

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: Transcriptomic profiling of cancer cell line after drugs treatment using Agilent microarray and 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

- 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

01/2019
|
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



Studio



Git



GitHub



Markdown

L^AT_EX

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

2017
|
2013

● Laboratory Experience

Interested in Oncology, Immunology, EpiOmics.

📍 Medical University of Białystok, PL

- BIO-RAD CFX Connect Real-Time PCR;
- Agilent's microarray;
- NanoDrop 2000 (spectrophotometry);
- 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;
- open to new techniques.

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	<ul style="list-style-type: none"> ● “NGS in Regulatory Gene Research” <p>ideas4biology.com</p> <p>Coordinator: dr Michał Szcześniak, Ph.D.</p> <p>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.</p> <p>Linux. WinSCP, PuTTY.</p> <p>Softwares: POLYPHEMUS, ChromHMM, Segway, MACE, DANPOS2, MeDUSA, diffReps, BSMAP, methylKit, Trimmomatic, Subread, BamTools.</p> <p>Databases: OMICtools, AllSeq, ChIPBase, hmChIP, mirPath, miRTarBase.</p>	📍 Poznań, PL
02/2016	<ul style="list-style-type: none"> ● “Getting and Cleaning Data” <ul style="list-style-type: none"> • MySQL. • HDF5. • dplyr. • Regular Expressions. 	📍 Johns Hopkins University
01/2016	<ul style="list-style-type: none"> ● “R programming” <ul style="list-style-type: none"> • R, RStudio. 	📍 Johns Hopkins University
01/2016	<ul style="list-style-type: none"> ● “The Data Scientist’s Toolbox” <ul style="list-style-type: none"> • Version Control (Git, GitHub). • R Markdown. 	📍 Johns Hopkins University
16/ 18/06/2014	<ul style="list-style-type: none"> ● “Using next-generation sequencing to analyse human transcriptome” <p>Richard Dixon, Ph.D. – QIAGEN</p>	📍 Medical University of Bialystok, PL
08/ 11/04/2014	<ul style="list-style-type: none"> ● “Using next generation sequencing to analyse human genome” <p>Richard Dixon, Ph.D. – QIAGEN</p>	📍 Medical University of Bialystok, PL



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

CONFERENCES

- 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

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-Kuryłonek 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.