

Dr. Gowhar Ali

(B.Sc., Pharm.D., Ph.D.(Pk) Postdoc USA)



Curriculum Vitae

Dr.Gowhar Ali					
PERSONAL INFORMATION	Full Name	:	Gowhar Ali		
	Father's Name	:	Akbar Khan		
	Official Address	:	Department of Pharmacy, University of Peshawar, Peshawar, KP, Pakistan		
	Email	:	gowhar_ali@uop.edu.pk & gohar.pharmacist@gmail.com		
	Phone No.	:	+92 091 9216750		
	Fax	:	+92-919218131		
	ACADEMIC RECORD	Exams Passed	Univ/Board	Session	Div.
SSC		BISE Swat	1997	1 st	
F.Sc		BISE Swat	1999	1 st	
B.Sc		University of Peshawar	2002	1 st	
Pharm.D		University of Peshawar	2008	1 st	
Ph.D		University of Peshawar	2014	1 st	
Postdoc		Northwestern University, Chicago Illinois USA	2021		
HONORS / DISTINCTIONS	<ul style="list-style-type: none">• First Class First Position• Double Gold Medallist• Merit certificates at professional levels• Being a topper throughout my academic career				
WORK EXPERIENCE	Designation with Grade	Institution	Period served		Job Description
	Lecturer, BPS=18	University of Peshawar	From	To	Teaching and research
			17-09-2008	26-01-2011	
	Lecturer, BPS=18	Kohat University of Science & technology	26-01-2011	29-02-2012	Teaching and research
	Lecturer, BPS=18	University of Peshawar	29-02-2012	30-10-2015	Teaching and research
Assistant professor, BPS=19	University of Peshawar	30-10-2015	Till date	Teaching and research	
RESEARCH GRANTS AWARDED	<ul style="list-style-type: none">• Awarded by Higher Education Commission, Pakistan, National Research Programme for Universities (NRPU) competitive research grant awards:• Projects by Dr.Ali:• Project # 1				

HEC/NRPU Project number 6671 completed (2017-2020), titled granted by the Higher Education Commission (HEC) of Pakistan. NRPU Project number NRPU. Title: Novel Targeted heterocyclic compound(S) Beta-hydroxy Ketone derivatives- Potential candidates for alzheimer’s Disease.

Amount: 5.8 millions

- **Project # 2**
HEC/NRPU Project number :20-17198/NRPU/R&D/HEC/2021 is in 3rd stage in the area of Neuropharmacology.
Title: Efficacy assessment of topical formulation (10% gel/cream) of small flavonoid derivative (s), gabapentin and ketamine in diabetes induced vulvodynia (VD)- Behavioral and Molecular Approach
Amount: 5.51 millions
- **Project #03:**
- NRPU Project No. 20-15003/NRPU/R&D/HEC/2021
- As CO-PI in the NRPU project entitled as Evaluation of Metformin and Berberine loaded/coated zerovalent Silver and Iron nanomedicines for more effective treatment of Diabetes Mellitus Type-2, In Stage 02.
Amount: 6.1 Millions

Research Supervision (MPhil/PhD)

List of Scholars Completed under the Supervision of Dr. Gowhar Ali

S.No	Degree	Completed	In progress
01	PhD as Supervisor	03	04
02	PhD as Co-Supervisor	03	02
03	M.Phil as Supervisor	12	03
04	M.Phil as Co-Supervisor	04	02

2023-24 -----Two PhD as Supervisor
2023-24-----Three as Co-Supervisor
2023-24 -----Three MPhil

List of PhD Scholars Completed degrees under the Supervision of Dr. Gowhar Ali

- 1. Rahim Ullah (Completed 2021)**
Title: Preclinical evaluation of selected synthetic beta-Hydroxy ketone derivatives for efficacy in Alzheimer’s disease
- 2. Sonia Qureshi (Completed 2023)**

Title: Evaluation of a [2-(5-propyl-6-thioxo-1,3,5-thiadiazane-3-yl)]Acetic and [2-(5-propyl-2-thioxo-1,3,5-thiadiazane-3-yl)]Acetic acid] in pain modalities: behavioral and selected pain mediators correlate

3. Jawad Khan (Completed 2024)

Title: Pharmacological Profiling of selected methanimine derivatives in animal models for pain and inflammation

List of PhD Scholars Completed Degrees under Co-supervision

1. Dawood Shah(Completed 2023)

Title: Phytochemical and Biological Profiling of Acacia Stenophylla

2. Yasmeen Ur Rehman (Completed 2024)

Title: Phytochemical and Biological Evaluation of Stem Bark of Rhamnus Pentapomica

3. Ms. Hurmat Malik (Completed 2024)

Title: Behavioral and Neurochemical Evaluation Sarsasapogenin and Diosgeninin Murine Model of Post Traumatic Stress Disorder

List of Mphil Scholars Completed Degrees under the Supervision of Dr. Gowhar Ali

1. Jawad Khan (Completed 2019)

Title: Studies on the nociceptive, inflammatory, and neuropathic pain relieving potential of cyclohexenone derivative

2. Faiz Ali Khan (Completed 2019)

Title: Preclinical evaluation of selected synthetic flavone derivative in pain syndrome

3. Lala Rukh (Completed 2020)

Title: Preclinical efficacy of salicylidinesalicyl aldehyde in an animal model of chemotherapy-induced peripheral neuropathy

4. Farah Deeba (Completed 2020)

Title:Pharmacological Evaluation of 1-(2-Chlorobenzoyl) -3-(2,3-Dichlorophenyl) Thiourea in ulcerogenicity, inflammation, and pain modality

5. Abdul Rasheed (Completed 2021)

	<p>Title: Evaluation of 7-Hydroxyflavone in nociceptive and neuropathic pain modalities</p> <p>6. Khista Rehman (Completed 2021)</p> <p>Title: Investigation of gastroucerogenic potential of 2,2'-(2-Thioxo-1,3,5-thiadiazinane-3,5-diyl)diacetic acid: in vivo and histopathological approach</p> <p>7. Syed Ilyas Ahmad (Completed 2022)</p> <p>Title: Preclinical evaluation of 2-(hydroxy-(4-nitrophenyl)methyl)cyclopentanone in transgenic mice having Alzheimer's disease</p> <p>8. Qanaat Sayed (Completed 2022)</p> <p>Title: Evaluation of selected synthetic 2-(5-phenyl-6-Thioxo-1,3,5-thiadiazinan-3-yl) acetic acid in ulcerogenicity and pain modalities</p> <p>9. Shagufta (Completed 2022)</p> <p>Title: Evaluation of ameliorative potential of 3,5-Bis(2-Hydroxyethyl)-1,3,5-Thiadiazinane-2-Thione against drug-induced Alzheimer's disease</p> <p>10. Aftab Alam (Completed 2023)</p> <p>Title: Preclinical neuroprotective evaluation of selected natural compound diospyrin against drug-induced Alzheimer's disease</p> <p>11. Izaz Ali (Completed 2023)</p> <p>Title: Evaluation of hepatotoxic and nephrotoxic effects of the selected thiadiazine thione derivative</p> <p>12. Haider Ali (Completed 2024)</p> <p>Title: Pharmacological evaluation of (e)-1-benzoyl-3-((4-(dimethylamino)benzylidene)amino)-2-(4-(dimethylamino)phenyl)-2,3-dihydroquinazoline-4(1h)-one in a preclinical model of drug-induced diabetes mellitus pain models and drug-induced hepatotoxicity.</p> <p>Post-graduate supervision</p> <ul style="list-style-type: none"> • HEC Approved Ph.D. Supervisor <p>Undergraduate supervision</p> <ul style="list-style-type: none"> • Supervision of Clinical Pharmacy Clerkship Reports/Projects of Pharm.D. students (Since 2008-till date, approx.. 10-15 each year).
<p>RESEARCH INTEREST</p>	<p>RESEARCH INTEREST: SAFETY AND EFFICACY STUDY IN PRE-CLINICAL MODELS: My research activities focus on testing compounds from both synthetic and natural origins for the management of neurodegenerative diseases, such as Alzheimer's disease, pain</p>

	<p>management (neuropathic pain /nociceptive/inflammatory pain, ulcerogenicity, depression, anxiety, dependence, tolerance, and vomiting.</p> <p>Facilities:</p> <ul style="list-style-type: none"> • Animal house with the breeding and keeping facilities of rats, mice, pigeons, rabbits and guinea pigs. • Behavioral laboratory equipped with computer assisted video recording facility for experiments on live animals such as analgesia, anti-inflammatory, antipyretic, Anti-Alzheimer, anti-emetic, locomotor, anxiolytic and antidepressant activities. • Toxicological laboratory with the facility of tissue embedding and staining, microtome for tissue slicing, Fluorescence microscope attached with camera and computer for examining of tissue slides. • Applied Pharmacology laboratory with the facilities of; -80 °C fridges, tissue homogenizer for processing tissue, temperature-controlled centrifuge, HPLC with UV and ECD detectors. ESA, Electrochemical Detector is equipped with high sensitivity analytical cell and guard cell for measurement of minute quantities of neurotransmitters and other biomarkers in the biological fluids including the brain areas of interest. • Power lab and Universal organ bath and Oscillograph and chart recorders for isolated tissue experiments. <p>Research profile link: http://www.uop.edu.pk/departments/Teaching-Faculty/?r=1128&q=Dr-Gowhar-Ali</p>
<p>SKILLS</p>	<p>Research Skills (During PhD and Post-Doctorate study in USA):</p> <ol style="list-style-type: none"> 1. Western blot analysis/Immuno blot analysis 2. Immunohistochemistry (Bright-field microscopy and immunofluorescence assay) 3. Enzyme-linked immunosorbent assay (ELISA) 4. Polymerase chain reaction (PCR) 5. Handling of laboratory animals (mice, rats, guinea pig, rabbits etc.) 6. Drug administration techniques (IM, IV, IP, PO) in laboratory animals (mice, rats, guinea pig, rabbits etc. 7. Blood withdrawal techniques from laboratory animals (mice, rats, guinea pig, rabbits etc.) 8. Behavioral techniques for anxiety, memory, depression, Opioid addiction, Opioid tolerance, neuropathic and neuroinflammatory pain. 9. In-Vitro Isolated tissue experiments (Power Lab/OB/KG) <p>A. Basic and advanced pharmacological in-vivo experimental techniques (Rodent models)</p> <ul style="list-style-type: none"> • In-vivo Pain, Inflammation, Pyrexia, Ulcerogenicity, Alzheimer, Anxiety, Vomiting and Toxicity studies. <p>B. Basic pharmacological in-vitro experimental techniques:</p> <ul style="list-style-type: none"> • Rabbit jejunum, ileum studies

- Guinea-pig ileum studies
 - Langendorff's isolated heart experiments:
- C. Computer and statistical: Graph pad prism version 5, End note version 3-10, Smart draw, E-draw, ChemBiodraw, Internet, MS word, Power point.

Publications
 (Citations=1480,
 H-Index=19,i10
 Index=37).
 Link: Google
 Scholar,
 Current Impact
 Factor:150+

Dr Ali currently has **published 71** publications in well-reputed peer-review international journals with a cumulative impact factor of about 100+ with total citations 1480.

Research profile link:

- <http://www.uop.edu.pk/departments/Teaching-Faculty/?r=1128&q=Dr-Gowhar-Ali>
- <https://orcid.org/0000-0002-9749-0645>
- <https://www.researchgate.net/profile/Gowhar-Ali-2/stats>
- https://scholar.google.co.in/citations?hl=en&user=Cikif7AAAAAJ&view_op=list_works&sortby=pubdate
- <https://loop.frontiersin.org/people/334781/overview>
- ISI Web of Knowledge/Web of Science link: <https://www.webofscience.com/wos/author/record/ISS-9183-2023>

	All	Since 2019
Citations	1480	1203
h-index	19	19
i10-index	37	36

Listed below latest on top.

Dr.Gowhar Ali List of Publications (August 2024) = 71

Chicago 16th footnote format:

YEAR WISE ARRANGED

2024 (Total 04)

1. Corresponding author:

Shagufta, **Gowhar Ali**, Adnan Khan, Abdur Rasheed, Farah Deeba, Rahim Ullah, Muhammad Shahid, Haleema Ali, Rasool Khan, Najeebullah Shamezai, and Naveed Sharif. "Evaluation of the Ameliorative Potential of 3, 5-bis (2-hydroxyethyl)-1, 3, 5-thiadiazinane-2-thione against Scopolamine-Induced Alzheimer's Disease." *International Journal of Molecular Sciences* 25, no. 16 (2024): 9104.

Link: <https://doi.org/10.3390/ijms25169104>

Impact factor: 4.9

2. Corresponding author:

Jawad Khan, **Gowhar Ali**, Aamer Saeed, Asma Khurshid, Sajjad Ahmad, Hamdy Kashtoh, Farid S. Ataya, Gaber El-Saber Bathiha, Aman Ullah, and Ajmal Khan. "Efficacy assessment of novel methanimine derivatives in chronic constriction injury-induced neuropathic model: An in-vivo, ex-vivo and In-Silico approach." *European Journal of Pharmaceutical Sciences* 198 (2024): 106797.

Link: <https://doi.org/10.1016/j.ejps.2024.106797>

Impact factor: 4.3

3. First and Corresponding author:

Gowhar Ali, Farrah Deeba, Umer Rashid, Aman Ullah, Hammad Ullah, Inayat Ali Khan, Syed Ishtiaq Khan, Amin Badshah, Muhammad Arif Khan, and Muhammad Ayaz. 2024. In vivo effects of a selected thiourea derivative 1-(2-chlorobenzoyl)-3-(2, 3-dichlorophenyl) against nociception, inflammation and gastric ulcerogenicity: Biochemical, histopathological and in silico approaches. *Biomedicine & Pharmacotherapy* 174:116544

Link: <https://www.sciencedirect.com/science/article/pii/S0753332224004281>

Impact factor: 7.5

4.

Rehman, Yaseen Ur, Arshad Iqbal, **Gowhar Ali**, Ghallab Alotaibi, Alshebli Ahmed, and Muhammad Ayaz. "Phytochemical Analysis, Radical Scavenging and Glioblastoma U87 Cells Toxicity Studies of Stem Bark of Buckthorn (*Rhamnus Pentapomica* R. Parker)." *BMC Complementary Medicine and Therapies* 24, no. 1 (2024): 12.

<https://pubmed.ncbi.nlm.nih.gov/38167318> **Impact factor: 4.13**

2023 Total 07

5. **Ali, Gowhar, NazarUI Islam, Muhammad Qaim, Rahim Ullah, Muhammad Saeed Jan, Khadija Shabbiri, Muhammad Shafique, and Muhammad Ayaz. "2-**

Hydroxybenzohydrazide as a Novel Potential Candidate against Nociception, Inflammation, and Pyrexia: In Vitro, in Vivo, and Computational Approaches." *Inflammopharmacology* (2023). **First author: Gowhar Ali, Impact factor: (IF: 5.8, 2023).**

<https://doi.org/10.1007/s10787-023-01356-0>

6. Alam, Aftab, **Gowhar Ali**, Asif Nawaz, Taghrid S AlOmar, AbdurRauf, Muhammad Ayaz, Sajjad Ahmad, NajlaAlmasoud, Abdulaziz S AlOmar, and Anees Ahmed Khalil. "Neuroprotective Evaluation of Diospyrin against Drug-Induced Alzheimer's Disease." *Fitoterapia* (2023): 105703. <https://doi.org/10.1016/j.fitote.2023.105703>: **Corresponding author: Gowhar Ali, Impact factor: (IF: 3.4, 2023).**
7. Gohar, Aneela, **Gowhar Ali**, Umer Rashid, Khalid Rauf, Mehreen Arif, Muhammad Sona Khan, Yasser MSA Alkahraaman, and Robert DE Sewell. "Effect of Gabapentin-Fluoxetine Derivative Gbp1f in a Murine Model of Depression, Anxiety and Cognition." *Drug Design, Development and Therapy* (2023): <https://www.tandfonline.com/doi/full/10.2147/DDDT.S407229>. **Impact factor: 5.0**
8. Ullah, Qarib, Zarshad Ali, Umer Rashid, **Gowhar Ali**, Nisar Ahmad, Rasool Khan, Sami Ullah, Muhammad Ayaz, and HC Ananda Murthy. "Involvement of the Opioidergic Mechanism in the Analgesic Potential of a Novel Indazolone Derivative: Efficacy in the Management of Pain, Neuropathy, and Inflammation Using in Vivo and in Silico Approaches." *ACS Omega* (2023). <https://doi.org/10.1021/acsomega.3c01717> **Corresponding author: Gowhar Ali, Impact factor: (IF: 4.132, 2023).**
9. Malik, Hurmat, Muhammad Usman, Mehreen Arif, Zainab Ahmed, **Gowhar Ali**, Khalid Rauf, and Robert DE Sewell. "Diosgenin Normalization of Disrupted Behavioral and Central Neurochemical Activity after Single Prolonged Stress." *Frontiers in Pharmacology* 14 (2023). <https://doi.org/10.3389/fphar.2023.1232088> **Impact factor: (IF: 5.988, 2023).**
10. Malik, Hurmat, **Gowhar Ali**, Muhammad Usman, Mehreen Arif, and Zainab Ahmad. "Effect of Sarsasapogenin in Murine Model of Post-Traumatic Stress Disorder, the Possible Role of Adenosine. J." *Xi'an Shiyu Univ. Nat. Sci. Ed* 19, no. 6 (2023): 403-24.
11. Rehman, Yaseen Ur, Arshad Iqbal, **Gowhar Ali**, Ayaz Ali Sher, and Sumaira Tabassum. "Phytochemical Analysis and Evaluation of in Vivo Antidiarrheal Activities of Organic Extracts of Stem Bark of "Buckthorn"

RhamnusPentapomica." Journal of Xi'an Shiyu University, Natural Science Edition (2023)ISSN: 1673-064Xhttp://xisdxjxsu.asia (IF: w, 2023)

2022 (09)

12. Khan, jawad, **Gowhar Ali**, AsmaKhurshid, AamerSaeed, Sajjad Ahmad, NajeebUllah, Ashrafullah Khan, Robert D Sewell, and Muhammad Zakria. "Mechanistic Efficacy Assessment of Selected Novel Methanimine Derivatives against Vincristine Induced Neuropathy: In-Vivo, Ex-Vivo and in-Silico Correlates." *International Immunopharmacology* 112 (2022): 109246. <https://doi.org/10.1016/j.intimp.2022.109246> *Corresponding author: Gowhar Ali, Impact factor: (IF:5.71)*
13. Qureshi, Sonia, **Gowhar Ali**, Tahir Muhammad, Muhammad Idrees, Sultan Ullah, Salman Ali Khan, Rahim Ullah, et al. "Thiadiazine-Thione Derivatives Ameliorate STZ-Induced Diabetic Neuropathy by Regulating Insulin and Neuroinflammatory Signaling." *International Immunopharmacology* 113 (2022): 109421. <https://doi.org/10.1016/j.intimp.2022.109421> *Corresponding author: Gowhar Ali, Impact factor: (IF:5.71)*
14. Khan, Faiz Ali, **Gowhar Ali**, KhistaRahman, Yahya Khan, Muhammad Ayaz, Osama F Mosa, Asif Nawaz, Syed Shams ul Hassan, and SimonaBungau. "Efficacy of 2-Hydroxyflavanone in Rodent Models of Pain and Inflammation: Involvement of Opioidergic and Gabaergic Anti-Nociceptive Mechanisms." *Molecules* 27, no. 17 (2022): 5431. <https://doi.org/10.3390/molecules27175431>. *Corresponding author: Gowhar Ali, Impact factor: (IF:4.927)*
15. Ullah, Rahim, WaseemBadshah, **Gowhar Ali**, AmanUllah, SaleemUllah Khan, Nisar Ahmad, Muhammad Shahid, et al. "Cassia Artemisiodes Attenuates Nociceptive and Diabetes-Induced Neuropathic Pain Modalities Apropos Antioxidant and Anti-Inflammatory Mechanisms." *Biomedicine & Pharmacotherapy* 149 (2022): 112834. <https://doi.org/10.1016/j.biopha.2022.112834>. *Impact factor: (IF:7.419)*
16. Shah, Dawood, ArshadIqbal, Fahad S Alshehri, AmanUllah, **Gowhar Ali**, Tahir Muhammad, Rahim Ullah, Robert DE Sewell, and Yusuf S Althobaiti. "The Neuroprotective Propensity of Organic Extracts of Acacia Stenophylla Bark and Their Effectiveness against Scopolamine-/Diazepam-Induced Amnesia in Mice." *Journal of Inflammation Research* (2022): 4785-802. [DOI: 10.2147/JIR.S376242](https://doi.org/10.2147/JIR.S376242) *Corresponding author: Gowhar Ali, Impact factor: (IF:4.631)*
17. Shal, Bushra, Adnan Khan, Ashraf Ullah Khan, Rahim Ullah, Muhammad Naveed, **Gowhar Ali**, Salman Ul Islam, et al. "Coagulansin-a Improves Spatial Memory in 5xfad Tg Mice by Targeting Nrf-2/Nf-Kb and Bcl-2

Pathway." *International immunopharmacology* 109 (2022): 108860.
<https://doi.org/10.1016/j.intimp.2022.108860> (IF:5.71)

18. Ullah, Rahim, **Gowhar Ali**, Abdul Baseer, SumairaIrum Khan, Muhammad Akram, Saifullah Khan, Nisar Ahmad, et al. "Tannic Acid Inhibits Lipopolysaccharide-Induced Cognitive Impairment in Adult Mice by Targeting Multiple Pathological Features." *International Immunopharmacology* 110 (2022): 108970.
<https://doi.org/10.1016/j.intimp.2022.108970> (IF:5.71)
19. Rahman, Khista, **Gowhar Ali**, Rasool Khan, Imad Khan, Izaz Ali, Osama F Mosa, Alshebli Ahmed, et al. "Analgesic and Anti-Inflammatory Potentials of a Less Ulcerogenic Thiadiazinethione Derivative in Animal Models: Biochemical and Histochemical Correlates." *Drug Design, Development and Therapy* (2022): 1143-57. DOI: [10.2147/DDDT.S354779](https://doi.org/10.2147/DDDT.S354779) Corresponding author: *Gowhar Ali, Impact factor: (IF:4.319)*
20. Ullah, Rahim, **Gowhar Ali**, Abdur Rasheed, Fazal Subhan, Ajmal Khan, Sobia Ahsan Halim, and Ahmed Al-Harrasi. "The 7-Hydroxyflavone Attenuates Chemotherapy-Induced Neuropathic Pain by Targeting Inflammatory Pathway." *International Immunopharmacology* 107 (2022): 108674. <https://doi.org/10.1016/j.intimp.2022.108674> (IF:5.71)

2021(06)

21. Qureshi, Sonia, **Gowhar Ali**, Muhammad Idrees, Tahir Muhammad, Il-Keun Kong, Muzaffar Abbas, Muhammad Ishaq Ali Shah, et al. "Selected Thiadiazine-Thione Derivatives Attenuate Neuroinflammation in Chronic Constriction Injury Induced Neuropathy." *Frontiers in Molecular Neuroscience* (2021): 312. <https://doi.org/10.3389/fnmol.2021.728128>
a. *Corresponding author: Gowhar Ali, Impact factor: (6.261)*
22. Ullah, Rahim, **Gowhar Ali**, Fazal Subhan, Ajmal Khan, Sobia Ahsan Halim, Muhammad Naveed, Saima Kalsoom, and Ahmed Al-Harrasi. "Attenuation of Spatial Memory in 5xfad Mice by Targeting Cholinesterases, Oxidative Stress and Inflammatory Signaling Using 2-(Hydroxyl-(2-Nitrophenyl) Methyl) Cyclopentanone." *International Immunopharmacology* 100 (2021): 108083. <https://doi.org/10.1016/j.intimp.2021.108083>
a. *Corresponding author: Gowhar Ali, Impact factor: (IF:5.71)*
23. Ullah, Rahim, **Gowhar Ali**, Ajmal Khan, Sajjad Ahmad, and Ahmed Al-Harrasi. "Cyclopentanone Derivative Attenuates Memory Impairment by Inhibiting Amyloid Plaques Formation in the 5xfad Mice." *International Journal of Molecular Sciences* 22, no. 17 (2021): 9559. <https://doi.org/10.3390/ijms22179559> *Corresponding author: Gowhar Ali, Impact factor:*
24. Khan, Jawad, **Gowhar Ali**, Umer Rashid, Rasool Khan, Muhammad Saeed Jan, Rahim Ullah, Sajjad Ahmad, et al. "Mechanistic Evaluation of a Novel

Cyclohexenone Derivative's Functionality against Nociception and Inflammation: An in-Vitro, in-Vivo and in-Silico Approach." *European Journal of Pharmacology* 902 (2021): 174091. <https://doi.org/10.1016/j.ejphar.2021.174091> Corresponding author: Gowhar Ali, Impact factor: **IF: 4.4**

25. Ullah, Rahim, **Gowhar Ali**, FazalSubhan, Muhammad Naveed, Ajmal Khan, Jawad Khan, SobiaAhsanHalim, Nisar Ahmad, and Ahmed Al-Harrasi. "Attenuation of Nociceptive and Paclitaxel-Induced Neuropathic Pain by Targeting Inflammatory, CGRP and Substance P Signaling Using 3-Hydroxyflavone." *Neurochemistry International* 144 (2021): 104981. <https://doi.org/10.1016/j.neuint.2021.104981> Impact factor: **IF: 3.9**
26. Shal, Bushra, Adnan Khan, Ashraf Ullah Khan, Rahim Ullah, **Gowhar Ali**, Salman Ul Islam, IhsanUlHaq, et al. "Alleviation of Memory Deficit by Bergenin Via the Regulation of Reelin and Nrf-2/Nf-Kb Pathway in Transgenic Mouse Model." *International journal of molecular sciences* 22, no. 12 (2021): 6603. <https://doi.org/10.3390/ijms22126603> Impact factor: **IF: 5.9**

2020 (05)

27. Rukh, Lala, **Gowhar Ali**, Rahim Ullah, NazarUl Islam, and Muhammad Shahid. "Efficacy Assessment of SalicylideneSalicylhydrazide in Chemotherapy Associated Peripheral Neuropathy." *European Journal of Pharmacology* 888 (2020): 173481. <https://doi.org/10.1016/j.ejphar.2020.173481> Corresponding author: Gowhar Ali, Impact factor: **IF: 3.544**
28. Ullah, Rahim, **Gowhar Ali**, Nisar Ahmad, Muhammad Akram, GeetaKumari, Muhammad Usman Amin, and Muhammad Naveed Umar. "Attenuation of Spatial Memory in 5xfad Mice by Halting Cholinesterases, Oxidative Stress and Neuroinflammation Using a Cyclopentanone Derivative." *Pharmaceuticals* 13, no. 10 (2020): 318. <https://doi.org/10.3390/ph13100318> Corresponding author: Gowhar Ali, Impact factor: **IF: 4.544**
29. Ahmad, Syed Ilyas, **Gowhar Ali**, Tahir Muhammad, Rahim Ullah, Muhammad Naveed Umar, and Aisha NasirHashmi. "Synthetic B-Hydroxy Ketone Derivative Inhibits Cholinesterases, Rescues Oxidative Stress and Ameliorates Cognitive Deficits in 5xfad Mice Model of Ad." *Molecular Biology Reports* 47 (2020): 9553-66. <https://doi.org/10.1007/s11033-020-05997-0> Impact factor: **IF: 2.544**
30. Nazir, Shabnam, Kashif Adnan, RukhsanaGul, **Gowhar Ali**, ShamimSaleha, and Amjad Khan. "The Effect of Gender and Abcb1 Gene Polymorphism on the Pharmacokinetics of Azithromycin in Healthy Male and Female Pakistani Subjects." *Canadian Journal of Physiology and Pharmacology* 98, no. 8 (2020): 506-10. <https://doi.org/10.1139/cjpp-2019-0569> **IF: 2.544**

31. Munir, Abida, AdilKhushal, KiranSaeed, Abdul Sadiq, Rahim Ullah, **Gowhar Ali**, Zaman Ashraf, et al. "Synthesis, in-Vitro, in-Vivo Anti-Inflammatory Activities and Molecular Docking Studies of Acyl and Salicylic Acid Hydrazide Derivatives." *Bioorganic chemistry* 104 (2020): 104168. <https://doi.org/10.1016/j.bioorg.2020.104168>. *Impact factor:5.307*

2019 (05)

32. Khan, Jawad, **Gowhar Ali**, Rasool Khan, Rahim Ullah, and SalimUllah. "Attenuation of Vincristine-Induced Neuropathy by Synthetic Cyclohexenone-Functionalized Derivative in Mice Model." *Neurological Sciences* 40 (2019): 1799-811. <https://doi.org/10.1007/s10072-019-03884-6> *Corresponding author: Gowhar Ali, Impact factor: (IF: 2.285)*
33. Shah, Rehmat, FazalSubhan, Syed Muhammad Sultan, and **Gowhar Ali**. "Short-Term Oral Administration of Risperidone Induces Pancreatic Damage and Hyperamylasemia in Sprague-Dawley Rats." *Brazilian Journal of Pharmaceutical Sciences* 54 (2019). <https://doi.org/10.1590/s2175-97902018000417841> *(IF: w, 2019)*
34. Shah, Rehmat, FazalSubhan, Syed Muhammad Sultan, MatiulHaq, Hussain Ahmad, QasimRiaz Khan, **Gowhar Ali**, Sami Ullah, and IhsanUllah. "Metabolic Dysregulation in Early Onset Psychiatric Disorder before and after Exposure to Antipsychotic Drugs." *Brazilian Journal of Pharmaceutical Sciences* 55 (2019). <https://doi.org/10.1590/s2175-97902019000117825> *(IF: w, 2019)*
35. Khuda, Fazli, Muhammad Ovais, Ayub Khan, **Gowhar Ali**, Sami Ullah, Waheed Ali Shah, and Nizamuddin Abdul Qadar. "Drug-Food Interactions of Commonly Available Juices of Pakistan." *Pakistan Journal of Pharmaceutical Sciences* 32, no. 5 (2019). *(IF: w, 2019)*
36. Khan, H, AA Shad, I Khan, A Aziz, **G Ali**, SM Hizbullah, and I Jan. "In Vivo and in Vitro Pharmacological Evaluation of GymnosporiaRoyleana." *West Indian Medical Journal* 68, no. 2 (2019). *Corresponding author: Gowhar Ali, Impact factor: (IF: w, 2019)*

2018 (03)

37. Fawad, Khwaja, NazarUl Islam, FazalSubhan, Muhammad Shahid, **Gowhar Ali**, Faiz-Ur Rahman, WajahatMahmood, and Nisar Ahmad. "Novel Hydroquinone Derivatives Alleviate Algesia, Inflammation and Pyrexia in the

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<p>Books Chapters Published</p>	<p>01. Khan, Fazlullah, Gowhar Ali,AamirNaveed, Muhammad Ajmal Shah, UzmaSaleem, and WaqarAman. "Phytonutrients Standardization for Effective Therapeutic Outcomes." In <i>Phytonutrients and Neurological Disorders</i>, 19-31: Elsevier, 2023. https://doi.org/10.1016/B978-0-12-824467-8.00010-3</p>

	02. Shahid, Muhammad, FazalSubhan, NazarUl Islam, IhsanUllah, JavaidAlam, Nisar Ahmad, and Gowhar Ali . "Phytochemical, Pharmacological and Therapeutic Profile of BacopaMonnieri: A Prospective Complementary Medicine." In Natural Medicines, 451-80: CRC Press, 2019.		
Editorial Board Membership	<p>01. Journal Name: Journal of Bashir Institute of Health Sciences HEC HJRS : Y category Link: https://hjrs.hec.gov.pk/index.php?r=site%2Fresult&id=1089125#journal_result</p> <p>ISSN: 1236-5678,1236-5678 (Online), 2789-1143 (Print)</p> <p>Membership link: https://journal.bashir.edu.pk/index.php/jbihs/about/editorialTeam</p> <p>02. Journal Name: Austin Neurology & Neurosciences</p> <p>Membership link: https://austinpublishinggroup.com/neurology-neurosciences/editorialBoard.php</p>		
Administrative	Assistant Warden Hostel No.2.	The University of Peshawar,	24.01.2009 to 25.11.2010.
	Resistant Warden Hostel No.2.	The University of Peshawar,	26.11.2010 to 31.01.2011.
	Resistant Warden Hostel No.2.	The University of Peshawar,	18-08-2017—31-03-208
	Senior Warden, Hostel No.9, 1, D-block	University of Peshawar	01-04-2018—Till date
Memberships	<ul style="list-style-type: none"> • Member of Board of Studies (BOS), Department of Pharmacy, UoP. • Registered Pharmacist (RPh) with Pharmacy Council of Khyber Pakhtunkhwa, Pakistan, Registration No. 1215-A/2007-PC, NWFP. • Member of Pakistan Pharmacist Association (PPA) 		
Service Activity	<ul style="list-style-type: none"> • Teaching the subject "Pharmacology and Therapeutics-I" to the students of second Prof. Pharm.D. • Teaching the subject "Anatomy" to the students of 1st Prof. Pharm.D. • Taught the subject "Pharmacology and Therapeutics-II" to the students of second Prof. Pharm.D. • Taught the subject "Physiology" to the students of 1st Prof. Pharm.D. • Taught the subject "Drug Law" to the students of Final Prof. Pharm.D. 		

	<ul style="list-style-type: none"> • Taught the subject “Dispensing and community” to the students of 3rd Prof. Pharm.D. • Teaching the subject “Clinical Pharmacy-II” to the students of Final Prof. Pharm.D. • Teaching to MPhil/Ph.D. scholars • Designing MPhil/Ph.D. courses.
	<ul style="list-style-type: none"> •
<p>Conferences/workshops/seminars attended/presented</p>	<p>PhD supervisors Capacity Building Program (2023)</p> <p>Participated in person in the National Academy of Higher Education (NAHE)-HEC- Ph.D. Supervisors Capacity Building Program 2023.</p> <p>Cohort 01:</p> <p>June 12th to 16th, 2023</p> <p>Training Venue: Marriott, Islamabad</p> <p>Cohort 02:</p> <p>Training Dates: 7th – 11th August 2023</p> <p>Training Venue: Marriott, Islamabad</p> <ul style="list-style-type: none"> • As a presenter of the seminar on “Last Days of Diabetes” in UOP, on World Health Day, 7th April 2016. • Workshop: Pharmacy Curriculum Review Workshop, dated August 4 & 5, 2009, organized by the Department of Pharmacy, University of Peshawar, at Baragali Summer Campus, University of Peshawar. • National Pharmacy Conference: Pharmacy as a profession: Challenges and opportunities in the new scenario, dated August 21-23, 2015, organized by the Department of Pharmacy, University of Peshawar, at Baragali Summer Campus, University of Peshawar • Workshop: Intellectual property rights, dated August 4 june, , 2015, organized by the ORIC Peshawar & PASTIC/IPO. • Contest:Thalassaemia Awareness Contest, dated june 25,26, 2009, organized by Novartis Pharma (pvt) Ltd, in Lahore
<p>Social activities</p>	<ul style="list-style-type: none"> • Remained active member of the blood donor society for five years regularly during Phrm.D. • Organized and participated in social work at the college and university level.

<p>Research Collaborations</p>	<p>International</p> <ol style="list-style-type: none"> 1. Professor Robert Sewell, Director Post graduate studies (clinical Research), Cardiff University UK. Email: sewell@cardiff.ac.uk 2. Professor TeepSiddique, Northwestern University, Department of Neurology, FSOM, Chicago, Illinois, USA. te-siddique@northwestern.edu 3. Professor ShafiqurRahman, Professor of Pharmacology, Department of Pharmaceutical Sciences, South Dakota State University, USA. Email: Shafique.Rahman@sdstate.edu <p>2. Dr.DenizBagdas Uludag University, Faculty of medicinresearch center, Turkey Email: dbagdas@gmail.com</p> <p>National</p> <ol style="list-style-type: none"> 1. Dr. Muzaffar Abbas (PhD SDSU, USA)Dean Faculty of Pharmacy,Capital University of Science & Technology, Islamabad Expressway,Kahuta Road, Zone-V Islamabad. Ph.D. Pharmacology (USA) Phone: +92-51- Email: muzaffar.abbas@cust.edu.pk 2. Professor Dr. NazarUI Islam Department of Pharmacy Sarhad University of Science & Information TechnologyRing road campus, Peshawar, Khyber Pakhtunkhwa, PakistanPhone Number: 091-9239305, Email: islanaz@yahoo.com nazar.flis@suit.edu.pk 3. Dr. Muhammad Ayaz: Department of Pharmacy, University of malakand, Chakdara Email: ayazuop@gmail.com 4. Dr.Rasool Khan Department of Chemistry, University of Peshawar/ Dr .NaveedUmerMalakand, Khyber Puhktunkhwa, Pakistan. 5. Dr .Muhammad khysoon Department of Zoology, University of Peshawar, Khyber Puhktunkhwa, Pakistan.
<p>Project completed at Doctoral level</p>	<p>The research project currently, completed entitled “PRECLINICAL EVALUATION OF SELECTED SYNTHETIC BIOISOSTERIC NITROGEN CONTAINING SALICYL ALCOHOL DERIVATIVES IN INFLAMMATION, PYREXIA, ULCEROGENICITY AND PAIN MODALITIES” is of great significance in the area of new drug development (NDD) because this study has enabled us to predict the SAN derivatives as a new class of anti-nociceptive, anti-inflammatory and antipyretic drugs free from the common side effects of classical NSAID (aspirin).</p>
<p>NRPU</p>	<ul style="list-style-type: none"> • Projects by Dr.Ali: • Project # 1

<p>PROJECTS Completed/ in Progress</p>	<p>HEC/NRPU Project number 6671 completed (2017-2020), titled granted by the Higher Education Commission (HEC) of Pakistan. NRPU Project number NRPU. Title: Novel Targeted heterocyclic compound(S) Beta-hydroxy Ketone derivatives- Potential candidates for alzheimer’s Disease.</p> <p>Amount: 5.8 millions</p> <ul style="list-style-type: none"> • Project # 2 HEC/NRPU Project number :20-17198/NRPU/R&D/HEC/2021 is in final stage in the area of Neuropharmacology. Title: Efficacy assessment of topical formulation (10% gel/cream) of small flavonoid derivative (s), gabapentin and ketamine in diabetes induced vulvodynia (VD)- Behavioral and Molecular Approach <p>Amount: 5.51 millions</p> <ul style="list-style-type: none"> • Project #03: • NRPU Project No. 20-15003/NRPU/R&D/HEC/2021 • As CO-PI in the NRPU project entitled as Evaluation of Metformin and Berberine loaded/coated zerovalent Silver and Iron nanomedicines for more effective treatment of Diabetes Mellitus Type-2, In Stage 02. <p>Amount: 6.1 Millions</p>
<p>References:</p>	<ul style="list-style-type: none"> ▶ Prof. Dr. Fazal Subhan, Department of Pharmacy, University of Peshawar. Contact # 091-9216750 Email: fazal_subhan@upesh.edu.pk ▶ Prof. Dr. Jamshaid Ali Khan, Department of Pharmacy, University of Peshawar. Contact # 091-9216750 Email: jamshaidkhan@uop.edu.pk ▶ Prof. Dr. Robert DE Sewell, Cardiff School of Pharmacy and Pharmaceutical Sciences, Cardiff University, Redwood Building, King Edward VII Ave., Cardiff, CF10 3NB, UK, Email: sewell@cardiff.ac.uk ▶ Prof. Dr. Muhammad Saeed, Department of Pharmacy, University of Peshawar. Contact # 091-9216750 Email: saeedrph@uop.edu.pk ▶ Professor Dr. Teepu Siddique Professor of Pharmacology (Neurology) Northwestern University, Feinberg School of Medicine, U.S.A. Les Turner ALS Foundation/Herbert C. Wenske Foundation Professor/Director, Division of Neuromuscular Medicine Davee Department of Neurology & Department of Cell and Molecular Biology, Division of Neuromuscular Medicine. Tarry Building 13-715303 East Chicago Avenue Chicago, Illinois, 60611-3008 Official email: te-siddique@northwestern.edu ▶ Prof. Dr. Zafar Iqbal, Department of Pharmacy, University of Peshawar. Contact # 091-9216750. Email: zafar_iqbal@upesh.edu.pk ▶ Prof. Dr. Nazrul Islam, Professor, Department of Chemistry, University of Peshawar. Contact # 0919239305 Email: islanaz@yahoo.com

	<ul style="list-style-type: none">▶ Professor Dr. Thomas John Lukas, (PhD), The Ken and Ruth Davee Department of Neurology, Department of Neurology and Clinical Neurosciences, Feinberg School of Medicine, Northwestern University, Chicago, IL, United States▶ Dr. Jianhua Yan (MD and a PhD), Research Associate, Laboratory of Neurogenomics and Novel Therapies, Department of Neurology and Clinical Neurosciences, Feinberg School of Medicine, Northwestern University, Chicago, IL, United States▶ Dr. Felix L. Nuñez Santana, Ph.D. Postdoctoral Fellow, Edward Alexander Bouchet Graduate Honor Society Yale University▶ Dr. Sameer Ahmad, Ph.D, Postdoctoral Scientist at Ann & Robert H. Lurie Children's Hospital of Chicago, Northwestern University
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