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Five selected publications:

1. Klasić, Marija*; Markulin, Dora*; Vojta, Aleksandar; Samaržija, Ivana; Biruš, Ivan; Dobrinić, Paula; Ventham, Nicholas; Trbojević- Akmačić, Irena; Šimurina, Mirna; Štambuk, Jerko; Razdorov, Genadij; Kennedy, Nicholas; Satsangi, Jack; Dias, Ana; Pinho, Salome; Annese, Vito; Latiano, Anna; D'Inca, Renata; IBD Consortium; Lauc, Gordan; Zoldoš, Vlatka. Promoter methylation of the *MGAT3* and *BACH2* genes correlates with the composition of the immunoglobulin G glycome in inflammatory bowel disease. // *Clinical Epigenetics*. 10 (2018), 75.

*shared first authorship

2. Markulin, Dora*; Vojta, Aleksandar*; Samaržija, Ivana; Gamulin, Marija; Bečeheli, Ivona; Jukić, Irena; Maglov, Čedomir; Zoldoš, Vlatka; Fučić, Aleksandra. Association Between *RASSF1A* Promoter Methylation and Testicular Germ Cell Tumor: A Meta-analysis and a Cohort Study. // *Cancer Genomics & Proteomics*. 14 (2017), 14; 363-372.

*shared first authorship

3. Dobrinić, Paula; Tadić, Vanja; Bočkor, Luka; Markulin, Dora; Tremski, Mihaela; Zoldoš, Vlatka; Vojta, Aleksandar. Genome Editing Tools for Functional Analysis of *HNF1A* and *IL6ST* Genes. // *Croatica chemica acta*. 89 (2016), 2; 1-6.

4. Klasić, Marija; Krištić, Jasminka; Korać, Petra; Horvat, Tomislav; Markulin, Dora; Vojta, Aleksandar; Reiding, Karli R.; Wuhner, Manfred; Lauc, Gordan; Zoldoš, Vlatka. DNA hypomethylation upregulates expression of the *MGAT3* gene in HepG2 cells and leads to changes in *N*-glycosylation of secreted glycoproteins. // *Scientific Reports*. 6 (2016); 24363.

5. Gršković, Branka; Markulin, Dora; Zidkova, Anastasiya; Crnjac, Josip; Anđelinović, Šimun; Marijanović, Inga; Tomašević, Luka; Popović, Maja; Primorac, Dragan; Mršić, Gordan. Impact of Donor Age, Gender and Handling Time on the DNA Concentration Left on Different Surfaces. // *International journal of biomedicine*. 4 (2014), 3; 169-174.

List of publications at: <https://bib.irb.hr/lista-radova?autor=341082>

Work experience: 2017-now postdoc, 2013-2017 PhD student (Department of Biology, Faculty of Science, University of Zagreb), 2013 researcher (Genos Ltd., Zagreb), 2011-2012 researcher (RWTH University, Institute for Biomedical Engineering, Aachen, Germany)

Education: 2017 PhD in Biology, 2011 MSc in Molecular biology, 2009 BSc in Molecular biology (Department of Biology, Faculty of Science, University of Zagreb)

Research and other projects: 2019-now postdoc on HRZZ project “Nanosilver phytotoxicity: mechanisms of action and interaction in tobacco cells” (PI: B. Balen, PhD, Professor), 2017-2019 postdoc on HRZZ project “Cas3 as a key checkpoint for CRISPR-Cas immunity: elucidating its regulation via protein stability and transcriptional control in *Escherichia coli*” (PI: I. I. Baće, PhD, Associate Professor), 2014-2016 researcher on HRZZ project “Epigenetic regulation of immunoglobulin G glycosylation” (PI: V. Zoldoš, PhD, Professor), 2013-2016 PhD student on FP7 project “Diagnostic and prognostic biomarkers for inflammatory bowel disease” (PI: V. Zoldoš, PhD, Professor), 2011-2012 researcher on project “Control of physiological effects of gold nanoparticles by size and chemical modification” (PI: W. Jahnen-Dechent, PhD, Professor)

Training: 2018 Next-Generation Sequencing Data Analysis (Faculty of Mathematics and Computer Science Timisoara, Romania), 2018 Greta Pifat Mrzljak International School of Biophysics (Faculty of Science, Split, Croatia), 2014 Training in cultivation of primary B cells on a feeder cell layer (Sanquin Research, Amsterdam, Netherlands), 2014 IntegraLife Workshop on Scientific publishing and intellectual property protection in life sciences (University of Zagreb)

Teaching: 2013-2015 Practicals in Epigenetics (Graduate study programme, MSc), 2014 Practicals in Genetics (Undergraduate study programme, BSc), 2013-2018 Laboratory skill training (Undergraduate (BSc) and Graduate study programme (Msc))

Mentorship: Assistant supervisor of four graduation thesis

Organizational skills and competences: Member of an Organizing Committee of 9th ISABS Conference (2015)

Awards: ISABS 2013 Young Investigator Award