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Education

- 2013 – 2019 PhD Studies in Biochemistry at Chemistry at University of Gdańsk
2011 – 2013 Master's Studies in Chemistry at University of Gdańsk (MSc with honors)
2008 – 2011 Bachelor's Studies in Chemistry at University of Gdańsk, specialty: analytics and chemical diagnosis

Experience

- 2019 – 2021 Postdoctoral researcher at University of Chicago Department of Chemistry
2014 September-October two month long Short Term Scientific Mission under prof. Rainer Bischoff at University of Groningen, Department of Pharmacy, Analytical Biochemistry Group Groningen, Netherlands, funded €2,500 by European Cooperation on Science and Technology (COST).

Selected publications

- “Electron Induced Single Strand Break in the Nucleotide of 5- and 6-Bromouridine. A DFT Study.” Golon, Ł.; Chomicz, L.; Rak, J.; *Chem. Phys. Lett.* 2014, **612**, 289-294
“Radiosensitivity of 5- and 6-Bromocytidine Derivatives – Electron Induced DNA Degradation” Chomicz, L.; Golon, Ł.; Rak, J.; *Phys. Chem. Chem. Phys.* 2014, **16**, 19424-19428
“Mechanisms of Damage to DNA Labeled with Electrophilic Nucleobases Induced by Ionizing or UV Radiation” Rak, J.; Chomicz, L.; Wiczak, J.; Westphal, K.; Zdrowowicz, M.; Wityk, P.; Żyndul, M.; Makurat, S.; Golon, Ł.; *J. Phys. Chem. B*, 2015, **119**, 8227–8238
“Consequences of Electron Attachment to Modified Nucleosides Incorporated into DNA” Chomicz-Mańka, L.; Wityk, P.; Golon, Ł.; Zdrowowicz, M.; Wiczak, J.; Westphal, K.; Żyndul, M.; Makurat, S.; Rak, J in “Handbook of Computational Chemistry” Ed.: Leszczynski, J., Springer Netherlands, 2017, 1895-1916
“Prediction of DNA and RNA Structure with the NARES-2P Force Field and Conformational Space Annealing” Sieradzan, A. K.; Golon, Ł.; Liwo, A.; *Phys. Chem. Chem. Phys.* 2018, **20**, 19656-19663
“An Analysis and Evaluation of the WeFold Collaborative for Protein Structure Prediction and its Pipelines in CASP11 and CASP12” Keasar, C. et al. *Sci. Rep.* 2018, **8**, 9939
“Evaluation of the Scale-Consistent UNRES Force Field in Template-Free Prediction of Protein Structures in the CASP13 Experiment” Lubecka, E. A. et al. *J. Mol. Graph. Model.*, 2019, **92**, 154-166
“NARall: a Novel Tool for Reconstruction of the All-Atom Structure of Nucleic Acids from Heavily Coarse-Grained Model” Golon, Ł.; Sieradzan, A. K.; *Chem. Zvesti*, 2022, **77**, 2437–2445

Selected conference posters

- Parametrization of Nucleoside – Cation Interactions for NARES-2P, Golon, Ł.; Sieradzan, A. K.; Liwo, A.; The Third Korean-Polish Conference on "Protein Folding: Theoretical and Experimental Approaches", 5-9.02.2017, High-1 Resort, South Korea
Implementation of Nucleoside-Cation Interactions in UNRES 4, Golon, Ł.; Lipska, A. G.; Sieradzan, A. K.; Liwo, A.; 4th Polish-Korean Conference on Protein Folding: Theoretical and Experimental Approaches, 9-13.09.2018, Iława, Poland

Research grants

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