

### **3.1 General self-assessment of the social benefit of R&D&I in the fields of research at the evaluated unit, and of the evaluated unit as a whole**

#### **Research groups with high social relevance**

Investigation of tick proteins with medicinal use

<https://www.prf.jcu.cz/en/kme/research/research-groups/laboratory-of-vector-host-interaction.html>

Investigation of the interaction between mammals and tick-borne encephalitis virus

<https://www.prf.jcu.cz/en/kme/research/research-groups/laboratory-of-molecular-immunology.html>

Investigation of cancer immunotherapy

<https://www.prf.jcu.cz/en/kme/research/research-groups/laboratory-of-cancer-immunotherapy.html>

Laboratory of Early Mammalian Developmental Biology

<https://www.prf.jcu.cz/en/kmb/research/research-groups/laboratory-of-developmental-genomics.html>

Investigation in area of immunometabolism and privileged (selfish) immunity

<https://www.prf.jcu.cz/en/kmb/selfish-immune-system.html>

Investigation in area of mammalian early embryogenesis

<https://www.prf.jcu.cz/en/kmb/research/research-groups/laboratory-of-developmental-genomics.html>

Restoration Ecology addresses the question how to repair various human-disturbed sites

<http://www.restoration-ecology.eu/>

Centre for Polar Ecology

<https://www.prf.jcu.cz/en/cpe>

Laboratory of Plasma Physics (bio-compatible surfaces, doped and enriched functional films, sensing)

<https://www.prf.jcu.cz/plasma/index.htm>

Laboratory of Optical Spectroscopy (light harvesting and photo-conversion)

<http://www.polivkalab.cz/>

Bark Beetle Timely Detection using UAV (unmanned aerial vehicle): Timed attack detection and spread prediction of Bark Beetle in the unmixed forest areas

<http://www.barkbeedet.eu/en>

Centre for Mathematical Biology

<http://mathbio.prf.jcu.cz/>

Archaeobotany and Palaeoecology

Archaeological research in North Macedonia with FSci USB participation since 2016

<http://www.vrbjanska.cip-cpr.org/en-index.html>

Current and past research projects

<https://lape.prf.jcu.cz/en/projects/>

Web-based geo-mapping and 3D reconstruction of historical objects in destroyed villages in Bavarian-Bohemian border area - preserving precious cultural goods of the past

<https://photostruk.cz/>