



Interventions to control the dynamics of antimicrobial resistance from chickens through the environment (ENVIRE) (JPIAMR2021-107)

At a glance: **ENVIRE**

Project promoter: Freie Universität Berlin (FUB), Faculty of Veterinary Medicine, Germany

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Webpage: <https://www.jpiamr.eu/projects/envire/>; <https://www.envire-project.de>

Funding scheme: JPIAMR-ACTION Joint Transnational Call for Proposals 2021

Total cost: € 1,370,398

Duration: 01/05/2022 – 31/05/2025

Project partners:

French Agency for Food, Environmental and Occupational Health & Safety, Epidemiology and support to Surveillance Unit (ANSES)

Lithuanian University of Health Sciences, Department of Food Safety and Quality (LSMU)

Wrocław University of Environmental and Life Sciences, Department of Biotechnology and Food Microbiology, Poland (UPWR)

University of Sousse, Faculty of medicine Ibn Al Jazzar Sousse, Tunisia (US)

Leibniz Institute for Agricultural Engineering and Bioeconomy e.V., Department Engineering for livestock management, Germany (ATB)



Objectives:

The overall **objective of the project ENVIRE** is to contribute to the reduction of the selection and the spread of antimicrobial resistance (AMR) in broiler chickens and from chicken farms to the environment, and ultimately to humans. Different intervention studies will investigate the potential of various on-farm measures: i) Antibiotic-free chicken raising, ii) Phytotherapy as alternative for antibiotics, iii) *E. coli* vaccination, iv) Application of bacteriophages, v) Treatment or storage of manure, vi) Depollution of farm effluents to remove antibiotics and their residues.

Outcome: specific as well as general interventions will be identified that have the potential to reduce AMR in chicken and in the environment of chicken farms for Europe and Tunisia. A quantitative assessment of the impact of individual and combined interventions will contribute to mitigate the risk of human exposure to AMR from chicken origin via foodborne, occupational and environmental pathways.