

**COMMITTEE FOR PREPARATION OF PROPOSALS FOR APPOINTMENT
INTO ACADEMIC TITLE OF SCIENTIFIC FIELD OF "BIOLOGICAL SCIENCES"**

Date: 23.10.2017.

Number: IUS FENS-06-2939/2017

INTERNATIONAL UNIVERSITY OF SARAJEVO

Faculty of Engineering and Natural Sciences

Pursuant to Article 107, paragraph (3) of the Law on Higher Education ("Official Gazette of Sarajevo Canton" 33/2017) and based on the Decision of the Council of the Faculty of Engineering and Natural Sciences, number: IUS-FENS 06-2837/17 dated October 5, 2017, acting in accordance with the submitted Confirmation Certificate by Administrative Service No. IUS-FENS 06-2781-1/17 (attached to this Report), the Committee for preparation of proposals for the appointment to academic titles composed of:

1. Prof. Dr. Adlija Čaušević, professor at the Faculty of Pharmacy of the University of Sarajevo – appointed for the scientific field of Clinical Biochemistry (chairman),
2. Prof. Dr. Ahmet Yildirim, professor at the Faculty of Engineering and Natural Sciences of the International University of Sarajevo - appointed for the scientific field of Biological Sciences (member)
3. Prof. Dr. Kasim Bajrović, professor at the Faculty of Mathematics and Natural Sciences of University of Sarajevo - appointed for the scientific field of Genetics and Biotechnology (member).

Evaluated application of Dr. Sabina Semiz for the appointment into position of Full Professor in the field of Biological Sciences as the only application received to the public vacancy announcement published in newspaper Dnevni Avaz on September 21, 2017, and submits the following

**REPORT
(detailed)**

Applicant's name: SABINA SEMIZ per her application for appointment into academic title of Full Professor

Dr. Sabina Semiz was born in Sarajevo in 1965. She received her PhD degree at the Faculty of Pharmaceutical Sciences, the University of British Columbia in Canada in 2001. From 2001 till 2005, Dr. Semiz did her postdoctoral training at the Program in Molecular Medicine of the University of Massachusetts' Medical School, USA.

Dr. Sabina Semiz's first academic appointment was in 1988 to the rank of Assistant at Faculty of Pharmacy at University of Sarajevo and she also worked as teaching assistant from 1995 till 2001 at the Faculty of Pharmaceutical Sciences of the University of British Columbia in Canada. Dr. Semiz continued her academic career in Bosnia with the appointment to the Assistant Professor for the course Drug Metabolism in 2007. Parallel with her work as Assistant Professor, Dr. Semiz also worked as a visiting assistant professor at the Faculty of Pharmacy, University of Tuzla from 2008 till 2009 and periodically as visiting associate professor at Faculty of Engineering and Natural Sciences, International University of Sarajevo from 2008 till 2012.

Dr. Sabina Semiz was appointed to the rank of Associate Professor for the course Drug Metabolism at the Faculty of Pharmacy of the University of Sarajevo in 2012 and latter on appointed to the same rank for the scientific area of Biological Sciences at Faculty of Engineering and Natural Sciences at the International University of Sarajevo.

Since her appointment to associate professor rank, Dr. Semiz has published two books and respectable number of scientific publications in international journals. She has successfully mentored PhD and MA students and she was involved in work of a number of projects either as project leader or as project participant, as stated in this report. She is member of various professional and scientific panels and committees and she speaks and writes in English fluently.

A. EDUCATION

| | | |
|-------------------------------|---|------|
| PhD | University of British Columbia Faculty of Pharmaceutical Sciences, Vancouver, Canada | 2001 |
| Master of Science in Pharmacy | Faculty of Pharmacy, University of Sarajevo, Sarajevo, Bosnia and Herzegovina | 1993 |
| Bachelor of Science | Faculty of Pharmacy, University of Sarajevo, Sarajevo, Bosnia and Herzegovina | 1988 |

B. ACADEMIC APPOINTMENT RECORDS

| | |
|-------------------------------|---|
| February 2015 – present | Associate Professor at Genetics and Bioengineering Program International University of Sarajevo, Faculty of Engineering and Natural Sciences, Sarajevo, Bosnia and Herzegovina |
| 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 |
| July 2007 – October 2012 | Assistant Professor in Drug Metabolism, Department of Biochemistry and Clinical Analysis, Faculty of Pharmacy, University of Sarajevo |

1988 - 1995

Assistant, Department of Biochemistry and Clinical Analysis,
Faculty of Pharmacy, University of Sarajevo, Sarajevo, Bosnia
and Herzegovina

C. LIST OF SCIENTIFIC AND OTHER PUBLICATIONS – AFTER APPOINTMENT TO ASSOCIATE PROFESSOR

C. 1. BOOKS

1. Semiz S. Type 2 Diabetes: From Genes to Prognosis and Therapy, University Book, International University of Sarajevo, 2016.

ISBN 978-9958-896-22-4

Reviewers:

Kasim Bajrovic, PhD, University of Sarajevo

Sonja Pavlovic, PhD, University of Belgrade

2. Semiz S. Personalized Therapy of Type 2 Diabetes, University Book, International University of Sarajevo, 2016.

ISBN 978-9958-896-23-1

Reviewers:

Zelija Velija-Asimi, MD, PhD, University of Sarajevo

Adlija Causevic, PhD, University of Sarajevo

C. 2. JOURNAL PUBLICATIONS

1. 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**, Aug 28, 2017.
2. 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.
3. 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.
4. 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, **FEBS J**, 284: 329, 2017.
5. Tanja Dujic, Kaixin Zhou, SookWah Yee, Nienke van Leeuwen, Catherine E. de Keyser, Martin Javorský, Srijib Goswami, Linda Zaharenko, Mette Marie H. Christensen¹, 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.
6. 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.
 7. 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.
 8. 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.
 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, Proceedings of the International Conference on Medical and Biological Engineering 2017, Springer, 781-786, 2017.
 10. 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.
 11. Zelija Vellija-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.
 12. 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. Hedderon, 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.
 13. **S. Semiz**, T. Dujic, Z. Vellija-Asimi, and A. Causevic, Pharmacogenomics of membrane transporters and metformin response in Type 2 diabetic patients, *European Journal of Human Genetics*, 2016.
 14. 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.
 15. Dujic, T., Causevic, A., Bego T., Malenica, M., Vellija-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.
 16. 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.
 17. 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.
 18. 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.
19. Semiz, S., The practical issues in Type 2 diabetes management – pharmacogenomic considerations, *Biochemia Medica*, 24 (S1), S53-S56, 2014.
 20. 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.
 21. 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.
 22. Semiz, S., Dujic, T. and Čausevic, A. Pharmacogenetics and personalized treatment of type 2 diabetes, *Biochemia Medica*, 23(2), 154-171, 2013.
 23. 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.
 24. 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, *The FEBS Journal*, 283 (S1), Sept. 2016.
 25. 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, *The FEBS Journal*, 283 (S1), Sept. 2016.
 26. Hamad, N., Bego, T., Causevic, A., Halilovic, L., Velija Asimi Z., Semiz, S., Effects of *FADRA2A* genetic variants on Type 2 diabetes-related traits, *The FEBS Journal*, 283 (S1), Sept. 2016.
 27. 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, *The FEBS Journal*, 283 (S1), Sept. 2016.
 28. 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, *The FEBS Journal*, 283 (S1), Sept. 2016.
 29. 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 and Kosovo, *The FEBS Journal*, 283 (S1), Sept. 2016.
 30. M. Malenica, M. Silar, T. Dujic, T. Bego, S. Semiz, B. Prnjavorac, A. Causevic, Diagnostic relevance of inflammatory markers in female patients with Type 2 diabetes mellitus, *The FEBS Journal*, 283 (S1), Sept. 2016.
 31. 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, *Diabetologia* 58(Suppl.1), S110, 2015.
 32. 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?, *Clinical Chemistry and Laboratory Medicine*, 53, S1, S650, June 2015.

33. 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, *Clinical Chemistry and Laboratory Medicine*, 53, S1, S605, June 2015.
34. M. Malenica, A. Causevic, M. Silar, T. Dujic, T. Bego, B. Prnjavorac, S. Semiz, DIAGNOSTIC RELEVANCE OF INFLAMMATORY MARKERS IN PREDIABETIC PATIENTS, *Clinical Chemistry and Laboratory Medicine*, 53, S1, S646, June 2015.
35. S. Mandal, A. Causevic, M. Malenica, S. Semiz, FREE FATTY ACIDS AND LIVER INFLAMMATION IN TYPE 2 DIABETIC WOMEN, *Clinical Chemistry and Laboratory Medicine*, 53, S1, S647, June 2015.
36. 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, *Clinical Chemistry and Laboratory Medicine* 52, S153, July 2014.
37. T. Bego, S. Semiz, Z. Velija-Asimi, T. Dujic, B. Prnjavorac, A. Causevic, ASSOCIATION OF COMMON KCNJ11 GENE POLYMORPHISM WITH TYPE 2 DIABETES IN POPULATION FROM BOSNIA AND HERZEGOVINA; *Clinical Chemistry and Laboratory Medicine* 52, S645, July 2014.
38. H. Maglic, S. Semiz, T. Bego, T. Dujic, Z. Velija-Asimi, B. Prnjavorac, A. Causevic, ASSOCIATION OF TCF7L2 GENE VARIATION WITH MARKERS OF LONG-TERM COMPLICATIONS IN TYPE 2 DIABETES; *Clinical Chemistry and Laboratory Medicine* 52, S683, July 2014.
39. M. Malenica, A. Causevic, T. Bego, T. Dujic, B. Prnjavorac, S. Mandal, S. Semiz, THE ASSOCIATION BETWEEN α -GLUTAMYLTRANSFERASE, ASPARTATE AMINOTRANSFERASE, ALANINE AMINOTRANSFERASE AND ALKALINE PHOSPHATASE AND URIC ACID IN PATIENTS WITH TYPE 2 DIABETES MELLITUS; *Clinical Chemistry and Laboratory Medicine* 52, S685, July 2014. *Clinical Chemistry and Laboratory Medicine* 52, S686, July 2014.
40. S. Mandal, A. Causevic, M. Malenica, B. Prnjavorac, S. Semiz, ASSOCIATION OF ELEVATED FREE FATTY ACIDS AND C-REACTIVE PROTEIN IN TYPE 2 DIABETIC PATIENTS, *Clinical Chemistry and Laboratory Medicine* 52, S687, July 2014.
41. 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, *Allergy*, 69, 334-335, 2014.
42. Prnjavorac, B., Deljkic, A., Sinanovic, A., Sejdinovic, R., Mehmedovic, A., Jukic, 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. *Clinical and Translational Allergy*, 4 (3), p75, 2014.
43. 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, *The FEBS Journal*, 280, 2013.
44. 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, *The FEBS Journal*, 280, 2013.
45. B. Prnjavorac, R. Sejdinovic, A. Deljkic, D. Avdic, A. Sinanovic, A. Causevic, S. Semiz, T. Dujic, T. Bego, M. Malenica, S. Semiz, Comparison of effect of subcutaneous immunotherapy with single or multiple allergens given in the same time, *ALLERGY*, 68, 549, 2013.

45. S. Semiz, M. Kosatica, T. Dujic, T. Bego, M. Malenica, A. Causevic-Ramosevac, Z. Vellja-Asimi, B. Prnjavorac, and A. Causevic, Effects of CETP and TRIB1 gene variations on markers of insulin resistance and dyslipidemia in Bosnian population, *Biochimica Clinica*, 37, 5578, 2013.
47. 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, *Biochimica Clinica*, 37, S591, 2013.
48. 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, *Biochimica Clinica*, 37, S591, 2013.

C. 3. CONFERENCE 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, 42nd 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, 42nd 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, 5th 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, 12th 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.

- 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 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, **41st 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, **41st FEBS (the Federation of European Biochemical Societies) Congress, Kuşadası, Turkey, September 03-08, 2016.**
 15. Hamad, N., Bego, T., Causevic, A., Halilovic, L., Velija Asimi Z., Semiz, S., Effects of ADRA2A genetic variants on Type 2 diabetes-related traits, **41st FEBS (the Federation of European Biochemical Societies) Congress, Kuşadası, Turkey, September 03-08, 2016.**
 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, **41st 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, **41st 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 and Kosovo, **41st FEBS (the Federation of European Biochemical Societies) Congress, Kuşadası, Turkey, September 03-08, 2016.**
 19. M. Malenica, M. Silar, T. Dujic, T. Bego, S. Semiz, B. Prnjavorac, A. Causevic, Diagnostic relevance of inflammatory markers in female patients with Type 2 diabetes mellitus, **41st FEBS (the Federation of European Biochemical Societies) Congress, Kuşadası, Turkey, September 03-08, 2016.**
 20. J. Liu, S. Semiz, S. van der Lee, A. van der Spek, K. W. van Dijk, A. Demirkan, C.M. van Duijn, Metabolomics Prediction of Future Type 2 Diabetes, 40th Anniversary of the Dutch Epidemiology Conference, **Wageningen, Netherland, June 16-17, 2016.**
 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
BH, 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.

- 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, **2nd 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 Bosnian population, **CEEPUS – Summer School, organised by the CEEPUS network – Novel diagnostic and therapeutic approaches to complex genetic disorders, Portoroz, Slovenia, August 23-29, 2014.**
 44. Muhic, K., Kovacevic, D., Semiz, S., Causevic, A. The effect of CYP2C19 polymorphisms on the risk of diabetic retinopathy, **CEEPUS – Summer School, organised by the CEEPUS network – Novel diagnostic and therapeutic approaches to complex genetic disorders, Portoroz, Slovenia, August 23-29, 2014.**
 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 γ -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, **3rd 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., Jukic, J., Krajina, K., Šaranovic, L., Irejiz, N., Kašibovic, 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, **1st 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.**

D. PROJECTS – AFTER APPOINTMENT TO ASSOCIATE PROFESSOR

D.1. INVOLVED AS PROJECT LEADER

1. Project 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.**
2. Project 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.**
3. Project 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.**
4. Project grant for EU-FP7 project preparation by the Council of Ministers BH, **"Personalized Therapy of Type 2 Diabetes Through European Research Network", 2013-2014.**
5. 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.**

D.2. INVOLVED AS PROJECT PARTICIPANT

1. **The International Metformin Genetics (MetGen) Consortium, 2014 – present**
2. **"Citizen's Health through public-private Initiatives: Public health, Market and Ethical perspectives (CHIP ME)" COST Action, European Commission, 2013-2017.**
3. **"The Pharmacogenetics for Every Nation Initiative (PGENI)", The Golden Helix Institute of Biomedical Research, Athens, Greece, 2012 – present.**

4. Central European Exchange Program for University Studies (CEEPUS) Project: "Novel diagnostic and therapeutic approaches to complex genetic disorders", 2012-Present.

E. MENTORSHIPS – AFTER APPOINTMENT TO ASSOCIATE PROFESSOR

E.1. MENTORSHIP OF DOCTORAL STUDENT

1. Anida Causevic Ramosevac, „Analysis of genetic polymorphisms associated with dyslipidemia and Type 2 Diabetes" 2016

E.2. MENTORSHIP OF MASTER STUDENTS

1. Lejla Halilovic, "Analysis of IRS1 Genetic Variations in Type 2 Diabetic Patients from Bosnia and Herzegovina" 2016
2. Nour Hamad, "Genetic Variations of ADRA2A in Type 2 Diabetes" 2016

F. INTRODUCTORY LECTURE

Dr. Sabina Semiz does not need to deliver introductory lecture since she actively participated in the realization of the lecturing process at higher education institutions

G - PROPOSAL AND RATIONALE

Based on the above respectable biography, in accordance with the Law on Higher Education of Sarajevo Canton ("Official Gazette of Sarajevo Canton" No: 33/2017), we are pleased to propose to the Council of the Faculty of Engineering and Natural Sciences to appoint Dr. Sabina Semiz to the academic title of FULL PROFESSOR in the scientific field of "Biological Sciences", at the Faculty of Engineering and Natural Sciences of the International University of Sarajevo.

COMMITTEE

1. Prof. Dr. Adlija Čaušević (chairman)



2. Prof. Dr. Ahmet Yildirim (member)



3. Prof. Dr. Kasim Bajrović (member)


