

CURRICULUM VITAE

Personal data

Full name: **Altijana HROMIĆ-JAHJEFENDIĆ, BSc MSc, Dr.rer.nat**
Date of birth: **27.05.1987**
Place of birth: **Sarajevo, Bosnia and Herzegovina**
Citizenship: **Bosnian, Croatian**

Education

- 2015-2017 PhD studies in Biochemistry and Molecular Biomedicine**
Institute of Molecular Bioscience, University of Graz, Austria
PhD Thesis under the supervision of Prof. Dr. Karl Gruber (passed with distinction)
- 2010-2013 Master studies in Biochemistry and Molecular Biomedicine**
Institute of Biochemistry, Graz University of Technology, Austria
Master thesis under the supervision of Prof. Dr. Peter Macheroux
- 2006-2010 Bachelor studies in Chemistry**
Graz University of Technology, Austria
- 1993-2005 Primary and Secondary School Education “Catholic School Center”**
Sarajevo, Bosnia and Herzegovina (passed with distinction)

Work Experience

Sept. 2018- date

Assistant Professor at International University Sarajevo, Faculty of Engineering and Natural Sciences, Department Genetics and Bioengineering, Sarajevo, B&H

Feb. 2018-June 2018

Part time instructor at International University Sarajevo, Sarajevo, B&H
Teaching Biology and General Microbiology

2015-2017 PhD thesis at Institute of Molecular Biosciences Graz, University of Graz

2013-2014 ACIB GmbH-Austrian Center of Industrial Biotechnology, Graz Extensive experience in cloning, protein expression and purification (ÄKTA System), enzyme kinetics, crystallography and protein modelling

2011 Institute of Pathology, St. Leonhard hospital, Graz

Practical and extensive experience in immunohistochemistry (IHC) and tissue staining

- 2010-2012** **Institute of Molecular Biotechnology, Graz University of Technology**
Practical experience in heterologous expression using *E. coli* and *P. pastoris* as expression host system
- 2008** **Institute of Inorganic Chemistry, Graz University of Technology**
Internship in synthetic inorganic chemistry
- 2005/2006** **Physiotherapy clinic SRCE, Zaoztrog, Croatia**
Practice in physical therapy

Teaching activities

- 2018-date** Assistant Professor at International University Sarajevo, Sarajevo, B&H
Feb. 2018-June 2018
Part time instructor for Biology and General Microbiology
International University Sarajevo, Faculty of Engineering and Natural Sciences
- 2016** Supervisor for bachelor thesis
Institute of Molecular Biosciences, University of Graz, Austria
- 2014** Supervisor for student project in master studies
Institute of Molecular Biosciences, University of Graz, Austria
- 2010/2011** Tutor for "First Aid",
Institute of Molecular Biotechnology, Graz University of Technology
- 2010** Tutor for "Molecular biology praxis II",
Institute for Molecular Biotechnology, Graz University of Technology

Additional qualifications

Language

- skills** Bosnian - native (School education including high school)
English - fluent (C2)
German - fluent (C2, EPD; University entrance exam)
Russian - intermediate (B1)
Spanish - basics (A2)
Arabian - basics (A1)

IT

- skills** Bioinformatic tools (databases, sequence alignments, PyMol, Yasara)
Origin 7.0 for data analysis,
Microsoft windows operating system,
Linux operating system

Industry skills/ certificates

Quality assurance in Pharma, Biotechnology and Food Industry
GMP/GLP
Property rights and patents
Conflict management techniques
Business administration (Corporate leadership and entrepreneurship)
International diploma in project management (Level 4)

Interests

Sports basketball, swimming, fitness
Hobbies reading, history, profiling, foreign languages, science
Others Driving license B category

Additional education

06/ 2018 Writing EU Projects in Bosnia and Herzegovina, Sarajevo, B&H
11/ 2017 9th International Conference and Expo on Proteomics and Molecular Medicine, Paris, France
07/ 2017 18th DocDay, Graz, Austria
07/ 2017 Graduate Seminar, Graz, Austria
03/ 2017 International Conference in Medical and Biological Engineering, Sarajevo, Bosnia and Herzegovina
02/ 2017 3rd DPP III Minisymposium, Graz, Austria
09/ 2016 8th ÖGMBT Meeting, Graz, Austria
07/ 2016 16th International Conference on the Crystallization of Biological Macromolecules, Prague, Czech Republic
05/ 2016 CombStruct 2016-Integrating X-ray crystallography and scattering with electron microscopy, Oeiras, Portugal
03/ 2016 2nd DPP III Minisymposium, Zagreb, Croatia
02/ 2016 15th DocDay, Graz, Austria
01/ 2016 Graduate Seminar, Graz, Austria
09/ 2015 7th ÖGMBT Meeting, Salzburg, Austria
08/ 2015 29th European Crystallographic Meeting 2015, Rovinj, Croatia

07/ 2015	14 th DocDay, Graz, Austria
05/ 2015	International School on Biological Crystallization, Granada, Spain
01/ 2015	1 st DPP III Minisymposium, Graz, Austria
2015- 2018	Member of Austrian Association of Molecular Life Sciences and Biotechnology (ÖGMBT)
07/ 2014	16 th European Congress on Biotechnology, Edinburgh, Scotland
06/ 2014	EMBO Conference Manchester, UK
09/ 2012	5 th ÖGMBT Meeting, Graz, Austria
09/ 2003	PEER Education (certificate of PEER educator), Sarajevo, B&H

Publications

1. 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
2. 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
3. Matthias Engleder*, Tea Pavkov-Keller*, Anita Emmerstorfer*, **Altijana Hromic***, Sabine Schrempf, Georg Steinkellner, Tamara Wriessnegger, Erich Leitner, Gernot A. Strohmeier, 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
4. Veronika Perz , Armin Baumschlager, Klaus Bleymaier, Sabine Zitzenbacher, **Altijana Hromic**, 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
5. Biundo, Antonino; **Hromic, 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
6. Veronika Perz, **Altijana Hromic**, 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

7. Peter Augustin, **Altijana Hromic**, 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**, 2
8. Karin Koch, **Altijana Hromic**, 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
9. Michael Prattes, Mathias Loibl, Gertrude Zisser, Daniel Luschnig, Lisa Kappel, Ingrid Rössler, Manuela Grassegger, **Altijana Hromic**, 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
10. Doris Ribitsch*, **Altijana Hromic***, Sabine Zitzenbacher, Barbara Zartl, Caroline Gamerith, Alessandro Pellis, Rupert Tscheliessnig, 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 cellulosilytica*", **Biotechnology & Bioengineering**, 2017
11. **Altijana Hromic-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