Asst. Prof. SÜLEYMAN ÜÇÜNCÜOĞLU

Personal Information

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International Researcher IDs
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ScopusID: 56009828400
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Education Information

Doctorate, Emory University, Graduate School, Biophysics, United States Of America 2009 - 2014
Undergraduate, Bogazici University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1999 - 2005

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Science and Technology Policy, Financial Conflicts of Interest and Research for PHS Researchers, Columbia University in the City of New York, 2015
Health&Medicine, Lab Safety, Chemical Hygiene, and Hazardous Waste Management, Columbia University in the City of New York, 2015
R&D Management, Laser Safety Training, Columbia University in the City of New York, 2015
Health&Medicine, Recombinant DNA Training, Columbia University in the City of New York, 2015

Dissertations

Doctorate, Single Molecule Characterization RNA Polymerase I: Technique, Instrumentation and Experimental Development, Emory University, Graduate School, Biophysics, 2014

Research Areas

Biophysics

Academic Titles / Tasks

Assistant Professor, Istanbul Medipol University, Uluslararası Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2019 - Continues
Research Assistant PhD, Columbia University in the City of New York, Department Of Biological Sciences, 2015 - 2020
Research Assistant, Emory University, 2009 - 2014

Academic and Administrative Experience

Istanbul Medipol University, 2021 - Continues
Head of Department, Istanbul Medipol University, Uluslararası Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2019 - Continues

Courses

BİYOFİZİK, Undergraduate, 2019 - 2020
Seminars in Molecular Medicine and Biotechnology, Postgraduate, 2019 - 2020

Advising Theses

Üçüncüoğlu S., Determining Viral Detection Efficiency by Using Various CRISPR-Cas12a Enzymes, Postgraduate, T.Kırık(Student), Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **The effect of DNA tension on CRISPR/Cas12a cleavage can be reversible**
ÜÇÜNCÜOĞLU S.
Biophysical journal, vol.122, no.3S1, 2023 (SCI-Expanded)
II. **Mesenchymal Stem Cell-Based COVID-19 Therapy: Bioengineering Perspectives**
KARAKAŞ N., ÜÇÜNCÜOĞLU S., Uludağ D., Karaoğlan B. S., Shah K., ÖZTÜRK G.
Cells, vol.11, no.3, 2022 (SCI-Expanded)
III. **Direct characterization of transcription elongation by RNA polymerase I**
ÜÇÜNCÜOĞLU S., Engel K. L., Purohit P. K., Dunlap D. D., Schneider D. A., Finzi L.
PLoS ONE, vol.11, no.7, 2016 (SCI-Expanded)
IV. **Enhanced tethered-particle motion analysis reveals viscous effects**
Kumar S., Manzo C., Zurla C., ÜÇÜNCÜOĞLU S., Finzi L., Dunlap D.
Biophysical Journal, vol.106, no.2, pp.399-409, 2014 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Single Molecule Study of Tension Effects on CRISPR/Cas9 Suleyman Ucuncuoglu**
ÜÇÜNCÜOĞLU S.
BIOPHYSICAL JOURNAL, Baltimore, 2 - 06 March 2019, vol.116, pp.326
II. **Inhibitory Effect of the DNA Tension on the CRISPR/Cas9 Activities**
ÜÇÜNCÜOĞLU S.
BIOPHYSICAL JOURNAL, San-Francisco, Costa Rica, 17 - 21 February 2018, vol.114, pp.253
III. **Investigation of the Cas9 Mediated DNA Cleavage using Time-Lapse AFM Imaging**
ÜÇÜNCÜOĞLU S.
BIOPHYSICAL JOURNAL, Los-Angeles, Chile, 27 February - 02 March 2016, vol.110, pp.238
IV. **A Single Molecule Perspective of Elongation by RNA Polymerase I**

ÜÇÜNCÜOĞLU S.
BIOPHYSICAL JOURNAL, Baltimore, 7 - 11 February 2015, vol.108, pp.508

V. **Single Molecule Investigation of RNA Polymerase I using Multiplexed Tethered Particle Motion**
ÜÇÜNCÜOĞLU S.
BIOPHYSICAL JOURNAL, San-Francisco, Costa Rica, 15 - 19 February 2014, vol.106, pp.489

VI. **Single Molecule Characterization of RNA Polymerase I: Force Free Kinetic Measurements**
ÜÇÜNCÜOĞLU S.
BIOPHYSICAL JOURNAL, Philadelphia, 2 - 06 February 2013, vol.104, pp.585

Supported Projects

Üçüncüoğlu S., TUBITAK Project, AIDS'e yol açan HIV virüsününNef geninin SauCas9 CRISPR kullanılarak susturulması, 2023 - 2024
Üçüncüoğlu S., TUBITAK Project, Kistik Fibrozise neden olan CFTRgeninin S. Aureus ve S.Pyogenes CRISPR sistemeriyle efektik bir şekilde hedeflenmeleri, 2023 - 2024
Üçüncüoğlu S., TUBITAK Project, Angelman sendromuna sebepolan UBE3A gen bozukluğu için SauCas9 CRISPR kullanılarak sağlam baba kopyasının aktive edilmesi, 2023 - 2024
Üçüncüoğlu S., TUBITAK Project, Crohn Hastalığına neden olanNOD2 geninin nakavt edilmesinde yüksek doğruluklu SpCas9 ve Sau Cas9 CRISPR sistemlerininKullanılması, 2023 - 2024
Üçüncüoğlu S., H2020 Project, Single Molecule Investigation of CRISPR Family Endonucleases, 2021 - 2023
Üçüncüoğlu S., TUBITAK Project, CRISPR-Cas12a ile SARS-CoV-2 Tespit Etme Yeteneğinin Araştırılması, 2021 - 2022
Üçüncüoğlu S., Universities of Other Countries Supported Project, A novel CRISPR/Cas 9 Based Mutation Correction Method for Hemoglobinopathies, 2019 - 2020

Patent

Süleyman Ü., Bypassing the pam requirement of the crispr-cas system, Patent, CHAPTER A Human Needs, 2017

Congress and Symposium Activities

5h International 34rd National Biophysics Congress, Session Moderator, İzmir, Turkey, 2023
4th International 33rd National Biophysics Congress, Attendee, Adıyaman, Turkey, 2022

Awards

Üçüncüoğlu S., CRISPR Influencer, Synthego & The Crispr Journal , February 2021
Üçüncüoğlu S., Columbia University Translational Therapeutics Pilot Award, Columbia University, June 2019
Üçüncüoğlu S., Columbia University Biomedical Technology Accelerator Ignition Award, Columbia University, June 2019
Üçüncüoğlu S., Biophysical Society Meeting Travel Award, Biophysical Society Education Committee, March 2014
Üçüncüoğlu S., Fulbright Opportunity Grant, Fulbright Commission, Us Department Of State (Educationusa), July 2009