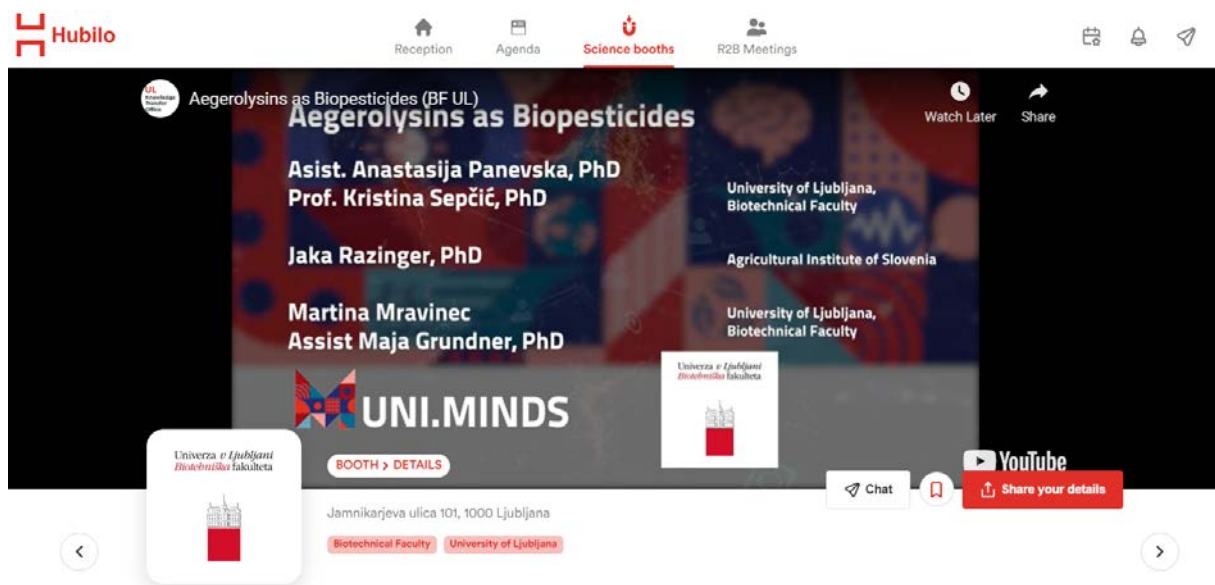
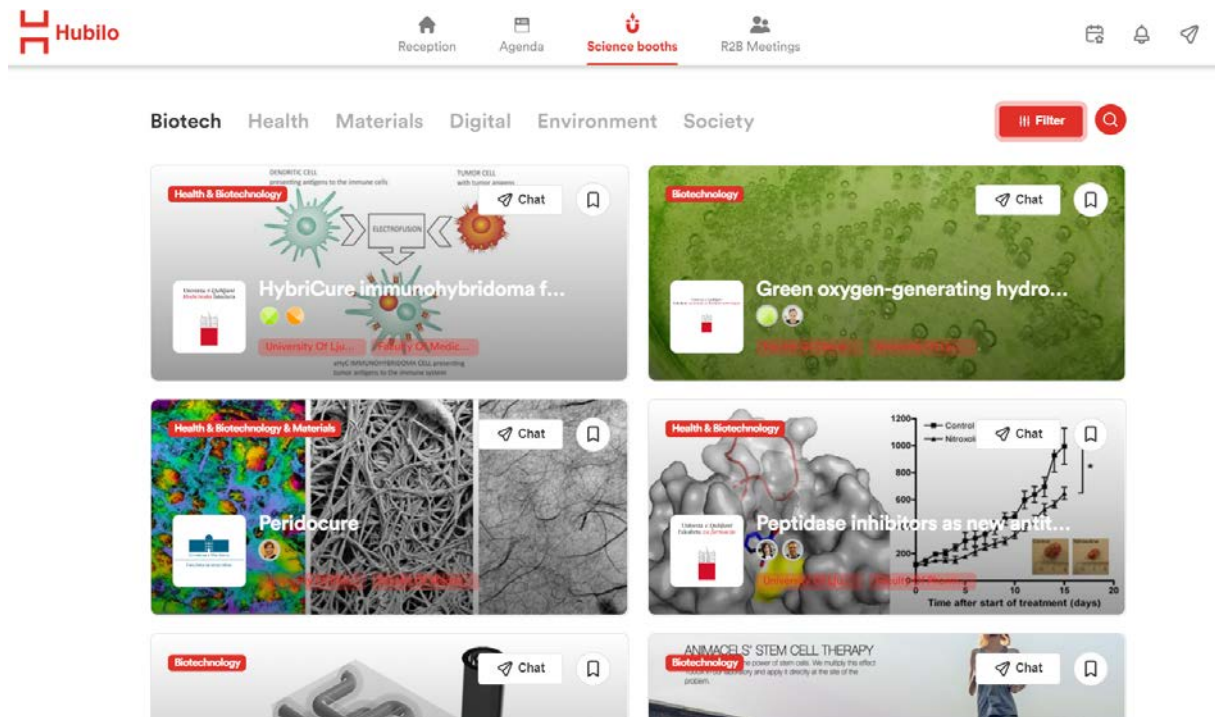


PRIMER INOVACIJE, PREDSTAVLJENE NA UNI.MINDS 2021:



Social Links

[Visit Website](#)

Get in Touch

[✉ kristina.sepic@bf.uni-lj.si](mailto:kristina.sepic@bf.uni-lj.si)

You Rated Us



Social Links



Get in Touch

[✉ kristina.sepic@bf.uni-lj.si](mailto:kristina.sepic@bf.uni-lj.si)

You Rated Us



About

Modern intensive agriculture is currently facing serious problems caused by the constant evolution of pesticide resistance, residues of chemical pesticides in food and feed, environmental concerns, human health issues and increasing population. All this has led legislation to introduce so-called "low-risk methods" and replace chemical pesticides with environmentally friendly biopesticides.

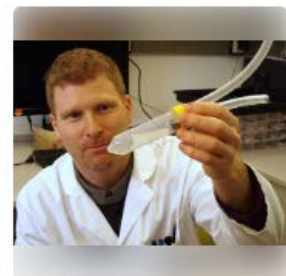
Our innovation involves mushroom-derived proteins (aegeolysin/MACPF protein complexes) as the next generation of biopesticides that can help solve these problems and can serve as an environmentally friendly tool for eradication of the world's biggest pests - Western corn rootworm and Colorado potato beetle.

Currently, these pests can be eradicated with chemical pesticides, which are harmful to the environment and non-target organisms, or with Bacillus thuringiensis Cry proteins, to which the insects develop resistance relatively quickly. The aegeolysin/MACPF protein complexes selectively kill Western corn rootworm and Colorado potato beetle larvae by targeting insect-specific membrane lipid receptor and destroying insect cells through the formation of transmembrane pores. This mode of action differs from that described for Cry toxins, which associate with protein receptors. Since they interact with the insect-specific membrane lipid receptor and not with mutation-prone pest proteins, these insects are much less likely to develop resistance to these aegeolysin-based protein complexes....[Show less](#)

Videos (1)



Product & Services (4)



People (5)



*Pri vsaki inovaciji je vključen kratek video povzetek. Vsi so kasneje tudi objavljeni na YouTube kanalu Pisarne za prenos znanja UL. Tehnologije iz UNI.MINDS 2021:

https://www.youtube.com/watch?v=JW_fJoNsK3k&list=PLgp61-reGHazVgojqQk0-FcWtLB2hAiZh&index=6&ab_channel=ULKnowledgeTransferOffice