

CURRICULUM VITAE

Personal data

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Education

2015-2017 **PhD studies in Biochemistry and Molecular Biomedicine**
Institute of Molecular Bioscience, University of Graz, Austria
2010-2013 **Master studies in Biochemistry and Molecular Biomedicine**
Institute of Biochemistry, Graz University of Technology, Austria
2006-2010 **Bachelor studies in Chemistry**
Graz University of Technology, Austria

Work Experience

2018-date Associate Professor at International University Sarajevo, Sarajevo, B&H
2015-2017 PhD thesis at Institute of Molecular Biosciences Graz, University of Graz
2013-2014 ACIB GmbH-Austrian Center of Industrial Biotechnology, Graz
2011 Institute of Pathology, St. Leonhard hospital, Graz
2010-2012 Institute of Molecular Biotechnology, Graz University of Technology

Additional qualifications

Language skills Bosnian (native), English (C2), German (C2), Russian (B2), Spanish (A2), Arabian (A1)
Industry skills Quality assurance in Pharmaceutical, Biotechnology and Food Industry
Property rights and patents
Strategic management
Business administration: Corporate leadership and entrepreneurship
International diploma in project management (Level 4)

Publications

1. Elma Pašalić, Murtaza M. Tambuwala and **Altijana Hromić-Jahjefendić**: "Endometriosis: Classification, pathophysiology, and treatment options", Pathology-Research and Practice, 2023
2. Esmā Bilajac, Una Glamočlija, Amar Osmanović, Lejla Mahmutović, Abas Sezer, Sunčica Roca, Selma Špirtović-Halilović, Mirsada Salihović, **Altijana Hromić-Jahjefendić**, Elma Veljović: "Analysis of Antitumor Potential of Xanthene Compounds in Lymphoma Cells", Croatica Chemica Acta, 2023
3. **Altijana Hromić-Jahjefendić*** *et al.*: "COVID-19 Vaccines and Myocarditis: An Overview of Current Evidence", Biomedicines, 2023
4. **Altijana Hromić-Jahjefendić** *et al.*: "Can COVID-19 Vaccines Induce Premature Non-Communicable Diseases: Where Are We Heading to?", Vaccines, 2023
5. Alaa A. Aljabali, Mohammad A. Obeid, Rasha M. Bashatwah, Angel Serrano-Aroca, Vilay Mishra, Yachana Mishra, Mohamed El-Tanani, **Altijana Hromić-Jahjefendić**, Deepak N. Kapoor, Rohit Goyal, Gowhar A. Naikoo and Murtaza M. Tambuwala: "Nanomaterials and Their Impact on the Immune System", MDPI IJMS, 2023
6. Esmā Bilajac, Lejla Mahmutović, Una Glamočlija, Amar Osmanović, **Altijana Hromić-Jahjefendić**, Murtaza M. Tambuwala, Mirza Suljagić: "Curcumin Decreases Viability and Inhibits Proliferation of Imatinib-Sensitive and Imatinib-Resistant Chronic Myeloid Leukemia Cell Lines", Metabolites, 2022
7. Kenneth Lundstrom, **Altijana Hromić-Jahjefendić**, Esmā Bilajac, Alaa AA Aljabali, Katarina Baralić, Nagwa A Sabri, Eslam M Shehata, Mohamed Raslan, Ana Cláudia BH Ferreira, Ángel Serrano-Aroca, Murtaza M Tambuwala, Vladimir N Uversky, Vasco Azevedo, Khalid J Alzahrani, Khalaf F Alsharif, Ibrahim F Halawani, Fuad M Alzahrani, Debmalya Barh: "COVID-19 Signalome: Potential Therapeutic Interventions", Cellular Signalling, 2022

8. Kenneth Lundstrom, **Altijana Hromić-Jahjefendić**, Esma Bilajac, Alaa AA Aljabali, Katarina Baralić, Nagwa A Sabri, Eslam M Shehata, Mohamed Raslan, Ana Cláudia BH Ferreira, Ángel Serrano-Aroca, Murtaza M Tambuwala, Vladimir N Uversky, Vasco Azevedo, Khalid J Alzahrani, Khalaf F Alsharif, Ibrahim F Halawani, Fuad M Alzahrani, Debmalya Barh: "COVID-19 Signalome: Pathways for SARS-CoV-2 infection and impact on COVID-19 associated comorbidity", *Cellular Signalling*, 2022
9. Esma Bilajac, Lejla Mahmutović, Kenneth Lundstrom, Una Glamočlija, Jasmin Šutković, Abas Sezer and **Altijana Hromić-Jahjefendić**: "Viral Agents as Potential Drivers of Diffuse Large B-Cell Lymphoma Tumorigenesis", *Viruses*, 2022
10. Yachana Mishra, Hawraz Ibrahim M. Amin, Vijay Mishra, Manish Vyas, Pranav Kumar Prabhakar, Mukta Gupta, Rajeev Kanday, Kalvatala Sudhakar, Sumant Saini, **Altijana Hromić-Jahjefendić**, Alaa A.A. Aljabali, Mohamed El-Tanani, Angel Serrano-Aroca, Hamid Bakshi, Murtaza M. Tambuwala: "Application of nanotechnology to herbal antioxidants as improved phytomedicine: An expanding horizon", *Biomedicine and Pharmacotherapy*, 2022
11. **Altijana Hromić-Jahjefendić et al.**: "Associations and Disease-Disease Interactions of COVID-19 with Congenital and Genetic Disorders: A Comprehensive Review", *Viruses*, 2022
12. Nitin Bharat Charbe, Murtaza Tambuwala, Sushesh Palakurthi, **Altijana Hromić-Jahjefendić**, Hamid Bakshi, Flavia Zacconi, Vijay Mishra, Saurabh Khadse, Alaa A Aljabali, Mohamed El-Tanani, Ángel Serrano-Aroca, Srinath Palakurthi: "Biomedical Applications of Three Dimensional (3D) bio-printed Craniofacial tissue engineering", *Bioengineering and Translational Medicine*, 2022
13. Amna Kumašin, Lejla Mahmutović and **Altijana Hromić-Jahjefendić**: "Testing temperature and pH stability of the catalase enzyme in the presence of inhibitors", *Periodicals of Engineering and Natural Sciences*, 2022
14. Muhamed Adilovic and **Altijana Hromić-Jahjefendić**: "Correlation of model quality between predicted proteins and their templates", *Periodicals of Engineering and Natural Sciences*, 2022
15. Ajla Pleh, Lejla Mahmutovic and **Altijana Hromić-Jahjefendić**: "Evaluation of phytochemical antioxidant levels by hydrogen peroxide scavenging assay", *Bioengineering Studies*, 2021
16. Lejla Mahmutovic, Esma Hasic and **Altijana Hromić-Jahjefendić**: "Meet the Insidious Players: Review on Viral Infections in Head and Neck Cancer Etiology With an Update on Clinical Trials", *Microorganisms*, 2021
17. Muhamed Adilovic and **Altijana Hromić-Jahjefendić**: "Feature Importance in the Quality of Protein Templates", *Periodicals of Engineering and Natural Sciences*, 2021
18. Lejla-Nur Smajlovic and **Altijana Hromić-Jahjefendić**: "Genomic Alterations Of KRAS And NRAS In B&H Colorectal And Non-Small Cell Lung Cancer Patients" *IFMBE Springer Proceedings*, 2021
19. M Music, A Asceric, E Kurtanović, NU Hrapović, A Bogdanic, A Cosic and **A Hromić-Jahjefendić**: "Adherence of prebiotic fibers, antioxidants and B complex vitamins on the survival of probiotics", *Periodicals of Engineering and Natural Sciences*, 2020
20. Elle Vardic-Kajtažovic and **Altijana Hromić-Jahjefendić**: "Determination of C-reactive protein concentration by the turbidimetric method in diagnostics of viral and bacterial infections", *Periodicals of Engineering and Natural Sciences*, 2020
21. M Ikanović, M Iseni, M Adilović, **A Hromić-Jahjefendić**: "The effect of active charcoal filter on viability of bacteria isolated from the tap water in Sarajevo", *Heritage and Sustainable Development*, 2020
22. **Altijana Hromić-Jahjefendić** and Kenneth Lundstrom: "Viral Vector-based Melanoma Gene Therapy", *Biomedicines*, 2020
23. Emilia Strandback, Wolf-Dieter Lienhart, **Altijana Hromić-Jahjefendić**, Luka Brvar, Benjamin Bourgeois, Anja Högl, Daniel Waltenstorfer, Andreas Winkler, Klaus Zangger, Tobias Madl, Ellen Heitzer, Beate Rinner, Karl Gruber, Peter Macheroux: "A small molecule chaperone rescues the stability and activity of a cancer-associated variant of NAD(P)H:quinone oxidoreductase 1 in vitro", *FEBS Letters*, 2019
24. **Altijana Hromić-Jahjefendić***, Nina Jajcanin Jozic*, Saša Kazazić, Marina Grabar Branilović, Zrinka Karačić, Jörg Schrittwieser, Krishna Mohan Padmanabha Das, Marko Tomin, Monika Oberer, Karl Gruber, Marija Abramić and Sanja Tomić: "A novel *Porphyromonas gingivalis* enzyme: an atypical dipeptidyl peptidase III with an ARM repeat domain", *PLOS ONE*, 2017
25. Doris Ribitsch*, **Altijana Hromić***, Sabine Zitzenbacher, Barbara Zartl, Caroline Gamerith, Alessandro Pellis, Rupert Tscheliesnig, Andrzej Łyskowski, Georg Steinkellner, Karl Gruber, Alois Jungbauer, Enrique Herrero Acero and Georg M. Guebitz: "Small cause, large effect: Structural characterization of cutinases from *Thermobifida cellulositica*", *Biotechnology & Bioengineering*, 2017
26. Michael Prattes, Mathias Loibl, Gertrude Zisser, Daniel Luschnig, Lisa Kappel, Ingrid Rössler, Manuela Grassegger, **Altijana Hromić**, Elmar Krieger, Karl Gruber, Brigitte Pertschy and Helmut Bergler: "A conserved inter-domain communication mechanism regulates the ATPase activity of the AAA-protein Drg1", *Nature Scientific Reports*, 2017
27. Karin Koch, **Altijana Hromić**, Marija Sorokina, Emilia Strandback, Manuel Reisinger, Karl Gruber and Peter Macheroux: "Structure, biochemical and kinetic properties of recombinant Pst2p from *Saccharomyces cerevisiae*, a FMN-dependent NAD(P)H:quinone oxidoreductase", *BBA-Proteins and Proteomics*, 2017
28. Peter Augustin, **Altijana Hromić**, Tea Pavkov-Keller, Karl Gruber, Peter Macheroux: "Structure and biochemical properties of recombinant human dimethylglycine dehydrogenase and comparison to disease-related H109R variant", *FEBS Journal*, 2017
29. Veronika Perz, **Altijana Hromić**, Armin Baumschlager, Georg Steinkellner, Andrzej Łyskowski, Karl Gruber, Klaus Bleymaier, Sabine Zitzenbacher, Armin Zankel, Claudia Mayrhofer, Carsten Sinkel, Ulf Kueper, Katharina A. Schlegel, Doris Ribitsch, Georg M. Guebitz: "Esterases from anaerobic *Clostridium hathewayi* can degrade aliphatic-aromatic polyesters", *Environmental Science and Technology*, 2016
30. Biundo, Antonino; **Hromić, Altijana**; Pavkov-Keller, Tea; Gruber, Karl; Quartinello, Felice; Perz, Veronika; Arrell, Miriam; Zinn, Manfred; Ribitsch, Doris; Guebitz, Georg M.: "Characterization of a Poly(butylene adipate-co-terephthalate)-Hydrolyzing Lipase from *Pelosinus fermentans*", *Applied Microbiology and Biotechnology*, 2015
31. Veronika Perz, Armin Baumschlager, Klaus Bleymaier, Sabine Zitzenbacher, **Altijana Hromić**, Georg Steinkellner, Andris Pairitsch, Andrzej Łyskowski, Karl Gruber, Carsten Sinkel, Ulf Küper, Doris Ribitsch, Georg M. Guebitz: "Hydrolysis of synthetic polyesters by *Clostridium botulinum* esterases", *Biotechnology & Bioengineering*, 2015

32. Matthias Engleder*, Tea Pavkov-Keller*, Anita Emmerstorfer*, **Altijana Hromic***, Sabine Schrempf, Georg Steinkellner, Tamara Wriessnegger, Erich Leitner, Gernot A. Strohmaier, Iwona Kaluzna, Daniel Mink, Martin Schürmann, Silvia Wallner, Peter Macheroux, Karl Gruber, and Harald Pichler: "Structure-based mechanism of oleate hydratase from *Elizabethkingia meningoseptica*", *ChemBioChem*, 2015

33. Domen Zafred, Barbara Steiner, Andrea R. Teufelberger, **Altijana Hromic**, P. Andrew Karplus, Christopher J. Schofield, Silvia Wallner and Peter Macheroux: "Rationally engineered flavin-dependent oxidase reveals steric control of dioxygen reduction", *FEBS Journal*, 2015

34. Christiane Wuensch, Tea Pavkov-Keller, Georg Steinkellner, Johannes Gross, Michael Fuchs, **Altijana Hromic**, Andrzej Lyskowski, Kerstin Fauland, Karl Gruber, Silvia M. Glueck and Kurt Faber: "Regioselective Enzymatic β -Carboxylation of para-Hydroxy-styrene Derivatives Catalyzed by Phenolic Acid Decarboxylases", *Adv.Synth.Catal.*, 2015