Saadia Zahid

Professor

Atta-Ur-Rahman School of Applied Biosciences

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About

Dr. Saadia Zahid is working as Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Saadia Zahid has a PhD in Neuroscience. Dr. Saadia Zahid has published 42 research articles & conference papers having a citation count of 878, carried out 10 projects and filed 0 intellectual property.

Qualifications

PhD in Neuroscience 2005 - 2012
University of Karachi , Pakistan

MSc in Biochemistry 2001 - 2003
University of Karachi , Pakistan

BSc in Biochemistry 1998 - 2000
University of Karachi , Pakistan

Experience

Professor 2024- Present
Atta-Ur-Rahman School of Applied Biosciences

Professor 2024 - 2024
Atta-Ur-Rahman School of Applied Biosciences

Professor 2022 - 2024
Atta-Ur-Rahman School of Applied Biosciences

Associate Professor 2018 - 2022
Atta-Ur-Rahman School of Applied Biosciences

Assistant Professor 2013 - 2018
Atta-Ur-Rahman School of Applied Biosciences

Assistant Professor 2012 - 2013
Atta-Ur-Rahman School of Applied Biosciences

Visiting Professor 2024 - 2024
Georg August University, Göttingen , Georg August University , Germany

Visiting Scientist 2018 - 2019
The Salk Institute for Biological Studies , CA, USA

Visiting Scholar 2009 - 2010
Georg-August-University, Göttingen , Department of Clinical Chemistry, University Medicine Göttingen, Georg-August-University, Göttingen

Awards

Best Researcher 2019

Awarded Best Researcher Award by ASAB for the year 2017-18.

Fulbright Fellowship 2018

J. WILLIAM FULBRIGHT SCHOLAR AWARD to conduct Postdoctoral Research at The Salk Institute of Biological Sciences, San Diego, California, United States of America, during 2018-2019 academic year.

AOHUPO YOUNG SCIENTIST 2012

AOHUPO YOUNG SCIENTIST TRAVEL AWARD from AOHUPO World Congress, May 5-7, 2012, Beijing, China.

HUPO YOUNG SCIENTIST 2009

HUPO YOUNG SCIENTIST AWARD from HUPO 8th Annual World Congress, September, 25-30, 2009, Toronto, Canada.

AOHUPO/KSMS YOUNG SCIENTI 2007

AOHUPO/KSMS YOUNG SCIENTIST AWARD presented at HUPO 6th Annual World Congress, October 6-10, 2007, Seoul, Korea

Research Projects

National Projects

Brain Awareness Week - Bridging the Gap Between Brain And Community
Funding Agency: IBRO
Amount: PKR 347,787.00
Status: Approved_inprocess

Diversity promotion in neurosciences in Pakistan and South Asian Countries: Moving a step forward 2023
Funding Agency: Internationa Brain Research Organization (IBRO)
Amount: PKR 1,078,928.00
Status: Approved_inprocess

Elucidation Full File of potential effects of anti-diabetics and acetylcholine esterase inhibitors: a comparative analysis for combined therapeutic strategies for type 2 diabetes and Alzheimer's disease. 2017
Funding Agency: HEC
Amount: PKR 2,552,800.00
Status: Completed

Elucidation of the Effects of Amphetamine and Natural Psychstimulant Compounds in Alzheimer's Disease 2015
Funding Agency: HEC
Amount: PKR 5,629,600.00
Status: Completed

Proteomic Identification of Post-translationally Modified and Differentially Expressed Proteins in Aluminum Induced Oxidative Stress Animal Model for Alzhemer's Disease 2013
Funding Agency: HEC
Amount: PKR 500,000.00
Status: Completed

Identification and evaluation of comparative characteristic effects and potential drug targets of Methylphenidate and Rosmarinic acid: A therapeutic approach for Alzheimer's disease 2022
Funding Agency: HEC
Amount: PKR 6,767,000.00
Status: Completed

Analysing the natural anti-HIV mechanisms for their therapeutic implications in vaccine development. 2016
Funding Agency: HEC
Amount: PKR 5,707,000.00
Status: Completed

Elucidation of potential effects of anti-diabetics and acetylcholine esterase inhibitors: a comparative analysis for combined therapeutic strategies for type 2 diabetes and Alzheimer?s disease. 2017
Funding Agency: HEC
Amount: PKR 2,418,257.00
Status: Completed

Evaluation of Therapeutic Potential of Resveratrol in Metals-Induced Neurotoxicity. 2019
Funding Agency: HEC
Amount: PKR 4,440,000.00
Status: Completed

Strengthening of Proteomics Facility at Neurobiology Laboratory for Elucidation of Proteomic Biomarkers for Alzhimer's disease and other neurodegenerative disorders 2018
Funding Agency: HEC
Amount: PKR 2,990,000.00
Status: Completed

International Projects

Research Articles

A critical address to advancements and challenges in computational strategies for structural prediction of protein in recent past 2025
Shumaila Khan Saadia Zahid Nida Fatima Ali
Computational Biology and Chemistry, Volume:117, Article Number 108430

Impact Factor: 2.600 | **Quartile:** 2
DOI: https://doi.org/10.1016/j.compbiolchem.2025.108430

Combined pharmacological and computational approaches unraveling the protective effects of Cassia angustifolia extract against NANO2 - induced neurodegeneration and hepatotoxicity 2025

Muhammad Yaseen Aisha Naveed Muhammad Qasim Hayat Saadia Zahid Junaid Arshad Mubarra Tahir Mashooq Ahmad Bhat Shabina Ishtiaq Ahmed Humaira Ismatullah Qaisar Mansoor

Food Bioscience, Volume 63, Article Number 105645

Impact Factor: 4.800 | **Quartile:** 1
DOI: 10.1016/j.fbio.2024.105645

Rosmarinus officinalis extract ameliorates cognitive deficits and hippocampal neurogenesis in mice model of diabetes mellitus 2024

Tahzeen Fatima Zujaja tul Misbah Sanila Amber Saadia Zahid

Gene Reports, Volume 35, Article Number 101917

Impact Factor: 1.000 | **Quartile:** 4
DOI: https://doi.org/10.1016/j.genrep.2024.101917

CMS121: a novel approach to mitigate aging-related obesity and metabolic dysfunction 2024

Saadia Zahid Alcir L Dafre Jessica Jorge Probst Antonio Currais Jingting Yu David Schubert Pamela Maher

Aging , Volume 16, Issue 6, Pages 4980-4999

Impact Factor: 3.9 | **Quartile:** 2
DOI: 10.18632/aging.205673

An in silico approach to identify potential downstream targets of miR-153 involved in Alzheimer's disease 2024

Sanila Amber Prof. Dr. Saadia Zahid

Frontiers In Genetics, Vol: 15

Impact Factor: 3.7 | **Quartile:** 2 | **Citations:** 2
DOI: 10.3389/fgene.2024.1271404

Sex-specific effects of neuromodulatory drugs on normal and stress-induced social dominance and aggression in rats 2023

Sara Ishaq Saadia Zahid Touqeer Ahmed

Psychopharmacology , Pages 1-14

Impact Factor: 3.4 | **Quartile:** 2 | **Citations:** 4
DOI: 10.1007/s00213-023-06503-7

Ameliorative effects of probiotics in AlCl3-induced mouse model of Alzheimer's disease 2023

Maryam Hamid Saadia Zahid

Applied Microbiology and Biotechnology, Vol:107, Pages:5803-5812

Impact Factor: 5.0 | **Quartile:** 1 | **Citations:** 12
DOI: https://doi.org/10.1007/s00253-023-12686-y

Mass Spectrometry based identification of site-specific proteomic alterations and potential pathways underlying the pathophysiology of schizophrenia 2023

Ayesha Khan Saadia Zahid Beena Hasan Abdul R Asif Nikhat Ahmed

Molecular Biology Reports, Pages 1-13

Impact Factor: 2.742 | **Quartile:** 4
DOI: https://doi.org/10.1007/s11033-023-08431-3

The Geroprotective Drug Candidate CMS121 Alleviates Diabetes, Liver Inflammation, and Renal Damage in db/db Leptin Receptor Deficient Mice 2023

Saadia Zahid Alcir L. Dafre Antonio Currais Jingting Yu David Schubert Pamela Maher

International Journal of Molecular Sciences, Volume 24(7), Article Number 6828

Impact Factor: 6.208 | **Quartile:** 1 | **Citations:** 8
DOI: 10.3390/ijms24076828

Ursolic acid and rosmarinic acid ameliorate alterations in hippocampal neurogenesis and social memory induced by amyloid beta in mouse model of Alzheimer's disease 2022

Fatima Javed Mirza Saadia Zahid

Frontiers in Pharmacology, Volume 13, Article Number 1058358

Impact Factor: 5.988 | **Quartile:** 1 | **Citations:** 12
DOI: 10.3389/fphar.2022.1058358

Multitargeted Molecular Docking and Dynamic Simulation Studies of Bioactive Compounds from Rosmarinus officinalis against Alzheimer's Disease 2022

Fatima Javed Mirza Saadia Zahid Sanila Amber Sumera Hira Jabeen Noreen Asim Syed Adnan Ali Shah

Molecules , Volume 27, Issue 21, Article Number 7241

Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 26

DOI: https://doi.org/10.3390/molecules27217241

Molecular Docking and Molecular Dynamics Studies Reveal Secretory Proteins as Novel Targets of Temozolomide in Glioblastoma Multiforme 2022

Sumera Farha Anwer Maaz Waseem Areeba Fatima Nishat Malik Amjad Ali Saadia Zahid

Molecules , Volume 27, Issue 21, Article Number 7198

Impact Factor: 4.6 | **Quartile:** 2 | **Citations:** 40

DOI: https://doi.org/10.3390/molecules27217198

Rosmarinus officinalis and Methylphenidate Exposure Improves Cognition and Depression and Regulates Anxiety-Like Behavior in AlCl3-Induced Mouse Model of Alzheimer's Disease 2022

Nishat Malik Sanila Amber Saadia Zahid

Frontiers in Pharmacology , Volume 13, Article Number 943163

Impact Factor: 5.988 | **Quartile:** 1 | **Citations:** 8

DOI: https://doi.org/10.3389/fphar.2022.943163

Rosmarinic acid and ursolic acid alleviate deficits in cognition, synaptic regulation and adult hippocampal neurogenesis in an Aβ1-42-induced mouse model of Alzheimer's disease 2021

Fatima Javed Mirza Sanila Amber Sumera Deeba Hassan Saadia Zahid Touqeer Ahmed

Phytomedicine , Volume 83, Article Number 153490

Impact Factor: 6.656 | **Quartile:** 1 | **Citations:** 78

DOI: https://doi.org/10.1016/j.phymed.2021.153490

Effect of oxidative stress and calcium deregulation on FAM26F (CALHM6) expression during hepatitis B virus infection 2021

Kehkshan Jabeen Uzma Malik Sajid Mansoor Shaheen Shahzad Saadia Zahid Aneela Javed

BMC Infectious Diseases , Volume 21, Article Number 228

Impact Factor: 3.669 | **Quartile:** 3 | **Citations:** 10

DOI: https://doi.org/10.1186/s12879-021-05888-0

Amyloid beta induced Neurotoxicity Impairs Cognition and Adult hippocampal Neurogenesis in a Mouse Model for Alzheimer's disease 2020

Touqeer Ahmed Sanila Amber Sumera Fatima Javed Mirza Muhammad Asif Deeba Hassan Saadia Zahid

Current Alzheimer Research , Volume 17 (11), Pages 1033-1042

Impact Factor: 3.047 | **Quartile:** 2 | **Citations:** 10

DOI: 10.2174/1567205017666201224162730

Methylphenidate and Rosmarinus officinalis improves cognition and regulates inflammation and synaptic gene expression in AlCl3-induced neurotoxicity mouse model 2020

Saadia Zahid Anibah Khalid Umme Aimen Abbasi Sanila Amber Sumera Fatima Javed Mirza Muhammad Asif Aneela Javed

Molecular Biology Reports , Volume 47, Pages 7861–7870

Impact Factor: 2.316 | **Quartile:** 4 | **Citations:** 13

DOI: https://doi.org/10.1007/s11033-020-05864-y

The neurogenic effects of rosmarinic acid in a mouse model of type 2 diabetes mellitus 2020

Mahnoor Ali Saadia Zahid

Brazilian Journal of Pharmaceutical Sciences , Volume 56, Article Number e18772, Pages 1-8

Impact Factor: 1.321 | **Quartile:** 4 | **Citations:** 1

DOI: https://doi.org/10.1590/s2175-979020200003180772

Potential Effects of Glibenclamide on Protein Expression in Alcl3-Induced Neurotoxicity: Implications in Neurodegenerative Disorder 2018

Maria Majeed Saadia Zahid

NUST Journal of Natural Sciences , Volume 4, No. 2, Pages 51-63

Impact Factor: 0

DOI: N/A

Data integration for functional annotation of regulatory single nucleotide polymorphisms associated with Alzheimer's disease susceptibility. 2018

Sanila Amber Saadia Zahid

Gene , Volume 672, Pages 115-125

Impact Factor: 2.638 | **Quartile:** 2 | **Citations:** 7

DOI: 10.1016/j.gene.2018.06.011

Neuroprotective effects of Foeniculum vulgare seeds extract on lead-induced neurotoxicity in mice brain. 2018

Syed Adnan Ali Shah Touqeer Ahmed Saadia Zahid Sheharbano Bhatti

Drug and Chemical Toxicology, Volume 41(4), Pages 399-407

Impact Factor: 1.946 | **Quartile:** 3 | **Citations:** 27

DOI: 10.1080/01480545.2018.1459669

Syzygium aromaticum ethanol extract reduces AlCl3-induced neurotoxicity in mice brain through regulation of amyloid precursor protein and oxidative stress gene expression 2018

Sanila Amber Syed Adnan Ali Shah Touqeer Ahmed Saadia Zahid

Asian Pacific Journal of Tropical Medicine, Volume:11, Issue:2, Page 123-130

Impact Factor: 1.772 | **Quartile:** 3 | **Citations:** 6

DOI: 10.4103/1995-7645.225019

Protective effects of Nigella sativa L. seed extract on lead induced neurotoxicity during development and early life in mouse models 2018

Syed Adnan Ali Shah Syed Adnan Ali Shah Touqeer Ahmed Saadia Zahid Umer Javed Butt

Toxicology Research, Volume: 7 Issue: 1 Pages: 32-40

Impact Factor: 1.593 | **Quartile:** 4 | **Citations:** 20

DOI: 10.1039/c7tx00201g

Alterations in adult hippocampal neurogenesis, aberrant protein s-nitrosylation, and associated spatial memory loss in streptozotocin-induced diabetes mellitus type 2 mice 2017

Aneeqa Noor Saadia Zahid

Iranian Journal of Basic Medical Sciences, Volume: 20 Issue: 10 Pages: 1159-1165

Impact Factor: 1.514 | **Quartile:** 4 | **Citations:** 22

DOI: 10.22038/IJBMS.2017.9366

Isolation and identification of flavonoids from anticancer and neuroprotective extracts of Trigonella foenum graecum 2017

Shabina Ishtiaq Ahmed Muhammad Qasim Hayat Saadia Zahid Muhammad Tahir1 Qaisar Mansoor Muhammad Ismail Kristen Keck Robert Bates

Tropical Journal of Pharmaceutical Research, Volume: 16 Issue: 6 Pages: 1391-1398

Impact Factor: 0.444 | **Quartile:** 4 | **Citations:** 17

DOI: 10.4314/tjpr.v16i6.25

Effect of Metformin on Adult Hippocampal Neurogenesis: Comparison with Donepezil and Links to Cognition 2017

Sara Ahmed Zahra Mahmood Shoaib Naiyer Hashmi Inga Zerr Saima Zafar Aneela Javed Saadia Zahid

Journal of Molecular Neuroscience, Volume 62, Issue 1, Pages 88-98

Impact Factor: 2.454 | **Quartile:** 3 | **Citations:** 60

DOI: 10.1007/s12031-017-0915-z

Pharmacological Effects of Turmeric on Learning, Memory and Expression of Muscarinic Receptor Genes (M1, M3 and M5) in Stress-induced Mouse Model 2017

Aliya Khalid Rabia Shakeel Saira Justin Ghazala Iqbal Saadia Zahid Syed Adnan Ali Shah Tauqeer Ahmad

Current Drug Targets , Volume: 18 Issue: 13 Pages: 1545-1557

Impact Factor: 3.112 | **Quartile:** 2 | **Citations:** 4

DOI: https://doi.org/10.2174/1389450118666170315120627

Differential S-nitrosylation of proteins in Alzheimer's disease 2014

Saadia Zahid Rizma Khan Micheal Oellerich Nikhat Ahmed A. R. Asif

Neuroscience , Volume 256, Pages 126-136

Impact Factor: 3.357 | **Quartile:** 2 | **Citations:** 82

DOI: 10.1016/j.neuroscience.2013.10.026

Differential expression of proteins in brain regions of alzheimer's disease patients 2014

Saadia Zahid Michael Oellerich Abdul R Asif Nikhat Ahmed

Neurochemical Research , Volume 39, Pages 208-215

Impact Factor: 2.593 | **Quartile:** 3 | **Citations:** 32

DOI: 10.1007/s11064-013-1210-1

Protein expression profiling of nuclear membrane protein reveals potential biomarker of human hepatocellular carcinoma 2013

Rizma Khan Saadia Zahid Yu-Jui Yvonne Wan Jameson Forster A-Bashar Abdul Karim Atta M Nawabi Abid Azhar M Ataur Rahman Nikhat Ahmed

Clinical Proteomics , Volume 10(1), Article Number 6

Impact Factor: N/A | **Citations:** 18

DOI: 10.1186/1559-0275-10-6

Phosphoproteome profiling of substantia nigra and cortex regions of Alzheimer's disease patients 2012

Saadia Zahid Michael Oellerich Abdul R Asif Nikhat Ahmed

Journal of Neurochemistry, Volume 121, Issue 6, Pages 954-963

Impact Factor: 3.973 | **Quartile:** 2 | **Citations:** 40

DOI: 10.1111/j.1471-4159.2012.07737.x

Conference Proceedings

Computational screening of secretory proteins with brain-specific expression in Glioblastoma multiforme 2022

Sumera Sanila Amber Fatima Javed Mirza Amjad Ali Saadia Zahid

1st International Conference on Engineering and Applied Natural Sciences, res.country(224,)

Citations: N/A

DOI: 10.21203/rs.3.rs-930442/v1

Book Chapters

Clinical Proteomics: Diagnostics and Prognostic Markers of Cancer 2022

Saima Zafar Aniqa Saeed Saadia Zahid

In: *Book on Cancer Biomarkers in Diagnosis and Therapeutics*, 1st Edition, Chapter 4, Pages 83-99

Citations: 1

DOI: https://doi.org/10.1007/978-981-16-5759-7_4

Role of aluminium in Post-Translational Modifications and Neurological Disorders 2021

Saadia Zahid Sanila Amber Fatima Javed Mirza

In: *Book on Biochemical Mechanisms of Aluminium Induced Neurological Disorders*, Chapter 3, Pages 66-80

Citations: N/A

DOI: 10.2174/978168108883912101000 5

Editorial Activities

Applied Microbiology and Biotechnology 2023
Reviewed Papers for Journals
Impact Factor: 5.43

2023
Edited Journal Issue / Proceeding / Book
Impact Factor: 4.08

Frontiers in Neuroscience 2023
Reviewed Papers for Journals
Impact Factor: 4.3

2022
Reviewed Papers for Journals
Impact Factor: 5.13

2022
Reviewed Papers for Journals
Impact Factor: 5.13

2022
Reviewed Papers for Journals
Impact Factor: 6.6

2021
Reviewed Papers for Journals
Impact Factor: 6.6

2021
Reviewed Papers for Journals
Impact Factor: 2.68

2021
Reviewed Papers for Journals
Impact Factor: 3.24

2020
Reviewed Papers for Journals
Impact Factor: 2.971

2020
Reviewed Papers for Journals
Impact Factor: 1.973

2020
Reviewed Papers for Journals
Impact Factor: 1.973

2020
Reviewed Papers for Journals
Impact Factor: 1.973

2020
Reviewed Papers for Journals
Impact Factor: 1.977

2020
Reviewed Papers for Journals
Impact Factor: 3.909

2017
Reviewed Papers for Journals
Impact Factor: 1.449