

Assoc. Prof. AÇELYA YILMAZER AKTUNA

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: L-4562-2013

ScopusID: 35286128700

Yoksis Researcher ID: 218630

Education Information

Doctorate, University of London, Tıbbi Biyoloji Ve Genetik, United Kingdom 2008 - 2012

Postgraduate, University Of Nottingham {England}, Kanser İmmünoterapisi, United Kingdom 2007 - 2008

Undergraduate, Middle East Technical University, Fen-Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, Turkey 2003 - 2007

Dissertations

Doctorate, Mechanisms, Obstacles and Opportunities of Artificially Enveloped Adenovirus for Safe and Efficient Gene Delivery, University of London, Tıbbi Biyoloji Ve Genetik, 2012

Postgraduate, Expression of Interleukin-17 in tumour lessons, University Of Nottingham {England}, Kanser İmmünoterapisi, 2008

Research Areas

Medicine, Pharmacology and Therapeutics, Biomedical Engineering

Academic Titles / Tasks

Associate Professor, Ankara University, Mühendislik Fakültesi, Biyomedikal Mühendisliği Bölümü, 2020 - Continues

Assistant Professor, Ankara University, Mühendislik Fakültesi, Biyomedikal Mühendisliği Bölümü, 2015 - 2020

Research Assistant, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 2013 - 2015

Research Assistant, University College London, School Of Pharmacy, Pharmacuetics, 2012 - 2013

Academic and Administrative Experience

Ankara University, 2016 - Continues

Courses

Cell Biology, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Fundamentals of Biological Sciences, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
BIOMEDICAL ENGINEERING DESIGN II, Undergraduate, 2022 - 2023, 2021 - 2022
Stem Cells and Cancer, Undergraduate, 2022 - 2023, 2021 - 2022
Biochemistry, Undergraduate, 2023 - 2024, 2022 - 2023
Fundamentals of Biological Sciences, Postgraduate, 2023 - 2024
BIOMEDICAL ENGINEERING DESIGN I, Undergraduate, 2023 - 2024, 2022 - 2023
Advances In Biomedical Engineering, Postgraduate, 2023 - 2024, 2022 - 2023
Cell and Gene Therapy, Postgraduate, 2022 - 2023, 2021 - 2022
CELLULAR REPROGRAMMING AND INDUCED PLURIPOTENT STEM CELLS , Doctorate, 2022 - 2023
Nanomedicine, Undergraduate, 2022 - 2023
Introduction to Biomedical Engineering, Undergraduate, 2018 - 2019, 2017 - 2018
Cell and Gene Therapy, Postgraduate, 2018 - 2019
Biotechnology and Biochemistry, Postgraduate, 2017 - 2018
Biyoteknoloji ve Biyokimya, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Hücre Biyolojisi (Cell Biology), Undergraduate, 2016 - 2017, 2015 - 2016
INTRODUCTION TO BIOMEDICAL ENGINEERING, Postgraduate, 2016 - 2017
Biyomedikal Mühendisliğine Giriş (Introduction to Biomedical Engineering), Undergraduate, 2016 - 2017
Biyokimya Laboratuvarı, Undergraduate, 2013 - 2014

Advising Theses

Yilmazer Aktuna A., 3-D Printed Recombinant Collagen Type 2 and Calcium Phosphate Cement Cartilage Tissue Scaffolds for Joint Cartilage Defects, Postgraduate, H.HANDE(Student), 2023
Yilmazer Aktuna A., Hücre kültürü kaynaklı hücreler arası matris tabanlı biyomürekkep ile 3 boyutlu biyobaskı, Postgraduate, D.ÇELİK(Student), 2023
Yilmazer Aktuna A., 2 boyutlu nanomalzemelerin glioblastoma fotodinamik tedavisinde kullanımı, Doctorate, A.FÜLDEN(Student), 2023
Yilmazer Aktuna A., Investigating the effects of graphene oxide of different sizes on immune cells in static and dynamic environments, Postgraduate, O.PANATLI(Student), 2022
YILMAZER AKTUNA A., Üç boyutlu biyobaskı teknolojisinin yağ doku kaynaklı mezenkimal kök hücreler üzerindeki oksidatif strese etkisi, Postgraduate, D.ALKAYA(Student), 2021
YILMAZER AKTUNA A., DESIGN AND SIMULATION OF ORGAN-ON-A-CHIP SYSTEMS USED FOR IN VITRO TEST OF NANOMATERIALS, Postgraduate, R.RANA(Student), 2021
Yilmazer Aktuna A., Grafen tabanlı malzemelerin insan mezenkimal kök hücreleri nöronlara farklılaştırma potansiyeli, Postgraduate, T.Aydın(Student), 2020
YILMAZER AKTUNA A., Grafen tabanlı malzemelerin insan mezenkimal kök hücreleri nöronlara farklılaştırma potansiyeli, Postgraduate, D.TUĞÇE(Student), 2020
Yilmazer Aktuna A., Hücre programlamanın kanser tedavisi olarak kullanılması, Doctorate, H.Taheri(Student), 2018
YILMAZER AKTUNA A., Hücre programlamanın kanser tedavisi olarak kullanılması, Doctorate, H.TAHERI(Student), 2018
YILMAZER AKTUNA A., Grafen oksitin 2-boyutta ve 3-boyutta büyütülen kanser hücreleri üzerine etkileri, Postgraduate, C.GÜRCAN(Student), 2018
YILMAZER AKTUNA A., Kanser hücrelerinin programlanmasının mikroRNA ifade profili üzerindeki etkileri, Postgraduate, N.KAAN(Student), 2018

Jury Memberships

Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, November, 2023
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Ankara

Üniversitesi, July, 2023

Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, June, 2023

Post Graduate, Post Graduate, Hacettepe Üniversitesi, May, 2023

Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, February, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Biosensors for stem cell-based applications: Current trends and future prospects**
Arif T., BİLGE YÜCEL S., UYAR R., ÖZÇELİKAY AKYILDIZ G., Summak G. Y., ÜNAL M. A., YILMAZER AKTUNA A., ÖZKAN S. A.
Microchemical Journal, vol.198, 2024 (SCI-Expanded)
- II. **Early cancer detection based on exosome biosensors in biological samples**
UYAR R., ÖZÇELİKAY AKYILDIZ G., Kaya S. İ., BEREKETOĞLU NERGİS S., Beşbinar Ö., ÜNAL M. A., YILMAZER AKTUNA A., ÖZKAN S. A.
Sensors and Actuators B: Chemical, vol.400, 2024 (SCI-Expanded)
- III. **Small Warriors of Nature: Novel Red Emissive Chlorophyllin Carbon Dots Harnessing Fenton-Fueled Ferroptosis for In Vitro and In Vivo Cancer Treatment**
Kirbas Cilingir E., Besbinar O., Giro L., Bartoli M., Hueso J. L., Mintz K. J., Aydogan Y., Garber J. M., TÜRKTAŞ M., EKİM O., et al.
SMALL, 2024 (SCI-Expanded)
- IV. **Synergized photothermal therapy and magnetic field induced hyperthermia via bismuthene for lung cancer combinatorial treatment.**
Yilmazer A., Eroglu Z., Gurcan C., Gazzi A., Ekim O., Sundu B., Gokce C., Ceylan A., Giro L., Unal M. A., et al.
Materials today. Bio, vol.23, pp.100825, 2023 (SCI-Expanded)
- V. **Low Dose of Ti3C2 MXene Quantum Dots Mitigate SARS-CoV-2 Infection**
YILMAZER AKTUNA A., Alagarsamy K. N., Gokce C., Summak G. Y., Rafieerad A., Bayrakdar F., ÖZTÜRK İ., Aktuna S., Delogu L. G., ÜNAL M. A., et al.
Small Methods, vol.7, no.8, 2023 (SCI-Expanded)
- VI. **V4C3 MXene Immune Profiling and Modulation of T Cell-Dendritic Cell Function and Interaction**
Fusco L., Gazzi A., Shuck C. E., Orecchioni M., Ahmed E. I., Giro L., Zavan B., YILMAZER AKTUNA A., Ley K., Bedognetti D., et al.
Small Methods, vol.7, no.8, 2023 (SCI-Expanded)
- VII. **Amino-functionalized nitrogen-doped graphene quantum dots and silver-graphene based nanocomposites: Ultrafast charge transfer and a proof-of-concept study for bioimaging applications**
KARATAY A., ERDENER ÇIRALI D., Gurcan C., Yildiz E., YILMAZER AKTUNA A., BOYACIOĞLU B., ÜNVER H., YILDIZ M., ELMALI A.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.426, 2022 (SCI-Expanded)
- VIII. **2D Materials for Cardiac Tissue Repair and Regeneration**
Gokce C., Gurcan C., Delogu L. G., YILMAZER AKTUNA A.
FRONTIERS IN CARDIOVASCULAR MEDICINE, vol.9, 2022 (SCI-Expanded)
- IX. **Graphene oxide activates B cells with upregulation of granzyme B expression: evidence at the single-cell level for its immune-modulatory properties and anticancer activity**
Orecchioni M., Fusco L., Mall R., Bordoni V., Fuoco C., Rinchai D., Guo S., Sainz R., Zoccheddu M., Gurcan C., et al.
NANOSCALE, vol.14, no.2, pp.333-349, 2022 (SCI-Expanded)
- X. **Facemask Global Challenges: The Case of Effective Synthesis, Utilization, and Environmental Sustainability**
Shirvanimoghaddam K., Czech B., Yadav R., Gokce C., Fusco L., Delogu L. G., YILMAZER AKTUNA A., Brodie G., Al-Othman A., Al-Tamimi A. K., et al.
SUSTAINABILITY, vol.14, no.2, 2022 (SCI-Expanded)
- XI. **Emerging 2D materials for antimicrobial applications in the pre- and post-pandemic era**

- Gokce C., Gurcan C., Besbinar O., ÜNAL M. A., YILMAZER AKTUNA A.
NANOSCALE, vol.14, no.2, pp.239-249, 2022 (SCI-Expanded)
- XII. **Reasons for success and lessons learnt from nanoscale vaccines against COVID-19**
Kisby T., YILMAZER AKTUNA A., Kostarelos K.
NATURE NANOTECHNOLOGY, vol.16, no.8, pp.843-850, 2021 (SCI-Expanded)
- XIII. **Lateral dimension and amino-functionalization on the balance to assess the single-cell toxicity of graphene on fifteen immune cell types**
Fusco L., Orecchioni M., Reina G., Bordoni V., Fuoco C., Gurcan C., Guo S., Zoccheddu M., Collino F., Zavan B., et al.
NANOIMPACT, vol.23, 2021 (SCI-Expanded)
- XIV. **2D MXenes with antiviral and immunomodulatory properties: A pilot study against SARS-CoV-2**
ÜNAL M. A., Bayrakdar F., Fusco L., Besbinar O., Shuck C. E., Yalcin S., TÜRKTAŞ ERKEN M., ÖZKUL A., Gurcan C., PANATLI O., et al.
NANO TODAY, vol.38, 2021 (SCI-Expanded)
- XV. **Graphene Oxide Nanosheets Interact and Interfere with SARS-CoV-2 Surface Proteins and Cell Receptors to Inhibit Infectivity**
ÜNAL M. A., Bayrakdar F., NAZIR H., Besbinar O., Gurcan C., Lozano N., Arellano L. M., Yalcin S., PANATLI O., Celik D., et al.
SMALL, vol.17, no.25, 2021 (SCI-Expanded)
- XVI. **Ribavirin shows antiviral activity against SARS-CoV-2 and downregulates the activity of TMPRSS2 and the expression of ACE2 in vitro**
ÜNAL M. A., BİTİRİM C. V., Summak G. Y., BEREKETOĞLU NERGİS S., Zeytin I. C., Besbinar O., Gurcan C., Aydos D., Goksoy E., Kocakaya E., et al.
CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, vol.99, no.5, pp.449-460, 2021 (SCI-Expanded)
- XVII. **Biocompatibility studies of macroscopic fibers made from carbon nanotubes: Implications for carbon nanotube macrostructures in biomedical applications**
Yan J. S., Orecchioni M., Vitale F., Coco J. A., Duret G., Antonucci S., Pamulapati S. S., Taylor L. W., Dewey O. S., Di Sante M., et al.
CARBON, vol.173, pp.462-476, 2021 (SCI-Expanded)
- XVIII. **Deep Tissue Translocation of Graphene Oxide Sheets in Human Glioblastoma 3D Spheroids and an Orthotopic Xenograft Model**
de Lazaro I., Sharp P., Gurcan C., CEYLAN A., Stylianou M., Kisby T., Chen Y., Vranic S., Barr K., Taheri H., et al.
ADVANCED THERAPEUTICS, vol.4, no.1, 2021 (SCI-Expanded)
- XIX. **Understanding factors affecting human chondrocyte culturing: an experimental study**
Kılıç P., Gurcan C., Gürman G., Yilmazer Aktuna A.
CELL AND TISSUE BANKING, vol.21, no.4, pp.585-596, 2020 (SCI-Expanded)
- XX. **Bioinspired Scaffold Action Under the Extreme Physiological Conditions of Simulated Space Flights: Osteogenesis Enhancing Under Microgravity**
Avitabile E., Fusco L., Minardi S., Orecchioni M., Zavan B., YILMAZER AKTUNA A., Rauner M., Pippia P., Tasciotti E., Delogu L. G.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.8, 2020 (SCI-Expanded)
- XXI. **Toward Nanotechnology-Enabled Approaches against the COVID-19 Pandemic**
Weiss C., Carriere M., Fusco L., Capua I., Regla-Nava J. A., Pasquali M., Scott A. A., Vitale F., ÜNAL M. A., Mattevi C., et al.
ACS NANO, vol.14, no.6, pp.6383-6406, 2020 (SCI-Expanded)
- XXII. **Toward High-Dimensional Single-Cell Analysis of Graphene Oxide Biological Impact: Tracking on Immune Cells by Single-Cell Mass Cytometry**
Orecchioni M., Bordoni V., Fuoco C., Reina G., Lin H., Zoccheddu M., YILMAZER AKTUNA A., Zavan B., Cesareni G., Bedognetti D., et al.
SMALL, vol.16, no.21, 2020 (SCI-Expanded)
- XXIII. **Photocatalytically Active Graphitic Carbon Nitride as an Effective and Safe 2D Material for In Vitro and In Vivo Photodynamic Therapy**

Taheri H., Ünal M. A., Sevim M., Gurcan C., Ekim O., Ceylan A., Syrgiannis Z., Christoforidis K. C., Bosi S., Ozgenc Ö., et al.

SMALL, no.10, 2020 (SCI-Expanded)

- XXIV. **Where is human-based cellular pharmaceutical R&D taking us in cartilage regeneration?**
Alkaya D., Gurcan C., Kılıç P., Yilmazer Aktuna A., Gürman G.
3 BIOTECH, vol.10, no.4, 2020 (SCI-Expanded)
- XXV. **Graphene and other 2D materials: a multidisciplinary analysis to uncover the hidden potential as cancer theranostics**
Fusco L., Gazzi A., Peng G., Shin Y., Vranic S., Bedognetti D., Vitale F., YILMAZER AKTUNA A., Feng X., Fadeel B., et al.
THERANOSTICS, vol.10, no.12, pp.5435-5488, 2020 (SCI-Expanded)
- XXVI. **Photodynamic Therapy Based on Graphene and MXene in Cancer Theranostics**
Gazzi A., Fusco L., Khan A., Bedognetti D., Zavan B., Vitale F., YILMAZER AKTUNA A., Delogu L. G.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.7, 2019 (SCI-Expanded)
- XXVII. **A CD34+Cell Enrichment Protocol of Hematopoietic Stem Cells in a Well-Established Quality Management System**
Kılıç P., Bay M., Yildirim Y., Coskun Ö., Seker Ş., Baydın P., Ulker O. L., Parmaksız M., Çubukçuoğlu Deniz G., Yilmazer Aktuna A., et al.
CELLS TISSUES ORGANS, vol.207, no.1, pp.15-20, 2019 (SCI-Expanded)
- XXVIII. **Targeting Mitochondrial Defects to Increase Longevity in Animal Models of Neurodegenerative Diseases**
Casajus Pelegay E., Puzzo F., YILMAZER AKTUNA A., Cagin U.
REVIEWS ON BIOMARKER STUDIES OF METABOLIC AND METABOLISM-RELATED DISORDERS, vol.1134, pp.89-110, 2019 (SCI-Expanded)
- XXIX. **Reprogramming of Human Melanocytes and Melanoma Cells with Yamanaka Factors**
Taheri H., Cagin U., YILMAZER AKTUNA A.
PRE-CLINICAL MODELS, vol.1916, pp.249-261, 2019 (SCI-Expanded)
- XXX. **Tendency of K562 Chronic Myeloid Leukemia Cells Towards Cell Reprogramming**
YILMAZER AKTUNA A.
TURKISH JOURNAL OF HEMATOLOGY, vol.35, no.4, pp.260-264, 2018 (SCI-Expanded)
- XXXI. **Evaluation of cancer stemness in breast cancer and glioblastoma spheroids in vitro**
YILMAZER AKTUNA A.
3 BIOTECH, vol.8, no.9, 2018 (SCI-Expanded)
- XXXII. **Cellular reprogramming: A new way to understand aging mechanisms**
Ilce B. Y., Cagin U., YILMAZER AKTUNA A.
WILEY INTERDISCIPLINARY REVIEWS-DEVELOPMENTAL BIOLOGY, vol.7, no.2, 2018 (SCI-Expanded)
- XXXIII. **Graphene Based Materials in Neural Tissue Regeneration**
Aydin T., Gurcan C., Taheri H., YILMAZER AKTUNA A.
CELL BIOLOGY AND TRANSLATIONAL MEDICINE, VOL 3: STEM CELLS, BIO-MATERIALS AND TISSUE ENGINEERING, vol.1107, pp.129-142, 2018 (SCI-Expanded)
- XXXIV. **New surprises from an old favourite: The emergence of telomerase as a key player in the regulation of cancer stemness**
Terali K., YILMAZER AKTUNA A.
BIOCHIMIE, vol.121, pp.170-178, 2016 (SCI-Expanded)
- XXXV. **On the Far Side of Telomeres: The Many Roles of Telomerase in the Acquisition and Retention of Cancer Stemness**
Terali K., YILMAZER AKTUNA A.
TELOMERE - A COMPLEX END OF A CHROMOSOME, pp.187-214, 2016 (SCI-Expanded)
- XXXVI. **Reprogramming cancer cells: A novel approach for cancer therapy or a tool for disease-modeling?**
YILMAZER AKTUNA A., de Lazaro I., Taheri H.
CANCER LETTERS, vol.369, no.1, pp.1-8, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Bioinks for Bioprinting Tissues and Organs**
CAN Y., KARACA R., ÖZBEK F., BOZ G., YILMAZER AKTUNA A., HURİ P.
Natural and Applied Sciences Journal, vol.3, no.2, pp.13-33, 2020 (Peer-Reviewed Journal)
- II. **Utility investigation of automated techniques in hematopoietic progenitor cell count and viability assessment in the Good Manufacturing Practice (GMP) setting**
KILIÇ P., Bay M., Yıldırım Y., Baydın P., Şeker Ş., Coşkun Ö., Lalegül Ülker Ö., PARMAKSIZ M., BİTİRİM C. V., CEVHEROĞLU O., et al.
Experimental Biomedical Research, vol.3, pp.231-238, 2020 (Peer-Reviewed Journal)
- III. **Utility investigation of automated techniques in hematopoietic progenitor cell count and viability assessment in the Good Manufacturing Practice (GMP) setting**
Kılıç P., Bay M., Baydın P., Şeker Ş., Coşkun Ö., Ülker O. L., Parmaksız M., Bitirim C. V., Cevheroğlu O., Deniz G. C., et al.
Experimental Biomedical Research, vol.3, no.4, pp.231-238, 2020 (Peer-Reviewed Journal)
- IV. **Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design**
Gazzi A., Fusco L., Orecchioni M., Ferrari S., Franzoni G., Yan J. S., Rieckher M., Peng G., Lucherelli M. A., Anna Vacchi L., et al.
JOURNAL OF PHYSICS-MATERIALS, vol.3, no.3, 2020 (ESCI)
- V. **Stem Cells and Psyche: Perspectives and a Review of the Literature**
Kumbasar H., Duman B., Kurt Yüksel M., Civriz Bozdağ S., Kılıç P., Yilmazer Aktuna A., Aydemir M. Ç., Öztop D. B., Uslu A., Şen T., et al.
Journal of oncological sciences, vol.6, no.2, pp.103-118, 2020 (Peer-Reviewed Journal)
- VI. **A closer look at the genotoxicity of graphene based materials**
Gurcan C., Taheri H., Bianco A., Delogu L. G., YILMAZER AKTUNA A.
JOURNAL OF PHYSICS-MATERIALS, vol.3, no.1, 2020 (ESCI)
- VII. **Cancer cell lines involving cancer stem cell populations respond to oxidative stress**
YILMAZER AKTUNA A.
Biotechnology Reports, vol.17, pp.24-30, 2018 (Scopus)
- VIII. **Reprogramming human melanocytes and melanoma cells with Yamanaka factors**
YILMAZER AKTUNA A., TAHERİ H.
Hacettepe Journal of Biology and Chemistry, 2018 (Peer-Reviewed Journal)
- IX. **Kök Hücre Araştırmalarında ve Kliniğe Uyarlanmasında Küresel Standartlar Uluslararası Kök Hücre Araştırmaları Derneği'nin 2016 Kılavuzu'na Kısa Bakış**
TOPAL ÇELİKKAN F., YILMAZER AKTUNA A., Güngör Ordueri N. E., CAN A.
Türkiye Klinikleri J Med Ethics Law Hist-Special Topics, vol.3, no.2, pp.61-73, 2017 (Peer-Reviewed Journal)
- X. **Efficient transduction of melanoma cells with Sendai viral vectors**
YILMAZER AKTUNA A., Taheri H., CAN A.
Türk Hijyen ve Deneysel Biyoloji Dergisi, vol.74, no.2, pp.113-120, 2017 (Scopus)

Books & Book Chapters

- I. **Sözlük ve Ekler**
CAN A., YILMAZER AKTUNA A., TOPAL ÇELİKKAN F., ORDUERİ N. E.
in: Kök Hücre Araştırma ve Kliniğe Uyarlama Kılavuzu, Prof. Dr. Alp CAN, Editor; ULUSLARARASI KÖK HÜCRE ARAŞTIRMA DERNEĞİ (ISSCR), pp.32-39, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **From Cancer Research to Antiviral Research: a Journey with 2D Materials**

Yilmazer Aktuna A.

IEEE NAP 2023, Bratislava, Slovakia, 10 September 2023

II. Schiff Base Decorated Amino-functionalized Nitrogen-Doped Graphene Quantum Dots and Their Silver Nanocomposites: Photophysical Properties and Bioimaging Applications

Hançe S., Erdener Çıralı D., Öztürk İ., Yıldız E., Karatay A., Boyacıoğlu B., Ünver H., Yilmazer Aktuna A., Yıldız M., Elmalı A.

FOTONİK 2023 | Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 08 September 2023, pp.38

III. 2DM for Health & Medical Applications

Yilmazer Aktuna A.

Graphene 2023, Manchester, England, 28 June 2023

IV. IMMUNE COMPATIBILITY OF 2D BISMUTHENE NANOSHEETS FOR FUTURE COMBINED MAGNETIC HYPERTHERMIA AND PHOTOTHERMAL THERAPY

Giro L., Gurcan C., Eroglu Z., Gazzi A., Ekim O., Sundu B., Ceylan A., Unal M. A., Ari F., Cinar O. O., et al.

Tissue Engineering and Regenerative Medicine International Society (TERMIS), Krakow, Poland, 28 June - 01 July 2022, vol.29, pp.1561-1562

V. 2D materials for antimicrobial applications in the pre- and post-pandemic era

YILMAZER AKTUNA A.

American Advanced Materials Fall Congress, United States Of America, 29 October - 05 November 2022

VI. 2D materials in antiviral research

YILMAZER AKTUNA A.

Graphene Week 2022, Germany, 5 - 09 September 2022

VII. Optimizing the Isolation and Culturing Conditions of Human Autologous Chondrocytes

Kılıç P., Gürcan C., Alkaya D., Gürman G., Yilmazer Aktuna A., Malatyalı B., Akmeşe R., Başarır K.

BIOMED2019, İzmir, Turkey, 27 - 30 October 2019

VIII. Applications of graphene based materials in biomedical research

YILMAZER AKTUNA A.

BIOMED2019, 17 - 20 October 2019

IX. Photodynamic therapy with 2D materials

YILMAZER AKTUNA A.

Graphene Week 2019, 21 - 25 October 2019

X. Graphene-based nanotechnological approaches for cancer therapy

YILMAZER AKTUNA A.

Uluslararası 6. İlaç Kimyası Kongresi, 22 - 25 March 2018

XI. Graphene Based Nanomaterials for Cancer Therapy

YILMAZER AKTUNA A.

7th International Conference and Exhibition on Cell and Gene Therapy, 15 - 16 March 2018

XII. Uyarılmış Pluripotent Kök Hücreler ve Kullanım Alanları

YILMAZER AKTUNA A.

10. Ulusal Kemik İliği Transplantasyonu ve Hücre Tedaviler Kongresi, Turkey, 1 - 03 March 2018

XIII. The Use of Graphene Based Materials in Cancer Research

YILMAZER AKTUNA A.

1st Workshop NanoBioMed Sardinia 2017, Sassari, Italy, 24 - 27 June 2017

XIV. Non-Viral Induction Of Transient Cell Reprogramming In Mouse Skeletal Muscle To Enhance Tissue Regeneration

YILMAZER AKTUNA A., DE LAZARO I., NAM Y., QUBISI S., RAZAK A., MAIZATUL F., COSSU G., KOSTARELOS K.

ISSCR 2017, Boston, United States Of America, 14 - 17 June 2017

XV. Forced Expression Of Reprogramming Factors (OKSM) In Human Melanoma Cells Alters Cancer-Related Pathways And Tumorigenicity

TAHERI H., KUTLU K., YILMAZER AKTUNA A.

ISSCR 2017, Boston, United States Of America, 14 - 17 June 2017

XVI. The effect of cellular reprogramming on the tumorigenicity of melanoma cells

TAHERI H., YILMAZER AKTUNA A.

BIOMED 2017, Ankara, Turkey, 12 - 14 May 2017

XVII. Treatment of tumor spheroids with graphene oxide

GURCAN C., TAHERI H., DE LAZARO I., KOSTARELOS K., YILMAZER AKTUNA A.

BIOMED, Ankara, Turkey, 12 - 14 May 2017

XVIII. Transfection of human melanoma cells with reprogramming factors (OKSM) alters cancer-related pathways and tumorigenicity

YILMAZER AKTUNA A., TAHERI H.

6th International Conference and Exhibition on Cell and Gene Therapy, Madrid, Spain, 27 - 28 March 2017

XIX. The current state of the art around the toxicity and genotoxicity of graphene materials

YILMAZER AKTUNA A.

3rd Emerging 2D Materials Graphene Conference from Laboratory to Industry 2016, İstanbul, Turkey, 20 - 21 October 2016

XX. In vivo reprogramming to pluripotency enhances regeneration and functional rehabilitation of injured skeletal muscle

de Lazaro I., YILMAZER AKTUNA A., Nam Y., Kostarelos K.

EMBO Conference Cell Therapy today: Achievements, Hope and Hype, Germany, 9 - 12 September 2015

XXI. Teratoma free in vivo reprogramming to pluripotency in the mouse liver and generation of iPS cells

de Lazaro I., Bussy C., YILMAZER AKTUNA A., Kostarelos K.

Wellcome Trust Conference. The Biology of Regenerative Medicines, United Kingdom, 22 - 24 April 2015

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Supported Projects

Özkan S. A., Sezgintürk M. K., Karaca E. E., Yilmazer Aktuna A., Bitirim C. V., Evren Kemer Ö., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Tekrarlayan Descemet Membran Endotelial Keratoplasti Yapılan Hastalarda Ön Kamara Sıvısında Sitomegalovirüs Varlığının Araştırılması İçin Lateral Flow (Yanal Akış) Sisteminin Geliştirilmesi, 2023 - 2025

Yilmazer Aktuna A., Horizon Europe Project, MX-MAP - Towards MXenes' biomedical applications by high-dimensional immune MAPping, 2022 - 2025

Akçalı K. C., Yilmazer Aktuna A., Ünal M. A., Bitirim C. V., Kıran F., Kaya B., Oto Ç., Kiliç P., Özkan S. A., Kıyan Z., et al., TUBITAK Project, Regenerative and Restorative Medicine Research and Practice, 2022 - 2025

Özkan S. A., Demirbakan B., Uludağ İ., Özyurt C., Özcan B., Sezgintürk M. K., Yilmazer Aktuna A., Ünal M. A., Project Supported by Higher Education Institutions, Dolaşan Tümör Hücrelerinin Lateral Flow (Yanal Akış) Sistemiyle Tespiti, 2023 - 2024

Özdemir M., Yilmazer Aktuna A., Saltan İşcan H. G., Cansaran Duman D., EU Supported Other Project, A Universal Strategic Necessity: from Molecule to Drug, 2022 - 2024

Karatay A., Yilmazer Aktuna A., Yıldız M., TUBITAK Project, Biyogörüntüleme Uygulamaları İçin Yeşil Sentez İle Elde Edilen Yüksek Lüminesanslı Azot-Katılmış Grafen Kuantum Noktalar (N-Doped Gqds) Ve Metal Nanokompozitlerinin (N-Doped Gqds/Mnps) Fotofiziksel Özelliklerinin Araştırılması, 2022 - 2024

Akçalı K. C., Yilmazer Aktuna A., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Kök Hücre Araştırma Merkezi, 2017 - 2024

Yilmazer Aktuna A., Akçalı K. C., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Kök Hücre Enstitüsü GMP Doku ve Hücre Üretim Merkezi, 2016 - 2023

Yilmazer Aktuna A., Panatlı O., Project Supported by Higher Education Institutions, Farklı Boyutlardaki Grafen Oksitin Statik ve Dinamik Ortamlardaki Bağışıklık Hücreleri Üzerine Etkilerinin Araştırılması, 2022 - 2022

Activities in Scientific Journals

NANO FUTURES, Special Issue Editor, 2023 - Continues

Scientific Refereeing

NATURE COMMUNICATIONS, SCI Journal, November 2023

ADVANCED HEALTHCARE MATERIALS, SCI Journal, October 2023

ADVANCED HEALTHCARE MATERIALS, SCI Journal, October 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, October 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, August 2023

CARBON, SCI Journal, July 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, July 2023

Universities of Other Countries Supported Project, King Abdullah University of Science and Technology, Saudi Arabia, July 2023

CARBON, SCI Journal, May 2023

ADVANCED FUNCTIONAL MATERIALS, SCI Journal, May 2023

CARBON, SCI Journal, March 2023

ACS APPLIED NANO MATERIALS, SCI Journal, February 2023

SMALL, SCI Journal, September 2022

TUBITAK Project, TUBITAK Horizon Coordination Support Program, Ankara University, Turkey, September 2022

Advanced Therapeutics, SCI Journal, July 2022

MOLECULES, SCI Journal, June 2022

TUBITAK Project, 1002 - Quick Support Program, Ankara University, Turkey, June 2022

ACS APPLIED BIO MATERIALS, SCI Journal, May 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, May 2022

ADVANCED SCIENCE, SCI Journal, April 2022

SMALL, SCI Journal, April 2022

Nanoscale Advances, National Scientific Refreed Journal, April 2022

CARBON, SCI Journal, March 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, March 2022

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A: CHEMISTRY, SCI Journal, February 2022

ADVANCED MATERIALS INTERFACES, SCI Journal, February 2022

Horizon Europe Project, Horizon Europe Project, Avrupa Komisyonu, Belgium, February 2022

TUBITAK Project, 2236 - Program for Supporting International Researchers, Ankara University, Turkey, February 2022

ADVANCED FUNCTIONAL MATERIALS, SCI Journal, January 2022

Horizon Europe Project, Horizon Europe Project, Avrupa Komisyonu, Belgium, January 2022

Metrics

Publication: 72

Citation (WoS): 1483

Citation (Scopus): 1611

H-Index (WoS): 18

H-Index (Scopus): 18

Congress and Symposium Activities

Graphene 2023, Invited Speaker, Manchester, England, 2024

IEEE NAP 2023, Invited Speaker, Bratislava, Slovakia, 2023

Awards

Yilmazer Aktuna A., Scientist Award, Iaam, October 2023

Yilmazer Aktuna A., Genç Bilim Kadını Ödülleri, Unesco Milli Komisyonu Ve L'oreal, October 2023

Yilmazer Aktuna A., Eşik Üstü Ödülü, Tübitak, April 2023

Yilmazer Aktuna A., EŞİK ÜSTÜ ÖDÜLÜ, Tübitak, November 2022

Yilmazer Aktuna A., IAAM Scientist Award, International Association Of Advanced Materials, October 2022

Yilmazer Aktuna A., EŞİK ÜSTÜ ÖDÜLÜ, Tübitak, June 2022

Yilmazer Aktuna A., EŞİK ÜSTÜ ÖDÜLÜ, Tübitak, May 2022

Yilmazer Aktuna A., Eşik Üstü Ödülü, Tübitak, March 2022