

## CV Profile (max. 2 pages length)

**Name** Jolanta Zegarlinska

### Research interests

*Molecular Biology – Microbiology – Lipidomics – Proteomics*

I have always been passionate about the science and I can truly say that being a scientist is the job of my dreams. During my studies and research, I have become microbiologist and biotechnologist and gained a laboratory experience in yeast cultures and proteomics. Also, at that time I got acquainted with a new field of science, namely lipidomics and decided to focus on it during my PhD. I am very interested in cell signaling, molecular pathways, connection and dependencies of –omics in cells.

### Education

**PhD (01/10/2014 – present day) - PhD candidate in Molecular Biology**

Faculty of Biotechnology, University of Wrocław

*Project title: On the interplay between phosphatidic acid and cholesterol in membrane recruitment of proteins*

**BEng (01/10/2010 – 06/02/2014) - Biotechnology**

Faculty of Biotechnology, Wrocław University of Environmental and Life Sciences

**MSc: (01/10/2010 – 26/06/2013) - Biology, microbiology specialization**

Faculty of Biology, University of Wrocław

*Title: The role of eisosomes and sphingolipids in the regulation of plasma membrane proteins abundance*

**BSc: (01/10/2007- 08/07/2010) - Biology**

Faculty of Biology, University of Wrocław

### Sector of activity

Health & Life Sciences, Biotech, Food Industries

### Experience

**November 2014 – present day (72 months): Predoctoral researcher**

*Department of Cytobiochemistry, Faculty of Biotechnology, University of Wrocław, Poland.*

The project focuses on the nature of protein-lipid interactions and modulatory mechanisms of signalling lipids in membranes.

Written and published 3 papers (4th in progress). Participant in different national and international conferences; 1 as a speaker and 5 as an author/co-author of the poster.

Bacterial culture, BLI, cloning and mutagenesis in bacteria, colorimetric assays, confocal and fluorescence microscopy, enzymatic techniques, DNA extraction, electrophoresis (agarose and SDS-PAGE), flotation assay, Langmuir monolayer technique, liposome preparation, MST, PCR, protein chemistry and analysis, protein overexpression and purification (GST and His-tagged proteins), TLC, Western-blot analysis.

**May 2019 – August 2019 (4 months): R&D expert in LipoTech sp. z o. o.**

Work in the research project on the treatment of dry eye syndrome in the field of the medical chemistry.

Langmuir monolayer technique, TLC, lipid quantification method, data analysis.

**May 2014 – September 2014 (5 months) Biotechnologist microbiologist**

*Ludwik Hirszfeld Institute of Immunology and Experimental Therapy, Polish Academy of Science, Wrocław, Poland.*

Participation in a project focusing on drug carrier research in microbiology. The aim of the research was to design bacteriophages conjugated with an antibiotic on their surface.

Virus Titre Determination, PCR, LAL test.

**November 2011 – January 2012 (4 months) Erasmus scholarship**

*UCLouvain - Université catholique de Louvain, Belgium.*

Studying the role of plasma membrane microdomains in the regulation of proteins abundance in yeast *Saccharomyces cerevisiae*.

A quantitative gel-free proteomic approach based on iTRAQ labelling, an optimized plasma membrane purification procedure, SDS-Page electrophoresis, Western-blot, yeast culture.

**June 2011 – July 2011 (2 months) Internship**

*Diagnostic laboratory, Wrocław, Poland.*

Bacterial culture and inoculation methods, ELISA test, Gramma staining, preparation of microscopic slides, quick identification tests (STAPH TEST, FUNGI TEST, Enterotest 16, API 20)

**Workshops:**

04-10 December 2016 - "5th European Workshop on Advanced Fluorescence Methods"; Munich, Germany

14-17 May 2015 – „LEVI 2” workshop on membrane-protein interactions; Nove Hradky, Czech Republic

## Contact information

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