

## **Elitsa Boteva**



Elitsa graduated from Sofia University “St. Climent Ohridski” with B.Sc. in Molecular Biology in 2006 and M.Sc. in Genetics in 2011. She further improved her competences through several internships at the Department of Biochemistry and Cell Biology in Utrecht University, Netherlands; the Department of Cell and Molecular Biology in Karolinska Institutet, Sweden and the Department of Chemistry and Pharmacy at FAU Erlangen-Nuremberg, Germany, as well as her one year research endeavor at Electrochemical and Cancer Institute, Tokyo, Japan.

Since 2014 she is affiliated with the department of “Gene Regulation” at IMB-BAS. Working as research assistant in the institute, her main focus is on the processes of DNA Glycation and the discovery of mechanisms for the repair of glycation damaged DNA. Moreover, as part of her ongoing PhD research project under the supervision of Prof. Dr. R. Mironova, she works on the development of a peptide nucleic acid based innovative DNA deglycation model. Besides Glycobiology and Diabetes, her scientific interests include Evolutionary and Developmental biology, Stem cell research, Human microbiome etc.

### **Representative publications and presentations:**

#### **Articles**

Boteva E, Handzhiyski Y, Kotseva M, Mironova R. Phosphoglucose isomerase deficiency is linked to increased spontaneous mutagenesis in *Escherichia coli*. *C Rend Bulg Acad Sci*. 2016 (in press).

#### **Presentations**

Boteva E, Handzhiyski Y, Kotseva M, Mironova R. Phosphoglucose isomerase deficiency is linked to increased spontaneous mutagenesis in *Escherichia coli*. Poster. 55 Years Anniversary Conference of the Roumen Tsanev Institute of Molecular Biology, October 5-6, 2015, Sofia, Bulgaria.

Boteva B, Boteva E, “Karolinska Hospital – Impressions from a Study Tour” Oral presentation. Meeting with International Participation “Oncoimmunology–New Horizons”, October 2012, Pleven, Bulgaria.

Handzhiyski Y, Nikolov L, Ivanov IK, Boteva E, Berzal A, Datsenko KA, Wanner BL, Ivanov IG, Mironova R. Maillard reaction and spontaneous mutagenesis in *Escherichia coli*. Poster. Jacques Monod Commemorative Minisymposium, May 31, 2010, Paris, France.

Handzhiyski Y, Nikolov L, Ivanov IK, Boteva E, Berzal A, Datsenko KA, Wanner BL, Ivanov IG, Mironova R. Maillard reaction and spontaneous mutagenesis in *Escherichia coli*. Oral presentation. 20th Anniversary International Scientific Conference, June 3-4, 2010, Stara Zagora, Bulgaria.

Mironova R, Handzhiyski Y, Boteva E, Niwa T, Berzl A, Datsenko KA, Wanner BL, Ivanov I. Maillard reaction and spontaneous mutagenesis in *Escherichia coli*. Oral presentation. International Meeting "Oncoprogess–Oncovaccines", October 29-30, 2010, Sofia, Bulgaria.

Kuraya M, Imai K, Boteva E, Asami R, Hasumi K. Introduction to Hsp70 Vaccine. Oral presentation International Meeting "Open Doors for Immunological Therapy of Cancer", October 30-31, 2009, Sofia, Bulgaria.

Hadjianev A, Botev C, Bussarsky V, Romansky K, Mirchev N, Georgiev K, Nuchev L, Djendov S, Iliev I, Tonev I, Altankova I, Genova M, Hrishev V, Kiurktchiev D, Shivarov V, Oncheva G, Shopova I, Georgiev G, Boteva E, Hristova S, Slavov P and Mincheff M. Safety and Efficacy of Autologous Stem Cell Implantation for Spinal Cord Traumatic Injury Repair. Oral presentation. Proceedings of the 13th European Congress of Neurosurgery, September 2-7, 2007, Glasgow, UK.