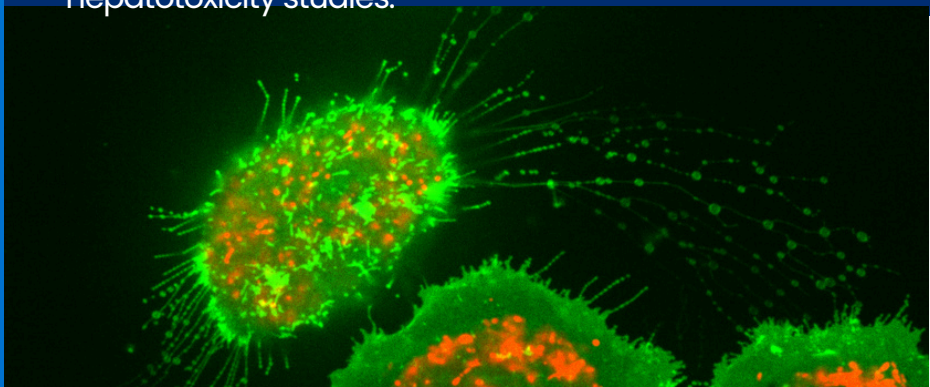




Oleg LUNOV, PhD.

Head of the Laboratory of Biophysics

Research Interests: Nanoparticle-cell and nanomaterial-cell interactions; Nanoparticle-induced hepatotoxicity; Mechanobiology; In vitro models of liver; 3D cell culturing; Mechanics of liver cancer; Biological effects of non-thermal plasma; Laser irradiation and cellular responses; Advanced physical methods in hepatotoxicity studies.



WOS Researcher ID: IYS-8921-2023

ORCID ID: 0000-0003-2922-8896

Prague, Czechia

LANGUAGE SKILLS

English

B2

Czech

B1

Russian

native speaker

Ukrainian

native speaker

EDUCATION

Postdoctoral training

2011-2013

Institute of Pharmacology, Ulm, Germany

Doctoral studies

2008-2011

Ph.D Degree with highest honour, International Graduate School in Molecular Medicine Ulm, Ulm University, Germany

Master studies

2006-2007

Master's degree with Honour in Biophysics, Donetsk National University, Department of Biophysics, Ukraine

Bachelor studies

2002-2006

Bachelor's degree with Honour in Biological Sciences. Donetsk National University, Department of Biophysics, Donetsk, Ukraine

SKILLS

- * Lab management
- * Strategic thinking
- * Collaboration
- * Physical organisation
- * Time management
- * Effective communication

PROFESSIONAL EXPERIENCE

Head of the Laboratory of Biophysics

2017-now

FZU - Institute of Physics of the Czech Academy of Sciences
Na Slovance 1999/2, 182 00 Prague 8, Czechia

Lecturer of Biophysics

2024

EUROPEAN COLLEGE, vyšší odborná škola Praha, s.r.o.,
Politických vězňů 1419/11, 110 00 Praha 1

Senior Scientist

2014-2016

FZU - Institute of Physics of the Czech Academy of Sciences
Na Slovance 1999/2, 182 00 Prague 8, Czechia

Post-doctoral Researcher

2011-2013

Institute of Pharmacology, Ulm University, Germany

PhD student

2008-2011

International Graduate School in Molecular Medicine Ulm,
Institute of Pharmacology, Ulm University, Germany

Part-time Lecturer of Biology

2007-2008

"Erudit" lyceum, Donetsk, Ukraine

RESEARCH GRANTS

Fellowship J. E. Purkyne, Academy of Sciences of the Czech Republic (**PI**, 170 k€).

2014–2019

SOLID21 (Project No. SOLID21 – CZ.02.1.01/0.0/0.0/16_019/0000760), the Czech Ministry of Education, Youth and Sports (**RP leader**, 22000 k€).

2018–2023

COST Action (Project No. CA17112), Prospective European Drug-Induced Liver Injury Network (**Early Career Research Coordinator**, 500 k€). **International: EU**

2018–2023

INTER-COST (Project No. LTC19040), Advanced physical methods in hepatotoxicity studies, the Czech Ministry of Education, Youth and Sports (**PI**, 320 k€).

2019–2022

GACR-Standard (Project No. 22-18634S), Mechanical regulation of mitochondria function and glycolysis in liver cancer cells, The Czech Science Foundation (GACR) (**PI**, 370 k€).

2022–2024

OP JAK Sensors and Detectors for Future Information Society (Project No. CZ.02.01.01/00/22_008/0004596), the Czech Ministry of Education, Youth and Sports (**Team leader**, 20000 k€).

2024–2028

INTER-ACTION (Project No. LUAUS24038), Mechanical regulation of functionalized DNA nanostructures processing by hepatic cells, the Czech Ministry of Education, Youth and Sports (**PI**, 518 k€).

2024–2028

AWARDS AND FELLOWSHIPS

Otto Wichterle Award of the Czech Academy of Sciences

2019

Purkinje Fellowship of Physics of the Czech Academy of Sciences

2014

Poster prize for the work on “Targeting the Achilles heel of the androgen receptor at the N-terminus – an experimental approach”, Die Deutsche Gesellschaft für Urologie e.V. Leipzig, Germany

2012

Graduate School’s Doctoral Student Award for the dissertation on “Modulation of immune cell signaling and function by functionalized nanosized particles”, Ulm, Germany

2012

AWARDS AND FELLOWSHIPS

American Society for Biochemistry and Molecular Biology, Graduate/Postdoctoral travel fellowship

2010

Honors for “Excellent Achievements in Sciences”, Master Thesis in Biological Sciences, Donetsk National University, Ukraine

2007

TEACHING ACTIVITIES AND SUPERVISION OF STUDENTS

Alicia Cale (PhD student), Institute of Physics and the Czech Academy of Sciences

2024–now

Petra Elblová (PhD student), Institute of Physics and the Czech Academy of Sciences

2022–now

Barbora Smolková (postdoc), Institute of Physics and the Czech Academy of Sciences

2022–2023

Mariia Uzhytchak (PhD student), Institute of Physics and the Czech Academy of Sciences; **defended on September 2024**

2017–2024

Barbora Smolková (PhD student), Institute of Physics and the Czech Academy of Sciences; **defended on May 2022**

2017–2022

Anna Lynnyk (postdoc), Institute of Physics and the Czech Academy of Sciences

2016–2018

Supervisor for Bachelor and Master level students at Medical Faculty of the Ulm University, Ulm, Germany.

2011–2013

Cornelia Loos (Master), **Johanna Beil** (Bachelor), **Michael Delacher** (Master)

COMMISSIONS OF TRUST AND SERVING SCIENTIFIC COMMUNITY

2011–now

Full Member of American Nano Society

2014–now

Editorial Advisory Panel of peer-reviewed journal Scientific Reports

2014–now

Editorial Advisory Panel of peer-reviewed journal PLoS ONE

2018

Reviewer of the grant proposal submitted by the Technische Universiteit Eindhoven to the Gravitation programme (the Dutch Government supported research by consortia of top researchers in the Netherlands, <https://www.nwo.nl/en/funding/our-funding-instruments/nwo/gravitation/gravitation.html>)

2019–2024

Member of a Steering Committee of the project No. SOLID21 – CZ.02.1.01/0.0/0.0/16_019/0000760

2019

Member of Organising Committee of the 10th International Meeting ‘Electroceramics for End Users X – PIEZO 2019’ that was held on January 27–30, 2019, in Špindlerův Mlýn in the Czech Republic (<https://indico.fzu.cz/event/2/page/6-committee>)

2021–2024

Full Member of American Chemical Society.

2021

Member of Organising Committee of the 10th International Meeting ‘Electroceramics for End Users X – PIEZO 2019’ that was held on January 27–30, 2019, in Špindlerův Mlýn in the Czech Republic (<https://indico.fzu.cz/event/2/page/6-committee>)

2021

Reviewer of the grant proposal Rosetrees Trust Interdisciplinary Prize 2021, UK (<https://researchsupport.admin.ox.ac.uk/funding/rosetrees-trust-interdisciplinary-prize-2021>)

2021–2025

member of Czech Science Foundation evaluation panel P205 Biophysics, Macromolecular Physics and Optics

2023–now

Subject Area Board of PhD program “Biophysics, chemical and macromolecular physics” Faculty of Mathematics and Physics, Charles University

2024–2025

Young Editorial Board Member of prestigious international scientific journal – Journal of Pharmaceutical Analysis

2024

Article collection guest advisor of topic “DNA Nanotechnology Direction Towards Biomedical Applications” at the International Journal of Nanomedicine

2024

Reviewer of the grant proposal submitted to the Austrian Science Fund (FWF)