Damian Panas

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EDUCATION

2015 - Bachelor of Science in Applied Mathematics
Gdańsk University of Technology
Specialization: Biomathematics
Thesis: Mathematical modeling of gene expression

2017 - Master of Science in Applied Mathematics
Gdańsk University of Technology
Specialization: Bioinformatics
Thesis: Asymptotic properties of the iterates of stochastic operators

2018 - Doctor of Philosophy in Health Sciences
Medical University of Gdańsk
Thesis: Applications of new methods of bioinformatics to a description of the genome sequences of viruses

PUBLICATIONS

D. Panas, P. Wąż, D. Bielińska-Wąż, A. Nandy, S.C Basak. 2D-Dynamic Representation of DNA /RNA Sequences as a Characterization Tool of the Zika Virus Genome, *MATCH Commun Math Comput Chem* 77:321-332, 2017.

D. Panas, P. Wąż, D. Bielińska-Wąż, A. Nandy, S.C. Basak, An Application of the 2D-Dynamic Representation of DNA/RNA Sequences to the Prediction of Infuenza A Virus Subtypes, *MATCH Commun Math Comput Chem* 80:295-310, 2018.

D. Panas, P. Waż, D. Bielińska-Wąż, New applications of the 2D-Dynamic Representation of DNA/RNA Sequences, *International Conference on Mathematical Methods and Models in Biosciences (BIOMATH),* Sofia, Bulgaria, 2018.

D. Bielińska-Wąż, **D. Panas**, P. Wąż, Dynamic Representations of Biological Sequences, *MATCH Commun Math Comput Chem* 82:205-218, 2019.

K. Banaszkiewicz, K. Sikorska, **D. Panas**, Ł. Obołończyk, K. Sworczak, Protective effect of iron against the formation of focal lesions in the thyroid gland in patients with hereditary hemochromatosis? Thyroid function and ultrasound image assessment in patients with hereditary hemochromatosis - a single center study from Poland, *Endokrynologia Polska*, Ahead of print.

AREAS OF EXPERTISE

Bioinformatics, statistics, machine learning, data mining, mathematical modelling.