

Hussnain Ahmed Janjua

Professor

Atta-Ur-Rahman School of Applied Biosciences

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About

Dr. Hussnain Ahmed Janjua is working as Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Hussnain Ahmed Janjua has a PhD in Microbial Molecular Biology. Dr. Hussnain Ahmed Janjua has published 60 research articles & conference papers having a citation count of 1288, carried out 5 projects and filed 4 intellectual property.

Qualifications

PhD in Microbial Molecular Biology Imperial College London , United Kingdom	2000 - 2005
MPhil in Biotechnology Quaid-i-Azam University , Pakistan	1997 - 1999
MSc in Biochemistry/Molecular Biology Quaid-i-Azam University , Pakistan	1995 - 1997
BSc in Bsc Zoology/ Chemistry/ Geography University of the Punjab , Pakistan	1992 - 1994

Experience

Professor Atta-Ur-Rahman School of Applied Biosciences	2019- Present
Associate Professor Atta-Ur-Rahman School of Applied Biosciences	2017 - 2019
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2012 - 2017
Assistant Professor Department of Biosciences, LUMS, Lahore , LUMS Lahore	2012 - 2012
HEC Visiting Foreign Professor Department of Pharmacy QAU, Islamabad, Pakistan , Department of Pharmacy, Quaid-i-Azam University, Islamabad, Pakistan	2011 - 2012
Post-Doctoral Research Fellow CIBIO, UNITN, TRENTO, ITALY , Department of Industrial Biotechnology, ASAB-NUST, H-12 Islamabad, Pakistan	2007 - 2011
Post-Doctoral Research Fellow IMBM UWC Cape Town South Africa , IMBM, UWC, CAPE TOWN SOUTH AFRICA	2005 - 2007

Awards

Travel Grant Intl Conf Travel Grant to attend conference in Malaysia 5th-9th February 2018 “Promoting Safe and Secure science in Middle East/North Africa and South/ South East Asia	2018
Sen Post Doc Fellow Funding was awarded by Provincia Autonoma Di Trento, Italy for Post Doctoral Research at CIBIO, UNITN, Trento, Italy. Title of the Project: Genome plasticity in pseudomonas aeruginosa: from comparative genomics to virulence	2007
Post Doc Fellow Post Doctoral Research Fellowship was awarded on NRF project at IMBM, UWC Cape Town South Africa in June 2005 Title of the project: Fungal Solubilization of Low Rank Coal	2005
Overseas Research Scholar Overseas Research Scholarship Award for PhD Research at Imperial College London	2000

Research Projects

National Projects	
Integrated Design, Fabrication and Optimization of Bioreactors for Biopharmaceutical Applications Funding Agency: NUST Amount: PKR 1,000,000.00 Status: Approved_inprocess	2024
Capacity Building on New Technologies to Reduce Post-Harvest Losses Funding Agency: COMGEC Amount: PKR 2,011,517.00 Status: Approved_inprocess	2022
SuchAQuality Funding Agency: European Union Amount: PKR 9,190,000.00 Status: Approved_inprocess	2020
Discovery and Validation of Circulating Protein Biomarker Panels for Diagnosing Hepatocellular Carcinoma Funding Agency: HEC Amount: PKR 6,140,000.00 Status: Completed	2019
Pangenome Analysis of Multidrug Resistant staphylococcus Aures Strains to Get Insights into the Mechannism Of Pathenicity and to identify new Therapeutic Interventions to Replace the Current Antimicrobial Drugs Funding Agency: HEC Amount: PKR 3,967,000.00 Status: Completed	2015

International Projects

Research Articles

Exploring Noncentrifugal Sugar as a Partial Replacement for White Sugar in Low Methoxyl Pectin Confectionery Gels: Impacts on Physical and Rheological Properties Article link copied! <i>Muhammad Qasim Hayat Hussnain Ahmed Janjua Hafiz Imran Fakhar Elif Cavdaroglu Mecit Halil Oztop</i> <i>ACS Food Science & Technology</i> , Vol:4, Issue:12, Pages:3036-3046, Impact Factor: 2.6 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1021/acsfoodscitech.4c00603	2024
Spirulina and chlorela derived hard candies as functional food <i>Shafia Maryam Mecit Halil Oztop Sarper Doğdu Mehmet Ali Marangoz Muhammad Qasim Hayat Ramish Riaz Muhammad Waqas Alam Chattha Hussnain Ahmed Janjua Zeshan Zeshan</i> <i>Journal of Functional Foods</i> , Volume 123, Article Number 106565 Impact Factor: 3.800 Quartile: 2 DOI: https://doi.org/10.1016/j.jf.2024.106565	2024

Improvement of functional properties of Chlorella-inulin conjugates via Maillard reaction <i>Rabaila Riaz Muhammad Bilal Khan Niazi Hussnain Ahmed Janjua Ozan Tas Mecit Halil Oztop</i> <i>International Journal of Food Science and Technology</i> , Volume 59, Issue 12, Pages 8983-8997 Impact Factor: 2.600 Quartile: 2 Citations: 1 DOI: 10.1111/ijfs.17371	2024
Spirulina and chlorella derived hard candies as functional food <i>Shafia Maryam Mecit Halil Oztop Sarper Doğdu Mehmet Ali Marangoz Zeshan Zeshan Muhammad Qasim Hayat Ramish Riaz Muhammad Waqas Alam</i> <i>Chattha Hussnain Ahmed Janjua</i> <i>Journal of Functional Foods</i> , Volume 123, Article Number 106565 Impact Factor: 3.800 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1016/j.jff.2024.106565	2024
Plant growth promoting Dictyosphaerium DHM2 derived magnesium peroxide nanoparticles with antibacterial, antioxidant and photocatalytic properties <i>Kausar Chaudhary Shafia Maryam Sajid Iqbal Abdullah Ahmad Muhammad Tahir Hussnain Ahmed Janjua</i> <i>Algal Research</i> , Volume 82, Article Number 103647 Impact Factor: 4.600 Quartile: 1 DOI: https://doi.org/10.1016/j.algal.2024.103647	2024
Universal 1H Spin–Lattice NMR Relaxation Features of Sugar—A Step towards Quality Markers <i>Hafiz Imran Fakhar Muhammad Qasim Hayat Hussnain Ahmed Janjua Adam Kasperek Karol Kolodziejewski Leonid Grunin Mecit Halil Öztop Danuta Kruk</i> <i>Molecules</i> , Volume 29(11), Article Number 2422 Impact Factor: 4.2 Quartile: 2 Citations: 1 DOI: https://doi.org/10.3390/molecules29112422	2024
Ultrafiltration polyanionic poly (3-sulfopropyl methacrylate) membranes with enhanced antifouling and water flux <i>Raja Muhammad Asif Khan Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain A. Janjua Nasir Mahmood Ahmad</i> <i>Polymers Advanced Technologies</i> , Volume 35, Issue 3, Article Number e6350 Impact Factor: 3.100 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1002/pat.6350	2024
Lipid extraction and analysis of microalgae strain pectinodesmus PHM3 for biodiesel production <i>Dania Akram Kiyani Shafia Maryam Sundus Jabeen Amina Abdullah Ahmad Muhammad Waqas Alam Chattha Hussnain Ahmed Janjua</i> <i>BMC Biotechnology</i> , Volume:23, Issue:1, Article number: 20 Impact Factor: 3.5 Quartile: 2 Citations: 9 DOI: 10.1186/s12896-023-00784-8	2023
Antifouling and Water Flux Enhancement in Polyethersulfone Ultrafiltration Membranes by Incorporating Water-Soluble Cationic Polymer of Poly [2-(Dimethyl amino) ethyl Methacrylate] <i>Raja Muhammad Asif Khan Nasir Mahmood Ahmad Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain Ahmed Janjua</i> <i>Polymers</i> , Volume 15(13), Article Number 2868 Impact Factor: 5.0 Quartile: 1 Citations: 11 DOI: https://doi.org/10.3390/polym15132868	2023
Antibacterial PES/Vancomycin ultrafiltration membranes with enhanced water flux and low BSA rejection <i>Zubia Abid M. Asad Abbas Hussnain Junjua Naveed Ahmed Nasir Mahmood Ahmad</i> <i>Water and Environment Journal</i> , Pages 1-12 Impact Factor: 2.000 Quartile: 2 Citations: 3 DOI: https://doi.org/10.1111/wej.12866	2023
Probing the behavior and kinetic studies of amphiphilic acrylate copolymers with bovine serum albumin <i>Shehla Mushtaq Muhammad Asad Abbas Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain Ahmed Janjua Nasir Mahmood Ahmad</i> <i>Scientific Reports</i> , Volume: 13, Issue: 1, Article number: 4572 Impact Factor: 4.997 Quartile: 2 Citations: 6 DOI: 10.1038/s41598-023-27515-5	2023
Genome mining, antimicrobial and plant growth-promoting potentials of halotolerant Bacillus paralicheniformis ES-1 isolated from salt mine <i>Sajid Iqbal Muhammad Qasim Hazir Rahman Naeem Khan Rehan Zafar Paracha Muhammad Faraz Bhatti Aneela Javed Hussnain Ahmed Janjua</i> <i>Molecular Genetics and Genomics</i> , Pages 1-15 Impact Factor: 2.980 Quartile: 3 Citations: 21	2022

DOI: <https://doi.org/10.1007/s00438-022-01964-5>

Integrated analysis to study the interplay between post-translational modifications (PTM) in hepatitis C virus proteins and hepatocellular carcinoma (HCC) development

2022

Aqsa Ikram Bisma Rauff Badr Alzahrani Faryal Mahwish Awan Ayesha Obaid Anam Naz Salik Javed Kakar Hussnain Ahmed Janjua
Scientific Reports , Volume 12, Issue 1, Article Number 15648

Impact Factor: 4.996 | **Quartile:** 2 | **Citations:** 4

DOI: <https://doi.org/10.1038/s41598-022-19854-6>

Production, Optimization, and Partial Purification of Alkali-Thermotolerant Proteases from Newly Isolated *Bacillus subtilis* S1 and *Bacillus amyloliquefaciens* KSM12

2022

Sidra Hashmi Sajid Iqbal Ittikhar Ahmed Hussnain Ahmed Janjua
Processes , Volume 10, Issue 6, Article Number 1050

Impact Factor: 3.5 | **Quartile:** 2 | **Citations:** 26

DOI: [10.3390/pr10061050](https://doi.org/10.3390/pr10061050)

Synthesis of non-cytotoxic Co3O4 nanocatalysts for thermocatalytic methane decomposition by resource recovery

2022

Sheeza Mughal Hafiz Ali Haider Sehole Asad Mumtaz Muhammad Bilal Khan Niazi Fazal Adnan Hongbo Zhao Hussnain Ahmed Janjua
Biomass Conversion and Biorefinery , Pages 1-19

Impact Factor: 4.987 | **Quartile:** 1

DOI: <https://doi.org/10.1007/s13399-022-02606-x>

Amphiphilic copolymers of dimethyl aminoethyl methacrylate and methyl methacrylate with controlled hydrophilicity for antialgal activity

2022

Shehla Mushtaq Muhammad Asad Abbas Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain Ahmed Janjua Qamar Malik Nasir Mahmood Ahmad
Journal of Applied Polymer Science , Volume 139, Issue 5, Article Number 51578

Impact Factor: 3.0 | **Quartile:** 2 | **Citations:** 4

DOI: <https://doi.org/10.1002/app.51578>

In Vitro Evaluation and Genome Mining of *Bacillus subtilis* Strain RS10 Reveals Its Biocontrol and Plant Growth-Promoting Potential

2021

Sajid Iqba Nimat Ullah Hussnain Ahmed Janjua
Agriculture-Basel , Volume, 11(12), Article Number 1273

Impact Factor: 3.408 | **Quartile:** 1 | **Citations:** 39

DOI: <https://doi.org/10.3390/agriculture11121273>

Assessment of mycoviral diversity in Pakistani fungal isolates revealed infection by 11 novel viruses of a single strain of *Fusarium mangiferae* isolate SP1

2021

Haris Ahmed Khan Wajeeha Shamsi Atif Jamal Memoona Javaied Mashal Sadiq Tehsin fatma Aqeel Ahmed Maleeha Arshad Mubashra Waseem Samra Babar Midhat Mustafa Dogar Nasar Virk Hussnain Ahmed Janjua Nobuhiro Suzuki Hideki Kondo Muhammad Faraz Bhatti
Journal of General Virology , Volume 102(12), Article Number 001690

Impact Factor: 3.891 | **Quartile:** 2 | **Citations:** 13

DOI: <https://doi.org/10.1099/jgv.0.001690>

Antialgal Synergistic Polystyrene Blended with Polyethylene Glycol and Silver Sulfadiazine for Healthcare Applications

2021

M. Raheel Anjum Shehla Mushtaq M. Asad Abbas Azhar Mahmood Habib Nasir Hussnain Ahmed Janjua Qamar Malik Nasir Mahmood Ahmad
Advances in Polymer Technology , Volume 2021, Article ID 6627736, 9 pages

Impact Factor: 2.389 | **Quartile:** 3 | **Citations:** 1

DOI: <https://doi.org/10.1155/2021/6627736>

Whole-genome sequence and broad-spectrum antibacterial activity of *Chryseobacterium cucumeris* strain MW-6 isolated from the Arabian Sea

2021

Sajid Iqbal Muhammad Sufyan Vohra Hussnain Ahmed Janjua
3 Biotech , Volume 11, Article Number 489

Impact Factor: 2.406 | **Quartile:** 3 | **Citations:** 9

DOI: <https://doi.org/10.1007/s13205-021-03039-5>

Genome Mining and Comparative Genome Analysis Revealed Niche-Specific Genome Expansion in Antibacterial *Bacillus pumilus* Strain SF-4

2021

Sajid Iqbal John Vollmers Hussnain Ahmed Janjua
Genes , Volume 12(7), Article Number 1060

Impact Factor: 4.141 | **Quartile:** 2 | **Citations:** 22

DOI: <https://doi.org/10.3390/genes12071060>

- Synthesis of diosgenin conjugated gold nanoparticles using algal extract of Dictyosphaerium sp. and in-vitro application of their antiproliferative activities** 2021
Sundus Jabeen Amina Maheen Iqbal Amir Faisal Zunaira Shoaib Muhammad Bilal Khan Niazi Nasir Mahmood Ahmad Nauman Khalid Hussnain A. Janjua
Materials Today Communications, Volume 27, Article Number 102360
Impact Factor: 3.662 | **Quartile:** 3 | **Citations:** 18
DOI: <https://doi.org/10.1016/j.mtcomm.2021.102360>
- Coding-Complete Genome Sequence of a SARS-CoV-2 Strain Isolated in Gilgit, Pakistan** 2021
Aneela Javed Saifullah Khan Niazi Ejaz Ghani Maham Yamin Muhammad Saqib Hussnain Ahmed Janjua Ali Zohaib
Microbiology Resource Announcements, Volume 10, Issue 13, Article Number e01151
Impact Factor: N/A | **Citations:** 1
DOI: <https://doi.org/10.1128/MRA.01151-20>
- Transpicuous-Cum-Fouling Resistant Copolymers of 3-Sulfopropyl Methacrylate and Methyl Methacrylate for Optonics Applications in Aquatic Medium and Healthcare** 2020
Shehla Mushtaq Nasir M. Ahmad Azhar Mahmood Shehla Mushtaq Habib Nasir Hussnain A. Janjua
Advances in Polymer Technology, Volume 2020, Article ID 5392074, 11 pages
Impact Factor: 2.389 | **Quartile:** 3 | **Citations:** 14
DOI: <https://doi.org/10.1155/2020/5392074>
- Effect of Flavonoid-Coated Gold Nanoparticles on Bacterial Colonization in Mice Organs** 2020
Sundus Riaz Nosheen Fatima Rana Irshad Hussain Tahreem Tanweer Afrah Nawaz Farid Menaa Hussnain Ahmed Janjua Tahseen Alam Amna Batool
Ayesha Naeem Maryam Hameed Syed Mohsin Ali
Nanomaterials, Volume 10(9), Article Number 1769
Impact Factor: 5.076 | **Quartile:** 1 | **Citations:** 33
DOI: <https://doi.org/10.3390/nano10091769>
- Screening and stability testing of commercially applicable Heliotropium crispum silver nanoparticle formulation with control over aging and biostability** 2020
Faria Khan Sajid Iqbal Nauman Khalid Irshad Hussain Zajif Hussain Rafal Szmigielski Hussnain Ahmed Janjua
Applied Nanoscience, Volume 10, Pages 1941–1956
Impact Factor: 3.674 | **Quartile:** 3 | **Citations:** 5
DOI: <https://doi.org/10.1007/s13204-020-01333-x>
- In-Vitro and In-Vivo Study of Superabsorbent PVA/Starch/g-C₃N₄/Ag@TiO₂ NPs Hydrogel Membranes for Wound Dressing** 2020
Erum Pervaiz Arooj Ahmed Muhammad Bilal Khan Niazi Zaib Jahan Tahir Ahmad Arshad Hussain Hussnain Ahmed Janjua Zakir Hussain
European Polymer Journal, Volume 130, Article Number 109650
Impact Factor: 4.598 | **Quartile:** 1 | **Citations:** 101
DOI: [DOI: 10.1016/j.eurpolymj.2020.109650](https://doi.org/10.1016/j.eurpolymj.2020.109650)
- Comparative safety analysis of bactericidal nano-colloids: Assessment of potential functional toxicity and radical scavenging action** 2019
Muhammad Uzair Hashmi Nauman Khalid Tehseen Alam Rumeza Hanif Hussnain A. Janjua
Colloids and Surfaces B: Biointerfaces, Volume 184
Impact Factor: 4.389 | **Quartile:** 1 | **Citations:** 8
DOI: [10.1016/j.colsurfb.2019.110508](https://doi.org/10.1016/j.colsurfb.2019.110508)
- Interactions between marmatite and bornite during the oxidative dissolution process in abiotic and biotic systems** 2019
Yanjun Zhang Hongbo Zhao Yisheng Zhang Lu Qian Luyuan Zhang Xiaoyu Meng Xin Lv Abhilash Hussnain Ahmed Janjua Guanzhou Qiub
RSC Advances, Volume 9, Issue 46, Pages 26609-26618
Impact Factor: 3.119 | **Quartile:** 2 | **Citations:** 9
DOI: [10.1039/c9ra03658j](https://doi.org/10.1039/c9ra03658j)
- Hydrothermal synthesis of carbon nanodots from bovine gelatin and PHM3 microalgae strain for anticancer and bioimaging applications** 2019
Mishal Amjad Maheen Iqbal Amir Faisal Arshad Mahmood Junjua Irshad Hussain Syed Zajif Hussain Hamed A. Ghramh Khalid Ali Khan Hussnain Ahmed Janjua
Nanoscale Advances, Volume 1, Issue 8, Pages 2924-2936
Impact Factor: 0 | **Citations:** 49
DOI: [10.1039/c9na00164f](https://doi.org/10.1039/c9na00164f)
- Formulation of active packaging system using Artemisia scoparia for enhancing shelf life of fresh fruits** 2019
Javaria Hanif Nauman Khalid Rao Sanauallah Khan Muhammad Faraz Bhatti Mohammad Qasim Hayat Muhammad Ismail Saadia Andleeb Qaiser Mansoor

<p><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</p> <p>Impact Factor: 5.880 Quartile: 1 Citations: 20 DOI: https://doi.org/10.1016/j.msec.2019.02.101</p>	
<p>Carbon-dot wrapped ZnO nanoparticle-based photoelectrochemical sensor for selective monitoring of H2O2 released from cancer cells</p> <p><i>Faria Khan Naeem Akhtar Nasir Jalal Irshad Hussain Rafal Szmigielski Muhammad Qasim Hayat Hafiz B. Ahmad Waleed A. El-Said Minghui Yang Hussnain Ahmed Janjua</i> <i>Microchimica Acta</i> , Volume 186, Issue 2</p> <p>Impact Factor: 6.232 Quartile: 1 Citations: 46 DOI: 10.1007/s00604-019-3227-x</p>	2019
<p>Characterization of Recombinant Poliovirus 2A Protease; A Potential Anti-Viral Drug Target</p> <p><i>Amna Younus Muhammad Faraz Bhatti Nasar Virk Muhammad Arshad Hussnain Janjua Robert Coutts</i> <i>Characterization of Recombinant Poliovirus 2A Protease; A Potential Anti-Viral Drug Target</i>, 2018110550</p> <p>Impact Factor: - DOI: 10.20944/preprints201811.0550.v1</p>	2018
<p>Graphene Oxide-PES-Based Mixed Matrix Membranes for Controllable Antibacterial Activity against Salmonella typhi and Water Treatment</p> <p><i>Haleema Tariq Bhatti Nasir Mahmood Ahmad Muhammad Bilal Khan Niazi Muhammad Azeem-ur-Rehman Alvi Naveed Ahmad Muhammad Nabeel Anwar Waqas Akram Cheema Sheraz Tariq Mehwish Batool Hussnain Ahmed Janjua Asim Laeeq Khan Asad U. Khan Zaeem Aman</i> <i>The International Journal of Polymer Science</i> , NULL</p> <p>Impact Factor: 1.892 Quartile: 2 Citations: 17 DOI: https://doi.org/10.1155/2018/7842148</p>	2018
<p>Anaerobic digestion restricted to phase I for nutrient release and energy production using waste-water grown Chlorella vulgaris</p> <p><i>Muneeba Khalid Evan Johnson Akshat Vij Edward J. Bouwer Michael J. Betenbaugh Hussnain Ahmed Janjua</i> <i>Chemical Engineering Journal</i> , Volume: 352, Pages: 756-764</p> <p>Impact Factor: 8.355 Quartile: 1 Citations: 10 DOI: 10.1016/j.cej.2018.07.084</p>	2018
<p>Exploring NS3/4A, NS5A and NS5B proteins to design conserved subunit multi-epitope vaccine against HCV utilizing immunoinformatics approaches</p> <p><i>Aqsa Ikram Tahreem Zaheer Faryal Mehwish Awan Ayesha Obaid Anam Naz Rumeza Hanif Rehan Zafar Paracha Abdul Khaliq Naveed Hussnain Ahmed Janjua</i> <i>Scientific Reports</i> , Volume 8, Article Number 16107</p> <p>Impact Factor: 4.011 Quartile: 1 Citations: 75 DOI: 10.1038/s41598-018-34254-5</p>	2018
<p>In silico functional and tumor suppressor role of hypothetical protein PCNXL2 with regulation of the Notch signaling pathway</p> <p><i>Hussnain A Janjua Muhammad Naveed Komal Imran Ayesha Mushtaq Abdul Samad Mumtaz Nauman Khalid</i> <i>RSC Advances</i> , NULL</p> <p>Impact Factor: 3.049 Quartile: 2 Citations: 10 DOI: 10.1039/c8ra00589c</p>	2018
<p>Structure-Function Mutational Analysis and Prediction of the Potential Impact of High Risk Non-Synonymous Single-Nucleotide Polymorphism on Poliovirus 2A Protease Stability Using Comprehensive Informatics Approaches</p> <p><i>Amna Younus Saba Munawar Muhammad Faraz Bhatti Aqsa Ikram Faryal Mehwish Awan Ishrat Jabeen Nasar Um Minullah Hussnain Ahmed Janjua Muhammad Arshad</i> <i>Genes</i> , Volume 9(5), Article Number 228</p> <p>Impact Factor: 3.331 Quartile: 2 Citations: 1 DOI: 10.3390/genes9050228</p>	2018
<p>Hydrogels incorporated with silver nanocolloids prepared from antioxidant rich Aerva javanica as disruptive agents against burn wound infections</p> <p><i>Muhammad Uzair Hashmi Faria Khan Nauman Khalid Asad Abdullah Shahid Aqib Javed Tehsin Alam Nasir Jalal Muhammad Qasim Hayat Shah Rukh Abbas Hussnain Ahmed Janjua</i> <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i>, Volume 529, Pages 475-486</p> <p>Impact Factor: 2.829 Quartile: 2 Citations: 36 DOI: 10.1016/j.colsurfa.2017.06.036</p>	2017

- MicroRNA pharmacogenomics based integrated model of miR-17-92 cluster in sorafenib resistant HCC cells reveals a strategy to forestall drug resistance** 2017
Faryal Mehwish Awan Anam Naz Ayesha Obaid Aqsa Ikram Amjad Ali Jamil Ahmad Abdul Khaliq Naveed Hussnain Ahmed Janjua
Scientific Reports , Vol.7(1):11448
Impact Factor: 4.122 | **Quartile:** 1 | **Citations:** 36
DOI: 10.1038/s41598-017-11943-1
- 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 Itikhar 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
- Formal modeling of mTOR Associated biological regulatory network reveals novel therapeutic strategy for the treatment of cancer** 2017
Zurah Bibi Jamil Ahmad Amnah Siddiqua Rehan Zafar Paracha Tariq Saeed Amjad Ali Hussnain Ahmed Janjua Shakir Ullah Emna Ben Abdallah Olivier Roux
Frontiers in Physiology , Volume: 8, Article Number 416
Impact Factor: 3.394 | **Quartile:** 1 | **Citations:** 5
DOI: 10.3389/fphys.2017.00416
- Comparative analysis of stability and biological activities of violacein and starch capped silver nanoparticles** 2017
Sania Arif Aamina Batool Nauman Khalid Itikhar Ahmed Hussnain Ahmed Janjua
RSC Advances , Vol.7(8), Pages 4468-4478
Impact Factor: 2.936 | **Quartile:** 2 | **Citations:** 19
DOI: doi:10.1039/C6RA25806A
- 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
- Mutation-Structure-Function Relationship Based Integrated Strategy Reveals the Potential Impact of Deleterious Missense Mutations in Autophagy Related Proteins on Hepatocellular Carcinoma (HCC): A Comprehensive Informatics Approach** 2017
Faryal Mehwish Awan Aqsa Ikram Ayesha Obaid Hussnain Ahmed Janjua
International Journal of Molecular Sciences , Vol. 18(1), Article Number 139
Impact Factor: 3.687 | **Quartile:** 2 | **Citations:** 50
DOI: doi:10.3390/ijms18010139
- Controlled assembly of silver nano-fluid in Heliotropium crispum extract: A potent anti-biofilm and bactericidal formulation** 2016
Faria Khan Muhammad Uzair Hashmi Nauman Khalid Muhammad Qasim Hayat Amer Ikram Hussnain Ahmed Janjua
Applied Surface Science , Volume 387, Pages 317-331
Impact Factor: 3.387 | **Quartile:** 1 | **Citations:** 155
DOI: 10.1016/j.apsusc.2016.06.133
- Protein Structure Modelling, Ligand Docking and Active Site Analysis of Mutated Poliovirus 2a Protease Gene Isolated From the Blood of Pakistani Polio Infected Patients** 2016
Amna Younus Muhammad Faraz Bhatti Tahir Ahmed Nasar Um Minullah Muhammad Arshad Hussnain Ahmed Janjua
International Journal of Advances in Science Engineering and Technology , Vol-4, Iss-3, Spl. Issue-2
Impact Factor: -
DOI: http://iraj.in/journal/IJASEAT/volume.php?volume_id=291
- Pangenome and immuno-proteomics analysis of Acinetobacter baumannii strains revealed the core peptide vaccine targets** 2016
Afreenish Hassan Anam Naz Ayesha Obaid Rehan Zafar Paracha Kanwal Naz Faryal Mehwish Awan Syed Aun Muhammad Hussnain Ahmed Janjua Jamil Ahmad Amjad Ali
BMC Genomics , Volume 17, Article Number 732
Impact Factor: 3.729 | **Quartile:** 1 | **Citations:** 97
DOI: 10.1186/s12864-016-2951-4

- On the modeling and analysis of the biological regulatory network of NF-κB activation in HIV-1 infection** 2016
Zurah Bibi Jamil Ahmad Amjad Ali Amnah Siddiqa Shaheen Shahzad Samar HK Tareen Hussnain Ahmed Janjua Shah Khusro
Complex Adaptive Systems Modeling, Volume 4, Article Number UNSP 1
Impact Factor: 0 | Citations: 2
DOI: 10.1186/s40294-015-0013-4
- Identification of Circulating Biomarker Candidates for Hepatocellular Carcinoma (HCC): An Integrated Prioritization Approach** 2015
Faryal Mehwish Awan Anam Naz Ayesha Obaid Amjad Ali Jamil Ahmad Sadia Anjum Hussnain Ahmed Janjua
PLoS ONE, Volume 10(9), Article Number e0138913
Impact Factor: 3.057 | Quartile: 1 | Citations: 40
DOI: <https://doi.org/10.1371/journal.pone.0138913>
- Lysozyme-coated silver nanoparticles for differentiating bacterial strains on the basis of antibacterial activity** 2014
Mariyam Asghar Chatha Sumaira Ashraf Wardah Ejaz Hussnain Ahmed Janjua Irshad Hussain
Nanoscale Research Letters, Volume 9, Article Number 565
Impact Factor: 2.779 | Quartile: 1 | Citations: 34
DOI: doi:10.1186/1556-276X-9-565
- In-silico analysis of claudin-5 reveals novel putative sites for post-translational modifications: Insights into potential molecular determinants of blood-brain barrier breach during HIV-1 infiltration** 2014
Amjad Ali Hussnain Ahmed Janjua Faryal Mehwish Awan Sadia Anjum Ayesha Obaid Rehan Zafar Paracha
Infection, Genetics and Evolution, Volume 27, Pages 355-365
Impact Factor: 3.015 | Quartile: 2 | Citations: 16
DOI: 10.1016/j.meegid.2014.07.022
- Clinical populations of *Pseudomonas aeruginosa* isolated from acute infections show a wide virulence range partially correlated with population structure and virulence gene expression** 2012
Hussnain A. Janjua Nicola Segata Paola Bernabo Sabrina Tamburini Albert Ellen Olivier Jousson
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Patents

Development of alginate based thin film food packing system incorporated with algal derived antimicrobial ZnO nanoparticles 2020

Status: Filed

Silver nanoparticles and PDAC coated antibacterial nanofabric 2019

Status: Filed

Anti-Bacterial Silver Nano particles Coated Surgical Blades 2019

Status: Filed

Silver Nanoparticles and PDAC Coated Anti- Bacterial Nano-Fabric 2019

Status: Filed

Industrial Designs

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