

CURRICULUM VITAE

PERSONAL DATA



Name: Emilija Sukarova Stefanovska
Date of birth: June 17, 1966
Nationality: Macedonian
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EDUCATION

1984-1989	Faculty of Pharmacy University "St. Cyril and Methodius" Skopje, Republic of Macedonia	BSc	Graduated pharmacist
1992-1996	Faculty of Pharmacy University "St. Cyril and Methodius" Skopje, Republic of Macedonia	MSc	Clinical biochemistry
1997-2002	Faculty of Pharmacy University "St. Cyril and Methodius" Skopje, Republic of Macedonia	PhD	Medical Genetics

POSITION AND EMPLOYMENT

1989-present	Research Centre for Genetic Engineering and Biotechnology (RCGEB), Macedonian Academy of Sciences and Arts (MASA), Skopje, Republic of Macedonia
<u>Positions:</u>	
1990-1997	Young Assistant
1997-2003	Assistant
2003-2010	Assistant professor
2010-present	Associate professor
	RCGEB, MASA, Skopje, Republic of Macedonia

FIELDS OF INTEREST

Medical Genetics; Human genetics; Molecular biology; Hemophilia A; Inherited Deafness; Mental Retardation

HONORS

2007-present	Member of Macedonian Society of Human Genetics
2008-present	Member of European Society of Human Genetics
2011-present	Member of Macedonian Society of Biochemistry and Molecular Biology
2007-2008	Member of the Expert group of the Ministry for Environment and Physical Planning in preparation of National Regulative and Law for GMO
2009	Member of the UNEP/GEF Working Group in strengthening the National capacities and effective participation of MK institutions in Clearing's house of Biosafety
2010-present	Editorial Assistant of the Balkan Journal of Medical Genetics

TRAINING COURSES

1. Advanced GMO testing in food, application of DNA methods for qualitative and quantitative detection of GMO in food, 2008, Vienna, Austria;
2. EuroGentest workshop on: "Accreditation for beginners, how to implement ISO 15189?", 23-24 February, 2012, Istanbul, R. Macedonia

PARTICIPATION IN EDUCATION

1998-2003 Participation in practical courses within the Interdisciplinary postgraduate studies in molecular biology at the University "Ss Cyril and Methodius", Skopje;

Participation in the practical courses of the Postgraduate studies in molecular biology of Faculties of Medicine, Biology, and Biotechnology, University "Ss Cyril and Methodius", Skopje

Participation in the organization and performance of International theoretical/practical workshops in the RCGB, MASA:

1. "FEBS Advanced Course on Application of Recombinant DNA Technology in Human Medicine", 14-26.09.1992
2. "ICGEB Affiliated Centre Course on Nucleic Acids Methods in Human and Veterinary Medicine", 25-30.05.1998
3. "FEBS Advanced Course on PCR based methods in the detection and characterization of inherited, infectious and malignant diseases", 27.09-02.10.1999
4. "1st Genomics and Proteomics Workshop", Skopje, November 2010
5. "2nd Genomics and Proteomics Workshop", Skopje, July 2011
6. "3rd Genomics and Proteomics Workshop", Skopje, March 2012

RESEARCH SUPPORT

Participant:

The application of genetic engineering in the study of the molecular basis of inherited diseases 1992-1994
Ministry of Science of the R. Macedonia;

Study of the molecular basis of the diseases in the population of the R. Macedonia 1995-1997
Ministry of Science of the R. Macedonia;

Chlamidia trachomatis infection among sexually active population in R. Macedonia <i>Macedonian-American Scientific Fund;</i>	1997-1999
Molecular basis of the diseases in the population of Republic of Macedonia <i>Ministry of Science of the R. Macedonia;</i>	1998-2000
HPV infection and specific chromosomal disorders in the ethiopathogenesis of cervical cancer <i>Macedonian Academy of Sciences and Arts;</i>	1998-2002
Prenatal diagnosis of the most common chromosomal abnormalities by quantitative fluorescent PCR method <i>Ministry of Education and Science, Republic of Macedonia;</i>	2002-2003
Molecular basis of hemochromatosis in Republic of Macedonia <i>Macedonian Academy of Sciences and Arts;</i>	2002-2003
Genetic testing in Central and Eastern European countries: public and physicians' awareness – pilot project <i>UNESCO-ROSTE;</i>	2004-2005
Molecular basis of nonsyndromic deafness in Republic of Macedonia <i>Macedonian Academy of Sciences and Arts;</i>	2006-2012
National Reference Centre for Genomics and Proteomics <i>European Commission (FP7 programme, scheme REGPOT-2008-1)</i>	2009-2012
Cobalt compounds – New insights into regulation of iron metabolism Bilateral cooperation with Bulgaria; <i>Ministry of Education and Science, Republic of Macedonia;</i>	2011-2013

Principal investigator submissions:

The role of modifier genes in the phenotypic expression of hearing loss associated with GJB2 mutations
Ministry of Education and Science, Republic of Macedonia;

Detection of minor chromosome dysbalances in patients with mental retardation using array comparative genomic hybridization (aCGH)
Ministry of Education and Science, Republic of Macedonia

PUBLICATIONS

1. Plaseska D., Dimovski A., Jankovik L., **Sukarova E.**, Efremov G.D., Gebauer E., Jerance D. *Hb Hoshida (β 43(CD2)Glu-Gln) observed in a Yugoslavian family.* Hemoglobin 15:553-555, 1991
2. Jankovik L., Dimovski A., **Sukarova E.**, Juricic D. and Efremov G.D. *A new mutation in the β globin gene (IVS-II-850 G-C) found in a Yugoslavian β -thalassemia heterozygote.* Hematologica, 76:638-643, 1991.
3. Efremov G.D., Dimovski A., Efremov D.G., Plaseska D., Jankovic L., Petreska L., **Sukarova E.** and Koceva S. *Recombinant DNA technology, A Laboratory Manual.* ICGEB, MASA, Skopje 1992.
4. Efremov D.G., Dimovski A.J., **Sukarova E.**, Schiliro G., Zisovski N., Efremov G.D., Burrone O.R., and Huisman T.H.J. *γ -mRNA and HbF levels in β -thalassemia.* Brit. J. Haematol., 88:311-317, 1994.
5. **Sukarova E.**, Spirovska-Milenkovic T., i Efremov G.D. *Mikrokolonska hromatografija za odreduvanje na glikoziliran hemoglobin.* Makedonski medicinski pregled, 47:78-81, 1994.
6. **Sukarova E.**, Cepreganova-Krstic B., and Efremov G.D. *Evaluation of the methods for quantification of glycosylated hemoglobin.* Prilozi, MANU (Contributions, MASA), 14:43-52, 1995.

7. Efremov G.D., Dimovski A.J., Popovski Z., Janeva S., Plaseska D., Simjanovska L., **Sukarova E.**, Momirovska A., Lazarevski M., Kuljan R. *The γ -globin gene rearrangements in newborns from Republic of Macedonia*. Hemoglobin, 20(4), 401-414, 1996
8. Efremov GD, Dimovski AJ, Plaseska-Karanfilska D, Simjanovska L, **Sukarova E**, Koceva S, Popovski ZT. *Nucleic Acids Based Methods in Human and Veterinary Medicine, A Laboratory Manual, 2nd Edition*; MANU, 1998
9. Efremov GD, Dimovski AJ, Plaseska-Karanfilska D, Simjanovska L, **Sukarova E**, Koceva S. *PCR based methods in the detection and characterization of inherited, infectious and malignant diseases, A Laboratory Manual, 3rd Edition* MANU, 1999
10. **Sukarova E.**, Dimovski A., Petkov G., Tchakarova E., Efremov G.D. *An Alu insert as a cause of severe form of hemophilia A*. Acta Haematologica 184, 2001.
11. **Sukarova-Stefanovska E.**, Muratovska O., Zisovski N., Kostova S., Efremov G.D. *Three novel missense mutations causing hemophilia A*. Haemophilia, 8: 715-718, 2002.
12. **Sukarova-Stefanovska E.**, Zisovski N., Muratovska O., Kostova S., Efremov G.D. *Molecular characterization of hemophilia A in the Republic of Macedonia*. BJMG, 5 (3&4), 27-35, 2002
13. **Sukarova Stefanovska E.**, Dejanova V., Tchakarova P., Petkov G., Efremov G.D. *Genetic Inversions among Hemophilia A patients from Macedonia and Bulgaria*. Acta Haematologica 120:192-194, 2008
14. **Sukarova Stefanovska E.**, Tchakarova P., Petkov G., Efremov G.D. *Molecular characterization of Hemophilia A in Southeast Bulgaria*. BJMG 11(1), 2008
15. **Sukarova Stefanovska E.**, Momirovska, A., Cakar M., Efremov G.D. *GJB2 Mutations In Non-Syndromic Hearing Loss In R. Macedonia*, BJMG, 2009
16. Gucev Z., Ristoska-Bojkovska N., Popovska-Jankovic K., **Sukarova-Stefanovska E.**, Tasic V., Plaseska-Karanfilska D., Efremov G.D. *Cystinuria AA (B): digenic inheritance with three mutations in two cystinuria genes*. Journal of Genetics 90 (1), 2011
16. **Sukarova Stefanovska E.**, Cakar M., Filipce I., Plaseska Karanfilska D. *Genetics of nonsyndromic hearing loss in the Republic of Macedonia*. BJMG, 15, Suppl., 2012
17. Madjunkova S, **Sukarova-Stefanovska E**, Kocheva S, Maleva I, Noveski P, Kiprijanovska S, Stankova K, Dimcev P, Madjunkov M, Plaseska-Karanfilska D. *Rapid and non invasive prenatal diagnosis*, BJMG, 15, Suppl., 2012
18. Kiprijanovska S, **Sukarova-Stefanovska E**, Noveski P, Chalovska V, Polenakovic M, Plaseska-Karanfilska D. *Study of the Hepatitis C virus in the Republic of Macedonia* BJMG, 15, Suppl., 2012

SCIENTIFIC MEETINGS

1. Zisovski N., Dimovski A., Efremov D., Jankovic L., **Sukarova E.**, Juricic D., Stojanovski N., Nikolov N., Petkov G., Bunjevacki G., Janic D., Stoimirovic E., Muratovska O., Glamocanin S. and Efremov G.D. *Genotip-Fenotip korelacija kaj beta talasemija*. VI Kongres na hematolozi i transfuziolozi na Jugoslavija. Zagreb, 7-10.X.1990.
2. Simeska S., Josifovska O., Jankovic L., Dimovski A., Efremov D.G., **Sukarova E.**, Duma A. i Efremov G.D. *DNK markeri u humanoju medicini*. XXII Memorijalni sastanak Prof. J.Plecnika, Ljubljana, 12-13. Dekemvri, 1991.
3. Efremov D.G., Dimovski A., Ivanovski M., **Sukarova E.**, Pejcin D., Siljanovski N. i Efremov G.D. *Molekularna osnova i dijagnostika hematoloskih neoplazmi*. Ibidem.
4. Petreska L., Koceva S., Jankovic L., **Sukarova E.** i Efremov G.D. *Prenatalna dijagnoza na monogeniski bolesti*. I Kongres na medicinske biohemikari na R.Makedonija, Ohrid, 13-15.X.1993
5. **Sukarova E.**, Cepreganova-Krstic B., Efremov G.D. *Mikrokolonska hromatografija za odreduvanje na glikoziliran hemoglobin*. Ibidem.
6. Jankovic L., Dimovski A., Efremov D., **Sukarova E.**, Zisovski N. i Efremov G.D. *Molekularnata osnova na β -talasemija intermedija vo Makedonija*. VII Kongres na Pedijatrije na Makedonija, Struga, 8-10.VI.1994.

7. *Plaseska D., Sukarova E. and Efremov G.D.* DNA methods for characterization of hemoglobin variants. IInd Balkan Clinical Laboratory Meeting, Istanbul, Turkey, September 21-24, 1994.
8. *Sukarova E. and Efremov G.D.* Molecular characterization of hemophilia A in Republic of Macedonia. Third Meeting of the Balkan Clinical Laboratory Federation, Struga, October 5-7, 1995.
9. *Efremov G.D., Dimovski A.J., Plaseska D., Sukarova E., Momirovska A., Jankovic I., Popovski Z., Lazarevski M., Kuljan R.* γ -globin gene rearrangements among Macedonian newborns. XIIIth Meeting of the society of Hematology, Istanbul, Turkey, September 3-8, 1995.
10. *Sukarova E., Sikole A., Polenakovik M., Efremov G.D.* HCV kaj pacienti na hemodijaliza: Molekularna karakterizacija. I Kongres na mikrobiolozite na Makedonija, Ohrid, 14-17 Maj, 1997.
11. *Koceva S., Petreska L., Jankovic L., Sukarova E., Dzikov Z., Efremov G.D.* Prenatal diagnosis of chromosomal abnormalities and monogenic diseases in Republic of Macedonia. II PECO Euchromic Congress, Budapest, Hungary, 1-4.VI. 1997.
12. *Sukarova E., Dejanov I., Zisovski N. and Efremov G.D.* Molecular characterization of hemophilia A in Republic of Macedonia. 15th International Congress of thrombosis, Anthalia, Turkiye, Oct. 20, 1998.
13. *Sukarova E., Amitov V., Polenakovic M., Sumanov G., Serafimovski V. and Efremov G.D.* Molecular epidemiology of hepatitis C virus in Republic of Macedonia. Second Balkan Congress of Microbiology, Plovdiv, Bulgaria, Oct 5-8, 1999.
14. *Spasovski M., Sukarova E., Jankovic L., Efremov G.D.* Chlamidia trachomatis infection among sexually active population in Republic of Macedonia. Ibidem
15. *Sukarova E., Dimovski J.A., Petkov G., Tchacarova E., Efremov D.G.* An Alu insert as a cause of severe form of hemophilia A. American Society of Haematology, San Francisco 2-9 December, 2000.
16. *Sukarova-Stefanovska E., Tschakarova H., Petkov G., Efremov G.D.* Inversion in intron 22 among hemophilia A patients from Republic of Bulgaria. II Balkan meeting of molecular medicine, Sophia, 5-7 September 2002.
17. *Polenakovic M., Simjanovska L., Sukarova E., Amitov V., Grozdanovski R., Efremov G.D.* Prevalence and molecular characteristics of Hepatitis C virus infection among the population in the Republic of Macedonia and its patients on maintenance hemodialysis. XLI Congress of European Renal Association, Lisbon, Portugal, p. 281, MP 153, 2004.
18. *Sukarova-Stefanovska E., Muratovska O., Petkov G., Efremov G.D.* Three new mutations in the factor VIII gene. European Human Genetic Conference, Amsterdam, The Netherlands, 2006.
19. *Momirovska A., Sukarova Stefanovska E., Efremov G.D.* Connexin 26 mutations in non-syndromic deafness in Republic of Macedonia. 7th Balkan Meeting on Human Genetics, Skopje, R. Macedonia, 2006, Balkan J. Med. Genetics, Supplement 9(3&4):115, 2006, PP150.
20. *Sukarova Stefanovska E., Tchacarova P., Petkov G.H., Efremov G.D.* Molecular characterization of hemophilia a in South east Bulgaria, European Human Genetic Conference, Nice, France, 2007
21. *Sukarova Stefanovska E., Bojadzievska M., Dejanova V., Tchakarova P., Petkov G., Efremov G.D.* Frequency of factor VIII intron-1 inversion among hemophilia A pateints from Republic of Macedonia and Republic of Bulgaria. European Human Genetics Conference, May 31 - June 03, 2008, Barcelona Spain
22. *Efremov G.D., Sukarova Stefanovska E.* Molecular Basis of Nonsyndromic Hereditary deafness", vovedno predavawe, 2nd Macedonian Congress of Oto-Rhino-Laryngology, October 01-03, 2008; Ohrid, Macedonia
23. *Sukarova Stefanovska E., Glamocanin S., Petkov G., Efremov G.* Three new mutations in the factor IX gene. 8th Balkan Meeting on Human Genetics, May 14-17, 2009, Cavtat-Dubrovnik, Croatia
24. *Sukarova Stefanovska E., Davceva-Cakar M., Momirovska A., Efremov G.D.* GJB2 mutations in Macedonian patients with non-syndromic hearing loss. European Human Genetics Conference, May 23 - 26, 2009, Vienna, Austria
25. *Sukarova Stefanovska E., Noveski P., Efremov G.D.* Mutation rates of 15 Short Tandem Repeat loci used in paternity testing and forensic analysis European Human Genetics Conference, June 12-15, 2010, Gothenborg, Sweeden
26. *Sukarova Stefanovska E., Cakar M., Efremov G.D.* High Incidence of W24X GJB2 Mutation Among Macedonian Gypsy Patients with Nonsyndromic Hearing Loss. European Human Genetics Conference, May 27 - 31, 2011, Amsterdam, The Netherlands

27. **Sukarova Stefanovska E., Cakar M., Efremov G.D.**, Molecular testing for *GJB2* mutations among Macedonian Nonsyndromic Hearing Loss children BJMG Suppl. 14, 2011, Balkan Congress of Medical Genetics, 15-17 September 2011, Timisoara, Romania
28. **Plaseska-Karanfilska D., Madjunkova S., Maleva I., Kiprijanovska S., Sukarova-Stefanovska E.** Rapid prenatal diagnosis of common chromosome aneuploidies using quantitative fluorescent (QF)-PCR: 10 years experience in a center from the Republic of Macedonia, International Congress of Human Genetics, 9-11 October 2011, Montreal, Canada
29. **Sukarova Stefanovska E., Cakar M., Filipce I., Plaseska-Karanfilska D.** Mitochondrial DNA mutations are not a common cause of non-syndromic hearing loss in Republic of Macedonia ; European Human Genetics Conference, Nürnberg, Germany, June 23-26, 2012