

Asst. Prof. Abdulhalim Kılıç

Personal Information

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji-Genetik Ve Biyoteknoloji (Dr), Turkey 2012 - 2018

Postgraduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Moleküler Biyoloji-Genetik Ve Biyoteknoloji (YI) (Tezli), Turkey 2008 - 2012

Undergraduate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, Turkey 2003 - 2008

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Construction and characterization of solid-supported lipid bilayers to investigate cell-surface interactions, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2018

Postgraduate, Supported lipid bilayers with thiolated lipids, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Moleküler Biyoloji-Genetik Ve Biyoteknoloji (YI) (Tezli), 2012

Research Areas

Life Sciences, Biotechnology, Biomaterial, Biosensor, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Fen-Edebiyat, Moleküler Biyoloji Ve Genetik, 2021 - Continues

Research Assistant, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2009 - 2018

Academic and Administrative Experience

Araştırma Görevlisi Fakülte Temsilcisi, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2009 - 2010

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. Characterization of aquaporin Z-incorporated proteoliposomes with QCM-D

- Sengur-Tasdemir R., Kılıç A., Tutuncu H. E., Ergon-Can T., Gul-Karaguler N., Ates-Genceli E., Kök F. N., Koyuncu İ.
SURFACE INNOVATIONS, vol.7, no.2, pp.133-142, 2019 (Journal Indexed in SCI)
- II. **Peptide-functionalized supported lipid bilayers to construct cell membrane mimicking interfaces**
Kılıç A., Kök F. N.
Colloids and Surfaces B: Biointerfaces, vol.176, pp.18-26, 2019 (Journal Indexed in SCI Expanded)
- III. **Quartz crystal microbalance with dissipation as a biosensing platform to evaluate cell-surface interactions of osteoblast cells**
Kılıç A., Kök F. N.
BIOINTERPHASES, vol.13, 2018 (Journal Indexed in SCI)
- IV. **The effect of thiolated phospholipids on formation of supported lipid bilayers on gold substrates investigated by surface-sensitive methods**
Kılıç A., Jadidi M. F., Özer H. Ö., Kök F. N.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.160, pp.117-125, 2017 (Journal Indexed in SCI)
- V. **Biomimetic lipid bilayers on solid surfaces: models for biological interactions**
Kılıç A., KÖK F. N.
SURFACE INNOVATIONS, vol.4, no.3, pp.141-157, 2016 (Journal Indexed in SCI)

Books & Book Chapters

- I. **Biomimetic Lipid Bilayer Based Point-of-Care Systems**
Kılıç A., Kök F. N.
in: Emerging Technologies in Biophysical Sciences: A World Scientific Reference, Utkan Demirci, Fatih Inci, Wang Shuqi, Editor, World Scientific Publishing, Singapore, pp.0-1, 2021
- II. **Investigation of cell interactions on biomimetic lipid membranes**
Kılıç A., Kök F. N.
in: Biomimetic Lipid Membranes: Fundamentals, Applications, and Commercialization, Kök F. N., Yildiz A. A., Inci F., Editor, Springer, London/Berlin, Zürich, pp.167-181, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Memeli hücrelerinin değişik yüzeylerle etkileşimlerinin inkuvars kristal mikroterazi ile incelenmesi**
KILIÇ A., KÖK F. N.
23. Biyomedikal Bilim ve Teknoloji Sempozyumu, Turkey, 15 - 16 December 2018
- II. **Interaction of mammalian cells with functionalized biomimetic lipid bilayers**
KILIÇ A., KÖK F. N.
14th Nanoscience and Nanotechnology Conference, İzmir, Turkey, 22 - 25 September 2018
- III. **Real-time measurement of cell adhesion on model protein-coated surfaces**
Kılıç A., Kök F. N.
The East-West Asia Biomaterials Symposium, Taoyuan, Taiwan, 23 - 26 August 2017, pp.1
- IV. **Real-time measurement of cell adhesion on model polymer coated surfaces**
KILIÇ A., KÖK F. N.
The East-West Asia Biomaterials Symposium, TAYVAN, 23 - 26 August 2017
- V. **QCM-D as a Biosensing Platform to Evaluate Cell – Surface Interactions of Model Cancerous and Healthy Cells**
KILIÇ A., Ustunel S., KÖK F. N.
22nd Biomedical Science and Technology Symposium, Turkey, 12 - 14 May 2017
- VI. **The Effect of Negatively Charged Phospholipid on Liposome Behavior**
KILIÇ A., Güney E., KÖK F. N.
22nd Biomedical Science and Technology Symposium, Turkey, 12 - 14 May 2017

- VII. **Analysis of the stability of supported lipid bilayers for cell culture studies**
KILIÇ A., ÇELEBİ G., KÖK F. N.
41st FEBS Congress, Molecular and Systems Biology for a Better Life, Ephesus/Kuşadası, Turkey, 3 - 08 September 2016
- VIII. **Monitoring of cell adhesion on different surfaces by quartz crystal microbalance sensor**
KILIÇ A., KÖK F. N.
12th Nanoscience and Nanotechnology Conference (NanoTR 12), 3 - 05 June 2016
- IX. **Characterization of a Supported Lipid Membrane Model by Quartz Crystal Microbalance and Surface Plasmon Resonance Techniques**
KILIÇ A., KÖK F. N.
12th Nanoscience and Nanotechnology Conference (NanoTR 12, 3 June - 03 May 2016
- X. **Detection of Liposome Stability with Quartz Crystal Microbalance with Dissipation (QCM-D) Analysis**
KILIÇ A., Bozkurt D., Ekin Y., KÖK F. N.
BIOMED 2015 The 21st International Biomedical Science and Technology Symposium, 22 - 24 October 2015
- XI. **Construction and Characterization of Supported Lipid Membranes to mimic Cell-Surface Interactions**
KILIÇ A., Majid F J., Uluca A., ÖZER H. Ö. , KÖK F. N.
BIOMED 2015 The 21st International Biomedical Science and Technology Symposium, 22 - 24 October 2015
- XII. **Characterization of Au (111) Supported Artificial Lipid Membranes in the Study of Cell Membrane Related Proteins by nc-AFM**
ÇELİK Ü., KILIÇ A., KÖK F. N. , ÖZER H. Ö. , BAKAN F., ORAL A.
15th International Conference on non-Contact Atomic Force Microscopy, 1 - 05 July 2012
- XIII. **Supported Lipid Bilayers with Thiolated Lipids**
KILIÇ A., KÖK F. N.
17th International Symposium on Biomedical Science and Technology (BIOMED 2011), 23 - 25 November 2011
- XIV. **FISH versus Q-PCR to quantify Sulfate Reducing Bacteria and Methanogens in a Marine Sediment**
İNCE O., KOLUKIRIK M., KILIÇ A., Gözdereliler E., İNCE B.
Advances and Applications of FISH Technology: drinking water, environmental and foodstuff analysis Workshop, 10 - 11 December 2007

Scientific Refereeing

POLYMER JOURNAL, SCI Journal, October 2018

JOVE-JOURNAL OF VISUALIZED EXPERIMENTS, SCI Journal, April 2018

Citations

Total Citations (WOS):24

h-index (WOS):3

Awards

Kılıç A., İstanbul Teknik Üniversitesi 2018 Yılı En Başarılı Doktora Tez Ödülü, İtü , June 2019