

Curriculum Vitae

Wojciech Rosikiewicz

Personal:

Website: **InsideMyWorld.pl**

Professional Address:

The Jackson Laboratory for Genomic Medicine,
10 Discovery Drive,
Farmington, CT 06032

Academic qualification:

Ph.D in Biological Sciences in the area of Biotechnology

Research site: Department of Integrative Genomics, Institute of Anthropology

Faculty of Biology at Adam Mickiewicz University in Poznan, Poland

Supervisor: Prof. Izabela Makalowska

Thesis title: "Identification and expression analysis of human and murine overlapping genes"

Study period: October 2012 - October 2017

Master's Degree in Biotechnology

Research site: Laboratory of Bioinformatics

Faculty of Biology at Adam Mickiewicz University in Poznan, Poland

Supervisor: Prof. Izabela Makalowska

Thesis title: "Analysis of TSS sequences of genes overlapping at 5' ends in the human and mouse genomes"

Study period: October 2010 - June 2012

Bachelor's Degree in Bioinformatics

Research site: Laboratory of Bioinformatics

Faculty of Biology at Adam Mickiewicz University in Poznan, Poland

Supervisor: Associate Prof. Izabela Makalowska

Thesis title: "Analysis of evolutionary changes in gene structure"

Study period: October 2007 - June 2010

List of publications:

Rosikiewicz W, Kabza M, Kubiak MR, Kosinski J, Makalowska I. RetogeneDB – a database of animal and plant retrocopies, Database (Oxford), 14 June 2017, [goo.gl/3rKjLC](https://doi.org/10.1093/database/bax001), IF = 3.290, 5-year IF = 3.974 2017

Rosikiewicz W, Makalowska I, Biological Functions of Natural Antisense Transcripts, Acta Biochimica Polonica, 2016;63(4):665-673. Epub 2016 Oct 21. IF=1.187, 5-year IF=1.534 2016

Szcześniak MW, Rosikiewicz W , Makałowska I. CANTATAdb: A Collection of Plant Long Non-Coding RNAs. <i>Plant and Cell Physiology</i> . 2016 Jan;57(1):e8. IF = 4.319, 5-year IF = 4.847	2016
Kabza M, Kubiak MR, Danek A, Rosikiewicz W , Deorowicz S, Polański A, Makałowska I. Inter-population Differences in Retrogene Loss and Expression in Humans. <i>Plos Genetics</i> 2015 Oct 16;11(10):e1005579. IF = 6.661; 5-year IF = 7.481	2015
Szölloši GJ, Rosikiewicz W , Boussau B, Tannier E, Daubin V., Efficient Exploration of the Space of Reconciled Gene Trees, <i>Systematic Biology</i> 62 (6): 901-912, IF = 8.225, 5-year IF = 15.274	2013
Ciomborowska J, Rosikiewicz W , Szklarczyk D, Makalowski W, Makalowska I. "Orphan" Retrogenes in the Human Genome. <i>Molecular Biology and Evolution</i> . 2012 Nov 20, 30(2):384–396,, IF = 13.649; 5-year IF = 13.002	2012
Rosikiewicz W , Suzuki Y, Makalowska I, OverGeneDB: a database of 5' end protein coding overlapping genes in human and mouse genomes, <i>Nucleic Acids Research</i> , IF = 10.162, 5-year IF = 9.338, [accepted]	(accepted)
Wanowska E, Kubiak MR, Rosikiewicz W , Makałowska I, Szcześniak MW, Natural antisense transcripts in diseases: from modes of action to targeted therapies, <i>WIREs RNA</i> , IF = 4.838, 5-year IF = 5.389, [article under review]	(in rev.)

Scholarships and awards:

Internship at the University of Tokyo, organized within the "Evolgen" Project (FP7-People-2009-IRSES Project "EVOLGEN" No. 247633). Sep 2014 – Nov 2014. Supervisor: Prof. Yutaka Suzuki Research site: Division of Biosciences, Department of Computational Biology and Medical Sciences, Kashiwa Campus, University of Tokyo, Kashiwa, <u>Japan</u>	2014
Internship at the University of Tokyo, organized within the "Evolgen" Project (FP7-People-2009-IRSES Project "EVOLGEN" No. 247633). Oct 2013 – Dec 2013. Supervisor: Prof. Yutaka Suzuki Research site: Division of Biosciences, Department of Computational Biology and Medical Sciences, Kashiwa Campus, University of Tokyo, Kashiwa, <u>Japan</u>	2013
Distinction in the 5 th edition of the contest for "The best master's degree thesis in bioinformatics", organized by PTBI	2013
"Exploration of the space of phylogenetic trees using an approximate likelihood", Lifelong Learning Programme Erasmus exchange. Feb 2011 – Jun 2011 Supervisors: Dr Vincent Daubin, Dr Gergely Janos Szöllősi and Dr Eric Tannier Research site: Bioinformatics and Evolutionary Genomics Group, UMR5558, Claude Bernard - Lyon 1 University, <u>France</u>	2011

“Evolutionary genomics of ants: study of nervous system genes”, 2010
Summer Undergraduate Research (SUR) programme at University of Lausanne and
Swiss Institute of Bioinformatics. Jul – Aug 2010
Supervisors: Prof. Laurent Keller, Prof. Marc Robinson-Rechavi, Dr Julien Roux and Dr
Yannick Wurm
Research site: Biophore, Department of Ecology and Evolution, University of Lausanne,
Switzerland

“Application of artificial neural networks to large-scale biomedical data”, 2009
Summer Programme in Undergraduate Research on Neuroscience (SPUR-ON) at
Royal College of Surgeons in Ireland (UREKA programme). Jun - Aug 2009
Supervisor: Dr. Heinrich Huber
Research site: Systems Biology Group, Department of Physiology and Medical Physics,
Royal College of Surgeons in Ireland, Dublin, **Ireland**

List of competitive external funds obtained:

Title: “Analysis of genes preferences to be expressed from overlapping transcription start
sites”

Grant No.: NCN 2013/11/N/NZ2/02524

Source of funding: National Science Centre

Amount of funding: 149992 PLN

Function: Representative researcher / Project manager

Title: “Analysis of the alternative transcription start sites usage in 5' end overlapping genes”

Grant No.: GDWB-03/2014

Source of funding: Faculty of Biology, Adam Mickiewicz University

Amount of funding: 8000 PLN

Function: Representative researcher / Project manager

List of other funded projects:

Title: “From junk to treasure - functional evolution of retrogenes”

Grant No.: NCN 2013/11/B/NZ2/02598

Source of funding: National Science Centre

Amount of funding: 697600 PLN

Function: collaborator

Title: “Compression and data mining algorithms for genomic data and their implications for
comparative genomics”

Grant No.: NCN 2011/01/B/ST6/06868

Source of funding: National Science Centre

Amount of funding: 700000 PLN

Function: collaborator

Teaching experience:

Bioinformatics of Genomes, taught for students of bioinformatics in academic year
2012/2013 and 2016/2017.

Computational Analysis of DNA, taught for students of biology and environmental protection in academic year 2014/15 and 2015/16.

Basics of NGS analysis, I was a tutor and co-organizer of this course prepared for Ideas4biology Sp. z.o.o [Ltd.] company in 2013 and 2014.

Programming in Python for Biologists, I was a tutor and co-organizer of this course prepared for Ideas4biology Sp. z.o.o [Ltd.] company in 2013 and 2014.

Bioinformatics, taught for students of biology in academic year 2012/13 and 2013/14.

List of conference abstracts from last 5 years:

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| Wojciech Rosikiewicz , Yutaka Suzuki, Izabela Makalowska, "(In)Stability of protein-coding genes' 5' end overlap", (poster), Genome Informatics 2016, September 19 th -22 nd 2016, Hinxton, Cambridge, Great Britain | 2016 |
| Wojciech Rosikiewicz , Yutaka Suzuki, Izabela Makalowska, "5' end overlapping genes in human and mouse genomes", (poster), SMBE 1015, July 12 th 2015, Vienna, Austria | 2015 |
| Wojciech Rosikiewicz , Izabela Makalowska, "Analysis of genes preferences to be expressed from overlapping transcription start sites", (oral presentation), BIT14, June 12 th 2014, Toruń, Poland | 2014 |
| Wojciech Rosikiewicz , Izabela Makalowska, "Tissue-specific gene overlap in the human and mouse genomes", (poster presentation), 10 th Poznań Summer School of Bioinformatics, August 19 th 2013 | 2013 |
| Michał Kabza, Agnieszka Danek, Sebastian Deorowicz, Michał Szcześniak, Wojciech Rosikiewicz , Izabela Makalowska, Andrzej Polański, "Population specific retrogenes in the human genome", (poster presentation), 10 th Poznań Summer School of Bioinformatics, August 19 th 2013 | 2013 |
| Wojciech Rosikiewicz , Izabela Makalowska, "Analysis of TSS sequences of genes overlapping at 5' ends in the human and mouse genomes", (poster presentation), SIB Open Days 2013, 28-29 January 2013, Biel, Switzerland | 2013 |
| Wojciech Rosikiewicz , Izabela Makalowska, "Analysis of TSS sequences of genes overlapping at 5' ends in the human and mouse genomes", (poster presentation), Bioinformatics in Toruń 2012 (BIT12), 27-29 September, Toruń, Poland | 2012 |
| Wojciech Rosikiewicz , Izabela Makalowska, "Analysis of genes overlapping at 5' ends in the human and mouse genomes", (poster presentation), Genome Informatics 2012, 6-9 September, Robinson College, Cambridge, UK | 2012 |
| Wojciech Rosikiewicz , "Analysis of genes overlapping at 5' ends and promoter regions in the human and mouse genomes", (oral presentation), EVOLGEN 2012, Ciężarówka, Poland, 27-29 June 2012 | 2012 |