Asst. Prof. AHMET ACAR

Personal Information

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Education Information

Doctorate, The University of Manchester, Faculty of Medicine, Cancer Sciences, United Kingdom 2008 - 2012
Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, Turkey 2002 - 2007

Research Areas

Health Sciences, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, 2021 - Continues
Assistant Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, 2020 - 2021

Courses

MOLECULAR BIOLOGY, Undergraduate, 2020 - 2021
Molecular and Cellular Biology I, Undergraduate, 2020 - 2021, 2021 - 2022
Biology of Cancer, Postgraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. Increased TRIM31 gene expression is positively correlated with SARS-CoV-2 associated genes TMPRSS2 and TMPRSS4 in gastrointestinal cancers
   Temena M. A. , ACAR A.
   SCIENTIFIC REPORTS, vol.12, no.1, 2022 (Peer-Reviewed Journal)

II. Inhibition of Wnt signalling by Notch via two distinct mechanisms
    Acar A., Hidalgo-Sastre A., Leverentz M. K. , Mills C. G. , Woodcock S., Baron M., Collu G. M. , Brennan K.
    SCIENTIFIC REPORTS, vol.11, no.1, 2021 (Peer-Reviewed Journal)

III. Systems Biology and Experimental Model Systems of Cancer
     Yalcin G. D. , Danisik N., Baygin R. C. , Acar A.
     JOURNAL OF PERSONALIZED MEDICINE, vol.10, no.4, pp.1-12, 2020 (Peer-Reviewed Journal)

IV. Subclonal reconstruction of tumors by using machine learning and population genetics
    Caravagna G., Heide T., Williams M. J. , Zapata L., Nichol D., Chkhaidze K., Cross W., Cresswell G. D. , Werner B., ACAR
Acar A., Nichol D., Fernandez-Mateos J., Cresswell G. D., Barozzi I., Hong S. P., Trahearn N., Spiteri I., Stubbs M., Burke R., et al.
NATURE COMMUNICATIONS, vol.11, no.1, 2020 (Peer-Reviewed Journal)

Spiteri I., Caravagna G., Cresswell G. D., Vatsiou A., Nichol D., ACAR A., Ermini L., Chkhaidze K., Werner B., Mair R., et al.
ANNALS OF ONCOLOGY, vol.30, no.3, pp.456-463, 2019 (Peer-Reviewed Journal)

Barry P., Vatsiou A., Spiteri I., Nichol D., Cresswell G. D., ACAR A., Trahearn N., Hrebien S., Garcia-Murillas I., Chkhaidze K., et al.
CLINICAL CANCER RESEARCH, vol.24, no.19, pp.4763-4770, 2018 (Peer-Reviewed Journal)

Acar A., Simoes B. M., Clarke R. B., Brennan K.
STEM CELLS INTERNATIONAL, vol.2016, 2016 (Peer-Reviewed Journal)

Simoes B. M., O’Brien C. S., Eyre R., Silva A., Yu L., Sarmiento-Castro A., Alferez D. G., Spence K., Santiago-Gomez A., Chemi F., et al.
CELL REPORTS, vol.12, no.12, pp.1968-1977, 2015 (Peer-Reviewed Journal)

Busch S., ACAR A., Magnusson Y., Gergersson P., Ryden L., Landberg G.
ONCOGENE, vol.34, no.1, pp.27-38, 2015 (Peer-Reviewed Journal)

Collu G. M., Hidalgo-Sastre A., ACAR A., Bayston L., Gildea C., Leverentz M. K., Mills C. G., Owens T. W., Meurette O., Dorey K., et al.
DEVELOPMENT, vol.139, no.23, pp.4405-4415, 2012 (Peer-Reviewed Journal)

Polanska U. M., ACAR A., Orimo A.
JOVE-JOURNAL OF VISUALIZED EXPERIMENTS, no.56, 2011 (Peer-Reviewed Journal)

Kojima Y., ACAR A., Eaton E. N., Melody K. T., Scheel C., Ben-Porath I., Onder T. T., Wang Z. C., Richardson A. L., Weinberg R. A., et al.
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.107, no.46, pp.20009-20014, 2010 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

Developing quantitative experimental model systems to study drug resistance
Acar A.
VIII. International Congress on Medical Oncology, Istanbul, Turkey, 9 - 12 November 2021, pp.0-1

DEVELOPING QUANTITATIVE EXPERIMENTAL MODEL SYSTEMS TO STUDY DRUG RESISTANCE
Danisik N., Baygin R. C., Temena M. A., Acar A.
XVIII Latin American Congress of Genetics, 5 - 08 October 2021, pp.54

Convolutional Neural Networks for Classification of Colorectal Cancer on Whole Slide Images
IV. Quantifying the dynamics of acquired treatment resistance and evolutionary herding for the prediction of collateral sensitivity in cancer model systems

Acar A., Nichol D., Thavasum I., Mateos J., Stubb M., Burke R., Maley C., Banerji U., Sottoriva A.
The 25th Biennial Congress of the European Association for Cancer Research, Amsterdam, Netherlands, 30 June - 03 July 2018, pp.217

V. The Spatio-Temporal Evolution of Lymph Node Spread in Early Breast Cancer: A Pilot Study

Barry P. A., Vatsiou A., Spiteri I., ACAR A., Trahearn N., Punta M., Chkhaidze K., Nichol D., Hreibien S., Garcia-Murillas I., et al.
71st Annual Cancer Symposium of the Society-of-Surgical-Oncology, Illinois, United States Of America, 21 - 24 March 2018, vol.25

Activities in Scientific Journals

FRONTIERS IN GENETICS, Special Issue Editor, 2021 - Continues

Memberships / Tasks in Scientific Organizations

NIH/NCI Cancer Systems Biology Consortium, Associate Member, 2021 - Continues, United States Of America
COST, Member, 2021 - Continues, Spain
MOKAD, Member, 2021 - Continues, Turkey
EACR, Member, 2021 - Continues, Italy

Scientific Refereeing

FRONTIERS IN GENETICS, Journal Indexed in SCI-E, October 2021
TUBITAK Project, 2209-B - Sanayiye Yönelik Lisans Araştırmá Projeleri Destekleme Programı, Middle East Technical University, Turkey, September 2021
TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, September 2021
Project Supported by Public Organizations in Other Countries, Czech Science Foundation, Czech Republic, September 2021

SCIENTIFIC REPORTS, Journal Indexed in SCI-E, May 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021
FRONTIERS IN ONCOLOGY, SCI Journal, April 2021
TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırmá Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2021
TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırmá Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2021
TUMOR BIOLOGY, SCI Journal, January 2021
Turkish Journal of Biochemistry, Other journals, January 2021
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Middle East Technical University, Turkey, December 2020
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Middle East Technical University, Turkey, December 2020
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Middle East Technical University, Turkey, December 2020
SCIENTIFIC REPORTS, SCI Journal, March 2020

**Metrics**

Publication: 18
Citation (WoS): 936
Citation (Scopus): 963
H-Index (WoS): 10
H-Index (Scopus): 10

**Awards**

Acar A., Aydın Dogan Foundation Ozlem Tureci & Ugur Sahin Molecular Biology and Genetics Research Award, Aydın Dogan Vakfı, July 2022
Acar A., Molecular Cancer Research Association Award for Basic Cancer Researcher of the Year, Molecular Cancer Research Association, July 2022
Acar A., Bilim Akademisi Genç Bilim İnsanları (BAGEP) Award 2022, Science Academy, April 2022
Acar A., 2021 TÜBA-Üstün Başarılı Genç Bilim İnsanı Ödülü (GEBİP), Türkiye Bilimler Akademisi (Tüba), December 2021
Acar A., TÜSEB 2021 Yılı Aziz Sancar Tesvik Ödülü, Tuseb, October 2021