

### Personal Data

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### Education

1991 - Ph.D. (molecular biology), Adam Mickiewicz University, Poznan, Poland  
1988 - M.A. (philosophy of science), Adam Mickiewicz University, Poznan, Poland  
1983 - M.S. (molecular biology), Adam Mickiewicz University, Poznan, Poland

### Positions

01/2007-                    Professor and Head, Institute for Bioinformatics, University of Muenster, Germany  
  
01/2017-04/2017        Visiting Professor, Department of Computational Biology, University of Tokyo, Japan  
  
11/2014-01/2015        Visiting Professor, Department of Computational Biology, University of Tokyo, Japan  
  
11/2012-03/2013        Visiting Professor, Department of Medical Genome Science, University of Tokyo, Japan  
  
02/2006-03/2006        Visiting Professor, Department of Bioinformatics, Medical Research Institute, Tokyo Medical and Dental University, Japan  
  
01/2002-06/2007        Adjunct Associate Professor, Department of Computer Science and Engineering, the Pennsylvania State University, University Park, PA.  
09/2001-06/2007        Associate Professor, Department of Biology, the Pennsylvania State University, University Park, PA.  
02/1999-08/2001        Staff scientist at the National Center for Biotechnology Information, National Institutes of Health, Bethesda, USA.

### PROFESSIONAL ACTIVITIES

Member of SBIR/STTR review panel in the Genetic Sciences Initial Review Group.  
European Commission Expert in the Seventh Framework and Horizon 2020 programs.  
Member of evaluation panel for the German Research Initiative “Computational Life Sciences.”  
Associated editor of *Gene* (1998-2006) and *BMC Bioinformatics*.  
Member of editorial board of *International Journal of Biological Sciences*, *Biology*, *Database*, *BioMedInformatics*, *RNA Biology* (2004-2011), and *Genome Research* (1997-2007).  
Ad hoc reviewer for *BMC Bioinformatics*, *Bioinformatics*, *Cell*, *Computational Biology and Chemistry*, *Computers and Chemistry*, *Genetics*, *Human Mutation*, *International Journal Of Medical Sciences and Health Care*, *Journal of Human Genetics*, *Journal of Molecular Biology*, *Journal of Molecular Evolution*, *Journal of Theoretical Biology*, *Journal of Virology*, *Molecular Biology and Evolution*, *Nature Genetics*, *Nature*, *Nucleic Acid Research*, *Proc. Natl. Acad. Sci. USA.*, *Science*, *Trends in Genetics* and a number of MDPI and Frontiers series journals.

Member of *International Society of Molecular Biology and Evolution* and *International Society for Computational Biology*

Co-funder and co-organizer of *Poznań Summer School of Bioinformatics* (since 2002). Co-funder and co-organizer of *PennState Summer School of Bioinformatics* (2003-2007).

**TEN SELECTED PUBLICATIONS OUT OF 172 TOTAL** (5,776 total citations, h-index = 35; according to Web of Science, retrieved on 07/13/23)

Rhie A, Nurk S, Cechova M., Hoyt SJ, Taylor DJ, Altemose N, Hook PW, Koren S, Rautiainen M, Alexandrov IA, Allen J, Asri M, Bzikadze AV, Chen NC, Chin CS, Diekhans M, Flicek P, Formenti G, Functammasan A, Garcia Giron C, Garrison E, Gershman A, Gerton J, Grady PGS, Guarracino A, Haggerty L, Halabian R, Hansen NF, Harris V, Hartley GA, Harvey WT, Haukness M, Heinz J, Hourlier T, Hubley RM, Hunt SE, Hwang S, Jain M, Kesharwani R, Lewis AP, Li H, Logsdon GA, Lucas JK, **Makalowski W**, Markovic C, Martin FJ, Mc Cartney AM, McCoy RC, McDaniel J, McNulty BM, Medvedev P, Mikheenko A, Munson KM, Murphy TD, Olsen HE, Olson ND, Paulin LF, Porubsky D, Potapova T, Ryabov F, Salzberg SL, Sauria MEG, Sedlazeck FJ, Shafin K, Shepelev VA, Shumate A, Storer JM, Surapaneni L, Taravella Oill AM, Thibaud-Nissen F, Timp W, Tomaszewicz M, Vollger MR, Walenz BP, Watwood AC, Weissensteiner MH, Wenger AM, Wilson MA, Zarate S, Zhu Y, Zook JM, Eichler EE, O'Neill R, Schatz MC, Miga KH, Makova KD, Phillippy AM. (2023) The complete sequence of a human Y chromosome. *bioRxiv* 2022.12.01.518724; doi: <https://doi.org/10.1101/2022.12.01.518724>.

Manske F, Ogoniak L, Jürgens L, Grundmann N, **Makalowski W**, Wethmar K. (2023) The new uORFdb: integrating literature, sequence, and variation data in a central hub for uORF research. *Nucleic Acids Res.* 51(D1):D328-D336. doi: 10.1093/nar/gkac899.

Hoyt SJ, Storer JM, Hartley GA, Grady PGS, Gershman A, de Lima LG, Limouse C, Halabian R, Wojenski L, Rodriguez M, Altemose N, Rhie A, Core LJ, Gerton JL, **Makalowski W**, Olson D, Rosen J, Smit AFA, Straight AF, Vollger MR, Wheeler TJ, Schatz MC, Eichler EE, Phillippy AM, Timp W, Miga KH, O'Neill RJ. (2022) From telomere to telomere: The transcriptional and epigenetic state of human repeat elements. *Science*. **376**(6588):eabk3112. doi: 10.1126/science.abk3112.

Halabian R, **Makalowski W**. (2022) A Map of 3' DNA Transduction Variants Mediated by Non-LTR Retroelements on 3202 Human Genomes. *Biology (Basel)*. 11(7):1032. doi: 10.3390/biology11071032.

Rodriguez M, **Makalowski W**. (2022) Software evaluation for de novo detection of transposons. *Mob DNA*. 13(1):14. doi: 10.1186/s13100-022-00266-2.

Shabardina V, Kischka T, Manske F, Grundmann N, Frith MC, Suzuki Y, **Makalowski W**. (2019) NanoPipe-a web server for nanopore MinION sequencing data analysis. *Gigascience*. 8(2).

Drosophila 12 Genomes Consortium (2007) Evolution of genes and genomes on the Drosophila phylogeny. *Nature* **450**: 203-218.

Nikolaidis, N, Makalowska, I, Chalkia, D, **Makalowski, W**, Klein, J, Nei, M. (2005) Origin and evolution of the chicken leukocyte receptor complex. *Proc. Natl. Acad. Sci. USA.* , 102: 4057-4062.

**Makalowski W**. (2003) Not Junk After All. *Science* **300**: 1246-1247.

**Makalowski W**. and Boguski M.S. (1998) Evolutionary parameters of the transcribed mammalian genome: an analysis of 2,820 orthologous rodent and human sequences, *Proc. Natl. Acad. Sci. USA*. **95**: 9407-9412.