

Rumeza Hanif

Associate Professor

Atta-Ur-Rahman School of Applied Biosciences

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About

Dr. Rumeza Hanif is working as Associate Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Rumeza Hanif has a PhD in Cancer Biology/Biochemistry. Dr. Rumeza Hanif has published 24 research articles & conference papers having a citation count of 373, carried out 4 projects and filed 0 intellectual property.

Qualifications

PhD in Cancer Biology/Biochemistry University College London, University of London , United Kingdom	2007 - 2012
MSc in Agricultural Chemistry The University of Agriculture, Peshawar , Pakistan	2005 - 2007
B.Sc (Hon) in Agricultural Chemistry) The University of Agriculture, Peshawar , Pakistan	2003 - 2005

Experience

Associate Professor Atta-Ur-Rahman School of Applied Biosciences	2025- Present
Associate Professor School of Mechanical & Manufacturing Engineering	2025 - 2020
Associate Professor Atta-Ur-Rahman School of Applied Biosciences	2022 - 2022
Associate Professor Atta-Ur-Rahman School of Applied Biosciences	2020 - 2019
Associate Professor Atta-Ur-Rahman School of Applied Biosciences	2019 - 2025
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2013 - 2020
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2012 - 2013
Assitant Prof ASAB, NUST , NUST, Sec: H-12: ISB	2013 - 2022

Awards

Rumeza Hanif "Gold nanoparticles as a targeted drug delivery vehicle in breast cancer therapy" NRPU-HEC, (PKR 3.2 M) as PI	2018
Rumeza Hanif "Spectrum of beta-thalassemia in Province Punjab and KPK: identification of novel mutations" HEC, (PKR 0.5M) as PI	2013
Silver medal Awarded Silver medal in MSc (Hons) for standing 2nd at NWFP AUP, Pakistan	2007
Bronze medal Awarded Bronze medal in BSc (Hons) for standing 3rd at NWFP AUP, Pakistan	2004

Research Projects

National Projects

Spectrum of Beta-thalassemia in Province of Punjab and KPK: Identification of Novel Mutations Funding Agency: HEC Amount: PKR 500,000.00 Status: Completed	2013
Gold nanocages for detection of circulating tumor cells in breast cancer Funding Agency: National Institute of Health (NIH), PAK Amount: PKR 1,770,000.00 Status: Completed	2022
Gold nanoparticles as a targeted drug delivery vehicle in breast cancer therapy Funding Agency: HEC Amount: PKR 3,240,827.00 Status: Completed	2018
Gold Nanoparticles as a Targeted Drug Delivery Vehicle in Breast Cancer Therapy Funding Agency: HEC Amount: PKR 5,760,000.00 Status: Completed	2018

International Projects

Research Articles

PMA-coated gold nanoparticles functionalized with diamine-PEG conjugated with betulinic acid for in vitro mitochondrial-targeted anticancer and ROS detection study against MDA-MB-231 cell lines Yasir Iqbal Saima Asghar Rumeza Hanif Faheem Amin <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , Volume:721, Article Number: 137170 Impact Factor: 5.4 Quartile: 1 Citations: 2 DOI: https://doi.org/10.1016/j.colsurfa.2025.137170	2025
Targeted Delivery of Letrozole-loaded Mg-doped Cobalt Ferrite Nanoparticles for Breast Cancer Treatment Huma Ijaz Urwah Raseed Naeem Kiani Hina Saeed Rumeza Hanif Sidra Anwar Nauman Javed Muhammad Shoaib Butt <i>Journal of Drug Delivery Science and Technology</i> , Volume 101, Part B, Article Number 106245 Impact Factor: 4.500 Quartile: 1 Citations: 5 DOI: 10.1016/j.jddst.2024.106245	2024
Fabrication and Biocompatibility of Neem/Chitosan Coated Silk Sutures for Infection Control and Wound Healing Urwah Raseed Naeem Kiani Muhammad Shoaib Butt Hina Saeed Rumeza Hanif Sidra Anwar <i>Journal of King Saud University-Science</i> , Volume 36, Issue 10, Article Number 103435 Impact Factor: 3.700 Quartile: 1 Citations: 8 DOI: https://doi.org/10.1016/j.jksus.2024.103435	2024
Glioblastoma Multiforme: Probing Solutions to Systemic Toxicity towards High-Dose Chemotherapy and Inflammatory Influence in Resistance against Temozolomide Sadia Nasir Sadia Nazir Rumeza Hanif Aneela Javed <i>Pharmaceutics</i> , Volume 15, Issue 2, Article Number 687 Impact Factor: 6.525 Quartile: 1 Citations: 12 DOI: https://doi.org/10.3390/pharmaceutics15020687	2023
Cytotoxicity study of gold nanoparticles synthesis using Aloe vera, honey and Gymnema sylvestre leaf extract Rumeza Hanif Faheem Amin Sidra Anwar Bisma Rauf Maham Khan Maha Niazi Shizza Malik <i>ACS Omega</i> , Volume 8, No. 7, Pages 6325–6336 Impact Factor: 4.132 Quartile: 2 Citations: 28 DOI: https://doi.org/10.1021/acsomega.2c06491	2023
Structural and functional characterization of disease-associated NOTCH4: a potential modulator of PI3K/AKT-mediated insulin signaling pathway Dr. Rumeza Hanif Muhammad Khalid Anwar Umbreen Ahmed Zaira Rehman Ammad Fahim Syed Babar Jamal Muhammad Faheem	2022

<i>Applied Nanoscience</i> , Pages 1-18	
Impact Factor: 0 Citations: 1	
DOI: https://doi.org/10.1007/s13204-021-02281-w	
Therapeutic effect of Thymoquinone on behavioural response to UCMS and neuroinflammation in hippocampus and amygdala in BALB/c mice model	2022
<i>Sadia Nazir Rai Khalid Farooq Sadia Nasir Rumeza Hanif Aneela Javed</i>	
<i>Psychopharmacology</i> , Volume 239, Pages 47-58	
Impact Factor: 4.530 Quartile: 2 Citations: 14	
DOI: 10.1007/s00213-021-06038-9	
Integrated analysis of microarray and RNA-Seq data for the identification of Hub genes and networks involved in the pancreatic cancer	2021
<i>Rumeza Hanif Rehan Zafar Paracha Mehak Rafiq Zamir Hussain Maryum Nisar Iqra Arshad Sidra Adil Sabaoon Zeb</i>	
<i>Frontiers in Genetics</i> , Volume 12, Article Number 663787	
Impact Factor: 4.599 Quartile: 2 Citations: 18	
DOI: doi.org/10.3389/fgene.2021.663787	
Interferon-λ rs12979860 genotype association with liver fibrosis in chronic hepatitis C (CHC) patients in the Pakistani population	2021
<i>Rumeza Hanif Bisma Rauff Ali Amar Shafiq Ahmad Chudhary Saqib Mahmood Ghias Un Nabi Tayyab</i>	
<i>Archives of Virology</i> , Volume 166, Pages 1047-1056	
Impact Factor: 2.574 Quartile: 3 Citations: 2	
DOI: 10.1007/s00705-020-04901-2	
In-silico modeling and analysis of the therapeutic potential of miRNA-7 on EGFR associated signaling network involved in breast cancer	2020
<i>Shiza Malik Samra Khalid Haider Ali Maham Khan Faryal Mehwish Aneela Javed Fazal Akbar Rumeza Hanif Muhammad Suleman</i>	
<i>Gene Reports</i> , Volume 21, Article Number 100938	
Impact Factor: 0 Citations: 2	
DOI: https://doi.org/10.1016/j.genrep.2020.100938	
Overcoming tamoxifen resistance in oestrogen receptor-positive breast cancer using the novel thiosemicarbazone anti-cancer agent, DpC	2020
<i>Sundus Naila Maqbool Rumeza Hanif Syer C. Lim Kyung Chan Park Des R. Richardson Patric J. Jansson Zaklina Kovacevic</i>	
<i>British Journal of Pharmacology</i> , Volume 177, Issue 10, Pages 2365-2380	
Impact Factor: 8.740 Quartile: 1 Citations: 26	
DOI: https://doi.org/10.1111/bph.14985	
Comparative safety analysis of bactericidal nano-colloids: Assessment of potential functional toxicity and radical scavenging action	2019
<i>Muhammad Uzair Hashmi Nauman Khalid Tehseen Alam Rumeza Hanif Hussnain A. Janjua</i>	
<i>Colloids and Surfaces B: Biointerfaces</i> , Volume 184	
Impact Factor: 4.389 Quartile: 1 Citations: 8	
DOI: 10.1016/j.colsurfb.2019.110508	
Formulation of active packaging system using Artemisia scoparia for enhancing shelf life of fresh fruits	2019
<i>Javaria Hanif Nauman Khalid Rao Sanaullah Khan Muhammad Faraz Bhatti Mohammad Qasim Hayat Muhammad Ismail Saadia Andleeb Kaiser Mansoor</i>	
<i>Faria Khan Fahim Ameen Rumeza Hanif Muhammad Uzair Hashmi Hussnain Ahmed Janjua</i>	
<i>Materials Science and Engineering C</i> , Volume 100, Pages 82-93	
Impact Factor: 5.880 Quartile: 1 Citations: 20	
DOI: https://doi.org/10.1016/j.msec.2019.02.101	
Bridging the gap by discerning SNPs in linkage disequilibrium and their role in breast cancer	2018
<i>Sundus Naila Maqbool Sadia Haleema Nazir Rumeza Hanif Aneela Javed Mehak Rafiq</i>	
<i>Gene</i> , Volume 679, Pages 44-56	
Impact Factor: 2.638 Quartile: 2	
DOI: 10.1016/j.gene.2018.06.102.	
Exploring NS3/4A, NS5A and NS5B proteins to design conserved subunit multi-epitope vaccine against HCV utilizing immunoinformatics approaches	2018
<i>Aqsa Ikram Tahreem Zaheer Faryal Mehwish Awan Ayesha Obaid Anam Naz Rumeza Hanif Rehan Zafar Paracha Abdul Khaliq Naveed Hussnain Ahmed</i>	
<i>Janjua</i>	
<i>Scientific Reports</i> , Volume 8, Article Number 16107	
Impact Factor: 4.011 Quartile: 1 Citations: 75	

DOI: 10.1038/s41598-018-34254-5

Pharmacophore modeling for identification of anti-IGF-1R drugs and in-vitro validation of fulvestrant as a potential inhibitor

2018

Samra Khalid Rumeza Hanif Ishrat Jabeen Qaisar Mansoor Muhammad Ismail
PlosOne , NULL

Impact Factor: 2.766 | **Quartile:** 2 | **Citations:** 9

DOI: 10.1371/journal.pone.0196312

Association of rs1801157 single nucleotide polymorphism of CXCL12 gene in breast cancer in Pakistan and in-silico expression analysis of CXCL12-CXCR4 associated biological regulatory network

2017

Samra Khalid Rumeza Hanif
PeerJ , Vol.5, Article Number e3822

Impact Factor: 2.118 | **Quartile:** 2 | **Citations:** 7

DOI: doi:10.7717/peerj.3822

Comparative studies of three novel freshwater microalgae strains for synthesis of silver nanoparticles: insights of characterization, antibacterial, cytotoxicity and antiviral activities

2017

Muneeba Khalid Nauman Khalid Iftikhar Ahmed Rumeza Hanif Muhammad Ismail Hussnain Ahmed Janjua
Journal of Applied Phycology , Volume 29, Pages1851–1863

Impact Factor: 2.401 | **Quartile:** 1 | **Citations:** 56

DOI: doi:10.1007/s10811-017-1071-0

Identification of drug resistance and immune-driven variations in hepatitis C virus (HCV) NS3/4A, NS5A and NS5B regions reveals a new approach toward personalized medicine

2017

Aqsa Ikram Ayesha Obaid Faryal Mehwish Awan Rumeza Hanif Anam Naz Rehan Zafar Paracha Amjad Ali Hussnain Ahmed Janjua
Antiviral Research , Volume: 137, Pages: 112-124, Published: JAN 2017

Impact Factor: 4.307 | **Quartile:** 1 | **Citations:** 7

DOI: 10.1016/j.antiviral.2016.10.013

Formal modeling and analysis of ER- α Associated Biological Regulatory Network in Breast Cancer

2016

Samra Khalid Rumeza Hanif Samar H.K. Tareen Amnah Siddiqi Zurah Bibi Jamil Ahmad
PeerJ , Volume 2016, Issue 10, Article number e2542

Impact Factor: 2.177 | **Quartile:** 2 | **Citations:** 5

DOI: doi:10.7717/peerj.2542

Fetal iron levels are regulated by maternal and fetal Hfe genotype and dietary iron

2012

Rumeza Hanif Sara Balesaria Mohamed F. Salama Kishor Raja Henry K. Bayele Harry McArdle Surjit K.S. Srail
Haematologica , Volume 97, Issue 5, Pages 661-669

Impact Factor: 5.935 | **Quartile:** 1 | **Citations:** 32

DOI: 10.3324/haematol.2011.055046

Erythropoietin regulates intestinal iron absorption in a rat model of chronic renal failure

2010

Rumeza Hanif Surjit K. Srail Bomee Chung Joanne Marks Katayoun Pourvali Nita Solanky Chiara Rapisarda Timothy B. Chaston Robert J. Unwin Edward S. Debnam Paul A. Sharp
Kidney International , Volume 78, Issue 7, Pages 660-667

Impact Factor: 6.105 | **Quartile:** 1 | **Citations:** 36

DOI: 10.1038/ki.2010.217

Role of vegetables as nutritional food: Role in human health

2006

Rumeza Hanif Zafar Iqbal Mudassar Iqbal Shaheena Hanif Masooma Rasheed
ARPJ Journal of Agricultural and Biological Science , Volume 1, No.1, Pages 18-22

Impact Factor: 0

DOI: https://journals.indexcopernicus.com/search/details?id=32551

Book Chapters

A new insight into genome editing: CRIPR-Cas system in bacteria from evolution to application

2024

Sidra Anwar Alvina Gul Rumeza Hanif

In: *Book on Targeted Genome Engineering via CRISPR/Cas9 in Plants*, 1st Edition, Chapter 2, Pages 21-34

Citations: N/A

DOI: doi.org/10.1016/B978-0-443-26614-0.00014-X.