

Asst. Prof. OKTAY İSMAİL KAPLAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: F-8531-2015

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Education Information

Doctorate, University College Dublin, Conway Institute, Ireland 2007 - 2011

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Using *C. Elegans* to Investigate Ciliary Protein Transport Into Cilia, University College Dublin, Conway Institute, School Of Biomolecular & Biomed Science, 2011

Research Areas

Health Sciences, Medicine, Fundamental Medical Sciences, Medical Biology

Academic Titles / Tasks

Assistant Professor, Abdullah Gul University, Yaşam Ve Doğa Bilimleri Fakültesi, Biyomühendislik Bölümü, 2018 - Continues

Assistant Professor, Abdullah Gul University, Yaşam Ve Doğa Bilimleri Fakültesi, Biyomühendislik Bölümü, 2017 - 2018

Courses

Fundamentals of Genetics , Undergraduate, 2022 - 2023

Genetics, Undergraduate, 2022 - 2023

Cell and Molecular Biology, Undergraduate, 2021 - 2022

Designed Lessons

Kaplan O. İ., Molecular basis of disease , Postgraduate, 2022 - 2023

Kaplan O. İ., Fundamentals of Genetics, Undergraduate, 2022 - 2023

Kaplan O. İ., Genetics, Undergraduate, 2022 - 2023

Ortakçı F., İšođlu İ. A., Kaplan O. İ., BioEngineering Lab I, Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Matching variants for functional characterization of genetic variants**
ÇEVİK KAPLAN S., Zhao P., Zorluer A., Pir M. S., Bian W., KAPLAN O. İ.
G3: Genes, Genomes, Genetics, vol.13, no.12, 2023 (SCI-Expanded)
- II. **CiliaMiner: an integrated database for ciliopathy genes and ciliopathies**
Turan M. G., Orhan M. E., ÇEVİK KAPLAN S., KAPLAN O. İ.
Database : the journal of biological databases and curation, vol.2023, 2023 (SCI-Expanded)
- III. **WDR31 displays functional redundancy with GTPase-activating proteins (GAPs) ELMOD and RP2 in regulating IFT complex and recruiting the BBSome to cilium.**
Cevik S., Peng X., Beyer T., Pir M. S., Yeniser F., Woerz F., Hoffmann F., Altunkaynak B., Pir B., Boldt K., et al.
Life science alliance, vol.6, no.8, 2023 (SCI-Expanded)
- IV. **RPI-1 (human DCDC2) displays functional redundancy with Nephronophthisis 4 in regulating cilia biogenesis in C. elegans**
Kaplan O. İ.
Turkish Journal of Biology, vol.47, no.1, pp.74-83, 2023 (SCI-Expanded)
- V. **ConVarT: a new search engine for orthologous variants for functional inference of human genetic variants**
Pir M. S., Bilgin H. I., Sayici A., Coskun F., Torun F. M., Zhao P., Kang Y., ÇEVİK KAPLAN S., KAPLAN O. İ.
EUROPEAN JOURNAL OF HUMAN GENETICS, vol.30, no.SUPPL 1, pp.504-505, 2022 (SCI-Expanded)
- VI. **ConVarT: a search engine for matching human genetic variants with variants from non-human species.**
Pir M. S., Bilgin H. I., Sayici A., Coşkun F., Torun F. M., Zhao P., Kang Y., Cevik S., Kaplan O. İ.
Nucleic acids research, vol.50, 2022 (SCI-Expanded)
- VII. **Environmental responsiveness of tubulin glutamylation in sensory cilia is regulated by the p38 MAPK pathway**
Kimura Y., Tsutsumi K., Konno A., Ikegami K., Hameed S., Kaneko T., Kaplan O. İ., Teramoto T., Fujiwara M., Ishihara T., et al.
SCIENTIFIC REPORTS, vol.8, 2018 (SCI-Expanded)
- VIII. **G-quadruplex prediction in E. coli genome reveals a conserved putative G-quadruplex-Hairpin-Duplex switch**
KAPLAN O. İ., Berber B., Hekim N., Doluca O.
NUCLEIC ACIDS RESEARCH, vol.44, no.19, pp.9083-9095, 2016 (SCI-Expanded)
- IX. **Active Transport and Diffusion Barriers Restrict Joubert Syndrome-Associated ARL13B/ARL-13 to an Inv-like Ciliary Membrane Subdomain**
ÇEVİK KAPLAN S., Sanders A. A. W. M., Van Wijk E., Boldt K., Clarke L., van Reeuwijk J., Hori Y., Horn N., Hetterschijt L., Wdowicz A., et al.
PLOS GENETICS, vol.9, no.12, 2013 (SCI-Expanded)
- X. **Endocytosis Genes Facilitate Protein and Membrane Transport in C. elegans Sensory Cilia**
KAPLAN O. İ., Doroquez D. B., ÇEVİK KAPLAN S., Bowie R. V., Clarke L., Sanders A. A. W. M., Kida K., Rappoport J. Z., Sengupta P., Blacque O. E.
CURRENT BIOLOGY, vol.22, no.6, pp.451-460, 2012 (SCI-Expanded)
- XI. **The AP-1 clathrin adaptor facilitates cilium formation and functions with RAB-8 in C. elegans ciliary membrane transport**

Kaplan O. İ., MOLLA-HERMAN A., Cevik S., GHOSOUB R., Kida K., KIMURA Y., Jenkins P., Martens J. R., SETOU M., BENMERAH A., et al.

JOURNAL OF CELL SCIENCE, vol.123, no.22, pp.3966-3977, 2010 (SCI-Expanded)

XII. Identification of Tubulin Deglutamylase among *Caenorhabditis elegans* and Mammalian Cytosolic Carboxypeptidases (CCPs)

Kimura Y., Kurabe N., Ikegami K., Tsutsumi K., Konishi Y., KAPLAN O. İ., Kunitomo H., Iino Y., Blacque O. E., Setou M.
JOURNAL OF BIOLOGICAL CHEMISTRY, vol.285, no.30, pp.22934-22939, 2010 (SCI-Expanded)

XIII. Joubert syndrome Arl13b functions at ciliary membranes and stabilizes protein transport in *Caenorhabditis elegans*

ÇEVİK KAPLAN S., Hori Y., KAPLAN O. İ., Kida K., Toivenon T., Foley-Fisher C., Cottell D., Katada T., Kontani K., Blacque O. E.

JOURNAL OF CELL BIOLOGY, vol.188, no.6, pp.953-969, 2010 (SCI-Expanded)

XIV. Intraflagellar transport: from molecular characterisation to mechanism

Blacque O. E., ÇEVİK KAPLAN S., KAPLAN O. İ.

FRONTIERS IN BIOSCIENCE-LANDMARK, vol.13, pp.2633-2652, 2008 (SCI-Expanded)

Articles Published in Other Journals

I. Investigating the Impact of Birt-Hogg-Dubé Syndrome Associated Folliculin (FLCN) and Retinitis Pigmentosa 2 (RP2) Loss on Cilia Function and Morphology

Kaplan O. İ.

Cumhuriyet Science Journal, vol.45, no.2, pp.235-239, 2024 (Peer-Reviewed Journal)

II. ConVarT: Search Engine for Missense Variants Between Humans and Other Organisms.

Pir M. S., Cevik S., KAPLAN O. İ.

Current protocols, vol.2, no.11, 2022 (Peer-Reviewed Journal)

III. Protocol for determining the average speed and frequency of kinesin and dynein-driven intraflagellar transport (IFT) in *C. elegans*.

Turan M. G., Kantarci H., Temtek S. D., Cakici O., Cevik S., KAPLAN O. İ.

STAR protocols, vol.3, no.3, pp.101498, 2022 (Peer-Reviewed Journal)

IV. The Joubert syndrome protein CEP41 is excluded from the distal segment of cilia in *C. elegans*.

Cevik S., Kaplan O. İ.

microPublication biology, vol.2021, no.17912, 2021 (Peer-Reviewed Journal)

V. Subcellular localization of the voltage-gated K⁺ channel EGL-36, a member of the KV3 subfamily, in the ciliated sensory neurons in *C. elegans*.

Cevik S., Kaplan O. İ.

microPublication biology, vol.2021, 2021 (Peer-Reviewed Journal)

VI. MSABrowser: dynamic and fast visualization of sequence alignments, variations and annotations

Kaplan O. İ.

Bioinformatics Advances, vol.1, no.", pp.1-4, 2021 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. CRISPR Teknikleri ve Biyoteknoloji Alanında Uygulamaları

KAPLAN O. İ., BERBER B., Aydın C., Tastan C., YILANCIOĞLU K.

Uluslara İVEK Bio Kongresi, 26 - 28 November 2018

II. CRISPR Teknolojileri ve Uygulamaları

KAPLAN O. İ.

V. Uluslararası Katılımlı Deneysel Hematoloji Kongresi, 27 - 29 April 2018

- III. **The characterization of ARMC9, a Recently Identified Joubert Syndrome Gene, in Cilia Biogenesis**
Artan E., Çiçek E., KAPLAN O. İ., ÇEVİK KAPLAN S.
International Molecular Biology Congress, 8 - 10 September 2017
- IV. **Functional characterization of novel ciliary genes in C. elegans**
Yenisert F., Ateş B., ÇEVİK KAPLAN S., KAPLAN O. İ.
International Molecular Biology Congress, 8 - 10 September 2017
- V. **Hunt For Novel Genes Associated With Cilia Biogenesis/Ciliopathy**
ÇEVİK KAPLAN S., Çiçek E., Gümüştop İ., KAPLAN O. İ.
Innovation In Medicine Meetings 3, 11 - 13 May 2017
- VI. **Uncovering Molecular Barriers to Direct Cell Reprogramming in C elegans**
KAPLAN O. İ.
20 th International C. elegans Meeting, 24 - 28 June 2015
- VII. **A forward genetic screen for factors that limit conversion of somatic and germ cells into a Glutamatergic neuron like cell in C elegans**
KAPLAN O. İ.
European C. elegans Meeting, Berlin, Germany, 15 - 17 May 2014

Supported Projects

KAPLAN O. İ., Project Supported by Higher Education Institutions, Biyoinformatik Yoluyla Elde Edilen Aday Silya Genlerinin Fonksiyonlarının Araştırılması, 2018 - Continues

Kaplan O. İ., Çelik Fuss A., TUBITAK Project, Confirmation of PATL1 Gene as a disease Gene in Fruit Fly and C. elegans Models and Identification of Interaction Partners in Neurons by BioID Method , 2022 - 2024

Kaplan O. İ., TUBITAK Project, Functional Characterization of Joubert Syndrome Associated CEP41; C. elegans mutant generated by CRISPR, 2018 - 2022

Kaplan O. İ., TUBITAK Project, Yeni Silya Genlerinin Ortaya Çıkarılması ve Karakterize Edilmesi Proje Yürütücüsü AK, 2018 - 2021

Scientific Refereeing

NATURE COMMUNICATIONS, SCI Journal, July 2022

EMBO REPORTS, SCI Journal, June 2022

Metrics

Publication: 27

Citation (WoS): 459

Citation (Scopus): 437

H-Index (WoS): 7

H-Index (Scopus): 7