


# RATION



RATION is a Horizon Europe project that aims to develop a novel Risk Assessment (RA) scheme for Low Risk Pesticides (LRP), supported by the necessary guidance, methods, and tools for its implementation.

This scheme will scrutinize current regulatory framework and consider the specific characteristics of currently available LRP (microbials, botanicals, pheromones/semiochemicals) and emerging ones (ds-RNA pesticides, new microbiome solutions).



### **New Risk Assessment scheme for microbial pesticides**

RATION will carefully review current knowledge, guidance, and regulatory documents for microbial pesticides. Particular focus will be given on ecotoxicity testing (where needed and how it is done), and the use of whole genome sequencing tools to assess pathogenicity/infectivity and the presence of antibiotic resistance traits or biosynthetic pathways for toxins.



### **New Risk Assessment scheme for plant extracts, semiochemicals and pheromones**

RATION will set the ground for a devised RA scheme for open issues or areas needing improvements in (a) plant extracts, like decision making for ecotoxicity testing and exposure assessment (lead compound or mixture), and (b) semiochemicals/pheromones, like the determination of background environmental exposure levels.



### **New Risk Assessment scheme for ds-RNA pesticides**

RATION will go beyond the current state of the art by benchmarking RA of upcoming ds-RNA pesticides. Ecotoxicity testing procedures for ds-RNA molecules will be validated for a range of relevant non-target organisms. Environmental fate and exposure modeling tools used for synthetic chemicals will be tested for applicability to ds-RNA molecules and if needed novel tools will be developed.



### **Harmonized Risk Assessment procedures for all LRP groups**

RATION will develop a harmonized but still modular risk assessment scheme for all LRPs of biological origin that will facilitate more streamlined provision for LRPs with tailored data requirements building on the risk assessment schemes derived for the different groups of LRPs.

**Grant Agreement N°101084163**

**Duration: From 01.11.2022 to 31.10.2026**

**Budget: 7€ million (100% funded by the European Commission)**

# RATIION

## OUR CONSORTIUM

21 beneficiaries (incl. 9 industrials, 11 academics, 1 regulatory body) / 1 Associated country / 13 countries represented

- **University of Thessaly (UTH) - Coordinator**
- Université Catholique de Louvain (**UCL**)
- Austrian Institute of Technology GmbH (**AIT**)
- Helmholtz Centre for Environmental Research GmbH (**UFZ**)
- BioBest (**BBEST**)
- CBC Europe sarl (**CBC**)
- Weizmann Institute of Science (**WI**)
- Julius Kühn-Institut (**JKI**)
- Hellenic Agricultural Organisation - Demeter (**HAO**)
- Genosolution (**GENO**)
- Metabolic Insights Ltd. (**MI**)
- Institute of Soil Science and Plant Cultivation (**IUNG**)
- Aeiforia Hellas Ltd. (**AFA**)
- Wageningen University (**WU**)
- ECT Oekotoxikologie GmbH (**ECT**)
- Foundation for Research and Technology - IMBB (**FORTH**)
- Syngenta Agro (**SYN**)
- Bayer Crop Science (**BAYER**)
- International Biocontrol Manufacturers Association (**IBMA**)
- INRAE (**INRAE**)
- Euroquality (**EQY**)
- CSIC - INIA (**INIA**)

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