

## INTERNATIONAL EXCELLENCE FELLOWSHIPS

### Experience Report 2020/2021

<b>Name and title of fellow</b>	Prof. Dr. Igor V. Komarov
<b>Duration and time of research stay</b>	3 months, from 06.01.2021 till 06.04.2021
<b>Host professor and host institute at KIT</b>	Prof. Dr. Anne Ulrich, Institute of Biological Interfaces (IBG-2)

### Testimonial

<b>My research field is</b>
Organic Chemistry, Medicinal Chemistry, Structural Biology
<b>How my research field is going to affect the world of science?</b>
It will give new insights into reactivity of organic compound, structure of them, in particular, of peptides in biomembranes, and will contribute to development of photopharmacology, an emerging modality of treatment of many diseases.
<b>My main finding / highlight during my research work at KIT was</b>
Development of research tools (fluorinated and fluorescent amino acids) for structural studies of peptides; Discovery of photocontrollable peptidic antibiotics and other biologically active photoregulated peptidomimetics
<b>I have chosen the Karlsruhe Institute of Technology because</b>
My research group in Kyiv and Prof. Anne Ulrich's group in Karlsruhe have strong scientific and personal ties. They complement each other in expertise. In addition, the resources and infrastructure at KIT ideally suit to our collaborative research projects.
<b>If you want to, you can give advice to the next fellows. What should they know about Karlsruhe, KIT and the International Excellence Fellowships program?</b>
Share your ideas, even to the scientists you may think their research is far from what you are carrying out. You will discover many new multidisciplinary directions of exploration!