



Martin Ondra, M.Sc.

Research Assistant



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Researcher at the Faculty of Medicine and Dentistry, Palacký University Olomouc, and a Ph.D. candidate in the field of molecular biology and experimental medicine. My interests revolve around the strategic research and development of novel high-throughput screening tools. My research focuses on developing new HTS methods for drug discovery to treat various chronic diseases.

WORK EXPERIENCE



Research Assistant

Palacký University Olomouc | Czech Republic | 2022 – present

- Laboratory of Experimental Medicine, Institute of Molecular and Translational Medicine, Faculty of Medicine

Teaching Assistant

Palacký University Olomouc | Czech Republic | 2018 – 2020

- Exercises in bioorganic chemistry, Faculty of Science

Researcher

Palacký University Olomouc | Czech Republic | 2017 – 2022

- Laboratory of Experimental Medicine, Institute of Molecular and Translational Medicine, Faculty of Medicine

SKILLS



- CRISPR/Cas9
- Immunochemistry
- Confocal Microscopy
- Tissue Cultures
- Fluorescence in situ hybridization
- Microbiology
- High content data analysis

EDUCATION



Name of School: Faculty of Medicine, Palacký University

Degree: PhD

Years: 2017 - present

City, State: Olomouc, Czech Republic

Name of School: Faculty of Science, Palacký University

Degree: Master

Years: 2015-2017

City, State: Olomouc, Czech Republic

CERTIFICATES & COURSES



Multiplex Protein Analysis (12/2013) Course, DataLab, Olomouc, Czech Republic

Translational Research and Medicine Development (11/2019) Course, EATRIS, Barcelona, Spain

Aurora Master Class on Public Outreach for Doctoral Candidates (06/2023) Course, Aurora, Reykjavik, Iceland

RESEARCH INTERNSHIP



Research intern, McGill University Health Centre, Montreal, Canada (01/2020 - 06/2020); Development of new screening tools for Cystic fibrosis

PUBLICATIONS AND CONFERENCES



Publications:

- **M. ONDRA**, L. LENART, A. CENTORAME, D. DUMUT, A. HE, S. ZAIDI, J. HANRAHAN, J. DE SANCTIS, D. RADZIOCH, M. HAJDUCH. **CRISPR/Cas9 bioluminescence-based assay for monitoring CFTR trafficking to the plasma membrane**. Life Science Alliance. 2023, 7(1), e202302045, ISSN: 2575-1077. **IF: 4.4**
- KVAKOVA, K., **M. ONDRA**, J. SCHIMER, M. PETŘÍK, Z. NOVÝ, H. RAABOVA, M. HAJDÚCH, P. CIGLER. **Visualization of Sentinel Lymph Nodes with Mannosylated Fluorescent Nanodiamonds**. Advanced Functional Materials. 2022, 32(23), 2109960, ISSN: 1616-301X. **IF: 19.0**
- CENTORAME, A., D. DUMUT, M. YOUSSEF, **M. ONDRA**, I. KIANICKA, J. SHAH, R. PAUN, T. OŽDIAN, J. HANRAHAN, E. GUSEV, B. PETROF, M. HAJDÚCH, R. PISLARIU, J. DE SANCTIS, D. RADZIOCH. **Treatment With LAU-7b Complements CFTR Modulator Therapy by Improving Lung Physiology and Normalizing Lipid Imbalance Associated With CF Lung Disease**. Frontiers in pharmacology. 2022, 13, 876842, ISSN: 1664-3224. **IF: 5.6**
- KUBÍČKOVÁ, A., Z. MACEČKOVÁ, P. VOJTA, **M. ONDRA**, J. VOLEJNÍKOVÁ, P. KOŘALKOVÁ, A. JUNGOVA, O. JAHODA, R. MOJZIKOVA, I. HADAČOVÁ, J. CERMAK, M. HORVÁTHOVÁ, D. POSPÍŠILOVÁ, M. HAJDÚCH. **Missense mutation in RPS7 causes Diamond-Blackfan anemia via alteration of erythrocyte metabolism, protein translation and induction of ribosomal stress**. Blood Cells, Molecules & Diseases. 2022, 97, 102690, ISSN: 1079-9796. **IF: 2.3**

Intellectual property:

- **Surface modified particles (Cígler) Patent: CZ 309422**; Granted: 28.12.2022; Ownership: Institute of Organic Chemistry and Biochemistry CAS, Palacky University Olomouc; Inventors: Hajdúch Marián, Jaworek Hana, Ondra Martin, Kubíčková Agáta
- **Surface modified particles (Cígler) Utility Model: CZ 34808**; Granted: 10.2.2021; Ownership: Institute of Organic Chemistry and Biochemistry CAS, Palacky University Olomouc; Inventors: Hajdúch Marián, Jaworek Hana, Ondra Martin, Kubíčková Agáta

Book Chapter:

- **Transformation of bacteria; Laboratory Techniques in Cellular and Molecular Medicine**, Olomouc, Palacky University, 2021, 436 s, Dedication: LO1304, ISBN: 978-80-244-6049-9.

Conferences:

- CRISPR 2019, North America Cystic Fibrosis Conference (NACFC) 2020-2023, European Cystic Fibrosis Conference (ECFC) 2022

MENTORSHIP



Lukáš Lenart

Status: Graduated from 2021 to 2023.

Theses: CRISPR/Cas9 as a tool for the development of a cystic fibrosis model for high throughput screening of compounds