

Curriculum Vitae

Surname: Ibrišimović
First name: Mirza
Academic degree: Doctor rerum naturalium
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Work experience

October, 2014 - Present: Assistant Professor of Physiology and Medical Biology at Medical School Faculty, University Sarajevo School of Science and Technology (SSST), Sarajevo, Bosnia and Herzegovina.

August, 2013 - May, 2014: Supervisor of Tissue Culture Lab – Quality Control, at American company Baxter AG, Orth an der Donau, Austria.

February, 2013 - July, 2013: Postdoc at St. Anna Children’s Cancer Research Institute (Department of Molecular Microbiology), Vienna, Austria.

September, 2009 – January, 2013: Research scientist at St. Anna Children’s Cancer Research Institute (Department of Molecular Microbiology), Vienna, Austria.

October, 2008 – July, 2012: Senior Teaching Assistant at Max F. Perutz Laboratories, at Department for Biochemistry and Molecular Cell Biology; University of Vienna, Austria.

Education

January 11th, 2013: Successful completion of PhD exam in molecular biology with honors.

2009 - 2013: PhD in Molecular Biology at St. Anna Children’s Cancer Research Institute, Vienna, in the lab of Univ.-Prof. DDr. Thomas Lion, (Department for Molecular Microbiology), with the title: “*Alternative approaches for the treatment of adenovirus infections*”.

- October 1st, 2008: Master thesis under supervision of Univ. Prof. Dr. Fritz Pittner (Department for Biochemistry and Molecular Cell Biology; University of Vienna): „*Evaluation of novel, nanotechnological biosensor-chips for monitoring of bacterial spoilage: Evaluation of sensor sensitivity and correlation with currently used microbiological testing methods and their improvement*”.
- June 10th, 2009: Master diploma in molecular biology.
- 2005 - 2009: Studies in Molecular Biology at University of Vienna (sub-specializations in biochemistry, molecular medicine and genetics).
- Juni 2003: Grammar School final examination.
- 1999-2003: Grammar School „Vaso Pelagić“, Brčko, Bosnia and Herzegovina.
- 01.-07.2002: Abroad semester in USA (AYUSA International Scholarship), Ironwood High School in Phoenix, Arizona.
- 1996-1999: Elementary School „Arif Dervišević“, Prutače, Bosnia and Herzegovina.
- 1992-1996: Elementary School „Hamid Berbić“, Palanka/Gornji Rahić, Bosnia and Herzegovina.
- 1991 -1992: Elementary School „Nasto Nakić“, Brčko, Bosnia and Herzegovina.

Selected publications

1. **Ibrišimović, M.**, Kesić, A., Mehmedinović M., Ibrišimović, N. (2015). Substrate addition and matrix optimization increased sensitivity and selectivity of the PLGA sensor, resulting in a stronger detection signal toward bacterial contaminations. *TechConect World Innovation Conference and Expo, Washington DC*.
2. **Ibrišimović, M.**, Ibrišimović Mehmedinović, N., Kesić, A., Pittner, F. (2015). Microbial biosensor- A new trend in detection of bacterial contamination. *Chemical Monthly, 2015, 146: 1363-1370*.

3. Ibrišimović Mehmedinović, N., **Ibrišimović, M.**, Kesić, A (2015). A polymer-based, optical biosensor chip for detection of microbial leucine aminopeptidase (LAP) activity and its potential as a novel, medical diagnostic test. *The First Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH 2015), Sarajevo.*
4. **Ibrišimović, M.**, Lion, T., Klein, R. (2013). Combinatorial targeting of 2 different steps in adenoviral DNA replication by herpes simplex virus thymidine kinase and artificial microRNA expression for the inhibition of virus multiplication in the presence of ganciclovir. *BMC Biotechnolo*, 13:54.
5. **Ibrišimović, M.**, Kneidinger, D., Lion, T., Klein, R. (2013). An adenoviral vector-based expression and delivery system for the inhibition of wild-type adenovirus replication by artificial microRNAs. *Antiviral Research*, 97 (1):10-23.
6. **Ibrišimović, M.**, Nagl, U., Kneidinger, D., Rauch, M., Lion, T., Klein, R. (2012). Targeted expression of herpes simplex virus thymidine kinase in adenovirus-infected cells reduces virus titers upon treatment with ganciclovir in vitro. *Journal of Gene Medicine*; 14(1):3-19.
7. Kneidinger, D., **Ibrišimović, M.**, Lion, T., Klein, R. (2012). Inhibition of adenovirus multiplication by short interfering RNAs directly or indirectly targeting the viral DNA replication machinery. *Antiviral Research*, 94: 195-207.
8. Ibrišimović, N., **Ibrišimović, M.**, Barth, M., Bohrn, U (2010). Biomimetic PLGA sensor: proof of principle and application. *Chemical Monthly* 141:125-130.
9. Ibrišimović, M., **Ibrišimović, M.**, Barth, M., Bohrn, Pittner, F. (2009). Biomimetic sensor chip monitoring real-time food degradation: correlating chemical deterioration with microbiological status. *Chemical Monthly* 140: 941-945.

Patents and inventions

Patents:

Ibrišimović, N., Pittner, F., **Ibrišimović, M.**, Barth, M., Bohrn, U. (2009). Device comprising a polymer layer and a reflecting layer. *EP2278300 A1, Europe and USA*.

Invention:

Ibrišimović, M. (2009). „Test-Tool for Food Microbiology”- license has been given to Sony DADC company from Salzburg (AC-Number: AC08015752).

Research projects

1. Project: „**Fresh stripe sensor**“, with Sony DADC, 2008-2009; Austria (student collaborator).
2. Project: „**Sensor for detection of meat degradation**“, with AGES (Austrian Agency for Health and Food Safety), 2007-2009; Austria (student collaborator).
3. Project: „**Inhibition of adenoviruses by enzyme-dependet activation of prodrugs**“, supported by ÖNG (Austrian National Bank); Grant:12814; Austria (student collaborator).
4. Project: „**RNA interference-mediated inhibition of adenoviruses**“, supported by FWF (The Austrian Science Fond); Grant L665-B13; Austria (student collaborator).
5. FP7–Project: „**FUNGITECT: Optimised Diagnostics for Improved Treatment Stratification in Invasive Fungal Diseases**“, funded by European Union's Seventh Framework Programme (FP7/2007–2013) under grant agreement n° 602125 (collaborator).

Text books and manuals

Text book:

*Nadira Ibrišimović Mehmedinović, Jasmina Dedić, **Mirza Ibrišimović**, Aldina Kesić. „Uvod u laboratorijski rad (Introduction to laboratory work)”. OFF-SET Tuzla, 2015, ISBN 978-9958-31-226-7.*

Teaching

- 2008-2012: Senior Teaching Assistant in Biochemistry Laboratory Course for Chemists - Basic Techniques; Department for Biochemistry and Molecular Cell Biology; University of Vienna, Vienna, Austria.
- 2008-2012: Senior Teaching Assistant in Laboratory Course C + Advanced Laboratory Course in Biochemistry (Protein Biochemistry); University of Vienna, Vienna, Austria.
- 2014-2015: Assistant Professor in Medical Biology, Medical School Faculty, University SSST, Sarajevo, Bosnia and Herzegovina.
- 2015-ongoing: Assistant Professor in following fields of study: Human Physiology and Medical Biology; Teaching courses: Human Physiology I, Human Physiology II, Introduction to Immunology, Stem Cells in Clinic and Research.

Oral presentations and posters

- Presentations at the university in several courses (2005-2009).
- Publications oral talks at the Children's Cancer Research Institute (on a regular basis), 2009-2013.
- Poster presentation at the ÖGMBT annual Meeting 2010.
- Poster presentation at the 10th International Adenovirus Meeting 2012; Umeå, Sweden.
- Oral presentation at The First Conference of Medical and Biological Engineering in Bosnia and Herzegovina (CMBEBIH 2015), 2015, Sarajevo, Bosnia and Herzegovina.

Laboratory skills

1. Molecular Biology Techniques (isolation of DNA and RNA, cloning, PCR and quantitative RT-PCR, cDNA library, RNA interference, genotyping, sequencing, gel electrophoresis, Western blot, Northern blot, restriction digestion, transformation)
2. Cell Culture (cell proliferation assay, flow cytometry, transfection, cytotoxicity tests, vaccine quality control testing)

3. Biotechnology (development of different biochip setups: optimization of matrix and sensitivity)
4. Immunology and Serology (agglutination, immunoprecipitation, co-immunoprecipitation, immunohistochemistry, ELISA, whole blood protein isolation, immunoglobulin precipitation, immunodiffusion assay, immunoelectrophoresis)
5. Biochemistry (isolation, purification and characterisation of proteins, enzyme kinetics, SDS page, thin layer chromatography, ion-exchange chromatography, affinity chromatography, spectrophotometry)
6. Physiology (differential blood count, blood typing, osmosis, urine analysis, hormone balance test)
7. Virology (virus amplification, virus purification, genotyping)
8. Microbiology (cultivation, species identification using biochemical tests, antibiotic susceptibility testing, genotyping, biofilm testing using tube test method, congo red agar method, tissue culture plate method)

Languages

Bosnian: native language

English: fluent spoken and written

German: fluent spoken and written

Professional affiliations

2009 - 2013: Member of ÖGMBT (Austrian Association of Molecular Life Science and Biotechnology).

Others

- Excellent computer skills (MS Office, data bases: BLAST, GeneRunner, OMIM, COSMIC, Orphanet, Oncomine, UCSC, TCGA)
- Fast introduction in foreign methods and softwares
- Team player
- Very good organization and coordination
- Loyalty and preciseness