



The **CREA**tion of the Department of Physical Chemistry of Biological Sys**TE**ms [CREATE]

666295 — CREATE — H2020-WIDESPREAD-2014-2015/H2020-WIDESPREAD-2014-2

2nd Symposium: Physical Chemistry in Biological Systems – *towards comprehensive research on eye and vision*

The Institute of Physical Chemistry of the Polish Academy of Sciences

Agenda

17 June 2019

2:30 – 4:00 pm	Welcome lunch & coffee
4:00 – 7:00 pm	Broadening of IPC research program - Research Agenda of Translational Eye Research (workshop and panel discussion)
4:00	Part I: <i>General overview of new research agenda – prof. Maciej Wojtkowski</i> <i>Scientific excellence – new perspectives for IPC– prof. Krzysztof Palczewski</i> <i>Organizational and operational scheme of new agenda – Anna Pawlus</i>
5:00	Part II - panel discussion with experts (prof. Krzysztof Palczewski, prof. dr. Karl-W. Koch, prof. Arie-Lev Gruzman, prof. Olaf Strauss, prof. Francesca Fanelli, prof. Andrew Dick, dr. Pearse Keane) : <ul style="list-style-type: none">• A new way to increase the visibility of CREATE project• Recruitment of new PIs – influence on the future performance of research conducted at Institute of Physical Chemistry Polish Academy of Sciences• Actions to maintain the sustainability of CREATE project: research and innovation challenges for Translational Eye Research
8:00 pm	Dinner



This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 666295



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8:30 – 9:00 am Registration and coffee

9:00 – 12:30 pm CREATE 2nd Symposium: Physical Chemistry in Biological Systems – towards comprehensive research on eye and vision

9:00 Introduction – prof. Maciej Wojtkowski

Invited talks:

9:10 **Systems pharmacology links GPCRs with retinal degenerative disorders**
prof. Krzysztof Palczewski, University of California, Irvine, USA

9:40 **Biophysical approaches to understand biomolecular interactions in vision**
prof. dr. Karl-W. Koch, University of Oldenburg, Germany

10:10 **Fighting retinal degenerative diseases with RPE65-inhibitors**
prof. Arie-Lev Gruzman, Bar-Ilan University, Israel

10:40 **The retinal pigment epithelium: a partner in visual function and interface to the body system**
prof. Olaf Strauss, Charité - Universitätsmedizin Berlin, Germany

11:10 – 11:30 am Coffee break

Advancements in research on physical optics & biophotonics:

11:30 **Towards improving imaging depth and speed in full-field optical coherence tomography**
dr. Egidijus Auksorius

11:45 **Spatio-temporal Optical Coherence Imaging**
dr. Dawid Borycki

12:00 **Towards safe two-photon functional in vivo imaging of human retina,**
dr. Łukasz Kornaszewski

12:15 **Developing OCT systems for in vivo imaging of the cornea in response to a dynamic loading**
dr. Karol Karnowski

12:30 – 1:30 pm Lunch

1:30 pm Lab visit: Physical Optics and Biophotonics Group,
Department of Physical Chemistry of Biological Systems



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