

## PERSONAL INFORMATION

**Sabina Semiz**

(nee Alagic)



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## WORK EXPERIENCE

February 2015 – present

**Professor at Genetics and Bioengineering Program**

International University of Sarajevo, Faculty of Engineering and Natural Sciences, Sarajevo, Bosnia and Herzegovina (<http://www.ius.edu.ba>)

- **Dean, Faculty of Engineering and Natural Sciences**
- **Head, Unit of the UNESCO Chair in Bioethics in Bosnia and Herzegovina (2015 - Present).**
- **Member of the IUS Accreditation Committee, Genetics and Bioengineering Program, FENS, 2016-present.**
- **Member of the Management Committee of the Citizen's Health through public-private Initiatives: Public health, Market and Ethical perspectives (COST Action IS1303), 2013-2017.**
- **Member of the International Committee for World Bioethics Day (WBD), UNESCO Chair in Bioethics.**
- **President of the Organizing Committee for the International Conference "Bioethics in the Era of Genomics and Personalized Medicine", Sarajevo, October 2016.**
- **Review Panel Expert in the COST Action Proposal Submission, Evaluation, Selection and Approval procedure, BA Medical and Health Sciences, 2015-2017.**
- **Expert in the Evaluation panel for the Horizon 2020 Programme - Innovative Medicines Initiative 2 proposals under the topic "Assessing risk and progression of prediabetes and type 2 diabetes to enable disease modification", 2015.**
- Actively participates in several international projects (COST Action, European Commission; MetGen Consortium, PGENI project).
- **Expert-representative of the academic community in Bosnia and Herzegovina** in the Agency for Development of Higher Education and Quality Assurance.
- **Expert in Medical Sciences, Ministry of Education and Sport, Montenegro**
- **Member of the Steering Committee** of the Association of Biochemists and Molecular Biologists of Bosnia and Herzegovina.
- Project leader in the areas of Pharmacogenomics and diabetes treatment; Genetic variations in Type 2 diabetes; Bioethics.
- Organized a special seminar series at FENS, IUS
- Member of the Editorial Board of the Bosnian Journal of Basic Medical Sciences
- **Invited reviewer for the *Nature Reviews in Endocrinology*, *Pharmacogenomics Journal*, and *MBC Medical Genetics*.**

November 2012 – February 2016

### Associate Professor in Drug Metabolism

Department of Biochemistry and Clinical Analysis, Faculty of Pharmacy, University of Sarajevo, Sarajevo, Bosnia and Herzegovina (<http://www.ffsaunsa.ba>)

- Lead the courses “Drug Metabolism” and “Pharmacogenomics and Personalized Medicines”
- Lead Doctoral study program’s courses „Methods for Analysis of Drug Metabolism and Disposition“ and „Pharmacogenomics in Pharmacy“.
- Expert-representative of the academic community in Bosnia and Herzegovina (BH) in the Agency for Development of Higher Education and Quality Assurance.
- Expert in Medical Sciences, Ministry of Education and Sport, Montenegro.
- Actively participates in several international projects (COST Action, European Commission; MetGen Consortium, PGENI project).
- Project leader in the areas of Pharmacogenomics and diabetes treatment & Genetic variations in Type 2 diabetes (BH National research grants 2012-2015).
- Leader of the Continuing Education Program in Pharmacy within the Pharmaceutical Society of BH.
- Member of the Supervisory Board at the University of Sarajevo
- Member of Examination Committees for Bachelor, Master, and PhD Programs

September 2012 - January 2013, October 2008 – June 2010.

### Associate Professor in Pharmaceutical Biotechnology (*Part-time*)

International University of Sarajevo, Faculty of Engineering and Natural Sciences, Sarajevo, Bosnia and Herzegovina (<http://www.ius.edu.ba/>)

- Lead the course “Pharmaceutical Biotechnology”
- Member of Examination Committees for Bachelor and Master Programs

July 2007 – October 2012.

### Assistant Professor in Drug Metabolism

Department of Biochemistry and Clinical Analysis, Faculty of Pharmacy, University of Sarajevo (<http://www.ffsaunsa.ba/>)

- Vice Dean for Academic Affairs & Research
- Lead the course “Drug Metabolism”
- Project leader in the areas of Pharmacogenomics and diabetes treatment & Genetic variations in Type 2 diabetes (BH National research grants in 2008-2009, 2010)
- Participated in Graduate program „ Research in Pharmacy“.
- Expert-representative of the academic community in Bosnia and Herzegovina in the Agency for Development of Higher Education and Quality Assurance.
- Member of Examination Committees for Bachelor and Master Programs

Oct. 2008 – June 2009.

### Assistant Professor in Drug Biochemistry

Faculty of Pharmacy, University of Tuzla, Tuzla, Bosnia and Herzegovina (<http://www.farmacy.untz.ba/>)

- Invited professor for undergraduate and graduate study programs

January - July 2007.

Research Scientist

### Epic Therapeutics, Inc., a Wholly Owned Subsidiary of Baxter Healthcare Corporation, Norwood, MA, USA.

- Development and formulation of PROMAXX Microspheres for Delivery of siRNA and Antisense Oligonucleotides for the *in vivo* gene therapy

2005-2007.

### Principal Investigator, Target Biology Group Leader

#### CytRx Corporation, Worcester, MA, USA.

- Gene Silencing and RNA interference-based Target Validation and Screening Platform in Diabetes and Obesity Drug Discovery and Development.

2001-2005.

Postdoctoral Fellow

### Program in Molecular Medicine, University of Massachusetts Medical School, Worcester, MA, USA.

- Studied the mechanisms of insulin-mediated glucose uptake and development of insulin resistance and diabetes in laboratory of Dr. Michael Czech, world leader in the field of diabetes and insulin signalling, and in collaboration with Dr. Craig Mello, Nobel Prize laureate in 2006. for his discovery of RNA-interference and gene silencing.

- 1995-2001. Teaching/Research Associate  
**Faculty of Pharmaceutical Sciences, The University of British Columbia, Vancouver, B.C., Canada.**
- Studied the Effects of Diabetes, Insulin, and Vanadium on Regulation of Glycogen Synthesis: Roles of Glycogen Synthase Kinase-3 and Protein Phosphatase-1.
  - Participated as a Teaching Assistant in the Biochemistry Course, and the Problem Based Learning Course within the Pharmacy Degree Program
- 1988-1995. Teaching/Research Associate  
**Department of Biochemistry and Clinical Analysis, Faculty of Pharmacy, University of Sarajevo, Sarajevo, Bosnia and Herzegovina.**
- Participated in the research projects and teaching in the areas of clinical biochemistry, pharmacology, and diabetes.

**EDUCATION AND TRAINING**

- 2001-2005 **Postdoctoral training**  
**Program in Molecular Medicine, University of Massachusetts Medical School, Worcester, MA, USA.**
- Participated in the research projects related to the mechanisms of insulin-mediated glucose uptake and development of insulin resistance and diabetes.
  - siRNA-induced gene silencing
  - Cell culture, animal models of diabetes
  - Molecular medicine, recombinant DNA technology, Fluorescent microscopy
- 1995-2001 **PhD (Pharmaceutical Sciences)**  
**The University of British Columbia**  
**Faculty of Pharmaceutical Sciences, Vancouver, B.C., Canada.**
- PhD Thesis: "Effects of Diabetes, Insulin, and Vanadium on Regulation of Glycogen Synthesis: Roles of Glycogen Synthase Kinase-3 and Protein Phosphatase-1"
  - Animal models of Type 2 diabetes
  - Enzyme kinetics
- 1992-1994. **Medical Biochemistry Specialist**  
**Clinical Centre University of Sarajevo, Ministry of Health, Sarajevo, Bosnia and Herzegovina**
- Internship in Medical Biochemistry
- 1991-1993. **Master of Science**  
 Faculty of Pharmacy, University of Sarajevo, Sarajevo, Bosnia and Herzegovina
- M.S. Thesis: "Changes of Amylase and Lipase Activity and Magnesium Levels in Patients with Diabetes Mellitus".
  - Established research collaboration with the Clinical Centre
- 1984-1988. **Bachelor of Science**  
 Faculty of Pharmacy, University of Sarajevo, Sarajevo, Bosnia and Herzegovina.
- University of Sarajevo Gold Medallist**, First in Class at the Faculty of Pharmacy (average grade 96%), University of Sarajevo, 1988.

**PERSONAL SKILLS**

Bosnian

Mother tongue(s)

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

**English**

**C2**

**C2**

**C2**

**C2**

**C2**

PhD Diploma, University of British Columbia, Vancouver, B.C., Canada

Levels: A1/2: Basic user - B1/2: Independent user - **C1/2 Proficient user**,  
Common European Framework of Reference for Languages

**Communication skills**

- Excellent team player
- Ability to adapt to multicultural environments, gained through my international work experience.
- **Good communication skills gained through my experience as:**
  - Head, Unit of the of the UNESCO Chair in Bioethics in Bosnia and Herzegovina
  - Vice Dean for Academic Affairs & Research at Faculty of Pharmacy, University of Sarajevo.
  - Leader of the Continuing Education Program in Pharmacy within the Pharmaceutical Society of BH.
  - Principal Investigator and Target Biology Group Leader in CytRx Corporation, Worcester, MA , USA.

**Organisational / managerial skills**

- **Dean of the Faculty of Engineering and Natural Sciences**, International University of Sarajevo, Sarajevo, 2016 – present.
- **Head, Unit of the UNESCO Chair in Bioethics in Bosnia and Herzegovina**, 2015 – present.
- **President of the Organizing Committee for the World Bioethics Day (WBD) 2017 celebration**, Sarajevo, BH, October 27, 2017.
- **President of the Organizing Committee for the International Conference “Bioethics in the Era of Genomics and Personalized Medicine”**, Sarajevo, October 28, 2016.
- **President of the Organizing Committee for the World Bioethics Day (WBD) 2016 celebration**, Sarajevo, BH, October 19, 2016.
- **Member of the International Committee for World Bioethics Day (WBD), UNESCO Chair in Bioethics**, 2016-present.
- Member of the Organizing Committees for the **International Congress on Education Sciences and Learning Technology, IUS, Sarajevo, BH, September 19-23, 2016.**
- Member of the Organizing and Scientific Committees for the **International Congress on Applied Biological Sciences, IUS, Sarajevo, BH, May 27-31, 2016.**
- **Head, Unit of the of the UNESCO Chair in Bioethics in Bosnia and Herzegovina** ( Dec. 2014. - Present)
- Member of the Scientific Committee for the **3<sup>rd</sup> ESPT Conference “Integration of Pharmacogenomics in clinical decision support”**, Budapest, Hungary, October 7-9, 2015.
- Member of the Scientific Committee for the **2<sup>nd</sup> International Pharmaceutical Conference “Contemporary Developments in Pharmacy”**, Prizren, Kosovo, September 19-21, 2014.
- **President of the Organizing Committee** for the **13<sup>th</sup> Golden Helix Pharmacogenomics Day**, Sarajevo, Bosnia and Herzegovina, May 30, 2014.

**Organisational /  
managerial skills**

- **Leader of the Continuing Education Program** in Pharmacy within the Pharmaceutical Society of BH, 2011-2013.
- **Vice Dean for Academic Affairs & Research** at Faculty of Pharmacy, University of Sarajevo, 2007-2009.
- Developed two laboratories for experimental research/teaching in the fields of Target Biology (CytRx Corporation, Worcester, USA) and Clinical Biochemistry/Drug Metabolism (University of Sarajevo).
- **President of the Organizing Committee** for the Symposium of Physicians and Pharmacists "Rational Therapy with Antibiotics", Sarajevo, October 19-20, 2012.
- **President of the Organizing Committee** of the Workshop "Modern methods and management in Diabetes Therapy", General Hospital Sarajevo "Prim. Dr. Abdulah Nakas", Sarajevo, June 16, 2012.
- Member of the Scientific Committee for the Second Congress of Pharmacists of Bosnia and Herzegovina with International Participation, Banja Luka, November 17-20, 2011.
- **President of the Organizing Committee** for the Symposium of Pharmacists in Bosnia and Herzegovina "Extemporaneous Pharmacy – Yesterday, Today, and Tomorrow", Sarajevo, May 6-7, 2011.
- Member of the Organizing Committee for the 1st Congress of Medical Biochemists of Bosnia and Herzegovina, Sarajevo, May 21-22, 2010.
- **Organized a Seminar Series in the CytRx Corporation, USA**, and invited a number of experts in the field of Diabetes and RNAi interference.

**TEACHING AND  
PROFESSIONAL  
DEVELOPMENT**

- **Lecturer within the TRAIN (Training and Research for Academic Newcomers) Program**, Methodology of Scientific Research, Writing, and Presentation, University of Sarajevo, Sarajevo, Sept. 2014- February 2016.
- Taught various courses in Medical Biochemistry, Clinical Biochemistry, Biotechnology, Drug Metabolism, Pharmacology, Pharmacogenetics, and Pharmaceutical / Medical Biotechnology.
- Completed a number of conferences/courses/workshops, regarding the European project application and collaboration, including (selected):
- H2020 Info Days, Sarajevo, Bosnia and Herzegovina, November 20-21, 2017.
- 1<sup>st</sup> International Conference "European Higher Education Area (EHEA) and synergy with European Research Area with a focus on Mobility", Sarajevo, September 12-13, 2013.
- "Health - FP7 Grant Applications by European Commission", Clinical Centre University of Sarajevo, Sarajevo, April 24, 2012.
- "Diabesity - A World-Wide Challenge - Towards a global initiative on diabetes/obesity in specific populations", European Commission, Brussels, February, 2012.
- Info Day: FP7 Grant Applications by European Commission, University of Sarajevo, May 17, 2011.
- Info Day: FP7 and COST Grant Applications, Agency for European Integrations, Sarajevo, October 14, 2010.
- Workshop "Participation in FP7 Programs for Research and Development", April 7, 2009.
- Seminar "How to Write a Competitive Proposal for FP7" with Workshop „FP7 TRAINING WORKSHOP FOR RESEARCH MANAGERS“ (organized by WBC-INCO.NET, SBRA, ANUBiH, and NCP FP BiH, Sarajevo, May 9, 2008.
- "Teaching and Academic Growth", University of British Columbia, Vancouver, B.C., Canada (several courses within period of 1996-2000).

## HONORS AND AWARDS

- Keystone Symposia **Global Health Travel Award funded by the Bill & Melinda Gates Foundation** to participate at the Keystone Diabetes Symposia, Keystone, Colorado, USA, January 2017.
- **Review Panel Expert in the COST Action** Proposal Submission, Evaluation, Selection and Approval procedure, BA Medical and Health Sciences, **2015-2017**.
- **Expert in the Evaluation panel for the Horizon 2020 Programme** - Innovative Medicines Initiative 2 proposals under the topic "Assessing risk and progression of prediabetes and type 2 diabetes to enable disease modification", **Brussels, May 7-8, 2015**.
- **Visiting professor at the Erasmus University Medical Center in Rotterdam, Netherlands, Nov. 2014-Feb. 2015**. (ERASMUS-MUNDUS /ERAWEB academic exchange programme between the European Union and the Western Balkans)
- **Invited Speaker at the 14th EFLM Continuous Postgraduate Course** in Clinical Chemistry and Laboratory Medicine 'New trends in laboratory diagnosis and management of diabetes mellitus: Diabetes mellitus revisited 14 years after the first Dubrovnik course', **Dubrovnik, Croatia, October, 2014**.
- **Invited reviewer for the Nature Reviews in Endocrinology, Pharmacogenomics Journal, and MBC Medical Genetics**.
- **Invited professor at the CEEPUS – Summer School**, organised by the CEEPUS network – Novel diagnostic and therapeutic approaches to complex genetic disorders, **Portoroz, Slovenia, August 2014**.
- Committee member in **project GENIUS, International University of Sarajevo, Sarajevo, BH, April 2014**.
- Expert in the Institute for Standardization of Bosnia and Herzegovina, **Health protection technology (TC 25), 2013 - present**.
- **Visiting Professor at the Faculty of Medicine, Ondokuz Mayıs University, Samsun, Turkey**, within the "**Mevlana**" **Exchange Program**, December 2013.
- **Invited Speaker** at the 11<sup>th</sup> Golden Helix Pharmacogenomics Day, Bled, Slovenia, October 2013.
- **Invited Speaker** at the 6<sup>th</sup> Golden Helix Pharmacogenomics Day, "Pharmacogenomics in Bosnia and Herzegovina", Belgrade, Serbia, June 2012.
- **Invited Speaker** at the 1<sup>st</sup> Symposium of Geneticists in Bosnia and Herzegovina, Sarajevo, February 2011.
- Expert-representative of the academic community in Bosnia and Herzegovina (BH) in the **Agency for Development of Higher Education and Quality Assurance**.
- Leader of the Continuing Education Program in Pharmacy within the Pharmaceutical Society of BH.
- **Visiting professor** at the **Lund University**, within the Erasmus Mundus External Cooperation Window Project Basileus, Lund, **Sweden, January 2010**.
- A member of the **Organizing Committee for the 1<sup>st</sup> Congress of Medical Biochemists of Bosnia and Herzegovina** with international participation, Sarajevo, May 2010.
- **Travel Grant** to 34th FEBS Congress, July 2009, in Prague, Czech Republic, by Federal Ministry for Education and Science, Bosnia and Herzegovina, November 2009.
- **Guest Professor at the University of Sarajevo**, Bosnia and Herzegovina; funded by the World University Services (WUS), Austrian Committee, and supported by Austrian Federal Ministry for Foreign Affairs, 2007.
- **Postdoctoral Fellowship**, American Diabetes Association, June 2002 - April 2005.
- **Invited Speaker at the McNeill Symposium**, the University of British Columbia, Vancouver, BC, Canada, January 2004.
- **Guest Lecturer at the University of Sarajevo**, Bosnia and Herzegovina; funded by the World University Services (WUS), Austrian Committee, and supported by Austrian Federal Ministry for Foreign Affairs, December 2003.
- **Merck Frosst Canada & Co. Award**, Joint Pharmacology Meeting in Vancouver, B.C., Canada, March 2001.
- **Graduate Research Scholarship**, Rx&D-Health Research Foundation and Medical Research Council of Canada, 1998-2000.
- **Travel Award** to Joint Pharmacological Societies Meeting in Boston, MA, Rx&D-Health Research Foundation, June 2000.
- **Graduate Student Travel Award** to Canadian Diabetes Association Meeting in Calgary, AB, Canada, the University of British Columbia, October 1998.

## HONORS AND AWARDS

- **Graduate Student Travel Award** to the XIII IUPAR Congress in Munich, Germany, American Society for Pharmacology and Experimental Therapeutics (ASPET), July 1998.
- **Summer Research Studentship in Pharmacy**, Rx&D-Health Research Foundation, the University of British Columbia, 1997.
- **University Gold Medallist**, First in Class at the Faculty of Pharmacy (averaged grade 96%), University of Sarajevo, 1988.

## PROFESSIONAL MEMBERSHIP

- European Association for the Study of Diabetes (EASD)
- European Society of Human Genetics (ESHG)
- Association of Biochemists and Molecular Biologists of Bosnia and Herzegovina (BH)
- Association of Medical Biochemists BH
- Association of Geneticists BH

## PROJECTS (within last five years)

### Project leader:

- Grant for EU-Horizon 2020 project preparation by the Council of Ministers BH, **“Personalized Therapy and Genetic Testing: Perspectives in Biomedicine and Bioethics”, 2016-2017.**
- Grant for EU-Horizon 2020 project preparation by the Council of Ministers BH, **“Genetic testing and personalized therapy: Perspectives in biomedicine and ethics”, 2015-2016.**
- Grant for EU-Horizon 2020 project preparation by the Council of Ministers BH, **“Personalized Healthcare for the European Citizen – a Pan-European Trans-disciplinary Network”, 2014-2015.**
- Grant for EU-FP7 project preparation by the Council of Ministers BH, **“Personalized Therapy of Type 2 Diabetes Through European Research Network”, 2013-2014.**
- Grant by the Federal Ministry for Education and Science of Bosnia and Herzegovina, **“Pharmacogenetic factors associated with optimal therapy of Type 2 diabetes”, 2012-2014.**
- Grant for EU-FP7 project preparation by the Council of Ministers BiH, titled: **“Genetic Variations of Drug-metabolizing enzymes in Type 2 Diabetes”, 2010-2011.**
- Grant for EU-FP7 project preparation by the Council of Ministers BiH, in the area of **Characterization of Genetic Variation in European Populations for Safe and Efficient treatment of Diabetes and Prevention from Cardiovascular Disease, 2009-2010.**

### Active participation:

- **The International Metformin Genetics (MetGen) Consortium, 2014 – present**
- **"Citizen's Health through public-private Initiatives: Public health, Market and Ethical perspectives (CHIP ME)" COST Action, European Commission, 2013-2017.**
- **“The Pharmacogenetics for Every Nation Initiative (PGENI)“, The Golden Helix Institute of Biomedical Research, Athens, Greece, 2012 – present.**
- **Central European Exchange Program for University Studies (CEEPUS) Project: “Novel diagnostic and therapeutic approaches to complex genetic disorders”, 2012-Present.**
- **„Genetic polymorphisms associated with metabolic syndrome“, Bilateral project Slovenia - Bosnia and Herzegovina, 2008-2010.**
- **„AST, ALT, and AP as potential biomarkers in progression and prognosis of type 1 and type 2 diabetes mellitus“, Cantonal Ministry for education and science Canton Sarajevo, 2007-2009.**

## PUBLICATIONS

### Books:

1. Semiz S. Type 2 Diabetes: From Genes to Prognosis and Therapy, University Book, International University of Sarajevo, 2016.
2. Semiz S. Personalized Therapy of Type 2 Diabetes, University Book, International University of Sarajevo, 2016.
3. Semiz S. and Causevic, A. Pharmacogenetic Aspects of Drug Metabolism, University Book, University of Sarajevo, 2012.
4. Editor for the University Book "Chemical Contaminations of the Food", authors Velagic-Habul E. and Omanovic-Miklicanin, E., Sarajevo, 2011.

### Journal Publications:

5. Jun Liu, Jan van Klinken, **Sabina Semiz**, Ko Willems van Dijk, Aswin Verhoeven, Thomas Hankemeier, Amy C. Harms, Eric Sijbrands, Nuala A. Sheeha, Cornelia M. van Duijn, Ayşe Demirkan, *A Mendelian randomization study of metabolite profiles, fasting glucose and type 2 diabetes*, **Diabetes**, 66 (11): 2915-2926, **2017**.
6. Jun Liu, **Sabina Semiz**, Sven J. van der Lee, Ashley van der Spek, Aswin Verhoeven, Jan B. van Klinken, Eric Sijbrands, Amy C. Harms, Thomas Hankemeier, Ko Willems van Dijk, Cornelia M. van Duijn, *Metabolomics based markers predict type 2 diabetes in a 14-year follow-up study*, **Metabolomics**, 13, 104, **2017**.
7. A. Causevic-Ramosevac, **S. Semiz**, *Association of ApoB and CETP genetic variants with Type 2 Diabetes-related traits in population from Bosnia and Herzegovina*, **FEBS J**, 284: 139, **2017**.
8. M. Malenica, H. Smalbegovic, T. Bego, T. Dujic, A. Causevic, **S. Semiz**, A. Vukasinovic, J. Kotur-Stevuljevic, *Testing the prooxidant-antioxidant balance in patients with prediabetes and Type 2 diabetes mellitus*, **FEBS J**, 284: 329, **2017**.
9. Tanja Dujic, Kaixin Zhou, SookWah Yee, Nienke van Leeuwen, Catherine E. de Keyser, Martin Javorský, Srijib Goswami, Linda Zaharenko, Mette Marie H. Christensen<sup>1</sup>, Mattijs Out, Roger Tavendale, Michiaki Kubo, Monique M. Hedderson, Amber A. van der Heijden, Lucia Klimčáková, Valdis Pirags, Adriaan Kooy, Kim Brøsen, Janis Klovins, **Sabina Semiz**, Ivan Tkáč, Bruno H. Stricker, Colin N.A. Palmer, Leen M. 't Hart, Kathleen M. Giacomini, Ewan R. Pearson, *No Association of Variants in Membrane Transporter Genes with Glycaemic Response to Metformin in Type 2 Diabetes: A MetGen Meta-Analysis*, **Clinical Pharmacology & Therapeutics**, 101(6):763-772, **2017**.
10. Malenica, M., Silar, M., Dujic, T., Bego T., **Semiz, S.**, Skrbo, S., Prnjavorac, B., Causevic, A., *Importance of inflammatory markers and IL-6 for diagnosis and follow up of patients with type 2 diabetes mellitus*, **Med. Glas**, 14, 2, 169-175, **2017**.
11. Malenica, M., Prnjavorac, B., Bego T., Dujic, T., **Semiz, S.**, Skrbo, S., Gusic, A., Hadzic, A., Causevic, A., *Effect of cigarette smoking on hematological parameters in healthy population*, **Med. Arch.** 71, 2, 132-136, **2017**.
12. Mandal, S., Causevic, A., and **Semiz, S.**, *A distinct fatty acid profile/pattern and levels in newly diagnosed Type 2 diabetic subjects*, **Clinical Chemistry and Laboratory Medicine**, 55, S1035, **2017**.
13. Mandal, S., Causevic, A., Dzudzevic-Cancar H, and **Semiz, S.**, *Free fatty acid profile in Type 2 diabetic subjects with different control of glycemia*, *Proceedings of the International Conference on Medical and Biological Engineering 2017*, Springer, 781-786, **2017**.
14. Gusic, A., Hadzic, A., Bego T., Dujic, T., Causevic, A., **Semiz, S.**, Skrbo, S., Malenica, M., *Effect of cigarette smoking on hematological parameters in healthy population*, **Clinical Chemistry and Laboratory Medicine**, 55, S712, **2017**.
15. Zeliya Velija-Asimi, Azra Burekovic, Tanja Dujic, Amela Dizdarevic-Bostandzic, **Sabina Semiz**, *Incidence of prediabetes and risk of developing cardiovascular disease in women with polycystic ovary syndrome*, **Bosnian Journal of Basic Medical Sciences**, 2016;16(4):298-306.
16. K. Zhou, S.W. Yee, E.L. Seiser, N. van Leeuwen, R. Tavendale, A.J. Bennett, C.J. Groves, R.L. Coleman, A.A. van der Heijden, J. W. Beulens, C.E. de Keyser, L. Zaharenko, D.M. Rotroff, M. Out, K. A. Jablonski, L. Chen, M. Javorský, L. Klimčáková, A.M. Levin, L.K. Williams, T. Dujic, **S. Semiz**, M. Kubo, H.C. Chien, S. Maeda, J.S. Witte, L. Wu, I. Tkáč, A. Kooy, R.HN van Schaik, DPP investigators, ACCORD investigators, C. Sutherland, J. Klovins, A. Hofman, B.H. Stricker, M.J. Wagner, F. Innocenti, L. M. 't Hart, R.R. Holman, M.I. McCarthy, M.M. Hedderson, C.N. Palmer, J.C. Florez, K.M. Giacomini, E. R. Pearson, *Variation in the Glucose Transporter gene GLUT2 (SLC2A2) is associated with glycaemic response to metformin: A MetGen Study*, **Nature Genetics** 48 (9):1055-1059, **Sept. 2016**.
17. **S. Semiz**, T. Dujic, Z. Velija-Asimi, and A. Causevic, *Pharmacogenomics of membrane transporters and metformin response in Type 2 diabetic patients*, **European Journal of Human Genetics**, **2016**.
18. Malenica, M., B. Prnjavorac, A. Causevic, Dujic, T., Bego, T., and **Semiz, S.** *Use of Databases for Early Recognition of Risk of Diabetic Complication by Analysis of Liver Enzymes in Type 2 Diabetes Mellitus*, **Acta Inform. Med.** **24(2)**, 90-93, **2016**.
19. Dujic, T., Causevic, A., Bego T., Malenica, M., Velija-Asimi, Z., Pearson, E.R., **Semiz, S.**, *Organic Cation Transporter 1 Variants and Gastrointestinal Side Effects of Metformin in Patients with Type 2 Diabetes*, **Diabetic Medicine**, 33(4):511-514, **2016**.
20. Bego, T., Dujic, T., Mlinar, B., **Semiz, S.**, Malenica, M., Prnjavorac, B., Ostanek, B., Marc, J., Causevic-Ramosevac, A., and Causevic, A., *Association of LPIN1 gene variations with markers of metabolic syndrome in Bosnian population*, **Med. Glas.** **12(2)**, 113-121, **2015**.
21. Asimi, Z.V., **Semiz, S.** and Dujic, T., 2015. *Prediabetes incidence and risk of developing cardiovascular disease in women with polycystic ovary syndrome*, **Endocrine Abstracts**, **38**, P268, **2015**.



22. Mandal, S., Causevic, A., Prnjavorac, B., and **Semiz, S.**, Non-esterified Fatty Acids as Possible Biomarkers in Glucose Control of Prediabetes and Type 2 Diabetes, **Journal of Research in Pharmaceutical Sciences**, 1(1), 2014.
23. **Semiz, S.**, The practical issues in Type 2 diabetes management – pharmacogenomic considerations, **Biochemia Medica**, 24 (S1), S53-S56, 2014.
24. **Semiz, S.**, Dujic, T., Velija-Asimi, Z., Prnjavorac, B., Bego, T., Ostanek, B., Marc, J., and Causevic, A., Effects of Melatonin Receptor 1B Gene Variation on Glucose Control in Population from Bosnia and Herzegovina, **Experimental and Clinical Endocrinology & Diabetes**, 122(6):350-5, June 2014.
25. Dujic, T., Bego, T., Mlinar, B., **Semiz, S.**, Malenica, M., Prnjavorac, B., Ostanek, B., Marc, J., and Causevic, A., Effects of the *PPARG* gene polymorphisms on markers of obesity and metabolic syndrome in Bosnian subjects, **Journal of Medical Biochemistry**, 33 (4), 323-332, 2014.
26. **Semiz, S.**, Dujic, T. and Čausevic, A. Pharmacogenetics and personalized treatment of type 2 diabetes, **Biochemia Medica**, 23(2), 154-171, 2013.
27. Mandal, S., Causevic, A., Malenica, M., Bego, T., Prnjavorac, B., and **Semiz, S.**, Effects of Type 2 diabetes and glucose control on plasma levels of free fatty acids, **Balkan Journal of Clinical Laboratory**, 21, 13 (1), 57-61, 2013.
28. Mandal, S., Causevic, A., Malenica, M., Hadzidedic, S., Prnjavorac, B., and **Semiz, S.**, Age and gender related differences in free fatty acid levels in patients with type 2 diabetes mellitus, **Journal of Health Sciences**, 2 (3), 100-107, 2012.
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#### Professional articles and articles in national conference proceedings:

92. **Semiz, S.**, „Bioethical Voices“ (Newspaper published by the UNESCO Chair in Bioethics), 2, 7, 32-35, **December 2016.**
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109. **Semiz, S.**, Kovac-Besovic, and Causevic, J.A., **Experiences gained in the Canadian and American universities and implementation of Principles of Bologna Process at the University of Sarajevo**, **Reform of Higher Educational System – implementation of Bologna principles at the University of Sarajevo**, **Proceedings of the Second Conference on the Higher Education Reform - Implementation of the Bologna Principles at the Univ. of Sarajevo**, 115- 119, 2008.
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## PRESENTATIONS

1. A. Causevic-Ramosevac, **S. Semiz**, Association of ApoB and CETP genetic variants with Type 2 Diabetes-related traits in population from Bosnia and Herzegovina, 42<sup>nd</sup> FEBS Congress, From Molecules to Cells and Back, **Jerusalem, Israel, September 10-14, 2017**.
2. M. Malenica, H. Smailbegovic, T. Bego, T. Dujic, A. Causevic, **S. Semiz**, A. Vukasinovic, J. Kotur-Stevuljevic, Testing the prooxidant-antioxidant balance in patients with prediabetes and Type 2 diabetes mellitus, 42<sup>nd</sup> FEBS Congress, From Molecules to Cells and Back, **Jerusalem, Israel, September 10-14, 2017**.
3. Mandal, S., Causevic, A., and **Semiz, S.**, A distinct fatty acid profile/pattern and levels in newly diagnosed Type 2 diabetic subjects, IFCC-EFLM European Congress of Clinical Chemistry and Laboratory medicine, **Athens, Greece, June 11-15, 2017**.
4. Gusic, A., Hadzic, A., Bego T., Dujic, T., Causevic, A., **Semiz, S.**, Skrbo, S., Malenica, M., Effect of cigarette smoking on hematological parameters in healthy population, IFCC-EFLM European Congress of Clinical Chemistry and Laboratory medicine, **Athens, Greece, June 11-15, 2017**.
5. Mandal, S., Causevic, A., and **Semiz, S.**, Molecular Markers for Precise Diagnosis and Therapy of Type 2 Diabetes, 5<sup>th</sup> International Conference on Radiation and Applications in Various Fields of Research, **Budva, Montenegro, June 12-16, 2017**.
6. **S. Semiz**, L. Halilovic, B. Akcesme, C. Durakovic, F.B. Akcesme, M. Adilovic, N. Hamad, A. Maric, F. Serdarevic, Bioethical Issues in Personalized Medicine and Pharmacogenomics: Students' Awareness and Attitudes, *European Human Genetics Conference (ESHG)*, **Copenhagen, Denmark, May 27-30, 2017**.
7. A. Causevic-Ramosevac, **S. Semiz**, "Association of ApoB, CETP and GALNT2 Genetic Variants with Type 2 Diabetes-Related Traits in Population from Bosnia and Herzegovina", "ICCP 2017: International Conference on Clinical Pharmacology, Pharmacogenetics and Pharmacogenomics", **Dubai, UAE, May 19-20, 2017**.
8. **S. Semiz**, L. Halilovic, B. Akcesme, F.B. Akcesme, M. Adilovic, F. Serdarevic, Bioethical Perspectives in Pharmacogenomics and Precision Medicine: Physicians' Views and Attitudes, 12<sup>th</sup> World Conference on BIOETHICS, MEDICAL ETHICS & HEALTH LAW, **Limassol, Cyprus, March 21-23, 2017**.
9. Mandal, S., Causevic, A., Dzudzevic-Cancar H, and **Semiz, S.**, Free fatty acid profile in Type 2 diabetic subjects with different control of glycemia, CMBEBIH IFMBE 2017, **Sarajevo, Bosnia and Herzegovina, March 16-18, 2017**.
10. **Semiz, S.**, Dujic, T, Causevic, A. "Pharmacogenomics of metformin response in Type 2 diabetic patients from Bosnia and Herzegovina", Keystone Symposia Conference "Diabetes", **Keystone, Colorado, USA, January 22-26, 2017**.
11. Semiz, S. Bioethical perspectives in Personalized Medicine, International Conference Bioethics in the Era of Genomics and Personalized Medicine, Sarajevo, Bosnia and Herzegovina, October 28, 2016.
12. Semiz S., Pharmacogenomics and Personalized Medicine - Current Practices and Challenges, New Turkey Strategic Research Center (NTSRC) International Conference on Science and Technology, **Ankara, Turkey, October 3-6, 2016**.
13. **Semiz, S.**, A. Causevic, Z. Velija-Asimi, and T. Dujic, Personalized therapy with metformin: Effects of genetic variants of membrane transporters on Type 2 diabetes-related traits, **41<sup>st</sup> FEBS (the Federation of European Biochemical Societies) Congress, Kuşadası, Turkey, September 03-08, 2016**.
14. Halilovic, L., Bego, T., Causevic, A., Hamad, N., Velija Asimi Z., **Semiz, S.** Association of IRS1 Genetic Variation with Type 2 Diabetes and Insulin Resistance in Patients from Bosnia and Herzegovina, **41<sup>st</sup> FEBS (the Federation of European Biochemical Societies) Congress, Kuşadası, Turkey, September 03-08, 2016**.
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16. Causevic-Ramosevac, A., Bego, T., Velija Asimi, Z., Causevic, A. and **Semiz, S.**, Association of GCKR and GALNT2 genetic variants with Type 2 Diabetes-related traits in Population from Bosnia and Herzegovina, **41<sup>st</sup> FEBS (the Federation of European Biochemical Societies) Congress, Kuşadası, Turkey, September 03-08, 2016**.
17. S. Mandal, A. Causevic, Z. Velija, H. Kurtagic, N. Abdelfattah, M. Adilovic, **S. Semiz**, Association of serum free fatty acids and leptin levels in healthy and newly diagnosed type 2 diabetics, **41<sup>st</sup> FEBS (the Federation of European Biochemical Societies) Congress, Kuşadası, Turkey, September 03-08, 2016**.
18. T. Bego, A. Causevic, T. Dujic, M. Malenica, Z. Velija-Asimi, B. Prnjavorac, J. Nekvindova, V. Palicka, J. Marc, **S. Semiz**, Association of FTO gene variant (rs8050136) with markers of T2DM and obesity in population from Bosnia and Herzegovina

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  21. **Semiz, S.**, T. Dujic, Z. Velija-Asimi, and A. Causevic, Pharmacogenomics of membrane transporters and metformin response in Type 2 diabetic patients, The EUROPEAN HUMAN GENETICS CONFERENCE (ESHG), Barcelona, Spain, May 21-24, 2016.
  22. Cengic F.H., **Semiz S.**, Grebo J., Drnda A., Halilovic A., Topalovic E., and Beyazit, Y., BH education without borders: "Knowledge is donorable and sharable", Days of the Bosnian-Herzegovinian American Academy of Arts and Sciences (BHAAAS) in B&H, **Neum, BH, May 28-29, 2016.**
  23. **Semiz, S.**, Ethical issues in pharmacogenomics and personalized medicine, UNESCO Conference "BIOETHICS, MEDICAL ETHICS & HEALTH LAW", **Naples, Italy, October 20-22, 2015. (invited speaker)**
  24. **Semiz, S.** Education in Bioethics, 2nd International Conference on Education, Culture and Identity (ICECI), International University of Sarajevo, **Sarajevo, Bosnia and Herzegovina, 15-16 October 2015.**
  25. **Semiz, S.**, Pharmacogenomic Variations and Metformin Response, 3rd ESPT Conference "Integration of Pharmacogenomics in clinical decision support", **Budapest, Hungary, October 7-9, 2015. (invited speaker)**
  26. **S. Semiz**, T. Bego, M. Sterner, T. Dujic, Z. Velija-asimi, B. Prnjavorac, M. Malenica, L. Groop, A. Causevic, ASSOCIATIONS OF SOLUTE CARRIER TRANSPORTERS GENE VARIATIONS WITH MARKERS OF TYPE 2 DIABETES AND ITS COMPLICATIONS – GENDER SPECIFIC?; IFCC-EFLM EuroMedLab Paris 2015 Congress, **Paris, France, June 21-25, 2015.**
  27. A. Causevic, M. Malenica, T. Bego , T. Dujic, B. Prnjavorac, S. Mandal, **S. Semiz**, THE ASSOCIATION BETWEEN COMMONLY USED INFLAMMATORY MARKERS AND URIC ACID IN PREDIABETES; IFCC-EFLM EuroMedLab Paris 2015 Congress, **Paris, France, June 21-25, 2015.**
  28. M. Malenica, A. Causevic, M. Silar, T. Dujic, T. Bego, B. Prnjavorac, **S. Semiz**, DIAGNOSTIC RELEVANCE OF INFLAMMATORY MARKERS IN PREDIABETIC PATIENTS; IFCC-EFLM EuroMedLab Paris 2015 Congress, **Paris, France, June 21-25, 2015.**
  29. S. Mandal, A. Causevic, M. Malenica, **S. Semiz**, FREE FATTY ACIDS AND LIVER INFLAMMATION IN TYPE 2 DIABETIC WOMEN; IFCC-EFLM EuroMedLab Paris 2015 Congress, **Paris, France, June 21-25, 2015.**
  30. **Semiz, S.**, Pharmacogenomics and Personalized Treatment of Type 2 Diabetes, "Pharmacogenomics – From Research to Clinic" Workshop for university lecturers, Faculty of Medicine, University of Ljubljana, **Ljubljana, Slovenia, June 8-10, 2015. (invited speaker)**
  31. **Semiz, S.**, Cardiovascular Pharmacogenomics, "Pharmacogenomics – From Research to Clinic" Workshop for university lecturers, Faculty of Medicine, University of Ljubljana, **Ljubljana, Slovenia, June 8-10, 2015. (invited speaker)**
  32. Dujic, T., Causevic, A., Bego T., Malenica, M., Velija-Asimi, Z., Pearson, E.R., **Semiz, S.**, The OCT1 reduced-function polymorphisms are associated with metformin-induced gastrointestinal side-effects, **51st Annual Meeting of the European Association for the Study of Diabetes (EASD), Stockholm, Sweden, 14-18.09.2015.**
  33. **Semiz, S.**, Dujic, T., Velija-Asimi, Z., and Causevic, A., Pharmacogenomics of Type 2 Diabetes, The First Endocrinology and Diabetes Congress of Bosnia and Herzegovina, **Sarajevo, April 23-26, 2015. (invited speaker)**
  34. Prnjavorac, B., Abduzaimović, K., Sinanović, A., Karahmet, E., Bego, T, Dujic, T., Malenica, M., **Semiz, S.**, Čaušević, A., and Krajina, K., Importance of measurement of basal and provoked insulinemia for prescribing of insulin therapy schedules, The First Endocrinology and Diabetes Congress of Bosnia and Herzegovina, **Sarajevo, April 23-26, 2015.**
  35. Mandal, S., Causevic, A., Malenica, M., Bego, T., and **Semiz, S.**, New Biomarkers in Precise Diagnostics and Therapy of Type 2 Diabetes, The Third Congress of Pharmacists` of Bosnia and Herzegovina with international participation, **Sarajevo, May 14-17, 2015.**
  36. Malenica, M., Semiz, S., Dujic, T., Prnjavorac, B., and Causevic, A., Effects of Smoking on Leucocytes` Status in Healthy Volunteers, The Third Congress of Pharmacists` of Bosnia and Herzegovina with international participation, **Sarajevo, May 14-17, 2015.**
  37. S. Semiz, The practical issues in Type 2 diabetes management - pharmacogenomic considerations, **14th EFLM Continuous Postgraduate Course** in Clinical Chemistry and Laboratory Medicine "New trends in laboratory diagnosis and management of diabetes mellitus: Diabetes mellitus revisited 14 years after the first Dubrovnik course", **Dubrovnik, Croatia, October 25-26, 2014. (invited speaker)**
  38. **S. Semiz**, Pharmacy Future: Pharmacogenomics and Personalized Medicine, **2<sup>nd</sup> International Pharmaceutical Conference "Contemporary Developments in Pharmacy", Prizren, Kosovo, September 19-21, 2014. (invited speaker)**
  39. T. Bego, T. Dujic, **S. Semiz**, M. Malenica, and A. Causevic, Analyses of genetic variants associated with metabolic syndrome and type 2 diabetes, **2nd International Pharmaceutical Conference "Contemporary Developments in Pharmacy", Prizren, Kosovo, September 19-21, 2014.**
  40. T. Dujic, **S. Semiz**, A. Causevic, Personalized therapy in type 2 diabetes: Metformin pharmacogenomics, **2nd International Pharmaceutical Conference "Contemporary Developments in Pharmacy", Prizren, Kosovo, September 19-21, 2014.**
  41. Malenica, M., Causevic, A., Bego, T., Dujic, T., Prnjavorac, B., **Semiz, S.**, Association between body mass index and inflammatory markers in patients with T2D undergoing diet regime for diabetes, **2nd International Pharmaceutical Conference "Contemporary Developments in Pharmacy", Prizren, Kosovo, September 19-21, 2014.**
  42. **S. Semiz**, Personalized approaches to diabetes management, **CEEPUS – Summer School, organised by the CEEPUS network – Novel diagnostic and therapeutic approaches to complex genetic disorders, Portoroz, Slovenia, August 23-29, 2014.**
  43. T. Bego, T. Dujic, B. Mlinar, **S. Semiz**, M. Malenica, B. Prnjavorac, S. Mandal, B. Ostanek, J. Marc, and A. Causevic, Analysis of PPARG and LPIN1 gene variants associated with traits of metabolic syndrome and with fatty acids levels in

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  45. **S. Semiz**, T. Bego, T. Dujic, Z. Velija-Asimi, B. Prnjavorac, M. Malenica, and A. Causevic, The effect of gender on association of melatonin receptor 1B gene variation with Type 2 diabetes-related traits, **IFCC Worldlab 2014 Congress, Istanbul, Turkey, 22-26 June, 2014. (oral presentation).**
  46. T. Bego, **S. Semiz**, Z. Velija-Asimi, T. Dujic, B. Prnjavorac, and A. Causevic, Association of common KCNJ11 gene polymorphism with Type 2 diabetes in population from Bosnia and Herzegovina, **IFCC Worldlab 2014 Congress, Istanbul, Turkey, 22-26 June, 2014.**
  47. H. Maglic, **S. Semiz**, T. Bego, T. Dujic, Z. Velija-Asimi, B. Prnjavorac, and A. Causevic, Association of TCF7L2 gene variation with markers of long-term complications in Type 2 diabetes, **IFCC Worldlab 2014 Congress, Istanbul, Turkey, 22-26 June, 2014.**
  48. S. Mandal, A. Causevic, B. Prnjavorac, M. Malenica, and S. Semiz, Association of elevated free fatty acids and C-reactive protein with Type 2 diabetes, **IFCC Worldlab 2014 Congress, Istanbul, Turkey, 22-26 June, 2014.**
  49. Malenica M., Causevic A., Bego T., Dujic T., Prnjavorac B., Mandal S., and Semiz S., Association of  $\gamma$ -glutamyltransferase, aspartate aminotransferase, alanine aminotransferase and alkaline phosphatase with uric acid levels in patients with Type 2 diabetes, **IFCC Worldlab 2014 Congress, Istanbul, Turkey, 22-26 June, 2014.**
  50. **Semiz, S.**, T. Dujic, T. Bego, Z. Velija-Asimi, B. Prnjavorac, A. Causevic-Ramosevac, M. Malenica, and A. Causevic, Association of common genetic variants with markers of Type 2 diabetes in population from Bosnia and Herzegovina, **3<sup>rd</sup> International Molecular Biology and Biotechnology Congress, Sarajevo, Bosnia and Herzegovina, June 2-6, 2014.**
  51. **Semiz, S.**, Personalized treatment of Type 2 diabetes, **13th Golden Helix Pharmacogenomics Day, Sarajevo, Bosnia and Herzegovina, May 30, 2014. (invited lecture)**
  52. B Prnjavorac, A Deljkic, A Mehmedovic, A Sinanovic, R Sejdinovic, J Jukic, K Krajina, T Bego, M Malenica, T Dujic, C Adlija, **S Semiz**, L Saranovic, E Mujaric, J Mehic, J Fejzic, Use of intracutane skin test, total and specific IgE as diagnostic preparation of long term immunotherapy for asthmatic subjects, the European Academy of Allergy and Clinical Immunology Congress, **7–11 June 2014, Copenhagen, Denmark.**
  53. Prnjavorac, B., Deljkic, A., Sinanovic, A., Sejdinovic, R., Mehedovic, A., Jukić, J., Krajina, K., Šaranović, L., Irejiz, N., Kašibović, I., Bego, T., Malenica, M., Dujic, T., **Semiz, S.**, and Čaušević, A., Anaphylaxis during specific subcutaneous immunotherapy against ragweed allergen-case record. 6th Drug Hypersensitivity Meeting (DHM 6), **Bern, Switzerland. 9-12 April 2014.**
  54. **Semiz, S.**, T. Dujic, A. Causevic, Pharmacogenomics of Type 2 Diabetes, **11th Golden Helix Pharmacogenomics Day, Bled, Slovenia, October 10, 2013. (invited lecture)**
  55. **Semiz, S.**, T. Dujic, T. Bego, Z. Velija-Asimi, B. Prnjavorac, M. Malenica, and A. Causevic, Association of common genetic variants with markers of insulin resistance in Bosnian population, **10th Balkans Congress and the 2nd Alpe Adria Meeting on Human Genetics, Bled, Slovenia; October 10-12, 2013.**
  56. M. Malenica, Causevic, A., **Semiz, S.**, Dujic, T., Bego, T., Mandal S., Krzic, S., Brkovic, S., Selimagic, M., and Kristo, Application of Point of Care Sytem in Pharmacy Practice in Canton Sarajevo, **1<sup>st</sup> Symposium of Pharmacists in Canton Sarajevo, Sarajevo, Bosnia and Herzegovina, October 26-27, 2013.**
  57. Malenica, M., Causevic, A., **Semiz, S.**, Dujic, T., Bego, T., Mandal Š., Krzić S., Brković S., Selimagić M., Krišto A, Point of care systems in pharmacy care, Zenica, BH, November, 2013.
  58. **Semiz, S.**, T. Dujic, Z. Velija-Asimi, B. Prnjavorac, T. Bego, M. Malenica, A. Causevic-Ramosevac, and A. Causevic, Analysis of common genetic polymorphisms associated with dyslipidemia in type 2 diabetic patients from Bosnia and Herzegovina, **21st Meeting of the Balkan Clinical Laboratory Federation, Budva, Montenegro, September, 2013.**
  59. **S. Semiz**, T. Dujic, T. Bego, M. Malenica, Z. Velija-Asimi, B. Prnjavorac, and A. Causevic, Effects of melatonin receptor 1B gene variation on glucose control in population from Bosnia and Herzegovina, **38th FEBS Congress, July 6 – 11, 2013, St. Petersburg, Russia.**
  60. T. Dujic, **S. Semiz**, Z. Velija-Asimi, B. Prnjavorac, T. Bego, M. Malenica, A. Causevic, APOB and ABCA1 gene polymorphisms in Bosnian patients with type 2 diabetes, **38th FEBS Congress, July 6 – 11, 2013, St. Petersburg, Russia.**
  61. **S. Semiz**, M. Kosatica, T. Dujic, T. Bego, M. Malenica, A. Causevic-Ramosevac, Z. Velija-Asimi, B. Prnjavorac, and A. Causevic, Effects of CETP and TRIB1 gene variations on markers of insulin resistance and dyslipidemia in Bosnian population, **20th IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine, Milano, Italy, May 2013.**
  62. T. Bego, S. Mandal, T. Dujic, B. Mlinar, **S. Semiz**, M. Malenica, B. Prnjavorac, B. Ostanek, J. Marc, and A. A. Causevic, Association of LPIN1 gene variants with fatty acids in Bosnian population with metabolic syndrome, **20th IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine, Milano, Italy, May 2013.**
  63. M. Malenica, S. Mandal, **S. Semiz**, B. Prnjavorac, T. Bego, T. Dujic, and A. Causevic, Correlation of glucose and glycosylated hemoglobin with palmitic, stearic, and oleic acid concentrations in patients with type 2 diabetes, **20th IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine, Milano, Italy, May 2013.**
  64. Mandal, S., Causevic, A., Malenica, M., Dujic, T., Bego, T., Prnjavorac, B., and **Semiz, S.** Free fatty acids possible biomarkers in control and progression of prediabetes to type 2 diabetes, **48th EASD Annual Meeting, Berlin, Germany, 2012.**
  65. Malenica, M., Mandal, S., Causevic, A., **Semiz, S.**, Dujic, T., Bego, T., Prnjavorac B. Correlation between liver enzymes and free fatty acid levels in patients with type 2 diabetes. **37th FEBS Congress, Sevilla, Spain, 2012.**

66. Serdarevic, L. and **Semiz, S.** Effects of Thiazolidinediones on development of macrovascular complications in Type 2 Diabetes Mellitus, **International Congress of FIP, Amsterdam, Netherlands, 2012.**
67. **Semiz, S.**, Pharmacogenomics in Bosnia and Herzegovina, **6th Golden Helix Pharmacogenomics Day, Belgrade, Serbia, June 5, 2012 (invited lecture).**
68. B Prnjavorac, A Causevic, **S Semiz**, T Dujic, M Malenica, Toward to effective schedule for maintenance immunotherapy of atopic eczema with allergy to home dust, XXXI Congress of the European Academy of Allergy and Clinical Immunology, **Geneva, Switzerland, 16-20 June 2012.**
69. Besim Prnjavorac, Rifat Sejdinovic, Enes Hondo, Adlija CauÅ, **Sabina Semiz**, Maja Malenica, Tamer Bego, Tanja Dujic, Correlation of changes of IgE with skin reactivity and clinical outcome during specific immunotherapy against home dust in asthmatic subjects, 22nd Annual Congress of European Respiratory Society, **Vienna, Austria 1–5 September 2012.**
70. **Semiz, S.**, "Significance of Pharmacogenetics in Pharmacokinetics and Drug Action", Workshop in Applied Pharmacokinetics, Sarajevo, December 10, 2011.
71. Gradasevic-Gubaljevic, J. and **Semiz, S.**, Pharmacogenetics of Clopidogrel, **Second Congress of Pharmacists of Bosnia and Herzegovina with International Participation, Banja Luka, November 17-20, 2011.**
72. Dujic, T., Bego, T., Mlinar, B., **Semiz, S.**, Malenica, M., Prnjavorac, B., Ostanek, B., Marc, J., and Causevic, A., PPARG Polymorphisms and their Association with Markers of Obesity and Metabolic Syndrome, **Second Congress of Pharmacists of Bosnia and Herzegovina with International Participation, Banja Luka, November 17-20, 2011.**
73. Bego, T., Dujic, T., Mlinar, B., **Semiz, S.**, Malenica, M., Prnjavorac, B., Ostanek, B., Marc, J., and Causevic, A., Association of PPARG and LPIN1 Gene Polymorphisms with Type 2 Diabetes, **Second Congress of Pharmacists of Bosnia and Herzegovina with International Participation, Banja Luka, November 17-20, 2011.**
74. Malenica, M., Causevic, A., **Semiz, S.**, Dujic, T., Bego, T., Mandal, S., and Prnjavorac, B., Aminotransferases (AST & ALT) as Potential Biomarkers in Type 2 Diabetes, **Second Congress of Pharmacists of Bosnia and Herzegovina with International Participation, Banja Luka, November 17-20, 2011.**
75. Mandal, S., Causevic, A., Malenica, M., **Semiz, S.** And Prnjavorac, B., Age Differences in Levels of Free Fatty Acids in Type 2 Diabetic Patients, **Second Congress of Pharmacists of Bosnia and Herzegovina with International Participation, Banja Luka, November 17-20, 2011.**
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79. Malenica-Grgic M., Mandal, S., **Semiz, S.**, Prnjavorac, B., Bego T., Dujic, T., and Causevic, A., Correlation Between Liver Enzymes and Lipid Levels in Patients with Type 2 Diabetes, 36th FEBS Congress "Biochemistry for Tomorrow's Medicine", **Torino, Italy, 25-30 June 2011.**
80. **Semiz, S.**, Dujic, T., Bego, T., Ostanek, B., Velija-Asimi, Z., Prnjavorac, B., Malenica, M., Mlinar, B., Marc, J., and Causevic, A. Genetic Variations of Drug-metabolizing Enzymes in Population from Bosnia and Herzegovina, the Seventh ISABS Conference on Forensic, Anthropologic and Medical Genetics, Bol, Island of **Brac, Croatia, June 20-24, 2011.**
81. Bego, T., Dujic, T., Mlinar, B., **Semiz, S.**, Malenica, M., Prnjavorac, B., Ostanek, B., Marc, J., and Causevic, Analysis of PPARG Gene Polymorphisms in Patients with Metabolic Syndrome and Type 2 Diabetes from Bosnia and Herzegovina, 36th FEBS Congress "Biochemistry for Tomorrow's Medicine", **Torino, Italy, 25-30 June 2011.**
82. Causevic, A., **Semiz, S.**, Malenica, M., Dujic, T., Bego, T., and Djankovic-Macic, A. Diagnostic Relevance of urine and serum uric acid in progression of Type 2 diabetes mellitus – therapy and gender differences, IFCC (International Federation of Clinical Chemistry and Laboratory Medicine) Congress, **Berlin, Germany, 15-19 May, 2011.**
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87. Dujic, T., Bego, T., Mlinar, B., **Semiz, S.**, Malenica, M., Prnjavorac, B., Ostanek, B., Marc, J., and Causevic, A., Analysis of HSD11B1 Gene Polymorphisms in Patients with Metabolic Syndrome , 1<sup>st</sup> Symposium of Geneticists in Bosnia and Herzegovina, Sarajevo, February 17-18, 2011.
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91. LejlaSerdarevic, **Sabina Semiz**, IS CINNAMON BENEFICIAL FOR GLYCEMIC CONTROL IN TYPE 2 DIABETIC PATIENTS?, 70<sup>th</sup> International Congress of FIP, Lisbon, Portugal, August 28-September 2, 2010.
92. Maja Malenica, **Sabina Semiz**, BesimPrnjavorac, Tamer Bego, TanjaDujic, AdlijaCausevic, DIAGNOSTIC RELEVANCE OF LIVER ENZYMES IN PROGRESSION OF CONTROLLED TYPE 2 DIABETES MELLITUS.70<sup>th</sup> International Congress of FIP, Lisbon, Portugal, August 28-September 2, 2010.
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100. Causevic, A., Djankovic, A., **Semiz, S.**, Malenica, M. and Tuka, M. THE EFFECTS OF SHORT-TERM ROSIGLITASONE TREATMENT ON GLYCEMIC CONTROL IN DIABETIC AND PREDIABETIC PATIENTS WITH METABOLIC SYNDROME, 69th International Congress of FIP, September 2009, **Istanbul, Turkey.**
101. **Semiz, S.**, Causevic, J.A., Malenica, M., Cico, B., and Dujic, T., Effects of Type of Diabetes on Potassium and Calcium Levels in Serum of Elderly Patients, 34th FEBS Congress, July 4-9, 2009, **Prague, Czech Republic.**
102. Causevic, J.A., Dujic, T., **Semiz, S.**, Bego, T. and Malenica, M. The Effects of Ceftriaxone and Diclofenac on Viability and Proliferation of Lymphocytes Isolated from Diabetic Patients, 34th FEBS Congress, July 4-9, 2009, **Prague, Czech Republic.**
103. Causevic, J.A., **Semiz, S.**, Malenica, M., Bego, T., Prnjavorac and Dujic, T., Activities of liver enzymes in prediabetes group of patients followed through one year period, sex and age differences, 18th IFCC-FESCC European Congress of Clinical Chemistry and Laboratory Medicine, June 7 – 11, 2009, **Innsbruck, Austria.**
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107. **Semiz, S.**, Causevic, J.A., Malenica, M., Dujic, T., and Bego, T., Drug-induced Hypertension, Third Pharmacy Symposium FBiH, Sarajevo, Dec. 11-14, 2008.
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