Barış Salman

Résumé

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technical skills

• Bioinformatics

NGS Analyses Exome, Amplicon, RNAseq

Microarray Analyses SNP, Expression

Sanger Sequencing

• Wet Lab

Genetic Engeering recombinant DNA technologies, qPCR

Cell Culture Protein Isolation and Western Blotting

Microscopy FISH, Confocal

Diagnostic DNA&RNA isolation, Cytogenetics and Karyotyping

• Computers

Development Python3, Shell Scripting, C language

Workflow Linux, Git, Vim, Unix Shell

Word Processing LaTeX, Markdown, Vim

Web Development Django, Javascript, HTML5, CSS, SQL

• Data

Analysis Python Scientific Toolkit(numpy, pandas, scipy etc.), R language, Shell Scripting, Bioinformatic tools

Statistics and Probability Hypothesis testing, Bayesian Theorem, Data distributions

Visualization Matplotlib, Plotly/Dash, LaTeX

education

Master, 2016–2019	Genetics, Institute of Health Sciences, İstanbul University, Turkey	**GPA** 2.14
Thesis	Study of Split Hand/Foot Malformation with Genomic Techniques and Bioinformatic Approaches	
Adviser	Assoc Prof. Dr. Sibel Uğur İşeri	
Notable Courses	Bioinformatics, Genetic Counseling, Medical Genetics, Systems Biology (Guest)	
Bachelor, 2011–2016	Molecular Biology and Genetics, İstanbul University, Turkey	**GPA** 2.44
Thesis	Metabolic Regulation in Prokaryotes with Small Non-Coding RNAs	
Adviser	Asst. Prof. Dr. Semian Karaer Uzuner	
Notable Courses	Methods Used in Molecular Biology(lab), Molecular Genetics, Genetic Engineering	

jobs

Company	Gen-Era Diagnostics	**Company**	Aktif Gen
Date	Oct 2018–Ongoing	**Date**	Jan 2018–Oct 2018
Position	Bioinformatics Specialist	**Position**	R&D Personnel

projects

1. **2018-2019** Research Fund of Istanbul University, TYL-2018-30315, 'Study of Split Hand/Foot Malformation with Genomic Techniques and Bioinformatic Approaches' **Researcher**

2. **2018–2018** TUBITAK 1512 Project, 'Development of Cloud Based Software for Next Generation Amplicon Sequencing Technologies ', Jan 2018- Oct 2018 **Research Fellow**

3. **2017-2018** Research Fund of Istanbul University, TDP-2017-25510, 'Genetic Analyses of Progressive Myoclonic Epilepsy' **Researcher**

4. **2016–2018** TUBITAK 1001 Project, 'Investigation of Epileptogenesis After Febrile Seizures' **Research Fellow**

software

bioinformatics tools developed by me see here

Dove **Do**wnstream **V**cf **E**valuation
Tool for annotating Vcfs, multi genome analysis and filtering variants.
Pigeon **Pi**pelining **Ge**neric Operati**on**s
Tool for pipelining bioinformatic tools written considering NGS applications.
Picus **P**ointed **I**nterpretation of **C**linical **V**ariant **S**ignificance
Tool for classifying variants according to ACMG/AMP criteria.
Wren **W**or**k**bench G**e**nomic A**n**alyses
Web based UI for before mentions tools (pigeon, dove, picus) and other different utilities.

publications

1. Akçakaya N. H., **Salman B.**, Uğur İşeri S., et al., A novel and mosaic WDR45 nonsense variant causes Beta-Propeller Protein-Associated Neurodegeneration identified through whole exome sequencing and X-chromosome heterozygosity analysis, NeuroMolecular Medicine, https://doi.org/10.1007/s12017-018-08522-6

2. Şirinocak, Pınar, **Salman, Barış**, Kesim, Yesim, Bebek, Nerses, Baykan, Betul, İşeri, Sibel. (2019). Susceptibility to Juvenile Myoclonic Epilepsy Associated with the EFHC1 Gene: First Case Report in Turkey. Turkish Journal Of Neurology. 25. 233-236. 10.4274/tnd.galenos.2019.61214.

3. **waiting pub.** Elmalı A.D., **Salman B.**, Uğur İşeri S., et al., Delineating the Expanding Spectrum of Epilepsy with CPA6 mutation

4. **in prep.** Kesim Y., **Salman B.**, Uğur İşeri S., et al., Discovery approaches to three novel KMT2C, DUS1L and EPG5 gene variants in three families with intellectual disability and epilepsy

• Collaborative

1. Epi25 Collaborative (2020). Epilepsy subtype-specific copy number burden observed in a genome-wide study of 17 458 subjects. Brain : a journal of neurology, 143(7), 2106-2118. https://doi.org/10.1093/brain/awaa171

2. Epi25 Consortium, Polygenic burden in focal and generalized epilepsies. Brain : a journal of neurology, 142(11), 3473-3481. https://doi.org/10.1093/brain/awz292

3. Epi25 Collaborative, Ultra-Rare Genetic Variation in the Epilepsies: A Whole-Exome Sequencing Study of 17,606 Individuals, AJHG, https://doi.org/10.1016/j.ajhg.2019.05.020

• Posters

1. Uğur İşeri S., Akçakaya N. H., **Salman B.**, et al., Exome Sequencing Identifies a FBXO38 Variant Inherited from a Mosaic Mother to cause Distal Hereditary Neuronopathy Type IID with Distinct Features, ASHG 2017, October 17-21, Orlando, USA

• Congresses

1. **Investigation of Gene Variants Associated with Syndromic Intellectual Disability**, 7. International Congress of Cerebral Palsy and Developmental Disorders, February 23-25 2018, Istanbul, Turkey

awards

2017 III. Rare Neurological Diseases Symposium and Neurogenetics Course
Second place project award

congresses & courses

1. **2020** ESHG 2020, June 6-9, Virtual Conference
   GenerAVI: Variant Interpreter and Genetic Analysis Summary Generator (Poster Presentation)
2. **2019** 7th International Congress of the Molecular Biology Association of Turkey, Sep 27-29, Istanbul, Turkey
   PICUS: Pointed Interpretation of Clinical Variant Significance (Poster Presentation)
3. **2019** Bioinformatics Days III, Gazi University Faculty of Medicine, May 25, Ankara, Turkey
   NGS Pipelines with Python (Oral Presentation)
4. **2019** Erciyes University Faculty of Medicine Genetics Days, February 21-23, Kayseri, Turkey
   Making Sense of Human Genome with Databases and Bioinformatic Tools (Oral Presentation)
5. **2018** IV. Rare Neurological Diseases Symposium and Neurogenetics Course, May 31-July 1, İstanbul, Turkey
   Analysis of Neurogenetics Data Interactive Training and Practise (Instructor)
6. **2018** 11. National Epilepsy Congress, May 3–6, 2018, Dalaman, Turkey
   Meta Analysis of SCN1A Gene Variants of 114 Patients from Epi25 Exome Data (Oral Presentation)
7. **2018** 7. International Congress of Cerebral Palsy and Developmental Disorders, February 23-25, Istanbul, Turkey
   Investigation of Gene Variants Associated with Syndromic Intellectual Disability
8. **2017** 53. National Neurology Congress, November 24–30, Antalya, Turkey
   Genomic Approaches to Intellectual Disability Case with Epilepsy (Oral Presentation)
9. **2017** III. Rare Neurological Diseases Symposium and Neurogenetics Course, July 1–2, İstanbul, Turkey
   Profiling Anti-Epileptic Drug Resistance an Genetic Diagnosis with Epilepsy Panel (Poster Presentation)

general skills

- **Languages**

English Advanced	fluent
French Beginner	basic words and phrases
Japanese Beginner	basic words and phrases
Latin Beginner	basic words and phrases
Turkish Native Speaker	

references

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institute Acıbadem University
relation Institute Head (former job)