BioRodDis: a Transdisciplinary EcoHealth project to evaluate the relationships between micromammal biodiversity and zoonoses risks in Europe

Arpin I¹, Massart C¹, Bourret V², Castel G¹, Colombo VC³, Eccard J⁴, Firozpoor J⁴, Grzybek M⁵, Henttonen H², Leirs H³, McManus A⁶, Roche B⁷, Sironen T², Sluydts V³, Stuart P⁶, Zintl A⁸, Charbonnel N¹ Nathalie.charbonnel@inrae.fr

Our **Objectives**

of rodent-borne zoonoses in forests and urban parks, from the biological and socioenvironmental points of view; Implement a multi-disciplinary approach and a close dialogue between disciplines (interdisciplinarity); Develop transdisciplinarity through the definition of a common conceptual EcoHealth framework; Two-years into the BioRodDis project, evaluate its capacity to achieve

Improve the understanding and management

transdisciplinarity.



Biodiversa-BioRodDis project (2020-2023) aims to elucidate the interlinkages between biodiversity and diseases at local and European scales. We focus on rodent-borne diseases as rodents are important reservoirs of infectious agents, with a high transmission potential for humans and domestic animals. We consider forests and urban parks as environments where rodents are abundant, human/domestic wildlife interactions do occur, and efforts are undertaken to preserve biodiversity.

State of

the Art

Findings

Definition of a common EcoHealth framework based on shared theories, concepts and approaches « What relationships between living beings favour the circulation and transmission of High scores for all aspects related to the description of the system, the division of tasks within the team and the sharing of data and methods.

Semi-quantitative evaluation of inter- & transdisciplinarity

Low scores for all criteria related to the involvement of societal actors, in all phases of the project cycle.

How does biological diversity alteration

lead to zoonotic diseases emergence?

attention, because of the concomitant

biodiversity loss as well as pathogen

However, the scientific community is struggling to understand exactly how

biodiversity affects disease emergence.

A transdisciplinary EcoHealth approach is

required to address this problem.

transmission and emergence from wildlife.

This question has received a lot of

occurrence of habitat alteration,



planned to involve. 2- It allowed for productive discussions with some local societal actors about issues that would probably not have been addressed in the case of super wicked problems.

and Transdiciplinary Research



DFG

COOReseard

Which pathogens contract humans ?



Identification & interviews of

Affilitation



DOI:10.5751/ES-10935-240236

elsinki, Finland Horen, Belgium INRAE, France

EVOLvINC: semi-quantitative evaluation of Inter

- Medical University of Gdańsk, Poland
- nster Technological University, Ire itut de recherche pour le dévelop
- ent (IRD), France
- University College Dublin, Ireland