

# CANTUĞ BAR

Address: Limanreis district, Beren St., No:4  
Narlidere, İzmir, TURKEY 35320  
Phone: +90-543-793-4898  
E-mail: cantugbar@gmail.com

## I. EDUCATION

**Master of Science (M.Sc.) in Molecular Biology and Genetics**, Izmir Institute of Technology, Izmir, TURKEY, 2012 - 2015

**CGPA:** 3.66/4.00, Graduated with Honours

**Thesis:** Elucidation of Boron Hyperaccumulation and Tolerance Mechanisms in *Puccinellia distans* (Jacq.) parl. Using Proteomics Approach

**Bachelor of Science (B.Sc.) in Molecular Biology and Genetics**, Izmir Institute of Technology, Izmir, TURKEY, 2008 - 2012

**CGPA:** 3.70/4.00, Graduated 2<sup>nd</sup> in class, Rectorate's Merit list: Ranked 5<sup>th</sup>

## II. RESEARCH EXPERIENCE

2012 – 2015

**Advisor:** Prof. Anne Frary, Plant Molecular Genetics Laboratory, Department of Molecular Biology and Genetics, Izmir Institute of Technology, Izmir, TURKEY,

*Research topic:* Elucidating boron stress tolerance in *Puccinellia* using a comparative proteomics approach (Plant growth and protein purification.)

*Research topic:* Establishing Phylogenetic Relationships Between *Puccinellia distans* populations across Mid-Eurasia.

Oct 2014 & May 2015

**Advisor:** Prof. Sebastien Carpentier, Systems Biology based Mass Spectrometry Laboratory (SyBioMa), Division of Crop Biotechnics, University of Leuven, BELGIUM

*Research Topic:* Elucidating boron stress tolerance in *Puccinellia* using a comparative proteomics approach (LC/MS sample preparation and analysis)

## III. PUBLICATIONS

- Project written, submitted to and accepted by The Scientific and Technological Research Council of Turkey (TUBITAK), April 2013, Project No: 113Z930.
- Top, O., Bar, C., Ökmen, B., Özer, D. Y., Rusçuklu, D., Tamer, N., Frary, A. & Doğanlar, S. (2014). "Exploration of Three Solanum Species for Improvement of Antioxidant Traits in Tomato." *HortScience*, 49(8), 1003-1009.
- Bar, C., Doğanlar, S., & Frary, A. (2014) "Genetic relationships among Eurasian *Puccinellia distans* genotypes." *Biochemical Systematics and Ecology*, 62, 20-24.

## **VI. RESEARCH SKILLS**

- Molecular Cloning and Transformation Techniques
- PCR based molecular marker analysis; CAPs and SSRs, SRAP
- Directed evolution via gene shuffling
- Protein extraction and purification
- Agarose gel electrophoresis and SDS-PAGE
- 2D-PAGE
- MALDI and LC-MS

## **V. TEACHING EXPERIENCE**

**Teaching Assistant**, Department of Molecular Biology and Genetics, Izmir Institute of Technology, Izmir, TURKEY Jan 2013 - Jun 2015

Courses Given:

Fall 2014 – Biochemistry Laboratory	Spring 2015 – Molecular Biology Laboratory
Fall 2013 – General Biology Laboratory	Spring 2014 - Molecular Biology Laboratory
	Spring 2013 - Microbiology laboratory

## **VI. INTERESTS AND ACTIVITIES**

- Trainee Chef, İzmir Institute of Culinary Arts, Balçova, İzmir, Graduation expected in February 2016

## **VII. REFERENCES**

Prof. Dr. Anne FRARY

Department of Molecular Biology and Genetics, Plant Molecular Genetics Laboratory

Izmir Institute of Technology, 35430, Urla, Izmir, TURKEY

Tel: +90 (232) 750 7306

E-mail: [annefrary@iyte.edu.tr](mailto:annefrary@iyte.edu.tr)

Prof. Dr. Sebastien Carpentier

Division of Crop Biotechnics, University of Leuven, Willem de Croylaan Road 42, box 2455

3001, Leuven, Belgium

Tel: +32 16 37 93 11

E-mail: [sebastien.carpentier@biw.kuleuven.be](mailto:sebastien.carpentier@biw.kuleuven.be)