

# Aleksandra Sadłocha

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## EDUCATION

### 2017–2019

Master Biotechnology degree, Faculty of Biology, University of Warsaw.

Master's thesis "Estimation of the possibility of SRB-UW consortium usage in the bioremediation of hydrometallurgical wastewater" as a part of the TEAM TECH project "The development of (bio)technology for waste management and recovery of water from effluents from hydrometallurgical processes".

### 2014–2017

Bachelor Biotechnology degree, Faculty of Biology, University of Warsaw.

Bachelor's thesis "Identification of the transposable elements in the environmental bacterial strains *Acidovorax* sp. F3R and *Pseudomonas* sp. G7R".

## EXPERIENCE

### March 2020 –

National Institute of Public Health – National Institute of Hygiene (Department of Bacteriology and Biocontamination Control).

- Molecular diagnostic of SARS-CoV-2;
- Microbiological diagnostics of *Salmonella*, *Shigella*, *Escherichia coli*.

### September 2019 – March 2020

National Institute of Public Health – National Institute of Hygiene (Department of Epidemiology and Surveillance of Infectious Diseases).

- Preparing of periodic epidemiological reports and epidemiological bulletins;
- Verification and compilation of epidemiological data in databases.

### September 2017 – June 2019

Participation in a TEAM TECH project "*The development of (bio)technology for waste management and recovery of water from effluents from hydrometallurgical processes*".

### July–August 2017

Internship at National Institute of Public Health – National Institute of Hygiene.

- Microbiological diagnostics of *Salmonella*, *Campylobacter*, *Yersinia*, *Escherichia coli*, *Bordetella*, *Corynebacterium*;
- Testing susceptibility of bacteria to antibiotics;
- Genotyping and molecular marking of bacteria (MLST, MLVA, PFGE, SNP).

### July–August 2016

Internship at National Medicines Institute (Department of Cell Biology).

- Adherent and Suspension cell cultures;
- Evaluation of the activity and cytotoxicity of potential inhibitors of HIV replication by ELISA and MTT;
- Fluorescent and confocal microscopy.

**June–July 2016**

Internship at Industrial Chemistry Research Institute (Department of Proecological Modernization of Technology).

- Down-scaling of chemical processes: pyrolysis of waste hydrocarbon fractions, atmospheric distillation and vacuum pyrolysis products.

**April–May 2016**

Volunteering at Institute of Microbiology at University of Warsaw (Department of Bacterial Genetics).

- Isolation, purifying, amplification and DNA sequencing;
- Bioinformatic analysis of nucleotide sequences.

**June–August 2015**

Internship at Institute of Biochemistry and Biophysics Polish Academy of Sciences (Department of Biophysics).

- Transformation of Escherichia coli and protein overproduction;
- Immobilization of peptide with biotin on magnetic beads with streptavidin;
- Electrophoresis of proteins under denaturing conditions;
- Conducting spectrophotometric measurements and analysis of results;
- Purification of peptides using high-performance liquid chromatography.

**ACHIEVEMENTS**

- Laureate of the Scholarship of Ministry of Science and Higher Education;
- Prizewinner of “American Society for Microbiology Young Scientist Prize for One of the Best Poster Presentations 2018” during Congress of Baltic Microbiologists;
- Group Award winner of Gold Medal 2018 Japan Design, Idea & Invention Expo;
- Group Award winner of Silver Medal from International Invention and Innovation Show INTARG POLAND;
- Laureate of the scholarship of the Provost of the University of Warsaw in 2016/2017 and 2018/2019.

**ADDITIONAL QUALIFICATIONS AND SKILLS**

- English language: B2/C1;
- Driving license cat. B.

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