC-MSMS, LC-QqQ(LIT), GC-TOF, LC-QTOF. The candidate must have expertise in quantitative target analysis, untarget analysis (metabolomics), identification, and development of analytical methods. The candidate must be passionate in relation to the use of mass spectrometry for studying biological processes, and should have experience in/be eager to learn the establishment and maintenance of cultivation systems of plants and/or rearing systems of nematodes.

Description

The position is part of a newly funded Villum Experiment project "Transfer of biochemical defence between plant species". The project will investigate if plants exploit defence chemicals synthesized in neighbouring plants as a fast and inexpensive track to defence against pest organisms. We will elucidate to which extent bioactive compounds, originating from one agricultural crop species, can be taken up in another crop species. Transformation products of the absorbed compounds in the receiving crop species will be identified and their potential suppressive effects on plant parasitic nematodes will be assessed.

Application Materials

Please go to https://international.au.dk/about/profile/vacant-positions/job/post-doc-position-in-bioactive-natural-compounds-in-plant-defence/ and follow the instructions.

Further questions to:

Researcher Mette Vestergård (nematode research and project leader): Homepage au.dk/en/mvestergard@agro
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