

ELİF BOZLAK

bozlakelif@gmail.com / +905344840160
Informatics Institute, METU, ANKARA

Education

MSc

2016-...

Bioinformatics, Middle East Technical University

*Current student.

*Language of instruction is English.

Thesis Title (ongoing study):

''de novo'' SNP Calling of Horse Breeds From Austria''

(Advisors: Assist. Prof. Dr. Aybar Can ACAR, Assoc. Prof. Dr. Mehmet SOMEL, Dr. Med.Vet. Barbara WALLNER)

Taken Courses:

Next Generation Sequence Analysis and Informatics, Probabilistic and Statistical Modeling for Bioinformatics, Biological Databases and Data Analysis Tools, Programming for Informatics (Python Programming), Protein and DNA Sequence Analysis, Probability and Statistics

BSc

2010-2015

Molecular Biology and Genetics, Istanbul Technical University

*Language of instruction is English.

Graduation Project:

''Characterization of NFIB Binding Regions in Regulatory Regions of Genes that are Misregulated in the Absence of NFIB''

(Advisors: Assist. Prof. Ömer Sinan SARAÇ, Assist. Prof. Asli KUMBASAR)

Taken Courses:

Developmental Biology, Molecular Immunology, Molecular Biology, Molecular Genetics, Microbial Physiology, Modeling in Biological Systems, Biochemistry, General Biotechnology, Genetics, Ecology, Microbiology, Organic Chemistry I-II, Analytical Chemistry, Cell Biology, Physical Chemistry, Biophysics, General Biology, C Programming, Probability and Statistics, Calculus I-II.

High School

2006-2010

Hüseyin Avni İncekara Science High School, Nevsehir

Research Experience:

Intern

March-June 2016

(3 Months)

Institute of Animal Breeding and Genetics, University of Veterinary Medicine, Vienna

Advisor: Dr. Med. Vet. Barbara WALLNER

- Creating a database (MySQL), NGS Analysis, Data Visualization

Intern

June-September 2014

(3 Months)

Bioinformatics Department, GENKOK, Kayseri

Advisor: Dr. Ahmet Raşit ÖZTÜRK

-Python Programming, R programming, Microarray Analysis, Pathway Analysis, Visualization Techniques

Intern

June-September 2013

(3 Months)

Ancient DNA Laboratory, Istanbul University

Advisor: Assoc. Prof. Dr. Ercan ARICAN

-DNA Isolation, PCR, Gel Electrophoresis, Archeological Excavation

Projects

Music Within <i>2018 Spring</i>	<i>An installation project introducing 'de novo' mutations to audiences with music and LED signals.</i> <ul style="list-style-type: none">- Python, Arduino, Raspberry
Context Based Mutation Bias in Chimpanzee Genome <i>2017 Spring</i>	<i>Analyzing fixed and polymorphic mutations in chimpanzee genome, to learn their evolutionary background.</i> <ul style="list-style-type: none">- Python, R, Linux
Programming for Informatics <i>2016 Fall</i>	<i>Analyzing and visualizing of large pedigree data.</i> <ul style="list-style-type: none">- Python, d3.js, Django
METU Dream Challenge <i>2016 Fall</i>	<i>Analyzing DNase-Seq data.</i> <ul style="list-style-type: none">- PWM Method, R
Protein and DNA Sequence Analysis <i>2016 Fall</i>	<i>Structural Analysis of the MERLIN(NF2) Protein.</i> <ul style="list-style-type: none">- Database Analysis, CHIMERA
Bioinformatics <i>2013 Fall</i>	<i>Programming Oriented Bioinformatics Project</i> <ul style="list-style-type: none">- Python

Publications

Wallner B., Palmieri N., Vogl C., Rigler D., **Bozlak E.**, ... (2017). Y Chromosome Uncovers the Recent Oriental Origin of Modern Stallions. *Current Biology*, 27(13):2029-2035.e5.

Presentations

HIBIT 2017 <i>June 2017, METU NCC</i>	Oral presentation: <i>"Neighbouring Sequence Context-Based Fixation Bias of Mutations in Chimpanzee Genome"</i>
MolBioKon <i>September 2014, İzmir Institute of Technology</i>	Poster presentation: <i>"Zebrafish Gene Expression Exhibit Individual and Gender Difference Independent of Conditions"</i>

Computer Skills

- Python, R
- BWA, SAMtools, Picard, GATK
- MySQL
- BLAST, ENSEMBL, NCBI Genome Browser, MEME, Chimera
- Django, d3.js
- Mac OS X, Linux, Windows

Languages

- Turkish(native)
- English(fluent) / IELTS (2015): 6.5/9
- French(basic)
- Portuguese(basic)

Extracurricular Activities

Classical Guitarist 2007-...

Playing classical guitar since 2007. During university education in ITU, playing in Savas Cekirge Classical Guitar Center and helping students as a teaching assistant. Participation to international guitar festivals as a guitarist. Still continue to play in METU Guitar.

Volunteering

Mentor at DjangoGirls Turkey, Camp leader at GENCTUR

Representer 2008-2009

In 2009, participation to Turkish National Grand Assembly as young agent of NEVSEHIR.

Sports

Basketball player, tour cyclist, horseback rider, capoeirista

References

Assist. Prof. Dr. Aybar Can ACAR

Informatics Institute, Middle East Technical University (METU), Ankara, TURKEY
acacar@metu.edu.tr / +90 (312) 210-7707

Dr. Ahmet Rasit OZTURK

Senior Bioinformatician, Craig Mello Lab, UMMS RNA Therapeutics Institute, Worcester, MA, USA
ahmetrasit@gmail.com

Dr. Med. Vet. Barbara WALLNER

Institute of Animal Breeding and Genetics, University of Veterinary Medicine, Vienna, AUSTRIA
barbara.wallner@vetmeduni.ac.at