

### Personal Information

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Nationality: Turkish

Birth date: 21.09.1990

### Education and Training

#### **2016-Present:**

Leopold-Franzens Universität Innsbruck Institute of Molecular Biology Innsbruck / AUSTRIA, PhD (Doctor of Science) in Biology

#### **2012-2014:**

Vrije Universiteit Amsterdam Faculty of Earth and Life Sciences Department of Biomolecular Sciences Amsterdam / THE NETHERLANDS, MSc in Biomolecular Sciences with double specialization Cell Biology and Biological Chemistry

#### **2008-2012:**

Bilkent University Faculty of Science Department of Molecular Biology and Genetics Ankara / TURKEY, BSc in Molecular Biology and Genetics

### Personal Skills

**Cell culture** Extensive mammalian cell culture experience, Stem Cell cultures, transfection and protein expression, *in vitro* differentiation, drug screening, antibody production in hybridoma lines, cell viability and motility assay, FACS and Flow cytometry.

**Biotechnology and Microbiology** Bacteria cultures and transformations, yeast cultures and assays, plasmid purification preps, restriction digestions, primer design and vector mapping, CRISPR-Cas9 Genome Editing, Cre-Lox Conditional System, IVA and Golden Gate cloning

**Zebrafish work** Handling and feeding of various zebrafish strains, applied biochemistry and molecular biology techniques on fish embryos, RNA and plasmid injection and protein expression

**Basic molecular genetics techniques** DNA/RNA isolation from tissue and blood, PCR, purification, modification and sequencing analysis of nucleic acids, RFLP, probe design and qRT-PCR, DNA methylation and Bisulfite

### Work Experience

**Role / Date:** University Assistant Researcher, 2016-Present

**Place:** Leopold-Franzens Universität Innsbruck Institute of Molecular Biology Innsbruck / AUSTRIA.

**Topic:** Establishing tools to study MNX1 gene in human stem cell differentiation. Teaching and technical work at the university

**Role / Date:** Master's Intern, 04.2014-11.2014

**Place:** Istanbul University DETAE Molecular Medicine Istanbul / TURKEY

**Topic:** Effect of Vitamin D on protein expression and viability of colon, gastric and bladder cancer cell lines. Teaching and training students.

**Role / Date:** Master's Intern, 09.2013-05.2014

**Place:** Vrije Universiteit Amsterdam AIMMS Structural Biology Amsterdam / THE NETHERLANDS

**Topic:** Effect of Fusicoccin on interaction of CIP2A and 14-3-3 and cell viability. Investigating the role of Ser904 phosphorylation at the c-terminal tip of CIP2A in this interaction.

**Role / Date:** Traineeship, 02.2013-07.2013

**Place:** Academisch Centrum Tandheelkunde Oral Cell Biology 1 Amsterdam / THE NETHERLANDS

**Topic:** Effect of stiffness and TGF- $\beta$ 1 treatment on the anti-fibrotic protein Caveolin-1 and  $\alpha$ -SMA expression in fibroblasts and myofibroblasts grown on Polyacrylamide gels.

**Role / Date:** Internship, 11.2011-08.2012

**Place:** InterGen Genetic Disorders Diagnostics and Research Center, Ankara / TURKEY

**Topic:** Mutational analysis in Endometrial Cancer biopsies

**Role / Date:** Bachelor's Intern, 06.2011-09.2011

**Place:** Netherlands Cancer Institute Cell Biology I Amsterdam / THE NETHERLANDS

**Topic:** Worked on actin dynamics, filopodia and lamellipodia in MEF and HEK cell models. Analysis of roles and functions of mDia2, SPIN90 proteins in cell migration.

**Role / Date:** Summer Internship, 06.2010-09.2010

**Place:** University of Oslo Biologisk Institutt Oslo / NORWAY

conversion, radioactivity based Southern Blot

### **Biochemistry techniques**

Protein purification by Äkta®, tissue and blood lysis for protein extraction, spectrophotometry, protein concentration measurements by BCA and Bradford assays, pull-down and fishing, SDS-PAGE protein analysis by Coomassie and Ponceau staining, and Western Blot analysis

### **Fluorescent Imaging**

Immunostaining, fluorescent and confocal microscopy, spinning disc microscopy, zebrafish embryo sorting and visualization

**Special Assays** NADPH assays, Vitamin D ELISA

**Animal operations** in ML-III (S3) operation lab (dissection of condron, fossa and disc from the *Sus scrofa Domestica* heads)

Model organisms used in lab work: *D. rerio*, *C. elegans*, *D. melanogaster*, *R. norvegicus*, *E. coli*, *S. cerevisiae* and various mammalian cell lines.

**Topic:** STAMP2 protein in prostate cancer. Effects of TNF, Thapsigargin and Tunicamycin on STAMP2 expression in fibroblasts and adipocytes and analysis of NADPH levels in mouse tissues.

**Role / Date:** Summer Internship, 06.2008-08.2008

**Place:** Adnan Menderes University Faculty of Medicine Department of Medical Genetics Aydın / TURKEY

**Topic:** Detection of point mutations on specific loci in FMF patients

## **Additional Information**

### **Teaching Experience in the Lab**

Supervised students in "Molekularbiologische Grundübung" course at Innsbruck University Wintersemester 2018/2019 and Sommersemester 2018/2019. Supervised Bachelor and Master students in research projects.

Have experience with working in Biological Safety level laboratories ML1, ML2, ML2+ and ML3 and radioactivity.

### **Projects and Awards**

Accepted as a poster judge to participate in prize awards of Life Science Meeting Innsbruck 2019

Obtained the "Doktoratsstipendium aus der Nachwuchsförderung 2015/3. Tranche" Doktorat Fellowship Promotion of the Young Talent award from Leopold-Franzens Universität Innsbruck / Austria for the PhD study. Member of AGE/REG Society in Innsbruck / Austria.

Obtained the grant from YÖP (Publication Count Bonus) of Istanbul University on behalf of Pr. Dr. İlhan Yaylım, the head of Molecular Medicine Department in Istanbul University DETAE. Established and optimized Western Blot system with wet transfer with this project funding during one of the Master's internships (2014 April – November).

Achieved the Young Fellow Researcher Seminar Funding of Istanbul University for the admittance and travelling to the 2<sup>nd</sup> International Anticancer Congress and the following International Anticancer Congress and 4<sup>th</sup> MOKAD Multidisciplinary Cancer Congress on 23-26 April 2014 in Bodrum, Turkey.

## **Hobbies**

Semi-professional Ultimate Frisbee player (Played in different leagues between 2008-2016)

Skiing, swimming, snorkelling, canyoning, computer gaming, classical guitar

## **References**

Provided upon request.