

Assoc. Prof. Sultan Sibel ERDEM

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Louisiana State University, Biyokimya, United States Of America 2003 - 2008

Undergraduate, Marmara University, Atatürk Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1997 - 2001

Dissertations

Doctorate, Solid Phase Synthesis of Asymmetrically Substituted Phthalocyanines, Louisiana State University, Biyokimya, 2008

Academic Titles / Tasks

Expert, Harvard University, Tıp Fakültesi, Wellman Işıklı Aktive Olan İlaç Araştırma Merkezi (Photomedicine), 2012 - 2014

Expert, Harvard University, Tıp Fakültesi, Sistemler Biyolojisi, 2009 - 2012

Expert, Louisiana State University and Agricultural and Mechanical College, Temel Bilimler Fakültesi, Biyokimya, 2008 - 2009

Research Assistant, Louisiana State University and Agricultural and Mechanical College, Temel Bilimler Fakültesi, Biyokimya, 2003 - 2008

Academic and Administrative Experience

Istanbul Medipol University, 2022 - Continues

Istanbul Medipol University, 2017 - Continues

Courses

HÜCRE BİYOLOJİSİ VE BİYOKİMYA, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

TIBBİ BİYOKİMYA, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

HEMOSTAZ BİYOKİMYASI I, Postgraduate, 2019 - 2020

İLERİ BİYOKİMYA, Undergraduate, 2019 - 2020

TEMEL BIYOKIMYA, Postgraduate, 2019 - 2020
KANSER BIYOKIMYASI I, Postgraduate, 2019 - 2020
HEMOSTAZ BIYOKIMYASI II, Doctorate, 2019 - 2020
UYGULAMALI BIYOKIMYA II, Doctorate, 2019 - 2020
BIYOKIMYADA TEMEL KAVRAMLAR, Doctorate, 2019 - 2020
MOLEKULER HUCRE BIYOLOJİSİ VE BİYOKİMYA, Doctorate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
UYGULAMALI BIYOKIMYA I, Postgraduate, 2019 - 2020
BIYOKIMYADA ENSTRUMENTAL ANALİZ I, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
GENETİK VE BİYOTEKNOLOJİ, Doctorate, 2018 - 2019, 2017 - 2018
BIYOKIMYADA ENSTRUMENTAL ANALİZ II, Doctorate, 2018 - 2019

Advising Theses

Sultan Sibel E., DEVELOPMENT OF A NANOSCALE DRUG DELIVERY SYSTEM FOR MICRO TUMORS, Postgraduate, S.İREM(Student), 2023
Sultan Sibel E., Development of Cathepsin B activated theranostic system and evaluation of it against ovarian cancer cell line, Postgraduate, A.DEMİRAL(Student), 2021
Sultan Sibel E., Manyetik nanoparçacıkların pankreas kanser hücre hattına özgü DNA nanoparçacıkları ile modifikasyonu yoluyla hücreye hedeflendirilmesi, Postgraduate, G.KEÇELOĞLU(Student), 2020
Sultan Sibel E., Evaluation of digoxin as anti-cancer agent in colon cancer cell line, Postgraduate, K.MOHAMED(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of light and pH-dual responsive self-quenching theranostic SPION to make EGFR overexpressing micro tumors glow and destroy.**
Verimli N., Gorahı S. İ., Abisoglu B., Altan C. L., Sucu B. O., Karatas E., Tulek A., Bayraktaroglu C., Beker M. Ç., Erdem S. S.
Journal of photochemistry and photobiology. B, Biology, vol.248, pp.112797, 2023 (SCI-Expanded)
- II. **Design of Dense Brush Conformation Bearing Gold Nanoparticles as Theranostic Agent for Cancer**
VERİMLİ N., Demiral A., Yılmaz H., Çulha M., ERDEM S. S.
Applied Biochemistry and Biotechnology, vol.189, no.3, pp.709-728, 2019 (SCI-Expanded)
- III. **Verteporfin mediated sequence dependent combination therapy against ovarian cancer cell line**
ERDEM S. S., Obeidin V. A., YİĞİTBAŞI T., Tumer S. S., YİĞİT P.
Journal of Photochemistry and Photobiology B: Biology, vol.183, pp.266-274, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Skov-3 Over Kanseri Hücre Hattında Fotodinamik Terapi Uygulaması**
ERDEM S. S., Parlar R. E., Obeidin V. A., Sahin U.
Haydarpaşa Numune Eğitim ve Araştırma Hastanesi Tıp Dergisi, vol.57, no.3, pp.119-124, 2017 (Peer-Reviewed Journal)
- II. **Guiding Empiric Treatment for Serious Bacterial Infections via Point of Care β -Lactamase Characterization**
Palanisami A., Khan S., Erdem S. S., Hasan T.
IEEE Journal of Translational Engineering in Health and Medicine, vol.4, 2016 (Scopus)
- III. **Bis 2 3 4 trimethyl 5 3 4 5 trimethyl 2 pyrrol 2 ylidene N methyl 1H pyrrolato N copper II**

ERDEM S. S., Fronczek F. R., Watkins S. F.

ACTA CRYSTALLOGRAPHICA SECTION E: STRUCTURE REPORTS ONLINE, vol.68, no.11, pp.1335-1336, 2012
(Scopus)

Books & Book Chapters

- I. **Experimental Biochemistry for Medical Sciences Students**
YİÇİTBAŞI T., ERDEM S. S., BOZAYKUT EKER P., Emekli N.
Istanbul Medipol Üniversitesi Yayınları, 2019
- II. **Detection and Treatment of Intravascular Thrombi With Magnetofluorescent Nanoparticles**
ERDEM S. S., Sazonova I. Y., Tetsuya H., Farouc J. A., McCarthy J. R.
in: Methods in Enzymology, Duzgünes, Nejat, Editor, Academic Press , pp.191-212, 2012
- III. **Multifunctional Nanoagents for the Detection and Treatment of Thromboses**
ERDEM S. S., McCarthy J. R.
in: Nanomedicine and the Cardiovascular System, Hunter, Ross J., Preedy, Victor R. , Editor, CRC Press, pp.324-344, 2010

Refereed Congress / Symposium Publications in Proceedings

- I. **Use of DNA Nanoparticles in Cell Targeting**
ÜÇİŞİK M. H., ALTAN C. L., Keçeloğlu G., Düzkar K., ERDEM S. S.
8. Uluslararası Bilimsel Çalışmalar Kongresi, Turkey, 15 - 17 March 2022
- II. **Innovative Approaches for the Construction of Theranostic Nanoplatfoms**
ERDEM S. S.
3. Uluslararası Kanser ve İyon Kanalları Kongresi, Turkey, 16 September 2021
- III. **Development of Fluorescent-based Nanosystem for Drug Delivery and Biomedical Applications**
Aysegül D., ERDEM S. S.
3. Uluslararası Kanser ve İyon Kanalları Kongresi, 16 September 2021
- IV. **Modification of Magnetic Nanoparticles with DNA Particulates and Their Applications in Magnetic Hyperthermia**
Goralı S. İ., ERDEM S. S.
3. Uluslararası Kanser ve İyon Kanalları Kongresi, İstanbul, Turkey, 16 September 2021
- V. **Generation of Gold Nanoparticle Based Teranostic Agent**
ERDEM S. S.
International Conference on Multidisciplinary Sciences, 15 - 16 December 2018
- VI. **Comparasion Of Induction Of Protoporphyrin IX Synthesis In 2D And 3D Cell Culture**
ERDEM S. S.
TBD Uluslararası Biyokimya Kongresi 2018-XXIX Ulusal Biyokimya Kongresi, 26 October 2018 - 30 October 2018
- VII. **Possible anticancer effect of Mirtazapine in SKOV3 cell lines**
KESKİN İ., EREN GÖZEL H., GÜRSOY D., ERDEM S. S., CÜCE G.
15 th International Congress of Histochemistry and Cytochemistry, Antalya, Turkey, 18 - 21 May 2017
- VIII. **Anti-cancer effect of Mirtazapine against MCF-7, HCT-116 and MiaPaCa-2 cancer cells**
KESKİN İ., GÜRSOY D., EREN GÖZEL H., ERDEM S. S., CÜCE G.
15th International Congress of Histochemistry and Cytochemistry, 18 - 21 May 2017
- IX. **Verteporfin Based Combination Therapy Against Ovarian Cancer**
ERDEM S. S.
Seconda Gebze Technic University Photodynamic Therapy Day, Turkey, 16 May 2017
- X. **Fluorescence Based Determination of Antibiotic Resistance**
ERDEM S. S., Khan S., Palanasami A., Hasan T.

4th International BAU Drug Design Congress, 13 October 2016

- XI. **Kombinasyon Terapinin Kolon Kanseri Hücre Hattında Uygulanması**
Obeidin V. A., Nursah E., Kalif M., ERDEM S. S.
Klinik Biyokimya Uzmanları Derneği, Turkey, 27 September - 01 October 2016
- XII. **Digoxin'in HCT 116 Hücre Hatlarındaki Etkisi: Digoxin hem Kronik Kalp Yetmezliği hem de Kolon Kanserinin Tedavisi Olabilir mi?**
Obeidin V. A., Mohamud K. M., ERDEM S. S.
Ulusal Moleküler Tıp Sempozyumu Moleküler Bakıştan Kliniğe, 01 June 2017
- XIII. **Comparison of Undergraduate Medical Education National Core Curriculum 2014 With Application of Biochemistry Education in Turkey**
Yigitbasi T., ERDEM S. S., Emekli N.
Worldwide Biochemistry Education in Health Sciences, Turkey, 15 October 2015
- XIV. **Worldwide Biochemistry Education in Health Sciences**
ERDEM S. S., Yigitbasi T., Bozaykut P., Emekli N.
International Conference on Medical Education, Turkey, 15 October 2015
- XV. **Near IR Fluorophores and Their Use in Photodynamic Therapy**
ERDEM S. S.
3rd International Drug Design Conference, 1 - 03 October 2015
- XVI. **Noninvasive Photodynamic Therapy of Murine Atherosclerosis Using Macrophage Targeted Nanoparticles**
Kessinger C. W., Mahgraby E. A., ERDEM S. S., Jetzfellner T., Mauskapf A., Ntziachristos V., McCarthy J. R., Farouc A J.
Arteriosclerosis, Thrombosis, and Vascular Biology, 1 - 03 May 2014
- XVII. **Monitoring intraperitoneal metastases using microendoscopy**
Spring Q. B., AbuYousif O. A., Palanisami A., Zheng X., Anbil S., Sears R. B., Mensah L. B., Goldschmidt R., ERDEM S. S., Oliva E., et al.
SPIE, 1 - 06 February 2014
- XVIII. **Development of photodynamic therapy for treatment of peritoneal metastases**
Spring B. Q., AbuYousif A. O., Palanisami A., Zheng X., Anbil S., Mensah L. B., R Bryan S., Goldschmidt R., ERDEM S. S., Oliva E., et al.
SPIE, 1 February - 01 June 2014
- XIX. **Fibrin Targeted in vivo Imaging of Tissue Plasminogen Activator induced Thrombolysis of Mouse Deep Vein Thrombosis**
Stein A. F., Kessinger C. W., Castro H. Z., ERDEM S. S., McCarthy J. R., Charles P L., Jaffer F. A.
Arteriosclerosis, Thrombosis and Vascular Biology, 1 - 03 May 2013