



Ayşenur TAŞDELEN

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EDUCATION

Izmir Institute of Technology-Molecular Biology and Genetics B.S.c

October 2014 – July 2021, Izmir, TURKEY

85th Years Anatolian High School- 2010-2014- Izmir, TURKEY

RESEARCH EXPERIENCES

Volunteer Internship @ Bülbül Lab.

Summer 2021, Akdeniz University-TURKEY

In this laboratory, neuroscience was studied with rat models. I studied brain-gastrointestinal system relationship. Different ages' and months' rats were used to understand some autonomus nervous system diseases and disfunctionalies. I made a presentation that covered one of topic that I selected in that area.

Mandatory Internship @Reed Lab.

1st of July-20th of September,2019, HARVARD MEDICAL SCHOOL/BOSTON-USA.

In this laboratory, pre-mRNA splicing and mRNA export mechanism is studying. Also, differently mRNA metabolism included in these studies. Some specific type of diseases and biological processes well studying. ALS, familial dysautonomia and blood cancers are major diseases that are studying. In vivo and in vitro studies are doing for examinations. To edit stem cells form embryo is studying by using CRISPR. Proteomic , and gene expression analyses are studying by RNA- seq way, especially. Some different methods are using in these studies.

Volunteer Internship @ Bađriyanık Lab

January 2019- February 2019, Dokuz Eylul University / Izmir-TURKEY

In this laboratory, embryology but mostly histology were studied. I studied with different inducer to understand cytotoxicity in rats. Different equipment were used in this laboratory such as immunohistochemistry test equipment and histopathology etc. Brain tissues were focused in most of studies.

Research Student @Doganlar-Frary Lab.

March 2018- June 2018, IZTECH/ Izmir -TURKEY

In this laboratory plants were studied especially broad bean and tomatoes. I studied extraction of these plants seeds. Also, I studied bioinformatics in this laboratory and I used many protein-related programs (Pymol-I-Tasser etc). Besides, usual bioinformatics programs were studied such as BLASTn-BLAST-p and BLASTx. I studied characterization of nutritional quality by using metabolomics biochemical assays. Furthermore, the examination of the plant proteome was achieved.

Volunteer Internship @Kavaklı Lab.

January 2018- February 2018, KOC UNIVERSITY / Istanbul- TURKEY

In this laboratory Circadian Rhythm and Clock is studying. I have learned the principles of Native PAGE as a new experience. Also, I improved myself about Real Time PCR, qPCR and some other molecular techniques that I learned before. So, I have a chance to improve my biochemistry knowledge.

Research Student @ Nalbant Lab.

October 2017-June 2017, IZTECH / Izmir -TURKEY

In my research study experience, I learned about apoptosis of bd-2 protein. To study this apoptosis, I tried to learn more about isolation of blood phases and also Western blot techniques.

Undergraduate Student @ Seyrantepe Lab.

Summer 2017, IZTECH/ Izmir -TURKEY

In this laboratory, Tay Sachs disease has been studying and mouse models has been utilizing. I learned a lot on the techniques of basic cell culturing about human cells and mouse cells. Also, I worked on the fleurostaining of blood cells . Besides , I have improved my skills on Western Blotting techniques and troubleshooting of it. Fluorescence microscope imaging was

another way that I was improved my skills on.

VOLUNTEER WORKS

Harvard Medical School- CRSP (2019 Cell Biology Research Scholars Program Symposium- Speaker

IYTE YABITO- Active member

Aykut Kence 10. Evrim Konferansı (2016)

BAID (Biology and Biolog Related) Society–Active Member (2021-)

LABORATORY SKILLS

Isolation of plasmid, RNA, DNA from mouse cells and human cells

PCR- samples that were taken from mouse embryo cells.

Agarose gel and SDS PAGE

Western Blot- Protein examination that is from human blood cell

q PCR –quality and quantity of RNA

Basic Cell Culture techniques(transfection & maintaining cells)

Blood Smear –of patient samples who had Tay-Sachs disease.

PBMC isolation for Cd-4 –Cd45 proteins

Protein sorting –Cd4-Cd45

NATIVE PAGE

HPLC

MS/LC-MS

Cytogenetic Equipment

Electron Microscopy(SEM-TEM)

Bright Field-Light Field Microscopy

Fluorescence Microscopy

Immunohistochemistry

Transfection (siRNA and bacteria)

Flow Cytometer

Sanger Sequencing

Next Generation Sequencing

CONGRESS AND CERTIFICATES

ûdemy Genetics and Next generation Sequencing for Bioinformatics 03/18/2022

Eđitim Sepeti ISO 45001: 2018 Is Sađlıđı ve G¼venliđi Y¼netim Sistemi İ Tetkik Eđitimi 03/13/2022

Eđitim Sepeti ISO 22000:2018 Gıda G¼venliđi Y¼netim Sistemi İ Tetkik Eđitimi 03/12/2022

Eđitim Sepeti ISO 14001:2015 evre Y¼netim Sistemi İ Tetkik Eđitimi 03/06/2022

Eđitim Sepeti ISO 9001: 2015 Kalite Y¼netim Sistemi İ Tetkik Eđitimi 03/06/2022

ûdemy Learn Bioinformatics From Scratch (Theory & Practical) 03/06/2022

Yasamarti ISO/IEC 17025:2017 Laboratory Accreditation Education 03/06/2022

labakademi Method Validation and Verification Webinar for Experimental Laboratories 02/26/2022

bionano Genomics Certificate of Participation 01/13/2022

ELSEVIER Turkey 5N1K Webinar Series -Certificate of Attendance-Mendeley Q&A Session (Advanced Users) 05/22/2020

ELSEVIER Turkey 5N1K Webinar Series -Certificate of Attendance-Increasing Visibility&Impact 05/18/2020

ELSEVIER Turkey 5N1K Webinar Series -Certificate of Attendance-Discovery of International Collaboration and Funding Opportunities 05/15/2020

ELSEVIER Turkey 5N1K Webinar Series-Certificate of Attendance-Mendeley Eđitimi 05/11/2020

Vera Activity Psychological Agility 05/09/2020

Vera Activity Digital Adaptation and Future Professions 05/09/2020

Vera Activity Social Engineering 05/09/2020

Vera Activity Imagination and Creativity 05/09/2020

Vera Activity Failure Stories 05/09/2020

Vera Activity Life Skills in the 21st Century with Historical Notes 05/09/2020

emerald Publishing- Certificate of Attendance 04/22/2020

Web of Science Group Certificate of Appreciation 04/21/2020

ELSEVIER- Certificate of Attendance- Yayın Yapmaya Nasıl Hazırlanabilirim? 03/20/2020

ODTÜ Certificate of Attendance -Aykut Kence 10th Evrim Conference (2016)

REFERENCES

Prof. Dr. Robin Reed-(Biology of the Nucleus and Gene Expression)

Contact- +1 617-432-2844

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rreed@hms.harvard.edu

Prof. Dr. Halil Kavaklı-(Biological Clock, Plant Biotechnology, Rationale Discovery

and Design)

Contact - +90 2123381708

halil.kavakli@gmail.com

Prof. Dr. Volkan Seyrantepe- Decan of Faculty of Science of Izmir Institute of Technology(Mammalian sialidases and their roles in complex biological events)

Contact - +90 232 750 7300

volkanseyrantepe@iyte.edu.tr

Associate Prof Ayten Nalbant-IMMINOLOGY- (T helper differentiation, microRNAs, immune regulation, and inflammation)

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Prof. Dr. Haşmet HANAĞASI-Parkinson & Movement Disorders

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