

Assoc. Prof. ÖMER AYDIN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: E-9342-2012

ScopusID: 56622455400

Yoksis Researcher ID: 271623

Education Information

Post Doctorate, The National Institute Of Health, Clinical Center, Radiology And Imaging Sciences, United States Of America 2016 - 2018

Doctorate, University of Michigan, School Of Engineering, Biomedical Engineering, United States Of America 2010 - 2016

Postgraduate, Yeditepe University, Fen Bilimleri Enst., Biyoteknoloji, Turkey 2007 - 2009

Undergraduate, Baskent University, Faculty Of Engineering, Biyomedikal Mühendisliği, Turkey 2003 - 2007

Foreign Languages

English, C1 Advanced

Research Areas

Biomedical Engineering, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2023 - Continues

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2019 - 2023

Lecturer, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2018 - 2019

Researcher, National Institute of Health, Clinical Center, Radiology and Imaging Sciences, 2016 - 2018

Research Assistant, University of Michigan, School of Engineering, Department of Biomedical Engineering, 2010 - 2016

Research Assistant, Yeditepe University, Faculty Of Engineering-Architecture, Department Of Genetics And

Bioengineering, 2007 - 2009

Academic and Administrative Experience

BAP Scientific Commissioner, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2022 - Continues

Stratejik Plan Tema Grubu Üyesi, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2021 - Continues

Deputy Director of the Center, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2020 - Continues
Deputy Head of Department, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2020 - Continues
Erciyes University, 2020 - Continues
Erciyes University, 2020 - Continues
Rectorate Commissioner, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2019 - Continues
Erasmus Coordinator, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, 2019 - Continues
Erciyes University, 2019 - Continues
Erciyes University, 2019 - Continues

Advising Theses

Aydın Ö., Detection of antimicrobial resistance using surface-enhanced raman spectroscopy combined with machine learning algorithms, Postgraduate, Z.ALI(Student), 2022
Aydın Ö., Kemoterapiye dirençli yumurtalık kanserine karşı nanotip tabanlı yenilikçi gen terapi sistemlerinin geliştirilmesi, Postgraduate, D.KANARYA(Student), 2022
Aydın Ö., The effect of LC3 siRNA and doxorubicin dual treatment against breast cancer, Postgraduate, N.SAMEER(Student), 2022
Aydın Ö., Tokmakçı M., Detection and classification of antibiotic resistant and susceptible bacteria by surface enhanced raman spectroscopy and machine learning techniques, Doctorate, F.UYSAL(Student), 2021
Aydın Ö., SARS-CoV-2 proteinlerinin anlatımını yapan memeli hücrelerinin yüzeyde zenginleştirilmiş raman saçılması ile incelenmesi, Postgraduate, M.AKDENİZ(Student), 2021
Aydın Ö., Ultrason-aktif nanoparçacığın kemoterapiye dirençli ovaryum kanser üzerine etkisinin incelenmesi, Postgraduate, B.KİP(Student), 2021
Aydın Ö., BİYOALGILAMA İÇİN MİKROAKİŞKAN SİSTEMLERİN GELİŞTİRİLMESİ, Doctorate, F.BETÜL(Student), 2021
Aydın Ö., Şimşek E., Cryptosporidium parvum ookistlerinin yüzeyde zenginleştirilmiş raman saçılması ile incelenmesi, Postgraduate, A.HACER(Student), 2020

Jury Memberships

Post Graduate, Post Graduate, İstanbul Medeniyet Üniversitesi, August, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, August, 2021
Doctoral Examination, Doctoral Examination, İstanbul Medipol Üniversitesi, August, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Abdullah Gül Üniversitesi, July, 2021
Doctoral Examination, Doctoral Examination, Abdullah Gül Üniversitesi, June, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2020
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2020
Post Graduate, Post Graduate, İstanbul Medipol Üniversitesi, November, 2020
Post Graduate, Post Graduate, Erciyes Üniversitesi, May, 2020
Post Graduate, Post Graduate, Abdullah Gül Üniversitesi, December, 2019
Doctorate, Doctorate, Erciyes Üniversitesi, December, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Staphylococcus Aureus-Related antibiotic resistance detection using synergy of Surface-Enhanced**

- Raman spectroscopy and deep learning**
Al-Shaebi Z., UYSAL ÇİLOĞLU F., Nasser M., Kahraman M., AYDIN Ö.
Biomedical Signal Processing and Control, vol.91, 2024 (SCI-Expanded)
- II. Breakthrough Solution for Antimicrobial Resistance Detection: Surface-Enhanced Raman Spectroscopy-based on Artificial Intelligence**
Al-Shaebi Z., Akdeniz M., Ahmed A. O., Altunbek M., AYDIN Ö.
ADVANCED MATERIALS INTERFACES, 2023 (SCI-Expanded)
- III. Characterization and discrimination of spike protein in SARS-CoV-2 virus-like particles via surface-enhanced raman spectroscopy**
Akdeniz M., Al-Shaebi Z., Altunbek M., Bayraktar C., Kayabolen A., Bagci-Onder T., Aydin Ö.
BIOTECHNOLOGY JOURNAL, vol.2300191, pp.1-10, 2023 (SCI-Expanded)
- IV. Design, synthesis, molecular docking and biological evaluation of 1,2,4-triazole derivatives possessing a hydrazone moiety as anti-breast cancer agents**
Tapera M., Kekeçmuhammed H., Tunc C. U., Kutlu A. U., ÇELİK İ., Zorlu Y., AYDIN Ö., SARIPINAR E.
New Journal of Chemistry, vol.47, no.24, pp.11602-11614, 2023 (SCI-Expanded)
- V. Overcome of Cisplatin Drug Resistance in Ovarian Cancer by Combination of Low-Intensity Ultrasound and Cisplatin.**
Kip B., Aydin Ö.
Current drug delivery, vol.20, pp.1380-1390, 2023 (SCI-Expanded)
- VI. Simple Staining of Cells on a Chip.**
Kosker F. B., Aydin Ö., Icoz K.
Biosensors, vol.12, no.11, 2022 (SCI-Expanded)
- VII. DeepCAN: A Modular Deep Learning System for Automated Cell Counting and Viability Analysis.**
Eren F., Aslan M., Kanarya D., Uysali Y., Aydin M., Kiraz B., AYDIN Ö., Kiraz A.
IEEE journal of biomedical and health informatics, vol.26, no.11, pp.5575-5583, 2022 (SCI-Expanded)
- VIII. Highly Accurate Identification of Bacteria's Antibiotic Resistance Based on Raman Spectroscopy and U-Net Deep Learning Algorithms**
Al-Shaebi Z., UYSAL ÇİLOĞLU F., Nasser M., AYDIN Ö.
ACS OMEGA, vol.7, no.33, pp.29443-29451, 2022 (SCI-Expanded)
- IX. SERS-based sensor with a machine learning based effective feature extraction technique for fast detection of colistin-resistant *Klebsiella pneumoniae***
Ciloglu F., Hora M., GÜNDÖĞDU A., Kahraman M., TOKMAKÇI M., AYDIN Ö.
Analytica Chimica Acta, vol.1221, 2022 (SCI-Expanded)
- X. Co-delivery of Bcl-2 siRNA and doxorubicin through gold nanoparticle-based delivery system for a combined cancer therapy approach**
Tunç C. Ü., AYDIN Ö.
Journal of Drug Delivery Science and Technology, vol.74, 2022 (SCI-Expanded)
- XI. Investigation of mammalian cells expressing SARS-CoV-2 proteins by surface-enhanced Raman scattering and multivariate analysis**
Akdeniz M., UYSAL ÇİLOĞLU F., Tunc C. U., YILMAZ Ü., Kanarya D., ATALAY DÜNDAR P., AYDIN Ö.
ANALYST, vol.147, no.6, pp.1213-1221, 2022 (SCI-Expanded)
- XII. Design, synthesis, and in vitro and in vivo anticancer activity studies of new (S)-Naproxen thiosemicarbazide/1,2,4-triazole derivatives**
Han M. İ., Tunc C. U., Atalay P., Erdogan O., Ünal G., Bozkurt M., Aydin Ö., Cevik O., Kucukguzel S. G.
NEW JOURNAL OF CHEMISTRY, vol.46, no.13, pp.6046-6059, 2022 (SCI-Expanded)
- XIII. Discrimination of waterborne pathogens, *Cryptosporidium parvum* oocysts and bacteria using surface-enhanced Raman spectroscopy coupled with principal component analysis and hierarchical clustering**
Arslan A. H., Ciloglu F., Yilmaz U., ŞİMŞEK E., AYDIN Ö.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.267, 2022 (SCI-Expanded)
- XIV. Triple-combination therapy assisted with ultrasound-active gold nanoparticles and ultrasound**

- therapy against 3D cisplatin-resistant ovarian cancer model.**
Kip B., Tunc C. U., Aydin Ö.
Ultrasonics sonochemistry, vol.82, pp.105903, 2021 (SCI-Expanded)
- XV. Drug-resistant Staphylococcus aureus bacteria detection by combining surface-enhanced Raman spectroscopy (SERS) and deep learning techniques**
Ciloglu F., Caliskan A., Saridag A. M., Kilic I. H., TOKMAKÇI M., Kahraman M., AYDIN Ö.
Scientific Reports, vol.11, no.1, 2021 (SCI-Expanded)
- XVI. Design and synthesis of novel (S)-Naproxen hydrazide-hydrazone as potent VEGFR-2 inhibitors and their evaluation in vitro/in vivo breast cancer models**
Han M. İ., Atalay P., Tunç C. Ü., Ünal G., Dayan S., Aydin Ö., Küçükgüzel Ş. G.
BIOORGANIC & MEDICINAL CHEMISTRY, vol.37, 2021 (SCI-Expanded)
- XVII. Pulsed-focused ultrasound slows B16 melanoma and 4T1 breast tumor growth through differential tumor microenvironmental changes**
Cohen G., Chandran P., Lorsung R. M., Aydin Ö., Tomlinson L. E., Rosenblatt R. B., Burks S. R., Frank J. A.
Cancers, vol.13, no.7, 2021 (SCI-Expanded)
- XVIII. Identification of methicillin-resistant Staphylococcus aureus bacteria using surface-enhanced Raman spectroscopy and machine learning techniques**
Uysal C., Saridag A., Kilic I., Tokmakci M., Kahraman M., Aydin Ö.
Analyst, vol.145, no.23, pp.7559-7570, 2020 (SCI-Expanded)
- XIX. Identification of methicillin-resistant Staphylococcus aureus bacteria using surface-enhanced Raman spectroscopy and machine learning techniques**
Uysal Çiloğlu F., Sarıdağ A. M., Kılıç İ. H., Tokmakçı M., Kahraman M., Aydin Ö.
Analyst, no.145, pp.7559-7570, 2020 (SCI-Expanded)
- XX. Usage of natural chitosan membrane obtained from insect corneal lenses as a drug carrier and its potential for point of care tests**
İkl S., Ramanauskaitė A., Bilican B. K., Mulercikas P., Cam D., ÖNSES M. S., TÖRÜN İ., Kazlauskaitė S., Baublys V., AYDIN Ö., et al.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.112, 2020 (SCI-Expanded)
- XXI. The Proteomic Effects of Pulsed Focused Ultrasound on Tumor Microenvironments of Murine Melanoma and Breast Cancer Models.**
Aydin Ö., Chandran P., Lorsung R., Cohen G., Burks S., Frank J.
Ultrasound in medicine & biology, vol.45, pp.3232-3245, 2019 (SCI-Expanded)
- XXII. Noninvasive Ablation of Prostate Cancer Spheroids Using Acoustically-Activated Nanodroplets**
Aydin O., VLAİSAVLJEVİCH E., Durmaz Y. Y., XU Z., ElSayed M. E. H.
MOLECULAR PHARMACEUTICS, vol.13, no.12, pp.4054-4065, 2016 (SCI-Expanded)
- XXIII. EFFECTS OF DROPLET COMPOSITION ON NANODROPLET-MEDIATED HISTOTRIPSY**
VLAİSAVLJEVİCH E., Aydin O., Durmaz Y. Y., LIN K., FOWLKES B., XU Z., ElSayed M. E. H.
ULTRASOUND IN MEDICINE AND BIOLOGY, vol.42, no.4, pp.931-946, 2016 (SCI-Expanded)
- XXIV. Formulation of Acid-Sensitive Micelles for Delivery of Cabazitaxel into Prostate Cancer Cells**
Aydin O., YOUSSEF I., Durmaz Y. Y., TİRUCHİNAPALLY G., ElSayed M. E. H.
MOLECULAR PHARMACEUTICS, vol.13, no.4, pp.1413-1429, 2016 (SCI-Expanded)
- XXV. The role of positive and negative pressure on cavitation nucleation in nanodroplet-mediated histotripsy**
Vlaisavljevich E., Aydin O., Lin K., Durmaz Y. Y., Fowlkes B., ElSayed M., Xu Z.
PHYSICS IN MEDICINE AND BIOLOGY, vol.61, no.2, pp.663-682, 2016 (SCI-Expanded)
- XXVI. EFFECTS OF ULTRASOUND FREQUENCY ON NANODROPLET-MEDIATED HISTOTRIPSY**
VLAİSAVLJEVİCH E., Aydin O., Durmaz Y. Y., Lin K., Fowlkes B., Elsayed M., Xu Z.
ULTRASOUND IN MEDICINE AND BIOLOGY, vol.41, no.8, pp.2135-2147, 2015 (SCI-Expanded)
- XXVII. Oligonucleotide-Mediated Au-Ag Core-Shell Nanoparticles**
Kahraman M., Aydin O., Culha M.

- PLASMONICS, vol.4, no.4, pp.293-301, 2009 (SCI-Expanded)
- XXVIII. Differentiation of Healthy Brain Tissue and Tumors Using Surface-Enhanced Raman Scattering**
 Aydin O., Altaş M., Kahraman M., Bayrak O. F., Culha M.
 APPLIED SPECTROSCOPY, vol.63, no.10, pp.1095-1100, 2009 (SCI-Expanded)
- XXIX. Interaction of gold nanoparticles with mitochondria**
 Karatas O. F., Sezgin E., Aydin O., Culha M.
 COLLOIDS AND SURFACES B-BIOINTERFACES, vol.71, no.2, pp.315-318, 2009 (SCI-Expanded)
- XXX. Surface-Enhanced Raman Scattering of Rat Tissues**
 Aydin O., Kahraman M., Kilic E., Culha M.
 APPLIED SPECTROSCOPY, vol.63, no.6, pp.662-668, 2009 (SCI-Expanded)
- XXXI. Size Effect of 3D Aggregates Assembled from Silver Nanoparticles on Surface-Enhanced Raman Scattering**
 Kahraman M., Aydin O., Culha M.
 CHEMPHYSCHM, vol.10, no.3, pp.537-542, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Gold Nanoparticle Naproxen-Derived Conjugations in Ovarian Cancer**
 Tunc C. U., Kursunluoglu G., Akdeniz M., Kutlu A. U., Han M. İ., Aycan M. B., Aydin Ö.
 ACS MATERIALS AU, vol.3, no.5, pp.483-491, 2023 (ESCI)
- II. **Selective Binding of pVTK Peptide- and Bisphosphonate-Functionalized Micelles to Prostate Cancer Cells, Osteoblasts, and Osteoclasts**
 AYDIN Ö., Tiruchinapally G., Youssef I., Ramaraju H., YÜKSEL DURMAZ Y., Kozloff K. M., Kohn D. H., ElSayed M. E. H.
 Precision Nanomedicine, vol.5, no.1, pp.851-869, 2022 (Scopus)
- III. **Review: mRNA delivery systems in vaccinations and COVID-19**
 Walweel N., Kutlu A. U., YILMAZ Ü., Al-Shaebi Z., Charmi J., AYDIN Ö.
 Journal of Research in Pharmacy, vol.26, no.5, pp.1084-1101, 2022 (Scopus)
- IV. **Yüzeyde Zenginleştirilmiş Raman Saçılması (YZRS) ile Ovaryum Kanser İlaç Direncinin İncelenmesi**
 AYDIN Ö.
 Erciyes Üniversitesi Fen Bilimleri Enstitüsü Fen Bilimleri Dergisi, vol.37, no.3, pp.404-411, 2021 (Peer-Reviewed Journal)
- V. **Engineering of pH-sensitive, cross-linked micelles for drug delivery**
 AYDIN Ö.
 JOURNAL OF RESEARCH IN PHARMACY, vol.25, no.4, pp.359-370, 2021 (ESCI)

Books & Book Chapters

- I. **Determination of Optimum Ratio of Cationic Polymers and Small Interfering RNA with Agarose Gel Retardation Assay**
 AYDIN Ö., Yılmaz Ü., KANARYA D., TUNÇ C. Ü.
 in: Antisense RNA Design, Delivery, and Analysis. Methods in Molecular Biology, vol 2434, Arechavala-Gomeza V; Garanto Alex, Editor, Humana, New York, NY Springer Nature, New York, pp.117-128, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **A New and Fast Approach for Antimicrobial Resistance Detection: Combination of Artificial Intelligence and Surface-Enhanced Raman Spectra**
 AYDIN Ö., Al-Shaebi Z., Akdeniz M., Kursunluoglu G., Zarasız G., YERLİTAŞ S. İ., Sezgin A., ATALAY M. A., SAĞIROĞLU

- P.
- 16th Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2023 and 5th International Conference on Medical and Biological Engineering, CMBEBIH 2023, Sarajevo, Bosnia And Herzegovina, 14 - 16 September 2023, vol.94, pp.98-103
- II. **Development of Polymer-Based Nanoparticles for the Reduction of Melittin Toxicity**
Chatzi Memet B., DEMİRPOLAT E., Yıldırım T., AYDIN Ö.
16th Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2023 and 5th International Conference on Medical and Biological Engineering, CMBEBIH 2023, Sarajevo, Bosnia And Herzegovina, 14 - 16 September 2023, vol.94, pp.45-50
- III. **EMODIN'S EFFECT ON THE SARS-COV-2 ENVELOPE PROTEIN**
BEKÇİ H., Somtürk B., TUNÇ C. Ü., Yılmaz Ü., AYDIN Ö., AYCAN M. B.
INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Nevşehir, Turkey, 15 December 2021
- IV. **Dopamine conjugated Polymer Nanoparticles for Active Targeting**
Yılmaz Ü., Memet B. C., AYDIN Ö., Yıldırım T.
4th International Conference On Natural Products for Cancer Prevention and Therapy, Turkey, 18 December 2021
- V. **Comparison of siRNA Loading Quantification between Spherical and Serrated Gold Nanoparticles**
Comparison of siRNA Loading Quantification between Spherical and Serrated Gold Nanoparticles
Kutlu A. Ü., TUNÇ C. Ü., AYDIN Ö.
European Biotechnology Congress, Bulgaria, 23 September 2021
- VI. **Delivery of Naproxen thiosemicarbazide/1,2,4-triazole Derived Chemotherapy Drugs Using Gold Nanoparticles**
TUNÇ C. Ü., Kurşunluoğlu G., ATALAY DÜNDAR P., HAN M. İ., AYDIN Ö.
INTERNATIONAL CONFERENCE ON APPLIED ENGINEERING AND NATURAL SCIENCES, Turkey, 1 - 03 November 2021
- VII. **Detection of colistin resistant Klebsiella pneumoniae bacteria using surfaceenhanced Raman spectroscopy combined with machine learning**
UYDAL F., Hora M., GÜNDÖĞDU A., TOKMAKÇI M., AYDIN Ö.
BIO Türkiye Organizasyonu Uluslararası Biyoteknoloji Kongresi, Turkey, 9 - 11 September 2021
- VIII. **Investigation of Mammalian Cells Expressing SARS-CoV-2 Proteins by Surface-Enhanced Raman Scattering**
AKDENİZ M., AYDIN Ö.
BIO Türkiye - International Biotechnology Congress, Turkey, 09 September 2021
- IX. **Surface enhanced Raman Spectroscopy Applications in Biomedical Engineering**
AYDIN Ö.
International Materials Science and Nanotechnology for Next Generation Conference (MSNG 2021), Elazığ, Turkey, 14 July 2021
- X. **Development of Gold Nanoparticle Templated Nucleic Acid Assembly for Gene and Drug Delivery**
TUNÇ C. Ü., AYDIN Ö.
International Materials Science and Nanotechnology for Next Generation Conference (MSNG 2021), Elazığ, Turkey, 14 July 2021
- XI. **Microbial Identification with a New Perspective: Surface-Enhanced Raman Spectroscopy with Machine Learning Techniques**
UYDAL F., Sarıdağ A. M., KILIÇ İ. H., TOKMAKÇI M., KAHRAMAN M., AYDIN Ö.
2nd International Conference on Access to Recent Advances in Engineering and Digitalization, Kayseri, Turkey, 10 March 2021
- XII. **Triple-combination therapy against cisplatin-resistant ovarian cancer cells**
Kip B., Aydin Ö.
International Congress on Biological and Health Sciences, Afyonkarahisar, Turkey, 26 - 28 February 2021, pp.169
- XIII. **Investigation of Mammalian Cells Expressing SARS-CoV-2 Proteins by Surface-Enhanced Raman Scattering (SERS)**

- Akdeniz M., Uysal Çiloğlu F., Tunc C. U., Atalay Dündar P., Aydin Ö.
 International Congress on Biological and Health Sciences, Afyonkarahisar, Turkey, 26 - 28 February 2021, pp.168
- XIV. **Cryptosporidium parvum Ookistlerinin Yüzeyde Zenginleştirilmiş Raman Saçılması (SERS) ile İncelenmesi**
 Arslan A. H., Uysal Çiloğlu F., Yılmaz Ü. G., Şimşek E., Aydin Ö.
 V. Yaşam Bilimleri Kongresi, Kayseri, Turkey, 21 - 22 February 2020, pp.33
- XV. **Antibiyotik Dirençli ve Duyarlı Staphylococcus aureus Suşlarının Yüzeyde Zenginleştirilmiş Raman Spektroskopisi ve Temel Bileşen Analizi ile Hızlı Tespiti**
 Uysal Çiloğlu F., Tokmakçı M., Kahraman M., Kılıç İ. H., Aydin Ö.
 V. Yaşam Bilimleri Kongresi, Kayseri, Turkey, 21 - 22 February 2020, pp.21-22
- XVI. **Cryptosporidium parvum Ookistlerinin Yüzeyde Zenginleştirilmiş Raman Saçılması (SERS) ile İncelenmesi**
 Afra Hacer A., UYSAL F., Yılmaz Ü. G., ŞİMŞEK E., AYDIN Ö.
 V. Yaşam Bilimleri Kongresi, Kayseri, Turkey, 21 - 22 February 2020
- XVII. **Rapid Identification of MRSA Using Surface Enhanced Raman Scattering and Support Vector Machine**
 Uysal Çiloğlu F., Tokmakçı M., Kahraman M., Korkmaz A., Kılıç İ. H., Aydin Ö.
 15th Nanoscience and Nanotechnology Conference, Antalya, Turkey, 3 - 06 November 2019, pp.97
- XVIII. **Detection of Cryptosporidium parvum Oocysts via Surface Enhanced Raman Scattering(SERS)**
 YILMAZ Ü. G., PEKDEMİR S., ŞAKİR M., ÖNSES M. S., ŞİMŞEK E., YILDIRIM A., AYDIN Ö.
 15th Nanoscience and Nanotechnology Conference of Turkey (NANOTR-15), Antalya, Turkey, 3 - 06 November 2019, pp.174
- XIX. **Toward PCR-free mutation detection based on surface-enhanced Raman scattering**
 ÇULHA M., KARATAŞ Ö. F., AYDIN Ö., Kahraman M., Keseroğlu K., Sayın İ., Bayrak Ö. F.
 SPIE 7192, Plasmonics in Biology and Medicine VI, San Jose, United States Of America, 17 - 21 February 2009, pp.701-710

Episodes in the Encyclopedia

- I. **Encyclopedia of Nanoscience and Nanotechnology,**
 ÇULHA M., KAHRAMAN M., KARATAŞ Ö. F., AYDIN Ö.
 American Scientific Publishers, pp., 2009

Supported Projects

- AYDIN Ö., EKİŞİ O. B., EKİŞİ O. B., Project Supported by Higher Education Institutions, Üçlü Negatif Meme Kanserine karşı siRNA ve Kuarsetin Yüklü Gümüş-tabanlı Hibrit Nanoparçacığın Geliştirilmesi, 2023 - Continues
- SAÇU İ. E., AL S., DANIŞMAN K., AYDIN Ö., AHMED A. O., Project Supported by Higher Education Institutions, Biyoteknoloji Uygulamaları için Ayarlanabilir Elektroporasyon Cihaz Prototipinin Geliştirilmesi ve Test Edilmesi, 2023 - Continues
- AYDIN Ö., KANBUR E., CHATZI MEMET B., KURŞUNLUOĞLU AYDIN G., YERLİKAYA A., Project Supported by Higher Education Institutions, Arı zehrindeki melittinin senolitik ve senomorfik özelliklerinin nanotaşıyıcılar ile primer insan ve primer fare hücreleri üzerinde araştırılması, 2023 - Continues
- AYDIN Ö., ATALAY M. A., AL-SHAEBI Z. A. Z., SAĞIROĞLU P., ZARARSIZ G., KURŞUNLUOĞLU AYDIN G., YERLİTAŞ S. İ., AKDENİZ M., SEZGİN A., KANBUR E., Project Supported by Higher Education Institutions, Yüzeyde Zenginleştirilmiş Raman Saçılmasına ve Makine Öğrenmesine ile Antibiyotik Dirençli Bakterilerin Hızlı Teşhisine Yönelik Sistemlerinin Geliştirilmesi, 2023 - Continues
- AYDIN Ö., KUTLU A. Ü., TUNC C. Ü., KURŞUNLUOĞLU AYDIN G., Project Supported by Higher Education Institutions, Nanoparçacık Geometrisinin siRNA Gen Transfeksiyonuna Etkisi, 2022 - Continues
- AYCAN M. B., KARAKÜKCÜ Ç., KURŞUNLUOĞLU AYDIN G., ZARARSIZ G., YILMAZ Ü., YILDIRIM T., AYDIN Ö., Project Supported by Higher Education Institutions, Şizofreni Modelinde Dopamin İnhibisyonu için AMPT Konjuge Dopamin

Hedefli Polimerik Nanotaşıyıcı Sistemlerin Geliştirilmesi, 2022 - Continues

AYDIN Ö., HAMURCU Z., TUNÇ C. Ü., TAHERİ S., KURŞUNLUOĞLU AYDIN G., YUMUK K., Project Supported by Higher Education Institutions, miR186'nın Nanotaşıyıcılarla Meme Kanseri Hücrelerine Taşınması ve Antikanser Rollünün Araştırılması, 2022 - Continues

AYDIN Ö., ÇAKIR Ş., Project Supported by Higher Education Institutions, Krisinin Nanoformülasyonu ve Terapötik Etkinliğinin İncelenmesi, 2022 - Continues

AYDIN Ö., HAMURCU Z., ULUTABANCA H., ERTAŞ Y. N., DENİZ K., DANIŞMAN K., YÜKSEL DURMAZ Y., TAHERİ S., ÖZPOLAT B., ÖZDEMİR A. T., Project Supported by Higher Education Institutions, Lipozom siRNA ve TMZ İkili Tedavisinin Geliştirilmesi ve İn Vivo Fare Glioblastoma Modelinde Odaklanmış Ultrason (FUS) Aracılı İletimi ve Etkilerinin Araştırılması, 2020 - Continues

Aydın Ö., TUBITAK Project, Odaklanmış Ultrason Tedavisinde Kullanılmak Üzere Biyomimetik Ultrason-Aktif Altın Nanokon Parçacığın Geliştirilmesi ve Geliştirilen Bu Tedavi ile anti-PD-1 İmmün Terapinin Etkinliğinin Arttırılması, 2022 - 2025

ERTAŞ Y. N., ÖZDARENDELİ A., AYDIN Ö., KARATAŞ Ö. F., TUBITAK Project, Anti-Ace2 Antikor İle Dekore Edilmiş Ve Mir-1275 Yüklenmiş Niyozyom Yapıları İle Sars-Cov-2 Viral Genomunun Hedeflenmesi, 2022 - 2025

AYDIN Ö., Durmaz Y. Y., Aydemir E., Tunç C. Ü., TUBITAK Project, Kordomada MUC1 Genine Özgü CRISPR-CAS9 Plazmid Taşıyan Çekirdek Hedefli Akıllı Nanoparçacıkların Geliştirilmesi ve İmatinib ile İkili Tedavi Etkisinin İncelenmesi, 2021 - 2024

HAMURCU Z., İNANÇ M., AYDIN Ö., ULUTABANCA H., AKYILDIZ H. Y., ÖZKUL Y., ÖZ A. B., Project Supported by Higher Education Institutions, Ortotopik Ksenograft (Zenograf) Üçlü Rezeptör Negatif Meme Kanser Fare Modellerinde Serotonin ve Metergolinin Rollerinin Araştırılması, 2020 - 2024

Keklik M., Aydın Ö., Öktem F., Project Supported by Higher Education Institutions, Akut lösemilerin yüzeyde zenginleştirilmiş raman spektrometresi ile incelenmesi, 2022 - 2023

AYDIN Ö., UYSAL ÇILOĞLU F., ALSHAEBI Z. A. Z., Project Supported by Higher Education Institutions, Makine Öğrenmesi Algoritmalarıyla Birleştirilmiş Yüzeyi Zenginleştirilmiş Raman Spektroskopisi Kullanılarak Antimikrobiyal Direnç Tespiti, 2022 - 2023

AYDIN Ö., KÖŞKER F. B., İÇÖZ K., Project Supported by Higher Education Institutions, Biyoalgılama için Mikroakiskan Sistemlerin Geliştirilmesi, 2022 - 2023

DEMİRPOLAT E., CHATZI MEMET B., AYDIN Ö., Project Supported by Higher Education Institutions, MELİTTİNİN POLİMERİK NANOPARÇACIKLAR İLE KOMPLEKSİNİN LPS İLE İNDÜKLENMİŞ RAW 264.7 HÜCRELERİNDE ANTI-ENFLAMATUAR ETKİSİNİN ARAŞTIRILMASI, 2022 - 2023

AYDIN Ö., WALWEEL N. S., TUNÇ C. Ü., Project Supported by Higher Education Institutions, LC3 siRNA ve Doktorubisin İkili Tedavisinin Meme Kanserine Karşı Etkisinin İncelenmesi, 2022 - 2023

Duman F., Balkaya H., Demirbuğa S., Aydın Ö., Ceylan A., Project Supported by Higher Education Institutions, Balık pulu kaynaklı kollajen-hidroksiyapatit nanokompozit içerikli deneysel kuafaj materyalinin karakterizasyonu, 2021 - 2023

ÖNSES M. S., ERTAŞ Y. N., YILMAZ E., PEKDEMİR S., TÖRÜN İ., ŞAKİR M., AYDIN Ö., ÖZDEMİR A. T., YILDIZ F., Project Supported by Higher Education Institutions, Sensör Uygulamaları için Nanoyapılı Plazmonik Yüzeylerin Üretilmesi ve Karakterizasyonu, 2020 - 2023

AYDIN Ö., TUNÇ C. Ü., Project Supported by Higher Education Institutions, Altın Nanopartiküller Kullanılarak Eş Zamanlı Gen ve İlaç Taşınması ile Meme Kanseri Hücrelerinde Antitümör Aktivitenin Arttırılması, 2020 - 2023

Aydın Ö., Project Supported by Higher Education Institutions, SARSCoV2 Proteinlerinin Anlatımını Yapan Memeli Hücrelerinin Yüzeyde Zenginleştirilmiş Raman Saçılması ile İncelenmesi, 2021 - 2022

ATALAY DÜNDAR P., AYDIN Ö., YILMAZ Ü., KANARYA D., Project Supported by Higher Education Institutions, SARS-CoV2 Spike proteinini hedeflemek üzere in vitro hücre modeli geliştirilmesi, 2020 - 2022

AYDIN Ö., KİP B., Project Supported by Higher Education Institutions, Ultrasonaktif Nanoparçacığın Kemoterapiye Dirençli Ovaryum Kanser Üzerine Etkisinin İncelenmesi, 2020 - 2022

AYDIN Ö., KANARYA D., Project Supported by Higher Education Institutions, Kemoterapiye Dirençli Yumurtalık Kanserine Karşı Nanotip Tabanlı Yenilikçi Gen Terapi Sistemlerinin Geliştirilmesi, 2020 - 2022

TOKMAKÇI M., AYDIN Ö., UYSAL ÇILOĞLU F., Project Supported by Higher Education Institutions, Antibiyotik Dirençli ve Duyarlı Bakterilerin Yüzeyde Zenginleştirilmiş Raman Spektroskopisi ve Makine Öğrenmesi Teknikleri ile Tespiti ve Sınıflandırılması, 2020 - 2021

AYDIN Ö., ARSLAN A. H, Project Supported by Higher Education Institutions, Cryptosporidium parvum Ookistlerinin Yüzeyde Zenginleştirilmiş Raman Saçılması SERS ile İncelenmesi, 2020 - 2021

YILMAZ E., ŞAHMETLİOĞLU E., ÖNSES M. S., AYDIN Ö., PEKDEMİR S., SEZER G., YAY A. H., SANDUVAÇ S., Project Supported by Higher Education Institutions, Yüzeyde Güçlendirilmiş Raman Spektroskopisi (SERS) Temelli İlaç Analizlerinde Fotokatalitik Olarak Üretilmiş Metal Nanopartiküllerin Kullanımı, 2019 - 2021

ÖZDARENDELİ A., AKTAŞ Y., EKEN A., DOĞANAY M., SEZER Z., AYDIN Ö., ÖZCAN S., YÜCEL Ç., TUBITAK Project, İnsanlarda Enfeksiyon Hastalıklarına ve Kansere Karşı İleri Teknoloji Kullanarak Prototip Aşıların Geliştirilmesi, 2018 - 2019

Memberships / Tasks in Scientific Organizations

Cancer and Bone Society, Member, 2018 - Continues

American Society for Bone and Mineral Research, Member, 2013 - Continues

Biomedical Engineering Society (BMES), Member, 2012 - Continues

Scientific Refereeing

SMALL, Journal Indexed in SCI-E, March 2024

SPECTROCHIMICA ACTA - PART A: MOLECULAR SPECTROSCOPY, Journal Indexed in SCI-E, March 2024

ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, March 2024

SMALL, SCI Journal, December 2023

ACS MEDICINAL CHEMISTRY LETTERS, Journal Indexed in SCI-E, December 2023

INTERNATIONAL JOURNAL OF NANOMEDICINE, Journal Indexed in SCI-E, December 2023

BIOMEDICAL SIGNAL PROCESSING AND CONTROL, Journal Indexed in SCI-E, November 2023

MOLECULAR PHARMACEUTICS, Journal Indexed in SCI-E, October 2023

ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, October 2023

ACS ES&T WATER, Journal Indexed in SCI-E, October 2023

ACS APPLIED NANO MATERIALS, Journal Indexed in SCI-E, September 2023

MOLECULAR NEUROBIOLOGY, Journal Indexed in SCI-E, August 2023

ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, August 2023

JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, August 2023

CELL BIOCHEMISTRY AND FUNCTION, Journal Indexed in SCI-E, July 2023

CANCER MEDICINE, Journal Indexed in SCI-E, July 2023

SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, Journal Indexed in SCI-E, May 2023

FRONTIERS IN ONCOLOGY, Journal Indexed in SCI-E, May 2023

ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, May 2023

SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, Journal Indexed in SCI-E, April 2023

SENSORS AND ACTUATORS, B: CHEMICAL, Journal Indexed in SCI-E, March 2023

ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, March 2023

INFECTION AND DRUG RESISTANCE, Journal Indexed in SCI-E, March 2023

ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, March 2023

SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, Journal Indexed in SCI-E, February 2023

ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, February 2023

ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, January 2023

PHARMACEUTICS, Journal Indexed in SCI-E, January 2023

ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, January 2023

ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, January 2023

SENSORS AND ACTUATORS, B: CHEMICAL, National Scientific Refreed Journal, January 2023
EU Supported Other Project, Avrupa Birliği Proje Paydaş Ülkeleri, Turkey, January 2023
ADVANCED INTELLIGENT SYSTEMS, Journal Indexed in SCI-E, December 2022
SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, Journal Indexed in SCI-E, December 2022
SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, Journal Indexed in SCI-E, December 2022
ANALYTICA CHIMICA ACTA, SCI Journal, November 2022
ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, November 2022
ADVANCED INTELLIGENT SYSTEMS, SCI Journal, November 2022
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, PACEM TEKNOLOJİ ANONİM ŞİRKETİ, Turkey, November 2022
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, November 2022
ADVANCED INTELLIGENT SYSTEMS, Journal Indexed in SCI-E, October 2022
ANALYTICA CHIMICA ACTA, SCI Journal, October 2022
SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, Journal Indexed in SCI-E, October 2022
ANALYTICA CHIMICA ACTA, SCI Journal, September 2022
GAZI UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, September 2022
ANALYTICA CHIMICA ACTA, SCI Journal, August 2022
NANOTECHNOLOGY, Journal Indexed in SCI-E, August 2022
ANALYTICA CHIMICA ACTA, SCI Journal, July 2022
NANOTECHNOLOGY, Journal Indexed in SCI-E, July 2022
ANALYTICA CHIMICA ACTA, Journal Indexed in SCI-E, June 2022
COMMUNICATIONS CHEMISTRY, Journal Indexed in SCI-E, May 2022
TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , Erciyes University, Turkey, May 2022
COMMUNICATIONS CHEMISTRY, Journal Indexed in SCI-E, April 2022
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, Journal Indexed in SCI-E, April 2022
JOURNAL OF RAMAN SPECTROSCOPY, Journal Indexed in SCI-E, April 2022
ANALYTICA CHIMICA ACTA, SCI Journal, March 2022
JOURNAL OF PHYSICAL CHEMISTRY, Journal Indexed in SCI-E, March 2022
ACS OMEGA, Journal Indexed in SCI-E, March 2022
JOURNAL OF RAMAN SPECTROSCOPY, SCI Journal, February 2022
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, SCI Journal, February 2022
ACS OMEGA, Journal Indexed in SCI-E, February 2022
NANOTECHNOLOGY, SCI Journal, February 2022
BRAIN SCIENCES, Journal Indexed in SCI-E, January 2022
ARCHIVES OF MEDICAL SCIENCE, Journal Indexed in SCI-E, January 2022
JOURNAL OF PHYSICAL CHEMISTRY, SCI Journal, January 2022
NANOTECHNOLOGY, SCI Journal, January 2022
BRAIN SCIENCES, Journal Indexed in SCI-E, January 2022
ACS OMEGA, Journal Indexed in SCI-E, January 2022
CURRENT DRUG DELIVERY, SCI Journal, December 2021
ACS OMEGA, SCI Journal, November 2021
NANOTECHNOLOGY, SCI Journal, November 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, November 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, November 2021

ACS OMEGA, SCI Journal, October 2021

NANOTECHNOLOGY, SCI Journal, October 2021

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Erciyes University, Turkey, September 2021

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Erciyes University, Turkey, September 2021

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, Erciyes University, Turkey, September 2021

ACS OMEGA, SCI Journal, August 2021

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Erciyes University, Turkey, August 2021

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Erciyes University, Turkey, June 2021

TUBITAK Project, 2218 - Yurt İçi Doktora Sonrası Araştırma Burs Programı, Erciyes University, Turkey, June 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, June 2021

NANOTECHNOLOGY, SCI Journal, April 2021

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, PRODA ENDÜSTRİYEL TASARIM, Turkey, April 2021

NANOTECHNOLOGY, SCI Journal, March 2021

ANALYTICAL CHEMISTRY, SCI Journal, March 2021

Natural and Applied Sciences Journal, Other Journals, February 2021

NANOTECHNOLOGY, SCI Journal, January 2021

TUBITAK Project, 2209-B - Sanaiye Yönelik Lisans Araştırma Projeleri Destekleme Programı, Erciyes University, Turkey, January 2021

TUBITAK Project, 1002 - Quick Support Program, Erciyes University, Turkey, January 2021

NANOTECHNOLOGY, SCI Journal, December 2020

TUBITAK Project, 1002 - Quick Support Program, Yıldız Technical University, Turkey, November 2020

Project Supported by Other Official Institutions, Ege University, Turkey, November 2020

MOLECULAR ONCOLOGY, SCI Journal, October 2020

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Erciyes University, Turkey, October 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, PLASTİ-MED PLASTİK MEDİKAL ÜRÜNLER SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey, October 2020

TUBITAK Project, 1002 - Quick Support Program, Erciyes University, Turkey, September 2020

TUBITAK Project, 1002 - Quick Support Program, Erciyes University, Turkey, September 2020

NANOTECHNOLOGY, SCI Journal, August 2020

Project Supported by Other Official Institutions, Inonu University, Turkey, August 2020

NANOTECHNOLOGY, SCI Journal, July 2020

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, EXPLORIA İLERİ TEKNOLOJİLER VE BİLİMSEL MATERİYALLER TASARIM SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey, June 2020

NANOTECHNOLOGY, SCI Journal, May 2020

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, ASTEN MAKİNE ARGE MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED LİMİTED ŞİRKETİ, Turkey, April 2020

Theranostics, SCI Journal, February 2020

MOLECULAR ONCOLOGY, SCI Journal, February 2020

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, NORLAND MEDİKAL ÜRÜNLER SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey, February 2020

MOLECULAR ONCOLOGY, SCI Journal, January 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, December 2019

PHYSICA SCRIPTA, SCI Journal, September 2019

TUBITAK Project, 1002 - Quick Support Program, Erciyes University, Turkey, September 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, June 2019

J. Phys. D: Appl. Phys, SCI Journal, February 2019
Nanotechnology, SCI Journal, July 2018
Nanotechnology, SCI Journal, May 2018
Nanotechnology, SCI Journal, January 2018
Nanotechnology, SCI Journal, November 2017
Nanotechnology, SCI Journal, October 2017
Measurement Science and Technology, SCI Journal, July 2017
Biomedical Materials, SCI Journal, June 2017
Biofabrication, SCI Journal, December 2016
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji , National Scientific Refreed Journal, September 2016
Nanotechnology, SCI Journal, September 2016

Metrics

Publication: 61
Citation (WoS): 503
Citation (Scopus): 638
H-Index (WoS): 13
H-Index (Scopus): 15

Congress and Symposium Activities

2nd International Congress of Updates in Biomedical Engineering April 16-17, 2020, Invited Speaker, İzmir, Turkey, 2020
5th Life Sciences Conference, Invited Speaker, Kayseri, Turkey, 2020
The 13th Conferences of Affinity Techniques, Invited Speaker, İzmir, Turkey, 2019
FACSS- A Single Nucleotide Polymorphism Screening Method Based on Surface-Enhanced Raman Scattering, Attendee, Nevada, United States Of America, 2008
National Anayltical Chemistry Congress- Application of Surface Plasmons on Analytical and Bioanalytical Chemistry, Attendee, Elazığ, Turkey, 2008
NANOTR- Monitoring The Interactions of The Noble Metal Nanoparticles with Biomolecules and Structures in Biological Systems, Attendee, Turkey, 2008
NANOTR- Laser Wavelength Dependence of Surface-enhanced Raman Scattering Substrates, Attendee, Turkey, 2008
NANOTR- Nanoparticle Aggregation Control in Micron-Size Wells, Attendee, Turkey, 2008
NANOTR- Monitoring The Interactions of The Noble Metal Nanoparticles with Biomolecules and Structures in Biological Systems, Attendee, Turkey, 2008
NANOTR- Modified Gold Nanoparticles for Bioanalysis, Attendee, Turkey, 2008
NANOTR- Development of Novel SERS Substrate via Controlling Inter-Particle Distance, Attendee, İstanbul, Turkey, 2008
NANOTR- Interaction of Gold and Silver Nanoparticles with Subcellular Structures, Attendee, Turkey, 2008
NANOTR- Towards Cancer Diagnosis by Intracellularly Grown Gold Nanoparticles, Attendee, Turkey, 2008
BIYOMUT-A New Detection Method for Tissue Differentiation, Attendee, Ankara, Turkey, 2008
EMBO-The Influence of Nanoparticles on Cancerous Cell Lines, Attendee, İstanbul, Turkey, 2008

Invited Talks

Adventure of a Biomedical Engineering in Science and Research, Seminar, Başkent Üniversitesi, Turkey, May 2021
Nanotheranostics and Its Applications in Medicine, Seminar, Gebze Teknik Üniversitesi, Turkey, November 2020
Development of Novel Nanomedicines for Treatment of Primary and Metastatic Prostate Cancer and Pulsed Focused Ultrasound (pFUS) Modulation of Tumor Microenvironments, Seminar, Yeditepe Üniversitesi, Turkey, March 2018

Development of Novel Nanomedicines for Treatment of Primary and Metastatic Prostate Cancer, Seminar, İzmir Demokrasi Üniversitesi, Turkey, November 2017

Engineering of Ultrasound Active Nanobubbles and Ultrasound-based Immunotherapy, Seminar, Acbadem Mehmet Ali Aydınlar Üniversitesi, Turkey, November 2017

Nanomedicine and Biomedical Engineering, Seminar, Pamukkale Üniversitesi, Turkey, October 2017

Engineering of Ultrasound Active Nanobubbles and Ultrasound-based Immunotherapy, Seminar, TÜBİTAK-UME, Turkey, October 2017

Development of Novel Nanomedicines for Treatment of Primary and Metastatic Prostate Cancer and Pulsed Focused Ultrasound (pFUS) Modulation of Tumor Microenvironments, Seminar, Boğaziçi Üniversitesi, Turkey, October 2017

Development of Novel Nanomedicines for Treatment of Primary and Metastatic Prostate Cancer and Pulsed Focused Ultrasound (pFUS) Modulation of Tumor Microenvironments, Seminar, Gebze Teknik Üniversitesi, Turkey, September 2017

Development of Novel Nanomedicines for Treatment of Primary and Metastatic Prostate Cancer, Seminar, The University of Wisconsin Madison, United States Of America, April 2016

Nanodroplet Mediated Histotripsy (NMH) Cell Ablation on 3D Prostate Cancer Cell Models, Conference, The University of Michigan, United States Of America, October 2015

Nanomedicine Solutions on Focal and Metastatic Prostate Cancer Treatment, Seminar, Case Western Reserve University, United States Of America, March 2015

Scholarships

Rackham Summer Awards, University, 2015 - Continues

1416 Yurtdışı Doktora Bursu, University, 2008 - Continues

2228-A SON SINIF LİSANS ÖĞRENCİLERİ İÇİN LİSANSÜSTÜ (YÜKSEK LİSANS/DOKTORA) BURS PROGRAMI, University, 2007 - Continues

Awards

Öktem F., Akdeniz M., Keklik M., Aydin Ö., Akyol G., Ünal A., The Best Oral Presentation Award, 1st Place, 11Th Aegean Hematology Oncology Conference, April 2023

Aydin Ö., Uysal Çiloğlu F., AI-based Antimicrobial Resistance Solution (AI-AMRS), Kaust-King Abdullah University Of Science And Technology, January 2022

AYDIN Ö., 1st Place Poster Award in Engineering in Biological Systems, University of Michigan Engineering Graduate Symposium, University of Michigan, October 2015

AYDIN Ö., Gold Medal from the invited talk of Macromolecular Science & Engineering, 39th Macromolecular Symposium, University of Michigan, October 2015

AYDIN Ö., Eight Fellows Forum on Metabolic Bone Disease, Endocrine Fellows Foundation, September 2014

AYDIN Ö., Frank E. Filko Poster Award, Macromolecular Science and Engineering 35th Annual Symposium, University of Michigan, October 2011

AYDIN Ö., 2209-A Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, TÜBİTAK, September 2006