

# MUSTAFA SAMET PIR



## EDUCATION

2020  
|  
2017



### M.Sc. Bioengineering

Abdullah Gül University

📍 Kayseri, Turkey

- Thesis: Characterization of novel ciliary gene tmem145

2017  
|  
2010



### B.S., Molecular Biology and Genetics

Bilkent University

📍 Ankara, Turkey



## RESEARCH EXPERIENCE

Current  
|  
2017



### Research Assistant

Kaplan Lab

📍 Abdullah Gül University

- Curated, analysed and visualized the data for ConVarT, a search engine for matching human genetic variants with variants from non-human species.
- Developed an integrative bioinformatics tool for predicting ciliary genes (CilioGenics) and a shiny app to explore the data from this tool (<https://ciliogenics.com/>)
- Identified new ciliary genes from single cell data and functionally characterized them using *C. elegans* as a model organism.

2016  
|  
2015



### Undergraduate Researcher

Seker Lab

📍 UNAM, Bilkent University

- Designed whole cell urea and uric acid sensors in *E. coli*

August,  
2015  
|  
June,  
2015



### Undergraduate Researcher

Laboratory of Molecular and Cellular Immunology (Fujita Lab)

📍 Kyoto University

- Revealing biochemical properties of mouse MDA5 protein

## CONTACT

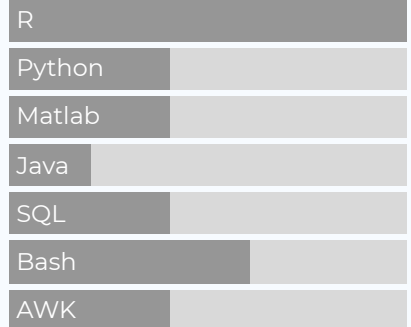
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🐙 [github.com/mustafapir](https://github.com/mustafapir)

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## LANGUAGE SKILLS



Made with the R package  
[pagedown](https://github.com/jgm/pagedown).

Last updated on 2021-11-08.



## TEACHING EXPERIENCE

2019  
|  
2019



### Genetics class

Abdullah Gül University

📍 Kayseri, Turkey

- TA and lectured
- Lectured about molecular cloning applications
- Undergrad class

March,  
16, 2019  
|  
March,  
16, 2019



### CRISPR/Cas9 workshop

Eskisehir University

📍 Eskisehir, Turkey

- Lectured
- Hands on demonstration of CRISPR/Cas9 in bacteria



## ORAL & POSTER PRESENTATIONS

2021



### ConVarT: a new search engine for orthologous variants for functional inference of human genetic variants

ESHG 2021 (European Human Genetics Conference)

- Pir et al.
- E-poster presentation

2021



### ConVarT: a search tool for orthologous variants and functional inference of human genetic variants

20th BSCB GenSoc UK Cilia Network e-symposium

- Pir et al.
- Talk

2019



### Functional Characterization of Joubert Syndrome Associated CEP41

7th International Congress of the Molecular Biology Association of Turkey

📍 Istanbul, Turkey

- Pir MS, Cevik S, Kaplan OI
- Poster presentation



## FELLOWSHIPS AND AWARDS

2021



### Conference Fellowship

- European Human Genetic Conference (ESHG)



## PUBLICATIONS

2021

- **ConVarT: a search engine for matching human genetic variants with variants from non-human species**

Nucleic Acids Research

- Mustafa S Pir, Halil I Bilgin, Ahmet Sayici, Fatih Coskun, Furkan M Torun, Pei Zhao, Yahong Kang, Sebiha Cevik, Oktay I Kaplan
- <https://doi.org/10.1093/nar/gkab939>

2021

- **WDR31 is a novel ciliopathy protein displaying functional redundancy with GTPase-activating proteins ELMOD and RP2 in recruiting BBSome to cilium**

Under-Review (Pre-print)

- Sebiha Cevik, Lama Alabdi, Xiaoyu Peng, Tina Beyer, Atiyye Zorluer, Mustafa S Pir, Ferhan Yenisert, Ranad Shaheen, Franziska Woerz, Felix Hoffmann, Betul Altunkaynak, Betul Pir, Karsten Boldt, Asli Karaman, Miray Cakiroglu, S Sadik Oner, Ying Cao, Marius Ueffing, Fowzan S Alkuraya, Oktay I Kaplan
- <https://doi.org/10.1101/2021.06.10.445528>



## REFERENCES

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