

# WIESŁAW ABRAMOWICZ, M.S.

Currently searching for a full-time position.

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## EDUCATION

08/2017  
|  
10/2013

### Ph.D. Studies in Pharmaceutical Sciences (unfinished)

The Centre for Innovative Research 2012-2017, Faculty of Medicine with the Division of Dentistry and Division of Medical Education in English, Faculty of Pharmacy and Division of Laboratory Medicine, Medical University of Białystok

PL

Research area: Transcriptomics profiling of cancer cell line after drugs treatment using bioinformatic open-source tools.

Advisor: Prof. dr hab. Marzanna Cechowska-Pasko, Ph.D.

09/2013  
|  
10/2007

### M.Sc. in Medical Analytics, PQF 7

Faculty of Pharmacy and Division of Laboratory Medicine, Medical University of Białystok

PL

Master's thesis: Expression of the APRIL particle in neutrofilis of patients with potentially malignant lesions of the oral mucosa.

Advisor: Prof. dr hab. Ewa Jabłońska, Ph.D.

Co-Advisor: dr Kamil Grubczak, Ph.D.

Dean's leave (10/2008 - 09/2009)

08/2007  
|  
09/2005

### Pharmaceutical Assistant, PQF 4

Vocational School No. 1 of Health Care

Białystok, PL

## EMPLOYMENT

09/2009  
|  
09/2008

### Pharmaceutical Assistant

Pharmacy "Lobelia" Barbara Winsko.

Białystok, PL

## PROFESSIONAL MEMBERSHIP

Present  
|  
20/01/2014

### The Right to Practice the Profession in Laboratory Diagnostic. No 13786

KIDL, Warsaw

## CONTACT INFO

immuno122@gmail.com

github.com/wabram

+48 798 298 280

## SKILLS

Linux R

R Studio

Git GitHub

Markdown

L<sup>A</sup>T<sub>E</sub>X

HPC (openMPI, Rmpi)

## EXPERIENCE

Biostatistics.

Machine Learning.

Genomics & Transcriptomics data analysis.

NGS, Agilent's Microarray.

RT-qPCR.

Laboratory Diagnostic.

## LANGUAGES

Polish: Native

English: Proficient



## RESEARCH EXPERIENCE

08/2017  
|  
10/2013

### ● Ph.D. Student (unfinished)

The Centre for Innovative Research 2012-2017, Medical University of Białystok

📍 PL

- Performed laboratory and computational biology research on the effects of Ixazomib and Ursolic acid in the human transcriptome of the cancer cell line. [not published]
- Performed DNA sequencing with co-operation of **Prof. Rafał Płoski** using KAPA library. [not published]



## PROJECTS

Currently  
|  
10/2013

### ● Transcriptomic profiling of a human kidney cancer cell line, Caki-2, after treatment of Ixazomib, Ursolic acid and jointly using microarray technique.

Advisor: **Prof. Marzanna Cechowska-Pasko, Ph.D.** Manuscript in preparation.

📍 Department of Pharmaceutical Biochemistry, Medical University of Białystok.

Currently  
|  
10/2014

### ● DNA sequencing of clear cell renal cell carcinoma and healthy kidney area. "Genome-wide methods in cancer genetics". BASTION.

Co-operation: Prof. Rafał Płoski, MD, Ph.D. (Department of Medical Genetics, Medical University of Warsaw). Advisor: **Prof. Marzanna Cechowska-Pasko, Ph.D.** Manuscript in preparation.

📍 Department of Pharmaceutical Biochemistry, Medical University of Białystok.



## WET LAB

### ● Laboratory Experience

Interested in Oncology, Immunology, EpiOmics.

📍 Medical University of Białystok, PL

- BIO-RAD CFX Connect Real-Time PCR;
- Agilent's microarray;
- NanoDrop 2000;
- DNA, RNA extraction from cells;
- Agilent 2100 Bioanalyzer (DNA, RNA, protein microcapillary electrophoresis, flow cytometry);
- DNA, RNA gel electrophoresis;
- Western blot;
- Northern blot;
- PMN cells isolation;
- cells counting chambers;
- setting up cell cultures;
- optical microscope;

22/  
|  
25/09/2014

### ● Courses:

A&A Biotechnology

📍 Gdańsk, PL

- "Real-Time PCR"
- "Real-Time PCR - quantitative markings"



## DATA SCIENCE COURSES

11/2018

### ● "Exploratory Data Analysis"

📍 Johns Hopkins University

- lattice.
- ggplot2.
- Clustering.
- Dimension Reduction.

- 06/2016 ● **“NGS in Regulatory Gene Research”**  
 ideas4biology.com 📍 Poznań, PL  
 Coordinator: dr Michał Szcześniak, Ph.D.  
 Techniques: ChIP-chip, ChIP-Seq, ChIP-exo, CLIP-Seq, DNase-Seq, FAIRE-Seq, GRO-Seq, HiC, MeDIP-Seq, MBD-Seq, MNase-Seq, oxBS-Seq, RIP-Seq, RRBS-Seq, TAB-Seq, TSS-Seq, WGBS-Seq.  
 Linux. WinSCP, PuTTY.  
 Softwares: POLYPHEMUS, ChromHMM, Segway, MACE, DANPOS2, MeDUSA, diffReps, BSMAP, methylKit, Trimmomatic, Subread, BamTools.  
 Databases: OMICtools, AllSeq, ChIPBase, hmChIP, mirPath, miRTarBase.
- 02/2016 ● **“Getting and Cleaning Data”** 📍 Johns Hopkins University  
 • MySQL. • dplyr.  
 • HDF5. • Regular Expressions.
- 01/2016 ● **“R programming”** 📍 Johns Hopkins University  
 • R, RStudio.
- 01/2016 ● **“The Data Scientist’s Toolbox”** 📍 Johns Hopkins University  
 • Version Control (Git, GitHub). • R Markdown.



## IN SILICO

- **Biostatistic experience**  
 Interested in Oncology, Immunology, EpiOmics.
- R packages (limma, RSubread, Gviz, biomaRt, etc.)
  - basics of MySQL;
  - basics of Python (PyScripter, PyMol, PyLasso, Autodock/Vina);
  - Agilent’s GeneSpring GX;
  - CLC Main Workbench;
  - Pathway Analysis (GO, KEGG, Reactome, WikiPathways, HumanCyc, clusterProfiler, rSEA);
  - Machine Learning (Random forest, CatBoost, LightGBM, XGBoost, H2O);
  - Neural Networks (TensorFlow, Keras, etc.);
  - Multivariate Analysis (PCA, tSNE, UMAP, SONG, NMF, Ricci flow);
  - Comparative Analysis (Venn diagram);

## STUDENT MEMBERSHIP

- 2013  
|  
2012 ● **Member of the board of the Students’ Scientific Society**  
 Co-organizer of the **8th & 7th** Białystok International Medical Congress for Young Scientists.  
 Coordinator of Belarusian participants. 📍 Medical University of Białystok, PL

06/2013  
|  
10/2009

- **Department of Immunology**  
Active participant of Student's Scientific Society.  
Advisor: Prof. Ewa Jabłońska, Ph.D.

📍 Medical University of Białystok, PL

2011  
|  
2010

- **Department of Pharmaceutical Biochemistry**  
Active participant of Student's Scientific Society.  
Advisor: dr hab. Małgorzata Borzym-Kluczyk, Ph.D.

📍 Medical University of Białystok, PL

## PUBLICATIONS AND POSTERS

2013

- **Tylirozyd, a flavonoid with cytotoxic properties. Poster presentation.**  
Nationwide Scientific Symposium "Supplements a deity under the microscope of a pharmacist".  
📍 Medical University of Białystok, PL  
Abramowicz W.

2012

- **APRIL molecule in patients with potentially malignant lesions of the oral mucosa (lichen planus).**  
7th International Medical Congress for Young Scientists, Białystok, p.185  
Abramowicz W., Wawrusiewicz-Kurylonek N., Garley M.

2010

- **Alpha-mannosidase and beta-galactosidase activity in the serum of patients with colorectal adenocarcinoma.**  
5th International Scientific Conference of Medical Students and Young Doctors, Białystok, p.132-133  
Luto M., Choromańska B., Chwiła A., Wasiluk A., Abramowicz W.

2010

- **Assessment of the activity of N-acetyl-beta-D-hexosaminidase, it's B enzyme and betaglucuronidase in the urine of patients with Lyme disease.**  
5th International Scientific Conference of Medical Students and Young Doctors, Białystok, p.127  
Choromańska B., Luto M., Abramowicz W., Chwiła A., Wasiluk A.

2010

- **The activity of N-acetyl-beta-hexosaminidase, it's N-isoenzyme and beta-glucuronidase in the blood serum of patients suffering from Lyme disease.**  
5th International Scientific Conference of Medical Students and Young Doctors, Białystok, p.128  
Chwiła A., Luto M., Choromańska B., Wasiluk A., Abramowicz W.

2010

- **Alanine and aspartic aminotransferase activity in blood serum of men after acute and chronic ethyl alcohol poisoning.**  
5th International Scientific Conference of Medical Students and Young Doctors, Białystok, p.137-138  
Wasiluk A., Abramowicz W., Luto M., Choromańska B., Chwiła A.