

CURRICULUM VITAE

PERSONAL DATA



Name: Katarina Davalieva
Date of birth: August 06, 1973
Nationality: Macedonian
Marital status: Married, 2 children
Home address: Franjo Kluz 11B 1/34, 1000 Skopje, R Macedonia
Office address: Research Center for Genetic Engineering and Biotechnology "Georgi D. Efremov", Macedonian Academy of Sciences and Arts, Av. Krste Misirkov 2, Skopje, Republic of Macedonia
Telephone:
(Office) 00389 2 32 35 410; 00389 2 32 35 400 (ext. 270)
(Mobile) 00389 70 24 42 49
e-mail: katarina@manu.edu.mk

EDUCATION

1992-1997	Faculty of Technology and Metallurgy, University "Ss. Cyril and Methodius", Skopje, Republic of Macedonia	BSc	Biotechnology
1999-2002	Interdisciplinary Postgraduate Studies in Molecular Biology and Genetic Engineering, University "Ss. Cyril and Methodius" Skopje, Republic of Macedonia	MSc	Molecular biotechnology
2005-2009	Faculty of Technology and Metallurgy, University "Ss. Cyril and Methodius" Skopje, Republic of Macedonia	PhD	Molecular biotechnology

POSITION AND EMPLOYMENT

2000-2003	Junior assistant Research Center for Genetic Engineering and Biotechnology (RCGEB), Macedonian Academy of Sciences and Arts (MASA), Skopje, Republic of Macedonia
2003-2010	Research scientist RCGEB, MASA, Skopje, Republic of Macedonia
2011-present	Assistant Professor RCGEB, MASA, Skopje, Republic of Macedonia
2011-present	Assistant Professor PhD-studies at the Faculty of Technology and Metallurgy, University Ss. Cyril and Methodius, Skopje, Macedonia
2010-present	Assistant Professor MSci- studies at the Faculty of Pharmacy, University Ss. Cyril and Methodius, Skopje, Macedonia

MEMBERSHIP IN PROFESSIONAL SOCIETIES

2000-present	Member of Federation of European Biochemical Societies (FEBS)
2004-present	Member of Macedonian Society of Human Genetics
2011-present	Member of Macedonian Society of Biochemistry and Molecular Biology

HONORS

1995	The best student at Faculty of Technology and Metallurgy for 1994-1995
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TRAINING COURSES

1. ICGEB Practical course - Bioinformatics: Computer methods in molecular biology, 23-30 June 2006, Trieste, Italy.
2. A EuroGentest workshop for human genetic testing laboratories: Best practice in high resolution melting curve analysis, 17-18 September 2009, Leiden, the Netherlands.
3. GE Healthcare training course: EttanTM 2-D DIGE Course, 27-29 October 2009, Munich, Germany.
4. GE Healthcare training course: EttanTM DIGE Analysis Course, 29-30 October 2009, Munich, Germany.
5. 2-D DIGE training: Institute Cochin, Plate-forme Electrophorese Bidimensionnelle, 1–12 March 2010, Paris, France.
6. 1st Genomics and Proteomics Workshop, 22-26 November 2010, Skopje, R Macedonia
7. GE Healthcare training course: EttanTM DIGE Analysis Course, 27-28 May 2011, Munich, Germany.
8. 2nd Genomics and Proteomics Workshop, 27-29 June 2011, Skopje, R Macedonia.
9. 3th Genomics and Proteomics Workshop, 29 March - 4 April 2012, Skopje, R Macedonia.
10. Peptide Mass Fingerprinting training: Vienna University of Technology, Institute of Chemical Technologies and Analytics, 4-17 March 2012, Vienna, Austria.
11. Joint Training Schools- European Kidney and Urine Proteomics COST Action: Application of FASP (filter aided sample preparation) for the measurement of differential protein biomarkers in tissue, 1-3 May 2012, Glasgow, UK.

RESEARCH SUPPORT

Ministry of Science and Education, R Macedonia Macedonian-Bulgarian bilateral project	2011-2013
<i>Cobalt compounds – new insights into regulation of iron metabolism</i> Role: Participant	
Ministry of Science and Education, R Macedonia	2011-2013
<i>Biomarker detection in breast cancer with use of 2D-DIGE/MALDI MS technology</i> Role: Principal Investigator	
Macedonian Academy of Sciences and Arts	2012-2014
<i>Biomarker detection in prostate cancer with use of 2D-DIGE/MALDI MS technology</i> Role: Co-Principal Investigator	
European commission FP7 programme REGPOT-2008-1	2009-2012
<i>National reference center for genomics and proteomics</i> Role: Participant	
Macedonian Academy of Sciences and Arts	2001-2003
<i>Molecular basis of hemochromatosis in R Macedonia</i> Role: Participant	

UNESCO-ROSTE	2005
<i>Genetic Testing in Central and Eastern Europe: acceptance among health workers and general population</i>	
Role: Participant	
UNESCO-ROSTE	2005
<i>Molecular Biology and Genetics Network in Southeastern Europe</i>	
Role: Participant	

PUBLICATIONS

1. **K. Bardarova**, D. Plasevska-Karanfilska, V. Preden-Kerekovic and G.D. Efremov. (2001) Compound heterozygosity for Hb C and Hb Lepore-Boston-Washington in a patient from Croatia. *BJMG*, 4: 33-36.
2. **K. Davalieva**, J. Ziberovski and G. D. Efremov. (2004) Bme585 I [5'-CCCGC(4/6)-3'], a new isoschizomer of restriction endonuclease Fau I, isolated from a strain of *Bacillus mesentericus*. *Microbiol. Res.*, 159(2): 129-133.
3. **K. Davalieva**, P. Dimcev, G.D. Efremov and D. Plaseska-Karanfilska. (2006) Non-invasive fetal sex determination using real-time PCR. *J Matern Fetal Neonatal Med.*, 19(6): 337-342.
4. **K. Davalieva** and G.D. Efremov. (2009) Substitution of Ile(707) for Leu in KlenTaq DNA polymerase reduces the amplification capacity of the enzyme. *Contributions, Sec. Biol. Med. Sci., MASA*, XXX, 2: 57-69.
5. **K. Davalieva** and G.D. Efremov. (2010) A new thermostable DNA polymerase mixture for efficient amplification of long DNA fragments. *Applied Biochemistry and Microbiology*, 46 (2): 230-234.
6. **K. Davalieva**, I. Maleva, K. Filipovski, O. Spiroski and G.D. Efremov. (2010) Genetic Variability of Macedonian Tobacco Varieties Determined by Microsatellite Marker Analysis. *Diversity* 2(4):439-449.
7. **K. Davalieva** and G.D. Efremov. (2010) Influence of salts and PCR inhibitors on the amplification capacity of three thermostable DNA polymerases. *Maced. J. Chem. Chem. Eng.*, 29 (1): 57-62.
8. **K. Davalieva**. (2010) Cloning and expression of thermostable DNA polymerase genes and construction of enzymes with improved characteristics. *Maced. J. Chem. Chem. Eng.*, 29 (1): 108.
9. **Katarina Davalieva**, Dzoko Kungulovski, Natalija Atanasova-Pancevska, Radmila Bojkovska, Trajce Stafilov, Georgi D. Efremov. (2011) Microbiological diversity of cave Vrelo. *Contributions, Sec. Biol. Med. Sci., MASA*, XXXII, 2, p. 169-186.
10. **K. Davalieva**, S. Kiprijanovska, P. Noveski, T. Plaseski, B. Kocevaska, C. Broussard and D. Plaseska-Karanfilska. (2012) Proteomic analysis of seminal plasma in men with different spermatogenic impairment. *Andrologija*, 44(4):256-64.
11. **K. Davalieva**, S. Kiprijanovska, C. Broussard, G. Petrusevska and G.D. Efremov. (2012) Proteomic analysis of infiltrating ductal carcinoma tissues by coupled 2-D DIGE/MS/MS analysis. *Molecular Biology*, 46(3): 421-432.
12. **K. Davalieva**, S. Kiprijanovska, P. Noveski, T. Plaseski, B. Kocevaska and D. Plaseska-Karanfilska. (2012) Human seminal plasma proteome study: A search for male infertility biomarkers. *BJMG*, 15, Supplement: 37-40.

SCIENTIFIC MEETINGS

1. **K. Bardarova**, D. Plasevska-Karanfilska, V. Preden-Krekovic, and G. D. Efremov. Double heterozygosity for hemoglobins C and Lepore-Boston-Washington in a patient from Croatia. 10th International congress of human genetics, Vienna, Austria, May 15-19, 2001.
2. **K. Davalieva**, T. Jevtovic, R. Milicevic, D. Plasevska-Karanfilska, A. Dimovski and G.D. Efremov. The frequencies of HFE C282Y and H63D mutations in the population of the Republic of Macedonia. 5th Balkan meeting on human genetics, Sofija, Bulgaria, August 29-September 1st , 2002.
3. **K. Davalieva**, D. Plasevska-Karanfilska and G.D. Efremov. Rapid screening of β -thalassemia mutations by SSCP and RFLP. 10th meeting of the Balcan Clinical Laboratory Federation, Ohrid, Macedonia, September 17-21, 2002.
4. K. Popovska, M. Dejanovska, **K. Davalieva**, S. Duvlis, G.D. Efremov and D. Plasevska-Karanfilska. Human papilloma virus (HPV) types among Macedonian women with low- and high-grade squamous intraepithelial lesions (SILs). 29th Meeting of the federation of the european biochemical societies, Warsaw, Poland, 26 June-1 July, 2004.
5. **K. Davalieva**, G. D. Efremov and D. Plaseska Karanfilska. Fetal sex determination using real-time PCR analysis of maternal plasma. 7th Balkan Meeting on Human Genetics, Skopje, R Macedonia, 31st August-2nd September, 2006.
6. **Katarina Davalieva**, Ivana Maleva, Kiril Filipovski and Georgi D Efremov. Genetic diversity of cultivated Macedonian tobacco varieties. 2nd International symposium on genomic of plant genetics resources, Bologna, Italy, 24 - 27 April, 2010.
7. **Katarina Davalieva** and Georgi D. Efremov. Influence of Cd707 Ile \rightarrow Leu substitution in N-terminal deletional variant of Taq DNA polymerase on stability and activity of the enzyme. 35th FEBS Congress, Gothenburg, Sweden, 26 June - 1 July 2010.
8. **K. Davalieva**, S. Kiprijanovska, C. Broussard, G. Petrusevska and G.D. Efremov. Proteomic analysis of infiltrating ductal carcinoma tissues by coupled 2-D DIGE/MS/MS analysis. The EMBO meeting, Vienna, Austria, 10-13 September, 2011.
9. **K. Davalieva**, S. Kiprijanovska, T. Plaseski, B. Kocevaska and D. Plaseska-Karanfilska. Proteomic analysis of seminal plasma by 2-D DIGE in men with different spermatogenic impairment. The EMBO meeting, Vienna, Austria, 10-13 September, 2011.
10. **K. Davalieva** (oral presentation) Differential expression profile of seminal plasma proteins in men with spermatogenic impairment. MACPROGEN Project Final Conference, Ohrid, R Macedonia, 29 March – 1 April, 2012.

OTHER PERSONAL QUALITIES

Language skills	Fluent in English
Computer skills	Microsoft Office, Adobe Photoshop, Corel Draw