

Beyza Vuruşaner

PERSONAL DETAILS

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Date of birth: 6th April 1987

Nationality: Turkish

EDUCATION

2010- Present **Sabanci University, Turkey**
PhD Biology and Bionengineering GPA: 3.95/4

Course modules include:

- Free Radicals in Biological Systems
- Signal Transduction
- Chromosome Biology
- Advanced Bioinformatics
- Advanced Immunology
- Advanced Molecular Biology
- Applied Protein and Genetic Engineering

2008-2009 **The University of Nottingham, UK**
MSc Applied Biomolecular Science GPA: 67% with Merit

Course modules include:

- Fundamentals of Biomolecular Science
- Molecular Microbiology and Biotechnology
- Industrial and Biomedical Macromolecules
- Basic Laboratory techniques
- Structural Biology
- Antibody Biotechnology
- Genetic Analysis and Bioinformatics
- Polysaccharide and Drug Delivery Biotechnology
- Industrial and Laboratory Placement with Project Dissertation

2004-2008 **Yeditepe University, Turkey**
BSc Genetics and Bioengineering GPA: 2.98/4

Course modules included:

Cell Biology, Microbiology, Analytical Chemistry, Classical and Molecular Genetics, Biochemistry, Immunology, Techniques in Genetic Engineering, Neurobiology, Gene Therapy, Molecular Biology, Human Genetics, Cancer Biology, Cell and Tissue Culture, Medical and Clinical Genetics and Research Project.

2001.2004 **Istek Atanur Oguz College, Turkey GPA: 4.93/5**

Major: Science and Mathematics

Course modules included: Biology, Chemistry, Physics, Mathematics and English.

PROJECTS and ASSINGMENTS

PhD Thesis project: Cellular and molecular effects of lipid peroxidation and cholesterol oxidation end products. Signal transduction events leading to transcription of genes and the role of free radicals.

MSc Thesis Project: Analysing the Expression of ASPP Proteins in Human Cancer

The aim of the study was to identify any aberrant expression patterns of ASPP proteins and investigate whether the ASPP family proteins could serve as biomarkers for the diagnosis and prognosis of epithelial cancers. For this analysis, stratified squamous epithelium of human cervix was studied by immunohistochemical and immunofluorescence staining techniques.

BSc Thesis Project: A Comparative Study of Bacterial Attachment on Different Commercially Available Dental Implants

The aim of the study was to investigate whether different implant designs have an effect on bacterial attachment, where on the implants the bacteria attach themselves and whether the ability for attachment differs according to certain bacteria.

- Cloning and expression of green fluorescence protein in *E.coli* and its purification and assay
- Extraction and PCR of a bacterial genome using specific primers

ACADEMIC AND PROFESSIONAL EXPERIENCE**Spring 2010-Present Sabanci University, Biology and Bioengineering Department**

Teaching Assistant, Project 102 Course

Fall 2011 University of Turin, Department of Clinical and Biological Sciences, San Luigi Hospital, Orbassano, Turin, Italy

Collaboration with Prof. Guiseppe Poli's group: Gained laboratory experience for ROS release assay, LDH assay, immunohistochemical staining methods, siRNA and Real-time PCR. During my visit, I also improved my theoretical background for free radicals and antioxidant studies.

Summer 2009 University of Oxford Ludwig Institute for Cancer Research

Assisted in Tumor suppressor genes laboratory to study Msc graduation project and gained literature experience of cancer biology and p53-dependent apoptosis. Also, I gained laboratory experience for immunohistochemical and microscopy techniques.

Summer 2007 Pakize Tarzi IVF Center, Istanbul, Turkey Embryology and Andrology Laboratory

Assisted in Embryology and Andrology Laboratory relating to process of In Vitro Fertilization and sperm analysis. Gained experience of Intracytoplasmic Sperm Injection (ICSI), Cryopreservation, Preimplantation Genetic Diagnosis (PGD) and Intraurethral Insemination.

Autumn 2006 Yeditepe University Hospital, Istanbul, Turkey Microbiology and Clinical Microbiology Laboratory

Assisted in Microbiology and Clinical Microbiology Laboratory of the hospital and gained experience of identification of bacteria, DNA analysis, staining techniques and tuberculosis diagnosis.

PUBLICATIONS

Vurusaner, B., Poli G., Basaga, H.: Tumor suppressor genes and ROS: Complex networks of interactions. Free Rad. Biol. Med. In press.

AWARDS

Poster Prize, SFRR-Europe 2011 Meeting, Beyza Vurusaner, "Apoptosis induced by lipid peroxidation end products: cellular and molecular basis", September 7-10, 2011, Istanbul, Turkey

POSTER PRESENTATIONS

Beyza Vurusaner, Ozgur Kutuk, Huveyda Basaga , “Apoptosis induced by lipid peroxidation end products: cellular and molecular basis”, SFRR-Europe 2011 Meeting, Redox Biology and Micronutrients: From signaling to translation and back, September 7-10, 2011, Istanbul, Turkey

Beyza Vurusaner, Cagri Bodur, Ozgur Kutuk, Huveyda Basaga, “ Apoptosis induced by lipid peroxidation end products: cellular and molecular basis”, 18th Euroconference on Apoptosis & 7th Training course on Concepts and Methods in Programmed Cell Death, Ghent, Belgium, September 1-4, 2010

SKILLS

Laboratory Skills

DNA/RNA/plasmid purification & extraction, Protein purification & extraction, PCR/RT-PCR, Primer design, DNA cloning techniques, Gel electrophoresis, Southern/Western Blot, Immunohistochemical and Immunofluorescence techniques, Spectrophotometry, Basic microbiology techniques, SDS-PAGE, Haemocytometer, pH meter, centrifugation, Microscopical techniques (SEM, Fluorescence Microscopy, Confocal), Chromatography, Volumetric analysis techniques (titration).

Computer Skills

Windows vista/xp, Microsoft office, Rasmol, Matlab, C Programming

Language Skills

Turkish written and spoken- fluent

English written and spoken- fluent

Italian written and spoken- intermediate

MEMBERSHIPS OF SOCIETIES

Free Radical Research Society

Turkish Biochemical Society

REFERENCES

Professor Hüveyda Başağa: Biological Sciences and Bioengineering Program,
Faculty of Engineering and Natural Sciences, Sabanci University
34956-Orhanlı Tuzla, Istanbul-Turkey
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