

Najam Us Sahar Sadaf Zaidi

Professor

Atta-Ur-Rahman School of Applied Biosciences

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About

Dr. Najam Us Sahar Sadaf Zaidi is working as Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Najam Us Sahar Sadaf Zaidi has a PhD in Biochemistry And Biotechnology. Dr. Najam Us Sahar Sadaf Zaidi has published 51 research articles & conference papers having a citation count of 901, carried out 4 projects and filed 2 intellectual property.

Qualifications

PhD in Biochemistry And Biotechnology University of the Punjab , Pakistan	2001 - 2007
MSc in Biochemistry Arid Agriculture University , Pakistan	1998 - 2000
BSc in Botony, Zoology, Chemistry University of the Punjab , Pakistan	1996 - 1998

Experience

Professor Atta-Ur-Rahman School of Applied Biosciences	2023- Present
Professor Atta-Ur-Rahman School of Applied Biosciences	2023 - 2023
Professor Atta-Ur-Rahman School of Applied Biosciences	2023 - 2023
Professor Atta-Ur-Rahman School of Applied Biosciences	2021 - 2023
Associate Professor Atta-Ur-Rahman School of Applied Biosciences	2016 - 2021
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2015 - 2016
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2012 - 2015
Assistant Professor Atta-Ur-Rahman School of Applied Biosciences	2010 - 2012
Lecturer University of Wah , Wah Cantt	2007 - 2008

Awards

Best Oral Presentation Award	2013
Post Doc Fellowship Fellowship awarded by French embassy in Pakistan	2009

Research Projects

National Projects

Cloning and Characterization of Full Length Dengue Virus Genome of Pakistan Origin	2009
Funding Agency: PSF	
Amount: PKR 1,970,000.00	
Status: Completed	
Immunization with Peptides against Hepatitis C Virus	2010
Funding Agency: HEC	
Amount: PKR 15,220,000.00	
Status: Completed	
Design and Development of Water Purification Technologies Using Nanotechnology-I	2007
Funding Agency: MoST	
Amount: PKR 6,776,000.00	
Status: Completed	

International Projects

Industry Projects

National Projects

Career Orientation Test Development	2020
Client: Merafuture	
Amount: PKR 1,200,000.00	
Status: Completed	

International Projects

Research Articles

Development of an immunodiagnostic assay for the detection of Sugarcane mosaic virus	2024
Hafiz Muhammad Khalid Najam Us Sahar Sadaf Zaidi Naeem Rashid Muhammad Tahir	
Turkish Journal of Biology, Volume:48, No.06, Pages:390-400	
Impact Factor: 1.1 Quartile: 3	
DOI: https://doi.org/10.55730/1300-0152.2714	
Computational Exploration of Berberis lycium Royle: A Hidden Treasure Trove for Antiviral Development	2024
Mamuna Mukhtar Haris Ahmed Khan Tope Abraham Ibisani Ayodele Ifeoluwa Faleti Najam Us Sahar Sadaf Zaidi	
Bioinformatics and Biology Insights, Volume:18, Pages:19	
Impact Factor: 2.4 Quartile: 3	
DOI: https://doi.org/10.1177/11779322241264144	
In Vivo Validation of Novel Synthetic tbp1 Peptide-Based Vaccine Candidates against Haemophilus influenzae Strains in BALB/c Mice	2023
Naseeha Bibi Amtul Wadood Wajeeha Mamuna Mukhtar Muhammad Tahir Najam Us Sahar Sadaf Zaidi	
Vaccines , Volume: 11, Issue: 11, Article Number:1651	
Impact Factor: 7.8 Quartile: 1 Citations: 2	
DOI: 10.3390/vaccines11111651	
Development of polyclonal antibodies against the recombinant protein of Barley yellow dwarf virus	2023
Muhammad Khalid Najam us Sahar Sadaf Zaidi Naeem Rashid Muhammad Tahir	
Asian Journal of Agriculture and Biology, Pages 1-15	
Impact Factor: 1.600 Quartile: 2 Citations: 5	
DOI: DOI: 10.35495/ajab.2023.127	
Exploring the inhibitory potential of Nigella sativa against dengue virus NS2B/NS3 protease and NS5 polymerase using computational approaches	2023
Mamuna Mukhtar Najam us Sahar Sadaf Zaidi	
RSC Advances , Volume 13, Pages 18306-18322	
Impact Factor: 4.036 Quartile: 2 Citations: 13	
DOI: https://doi.org/10.1039/D3RA02613B	

Red Blood Cell Substitutes: Liposome Encapsulated Hemoglobin and Magnetite Nanoparticle Conjugates as Oxygen Carriers <i>Saleha Hafeez Najam us Sahar Sadaf Zaidi</i> <i>International Journal of Molecular Sciences</i> , Volume 24, Issue 2, Article Number 1618 Impact Factor: 6.208 Quartile: 1 Citations: 5 DOI: https://doi.org/10.3390/ijms24021618	2023
Engineering Modified mRNA-Based Vaccine against Dengue Virus Using Computational and Reverse Vaccinology Approaches <i>Mamuna Mukhtar Najam us Sahar Sadaf Zaidi</i> <i>International Journal of Molecular Sciences</i> , Volume 23, Issue 22, Article Number 13911 Impact Factor: 6.208 Quartile: 1 Citations: 14 DOI: https://doi.org/10.3390/ijms232213911	2022
Vaccinomics-driven proteome-wide screening of Haemophilus influenzae for the prediction of common putative vaccine candidates <i>Naseeha Bibi Najam us Sahar Sadaf Zaidi Prof Muhammad Tahir Mustafeez Mujtaba Babar</i> <i>Canadian Journal of Microbiology</i> , Volume 67(11), Pages 799-812 Impact Factor: 2.419 Quartile: 3 Citations: 3 DOI: 10.1139/cjm-2020-0535	2021
Pharmacoinformatics approaches in the discovery of drug-like antimicrobials of plant origin <i>Duaa Ahmad Khan Syed Damin Abbas Hamdani Sahar Iftikhar Sohaib Zafar Malik Najam Us Sahar Sadaf Zaidi Alvina Gul Mustafeez Mujtaba Babar Munir Ozturk Bengu Turkyilmaz Unal Tuba Gonenc</i> <i>Journal of Biomolecular Structure & Dynamics</i> , Pages 1-17 Impact Factor: 3.310 Quartile: 2 Citations: 6 DOI: 10.1080/07391102.2021.1894982	2021
Large-Scale in Vitro Transcription, RNA Purification and Chemical Probing Analysis <i>Najam us Sahar Sadaf Zaidi Fariha Kanwal Ting Chen Yunlon Zhang Altaf Simair Cai Rujie Xinhang Guoa Xiaolong Wei Geoffrey Siegel Changrui Lu</i> <i>Cellular Physiology and Biochemistry</i> , NULL Impact Factor: N/A Citations: 28 DOI: 10.1159/000492512	2018
Prevalence of hepatitis B and hepatitis C Virus infections among male to female (MFT) transgenders in Rawalpindi (Pakistan) <i>Hashaam Akhtar Yasmin Badshah Samar Akhtar Faheem Hasan Muhammad Faisal Najam-us-Sahar Sadaf Zaidi Ishtiaq Qadri</i> <i>Advancements in Life Sciences</i> , Volume 5, Issue 2, Pages 46-55 Impact Factor: - DOI: NA	2018
Antiviral evaluation of an Hsp90 inhibitor, gedunin, against dengue virus <i>Deeba Amraiz Najam-us-Sahar Sadaf Zaidi Munazza Fatima</i> <i>Tropical Journal of Pharmaceutical Research</i> , Volume: 16, Issue: 5, Pages: 997-1004 Impact Factor: 0.444 Quartile: 4 Citations: 12 DOI: DOI:10.4314/tjpr.v16i5.5	2017
Prevalence of rotavirus, adenovirus, hepatitis a virus and enterovirus in water samples collected from different region of Peshawar, Pakistan <i>Tahir Ahmad Najma Arshad Fazal Adnan Najam-us-Sahar Sadaf Zaidi Muhammad Talha Shahid Usman Zahoor Muhammad S Afzal Sadia Anjum</i> <i>Annals of Agricultural and Environmental Medicine</i> , Volume 23, Issue 4, Pages 576-580 Impact Factor: 0.829 Quartile: 4 Citations: 17 DOI: 10.5604/12321966.1226849	2016
Development of robust in vitro RNA-dependent RNA polymerase assay as a possible platform for antiviral drug testing against dengue <i>Deeba Amraiz Najam-us-Sahar Sadaf Zaidi Munazza Fatima</i> <i>Enzyme and Microbial Technology</i> , Volume 92, Pages 26-30 Impact Factor: 2.502 Quartile: 2 Citations: 9 DOI: 10.1016/j.enzmictec.2016.06.010	2016
PCR-Based Molecular Diagnosis of Hepatitis Virus (HBV and HDV) in HCV Infected Patients and Their Biochemical Study <i>Yasmin Badshah Muhammad Nasir Riaz Muhammad Faheem Muhammad Ayaz Anwar Ummar Raheel Hashaam Akhtar Kosar Tamanna Muhammad Tahir Najam-us-Sahar Sadaf Zaidi Ishtiaq Qadri</i>	2016

Impact Factor: -

DOI: <http://dx.doi.org/10.1155/2016/3219793>

Logical analysis of regulation of interleukin-12 Expression pathway during HCV infection

2016

Zia-ur-Rehman Farooqi Samar H. K. Tareen Jamil Ahmed Najam-us-Sahar Sadaf Zaidi

Protein and Peptide Letters, Volume 23, Issue 6, Pages 581-589

Impact Factor: 0.964 | **Quartile:** 4 | **Citations:** 4

DOI: DOI: 10.2174/0929866523666160419150136

Alpha-lipoic acid-mediated activation of muscarinic receptors improves hippocampus- and amygdala-dependent memory

2016

Syeda Mehpara Farhat Ghazala Iqbal Mustafeez Mujtaba Babar Najam-us-Sahar Sadaf Zaidi Seyed Mohammad Nabavi Touqeer Ahmed Aamra Mahboob

Brain Research Bulletin, Volume 122, Pages 19-28

Impact Factor: 3.033 | **Quartile:** 2 | **Citations:** 40

DOI: 10.1016/j.brainresbull.2016.02.014

In vitro antiviral activity of Cinnamomum cassia and its nanopartilces against H7N3 influenza A virus

2016

Munazza Fatima Najam-us-Sahar Sadaf Zaidi Deebea Amraiz Farhan Afzal

Journal of Microbiology and Biotechnology, Volume 26(1), Pages 151–159

Impact Factor: 1.750 | **Quartile:** 3 | **Citations:** 140

DOI: doi:10.4014/jmb.1508.08024

Frequency of hepatitis E and Hepatitis A virus in water sample collected from Faisalabad, Pakistan

2015

Tahir Ahmad Sadia Anjum Najam-us-Sahar Sadaf Zaidi Amjad Ali Muhammad Waqas Muhammad Sohail Afzal Najma Arshad

Annals of Agricultural and Environmental Medicine, Volume 2, Issue 4, Pages 661-664

Impact Factor: 0.895 | **Quartile:** 4 | **Citations:** 15

DOI: 10.5604/12321966.1185903

Design, synthesis and bioevaluation of novel umbelliferone analogues as potential mushroom tyrosinase inhibitors

2015

Zaman Ashraf Muhammad Rafiq Sung-Yum Seo Mustafeez Mujtaba Babar Najam-us-Sahar Sadaf Zaidi

Journal of Enzyme Inhibition and Medicinal Chemistry, Volume:30, Issue:6, Pages 874-883

Impact Factor: 3.428 | **Quartile:** 1 | **Citations:** 44

DOI: doi:10.3109/14756366.2014.979346

A Molecular Approach Designed to Limit the Replication of Mature DENV2 in Host Cells

2015

Ummar Raheel Muhsin Jamal Najam-us-Sahar Sadaf Zaidi

Viral Immunology, Vol.28(7), Pages 378-384

Impact Factor: 1.513 | **Quartile:** 4

DOI: -

Synthesis, kinetic mechanism and docking studies of vanillin derivatives as inhibitors of mushroom tyrosinase

2015

Zaman Ashraf Muhammad Rafiq Sung-Yum Seo Mustafeez Mujtaba Babar Najam-us-Sahar Sadaf Zaidi

Bioorganic and Medicinal Chemistry, Volume 23, Issue 17, Pages 5870-5880

Impact Factor: 2.923 | **Quartile:** 2 | **Citations:** 98

DOI: DOI:10.1016/j.bmc.2015.06.068

Protein sequence conservation and stable molecular evolution reveals influenza virus nucleoprotein as a universal druggable target

2015

Mustafeez Mujtaba Babar Najam-us-Sahar Sadaf Zaidi

Infection, Genetics and Evolution, Volume 34, Pages 200-210

Impact Factor: 2.591 | **Quartile:** 2 | **Citations:** 21

DOI: DOI:10.1016/j.meegid.2015.06.030

Molecular confirmation of enterovirus from sewage and drinking water samples from three cities, Pakistan: a potential risk factor for public health

2015

Tahir Ahmad Sadia Anjum Muhammad Sohail Afzal Hamid Raza Najam-us-Sahar Sadaf Zaidi Najma Arshad

Southeast Asian Journal of Tropical Medicine and Public Health, Volume: 46, Issue:4, Pages 640-649

Impact Factor: 0.773 | **Quartile:** 4

DOI: NA

Kinetic and in silico studies of novel hydroxy-based thymol analogues as inhibitors of mushroom tyrosinase

2015

Zaman Ashraf Muhammad Rafiq Sung-Yum Seo Kang Sung Kwon Mustafeez Mujtaba Babar Najam-us-Sahar Sadaf Zaidi
European Journal of Medicinal Chemistry, Volume 98, Pages 203-211

Impact Factor: 3.902 | **Quartile:** 1 | **Citations:** 70

DOI: doi:10.1016/j.ejmech.2015.05.031

To Investigate the Efficiency of Surveyor Nuclease in Error Correction during Gene Synthesis

2015

Zia-ur-Rehman Farooqi Andrew Curin Imran Tipu Philip J.R Day Najam-us-Sahar Sadaf Zaidi

Annals of Pakistan Institute of Medical Sciences, Volume 11(4), Pages 176-179

Impact Factor: -

DOI: -

Regulation of core expression during the hepatitis C virus life cycle

2015

Muhammad Sohail Afzal Khaled Alsaleh Rayan Farhat Sandrine Belouzard Adeline Danneels Véronique Descamps Gilles Duverlie Czeslaw Wychowski

Najam-us-Sahar Sadaf Zaidi Jean Dubuisson Yves Rouille

Journal of General Virology, Volume 96, No.2, Pages 311-321

Impact Factor: 3.192 | **Quartile:** 2 | **Citations:** 13

DOI: doi:10.1099/vir.0.070433-0

Global geno-proteomic analysis reveals cross-continental sequence conservation and druggable sites among influenza virus polymerases

2014

Mustafeez Mujtaba Babar Najam-us-Sahar Sadaf Zaidi Muhammad Tahir

Antiviral Research, Volume 112, Pages 120-13

Impact Factor: 3.938 | **Quartile:** 1 | **Citations:** 5

DOI: 10.1016/j.antiviral.2014.10.013

Comparison of HCV prevalence in Pakistan and Iran; An insight into future

2014

Muhammad Sohail Afzal Tahir Ahmad Najam us Sahar Sadaf Zaidi

Hepatitis Monthly, Volume 14, Issue 1, Article number e11466

Impact Factor: 1.932 | **Quartile:** 4 | **Citations:** 15

DOI: DOI: 10.5812/hepatmon.11466

Hepatitis C Virus Capsid Protein and Intracellular Lipids Interplay and Its Association With Hepatic Steatosis

2014

Muhammad Sohail Afzal Najam Us Sahar Sadaf Zaidi Jean Dubuisson Yves Rouille

Hepatitis Monthly, Volume 14(8), Article Number e17812

Impact Factor: 1.932 | **Quartile:** 4 | **Citations:** 8

DOI: 10.5812/hepatmon.17812

Antiviral drug therapy- exploiting medicinal plants

2013

Mustafeez Babar Najam-us-Sahar Sadaf Zaidi Muhammad Ashraf Alvina Gul

Journal of Antivirals and Antiretrovirals, Volume 5

Impact Factor: 0 | **Citations:** 17

DOI: 10.4172/jaa.1000060

Synthesis of silver-doped titanium TiO₂ powder-coated surfaces and its ability to inactivate pseudomonas aeruginosa and bacillus subtilis

2013

Saman Khan Ishtiaq A Qazi Imran Hashmi M. Ali Awan Najam-us-Sehar Sadaf Zaidi

Journal of Nanomaterials, Article No.531010

Impact Factor: 1.611 | **Quartile:** 2 | **Citations:** 32

DOI: 10.1155/2013/531010

Prevalence of human immunodeficiency virus infection among transgender men in Rawalpindi (Pakistan)

2012

Hashaam Akhtar Yasmin Badshah Samar Akhtar Naghmana Kanwal Maha Nadeem Akhtar Najam us Sahar Sadaf Zaidi Ishtiaq Qadri

Virology Journal, Volume:9, Issue:1,

Impact Factor: 2.092 | **Quartile:** 3 | **Citations:** 14

DOI: 10.1186/1743-422X-9-229

Phylogenetic and structural analysis of HCV nonstructural protein 4A from Pakistani patients

2012

Najam us Sahar Sadaf Zaidi Naghmana Kanwal Awaisa Ghazal Kaneez Fatima Farakh Javed Ishtiaq Qadri

Virus Genes, Volume 44, Issue 1, Pages 1-7

Impact Factor: 1.769 | **Quartile:** 3 | **Citations:** 2

DOI: doi: 10.1007/s11262-011-0672-y

Association of IL-10 polymorphisms with hepatitis C infection susceptibility in Pakistani population

2011

Muhammad Sohail Afzal Sadia Tahir Amna Salman Tahir Ahmad Talha Shafi Najm Us Sahar Sadaf Zaidi Ishtiaq Qadri
Journal of Infection in Developing Countries, Volume 5(6), Pages 473-479

Impact Factor: 1.191 | **Quartile:** 4 | **Citations:** 41

DOI: 10.3855/jidc.1338

A molecular evaluation of dengue virus pathogenesis and its latest vaccine strategies

2011

Najam us Sahar Sadaf Zaidi Muhammad Faheem Ummar Raheel Muhammad Nasir Riaz Naghmana Kanwal Farakh Javed Ishtiaq Qadri
Molecular Biology Reports, Volume 38, Issue 6, Pages 3731-3740

Impact Factor: 2.929 | **Quartile:** 2 | **Citations:** 15

DOI: doi: 10.1007/s11033-010-0488-1

Analysis of interleukin-10 gene polymorphisms and hepatitis C susceptibility in Pakistan

2011

Muhammad Sohail Afzal Sadia Tahir Amna Salman Tahir Ahmad Talha Shafi Najm Us Sahar Sadaf Zaidi Ishtiaq Qadri
Journal of Infection in Developing Countries, Volume 5(6), Pages 473-479

Impact Factor: 1.191 | **Quartile:** 4 | **Citations:** 41

DOI: <https://doi.org/10.3855/jidc.1338>

- Role of phytohormones in enhancing antioxidant defense in plants exposed to metal/metalloid toxicity** 2018
Duaa Ahmad Khan Zeeshan Ali Sarah Iftikhar Deebea Amraiz Najam us Sahar Sadaf Zaidi Alvina Gul Mustafeez Mujtaba Babar
In: *Book on Plants Under Metal and Metalloid Stress: Responses, Tolerance and Remediation* Chapter 14, Pages 367-400
Citations: 14
DOI: 10.1007/978-981-13-2242-6_14
- Arsenic Toxicity: A South Asian Perspective** 2018
Sahar Iftikhar Zeeshan Ali Duaa Ahmad Khan Najam us Sahar Sadaf Zaidi Alvina Gul Mustafeez Mujtaba Babar
In: *Mechanisms of Arsenic Toxicity and Tolerance in Plants*, NULL
Citations: 1
DOI: 10.1007/978-981-13-1292-2_19
- Omics approaches in industrial biotechnology and bioprocess engineering** 2018
Mustafeez Mujtaba Babar Hasan Afzaal Venkata R. Pothineni Najam Us Sahar Sadaf Zaidi Zeeshan Ali Muhammad A. Zahid Alvina Gul
In: *Book on Omics Technologies and Bio-engineering: Volume 2: Towards Improving Quality of Life* Chapter 14, Pages 251-269
Citations: 10
DOI: 10.1016/B978-0-12-815870-8.00014-0
- Omics approaches in forensic biotechnology: Looking for ancestry to offence** 2018
Syed B. Nizami Sayyada Z. Hassan Kazmi Fatima Abid Mustafeez Mujtaba Babar Aneeqa Noor Najam Us Sahar Sadaf Zaidi Humna Hasan Mohsin Ali Alvina Gul Sami U. Khan
In: *Book on Omics Technologies and Bio-engineering: Towards Improving Quality of Life*, Volume 1, Pages 111-129
Citations: 4
DOI: 10.1016/B978-0-12-804659-3.00006-3
- Application of Bioinformatics and System Biology in Medicinal Plant Studies** 2017
Mustafeez Mujtaba Babar Venkata Raveendra Pothineni Zeeshan Ali Sarah Faisal Khalid Rehman Hakeem Alvina Gul Najam us Sahar Sadaf Zaidi
In: *Plant Bioinformatics: Decoding the Phyta*, NULL
Citations: 10
DOI: 10.1007/978-3-319-67156-7_15
- Transport and Metabolism of Nitrogen in Legume Nodules Under Phosphorus Deficiency** 2017
Mariam Fatima Syed Bilal Nizami Mustafeez Mujtaba Babar Najam-us-Sahar Sadaf Zaidi Zeeshan Ali Hira Siddiqui Fatima Abid Aneeqa Noor Ayesha Nazir Khan Sarah Faisal Alvina Gul
In: *Book on Legume Nitrogen Fixation in Soils with Low Phosphorus Availability*, Chapter 6, Pages 111-134
Citations: 2
DOI: https://doi.org/10.1007/978-3-319-55729-8_6
- Plant-microbe interactions: A molecular approach** 2016
Mustafeez Mujtaba Babar Sumayyah Fareed Khan Muhammad Kazim Zargaham Najam Us Sahar Sadaf Zaidi Alvina Gul
In: *Book on Plant, Soil and Microbes: Volume 2: Mechanisms and Molecular Interactions*, 1st Edition, Chapter 1, Page:1-22
Citations: 6
DOI: 10.1007/978-3-319-29573-2_1
- Genetic and molecular responses of legumes in a changing environment** 2015
Alvina Gul Mustafeez Mujtaba Babar Najam Us Sahar Sadaf Zaidi Mohamed Mahgoub Azooz
In: *Book on Legumes under Environmental Stress: Yield, Improvement and Adaptations*, Chapter 12, Pages 199-214
Citations: 2
DOI: 10.1002/9781118917091.ch12
- Biotechnology approaches to overcome biotic and abiotic stress constraints in legumes** 2015
Mustafeez Mujtaba Babar Najam-us-Sahar Sadaf Zaidi Mohamed Mahgoub Azooz Alvina Gul
In: *Book on Legumes under Environmental Stress: Yield, Improvement and Adaptations*, Chapter 15, Pages 247-264
Citations: 3
DOI: doi:10.1002/9781118917091.ch15
- Plant pharmacogenomics: From drug discovery to personalized ethnomedicine** 2015
Alvina Gul Mustafeez Mujtaba Babar Najam Us Sahar Sadaf Zaidi
In: *Book on PlantOmics: The Omics of Plant Science*, 1st Edition, Chapter 25, Pages 699-730
Citations: N/A
DOI: 10.1007/978-81-322-2172-2_25

Editorial Activities

Edited Journal Issue / Proceeding / Book	2020
Impact Factor: --	
Edited Journal Issue / Proceeding / Book	2019
Impact Factor: --	
Edited Journal Issue / Proceeding / Book	2018
Impact Factor: --	

Intellectual Property

Copyrights

Patents

Red Blood Cell Substitutes: Liposome Encapsulated Hemoglobin and Magnetite Nanoparticle Conjugates as Oxygen Carriers	2021
Status: Filed	
Chimeric Fibrin Specific Streptokinase	2019
Status: Filed	

Industrial Designs

Trademarks