

WIESŁAW ABRAMOWICZ, M.S.

Currently searching for a full-time, part-time position.

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EDUCATION

08/2017
|
10/2013

Ph.D. Studies in Pharmaceutical Sciences (resign)

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: Transcriptomic profiling of cancer cell line after drugs treatment using Agilent microarray and biostatistic open-source tools.

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

All subjects pass (GPA 3,85):

- Principles of genetic analysis (6h);
- Learning techniques of molecular biology (10h);
- Introduction to genomics (6h);
- Epigenomics and transcriptomics (50h);
- Learning methods in structural and functional genomics (10h);
- Basic Statistical refreshment (30h; prof. Tomasz Burzykowski, UHasselt);
- Statistical modeling (30h; prof. Tomasz Burzykowski, UHasselt);
- Design of experiments (18h; prof. Tomasz Burzykowski, UHasselt);
- Statistics for "omics" (36h; prof. Ziv Shkedy, UHasselt);
- Metabolomics (16h);
- Facultative advanced courses in protein analysis/ proteomics/ metabolomics (50h);
- Protein analysis and proteomics (32h);
- Immunology (16h);
- Facultative advanced courses in immunology (15h);
- Teaching the presentation and evaluation of research at the academic level (30h);
- Professional practice (30h);
- OHS (4h).

09/2013
|
10/2007

M.Sc. in Medical Analitics, PQF 7

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

PL

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

- GPA: 4,30;
- isolation and work with human blood cells;
- Advisor: **Prof. dr hab. Ewa Jabłońska, Ph.D.**
- Co-Advisor: **dr Kamil Grubczak, Ph.D.**
- biochemistry and immunology research experience;
- Dean's leave (10/2008 - 09/2009)

CONTACT INFO

✉ immunol22@gmail.com

🐙 github.com/wabram

📷 [instagram.com/wa.rzem/](https://www.instagram.com/wa.rzem/)

☎ +48 798 298 280

SKILLS



Linux



Studio



Git



GitHub

Markdown, *L^AT_EX*

HPC (openMPI, Rmpi), HTML5, CSS, YAML

EXPERIENCE

Biostatistics (glm + Bayes).

QC (pos, neg, spike).

NGS, Agilent's Microarray, qPCR [wet lab, in silico] {kidney oncology}.

Laboratory Diagnostic (urology inflammations).

LANGUAGES

Polish: Native

English: Proficient (C1)

08/2007
|
09/2005

- **Pharmaceutical Assistant, PQF 4**
Vocational School No. 1 of Health Care

📍 Białystok, PL



EMPLOYMENT

12/2022
|
4/2021

- **Owner, Co-founder & CEO**
WARZEM Wood & Stone, Solid Wood Artistic Carpentry Workshop.

📍 Dąbrowa Białostocka, PL

• management, accountancy; • website design with html5, css, yml; • natural oils (no siccative, no PFAS); • furniture design (using the golden ratio); • cutting, planing, milling, sculpturing; • tools design; • chopping down trees;

09/2009
|
09/2008

- **Pharmaceutical Assistant**
Pharmacy "Lobelia" Barbara Winsko.

📍 Białystok, PL

• advising for patients in OTC medication; • issuing medicines prescribed by a physician; • accepting and placing orders; • delivering medicines to other points of sale.



PROFESSIONAL MEMBERSHIP

12/2018
|
01/2014

- **The Right to Practice the Profession in Laboratory Diagnostic. No 13786**
KIDL

📍 Warsaw



RESEARCH EXPERIENCE

08/2017
|
10/2013

- **Ph.D. Student (resign)**
The Centre for Innovative Research 2012-2017, Medical University of Białystok

📍 PL

• Performed **wet laboratory** and **computational biology** research using **linear and Bayes statistic** on the effects of **Ixazomib** and **Ursolic acid** in the human **transcriptome** (mRNA, lncRNA, lincRNA, sno/snRNA, ncRNA, miscRNA, miRNA) of the kidney cancer cell line. [in progress]

• **DNA sequencing (1000 genes)** of human cancer and normal kidney using **KAPA library**. [with co-operation of **Prof. Rafał Płoski** (Medical University of Warsaw), [in progress]



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 technology.**

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

📍 Department of Pharmaceutical Biochemistry, Medical University of Białystok.

• project manager and executive (wet lab, in silico analyses);

• budget manager;

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.

- project co-executive (wet lab, in silico analyses);



IN SILICO



Biostatistic experience

Research disciplines: **Oncology**, Immunology, **EpiOmics**, Transcriptomic, **Watson-Crick/Hoogsteen base pairing**.

- GLMMs & Bayesian;
- R, RStudio;
- R packages: limma, RSubread, Gviz, biomaRt, etc.);
- R programming (visualizations, office documentation, & more);
- pre-processing of transcriptomics data;
- Reproducible tools (git, github, gitlab) and reporting (rmarkdown, bookdown, etc.);
- Pathway Analysis (GO, KEGG, Reactome, WikiPathways, HumanCyc, clusterProfiler, rSEA);
- Multivariate Analysis (PCA, tSNE, UMAP, SONG, NMF, Ricci flow);
- Comparative Analysis (Venn diagram);
- Isobolograms;
- use of data sets (ncbi, google patents, etc.);
- use of FDA resources (CDER, CDRH, NCTR – mitochondrial toxicity, MAQC/SEQC);
- numerical validation awareness;
- basics of MySQL;
- basics of Python (PyScripter, PyMol, PyLasso, Autodock/Vina);
- Agilent's GeneSpring GX;
- CLC Main Workbench;
- more information in each description of course;
- Linux command line;



HPC experience

High-Performance and Parallel Computing

- I built cluster of two computers with openMPI and Rmpi (an interface for R & RStudio) on Ubuntu (SSH connected).



WET LAB

2017
|
2011



Laboratory Experience

Research disciplines: **Oncology**, Immunology, **EpiOmics**, Transcriptomic, **Watson-Crick/Hoogsteen base pairing**.

📍 Medical University of Białystok, PL

- BIO-RAD CFX Connect Real-Time PCR (qPCR);
- Agilent's microarray (two-color gene expression) + QC (positive, negative, spike-in controls);
- NanoDrop 2000 (spectrophotometry);
- DNA, RNA extraction from cultured cells (Qiagen, Promega, A&A Biotechnology); RNase, DNase free environment;
- Agilent 2100 Bioanalyzer (RNA microcapillary electrophoresis);
- DNA, RNA gel electrophoresis;
- Western blot;
- PMN cells isolation;
- cells counting chambers;
- setting up cell cultures;
- optical microscope;
- flow cytometry.



DATA SCIENCE & LABORATORY COURSES

- 25/01/2023 • **“Good Things Come in Small Packages: Purifying miRNA from Plasma, Serum and Exosomes”**
Michelle Mandrekar – Promega 📍 Online, PL
• Maxwell RSC miRNA
- 22/
|
25/09/2014 • **Courses:**
A&A Biotechnology 📍 Gdańsk, PL
• “Real-Time PCR” • “Real-Time PCR - quantitative markings”
- 10/2014 • **Prof. Tomasz Motyl Laboratory Experience:**
Department of Physiological Sciences, WULS (SGGW) 📍 Warsaw, PL
• Agilent’s expression microarray experiments (wet lab only).
- 11/2018 • **“Exploratory Data Analysis”**
coursera.org – online course 📍 Johns Hopkins University
• lattice. • Clustering.
• ggplot2. • Dimension Reduction.
- 06/2016 • **“NGS in Regulatory Gene Research”**
ideas4biology 📍 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”**
coursera.org – online 📍 Johns Hopkins University
• MySQL. • dplyr.
• HDF5. • Regular Expressions.
- 01/2016 • **“R programming”**
coursera.org – online 📍 Johns Hopkins University
• R, RStudio.

- 01/2016 ● **"The Data Scientist's Toolbox"**
coursera.org – online 📍 Johns Hopkins University

• Version Control (Git, GitHub). • R Markdown.
- 16/18/06/2014 ● **"Using next-generation sequencing to analyse human transcriptome"**
Richard Dixon, Ph.D. – QIAGEN 📍 Medical University of Białystok, PL
- 08/11/04/2014 ● **"Using next generation sequencing to analyse human genome"**
Richard Dixon, Ph.D. – QIAGEN 📍 Medical University of Białystok, PL
- 07/04/2014 ● **"Early diagnosis and treatment of neurodegenerative diseases"**
Department of Biochemical Diagnostics, Department of Neurology, Department of Neurodegeneration Diagnostics, Department of Pediatrics, Gastroenterology and Pediatric Allergology of Medical University of Białystok 📍 Białystok, PL

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. 📍 Medical University of Białystok, PL
Advisor: Prof. Ewa Jabłońska, Ph.D.
- 2011 | 2010 ● **Department of Pharmaceutical Biochemistry**
Active participant of Student's Scientific Society. 📍 Medical University of Białystok, PL
Advisor: dr hab. Małgorzata Borzym-Kluczyk, Ph.D.

PUBLICATIONS AND POSTERS

- 2013 ● **Tylozyd, 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.

HOBBY

Free
time
|
11/1986;)

- **Biking, baking, cooking, books (QCD, manifolds, new technologies, marine art), pencil drawing, swimming, ski, interior design, DIY (wood & stone), photography.**

📍 Everywhere it is possible