

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 gowhar_ali@uop.edu.pk & gohar.pharmacist@gmail.com		
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	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	18-02-2014	1 st	
	Postdoc	Northwestern University, Chicago Illonois USA	2021-22		
HONORS / DISTINCTIONS	• 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	• 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 –completed 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-Final Stage • 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 (PhD+M.Phil) Completed under the Supervision of Dr. Gowhar Ali (06 PhD)+ 12 Mphil <table><tr><th>S.No</th><th>Degree</th><th>Completed</th><th>In progress</th></tr><tr><td>01</td><td>PhD as Supervisor</td><td>03</td><td>04</td></tr><tr><td>02</td><td>PhD as Co-Supervisor</td><td>03</td><td>02</td></tr><tr><td>03</td><td>M.Phil as Supervisor</td><td>12</td><td>03</td></tr><tr><td>04</td><td>M.Phil as Co-Supervisor</td><td>04</td><td>02</td></tr></table> 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)	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
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																		

	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) Title: Evaluation of 7-Hydroxyflavone in nociceptive and neuropathic pain modalities 6. Khista Rehman (Completed 2021) Title: Investigation of gastroulcerogenic potential of 2,2'-(2-Thioxo-1,3,5-thiadiazinane-3,5-diyl)diacetic acid: in vivo and histopathological approach 7. Syed Ilyas Ahmad (Completed 2022) Title: Preclinical evaluation of 2-(hydroxy-(4-nitrophenyl)methyl) cyclopentanone in transgenic mice having Alzheimer's disease 8. Qanaat Sayed (Completed 2022) Title: Evaluation of selected synthetic 2-(5-phenyl-6-Thioxo-1,3,5-thiadiazinan-3-yl) acetic acid in ulcerogenicity and pain modalities 9. Shagufta (Completed 2022) Title: Evaluation of ameliorative potential of 3,5-Bis(2-Hydroxyethyl)-1,3,5-Thiadiazinane-2-Thione against drug-induced Alzheimer's disease 10. Aftab Alam (Completed 2023) Title: Preclinical neuroprotective evaluation of selected natural compound diospyrin against drug-induced Alzheimer's disease 11. Izaz Ali (Completed 2023) Title: Evaluation of hepatotoxic and nephrotoxic effects of the selected thiadiazine thione derivative 12. Haider Ali (Completed 2024) 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. 13. Farhan khan (pharmacological evaluation of anthranilic acid Derivative in streptozotocin induced diabetes Mellitus pain models 2025) 14. Ms Fatima Ayyaz (Completed 2026)
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	Efficacy of topical formulation of Hydroxyflavanone, gabapentin and ketamine In diabetes induced vulvodynia and allodynia 15. Mr Jibran qayyum (completed 2026) Preclinical Efficacy Assessment Of 3-Hydroxyflavone, Gabapentin And Ketamine Topical Formulation In Diabetes-Induced NEUROPATHIC PAIN Post-graduate supervision • HEC Approved Ph.D. Supervisor Undergraduate supervision • Supervision of Clinical Pharmacy Clerkship Reports/Projects of Pharm.D. students (Since 2008-till date, approx.. 10-15 each year). •
RESEARCH INTEREST	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 management (neuropathic pain /nociceptive/inflammatory pain, ulcerogenicity, depression, anxiety, dependence, tolerance, and vomiting. Facilities: • 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. Research profile link: http://www.uop.edu.pk/departments/Teaching-Faculty/?r=1128&q=Dr-Gowhar-Ali

SKILLS	Research Skills (During PhD and Post-Doctorate study in USA): - Western blot analysis/Immuno blot analysis - Immunohistochemistry (Bright-field microscopy and immunofluorescence assay) - Enzyme-linked immunosorbent assay (ELISA) - Polymerase chain reaction (PCR) - Handling of laboratory animals (mice, rats, guinea pig, rabbits etc.) - Drug administration techniques (IM, IV, IP, PO) in laboratory animals (mice, rats, guinea pig, rabbits etc.) - Blood withdrawal techniques from laboratory animals (mice, rats, guinea pig, rabbits etc.) - Behavioral techniques for anxiety, memory, depression, Opioid addiction, Opioid tolerance, neuropathic and neuroinflammatory pain. - In-Vitro Isolated tissue experiments (Power Lab/OB/KG) A. Basic and advanced pharmacological in-vivo experimental techniques (Rodent models) - In-vivo Pain, Inflammation, Pyrexia, Ulcerogenicity, Alzheimer, Anxiety, Vomiting and Toxicity studies. B. Basic pharmacological in-vitro experimental techniques: - 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.		
<u>Publications</u> (Citations=1480, H-Index=19,i10 Index=37). Link: Google Scholar, Current Impact Factor:150+	Dr Ali currently has published 76 publications in well-reputed peer-review international journals with a cumulative impact factor of about 100+ with total citations 1931. <table border="1"> <tr> <td data-bbox="495 1266 576 1528"> Cumulative Impact Factor </td><td data-bbox="576 1266 1583 1871"> Cumulative Impact Factor:150+ Number of publications in peer reviewed journals-Total=76 Research profile link: Google Scholar: https://scholar.google.com/citations?user=3hGiePoAAAAJ&hl=en ISI Web of Knowledge/Web of Science link: https://www.webofscience.com/wos/author/record/ISS-9183-2023 </td></tr> </table>	Cumulative Impact Factor	Cumulative Impact Factor:150+ Number of publications in peer reviewed journals- Total=76 Research profile link: Google Scholar: https://scholar.google.com/citations?user=3hGiePoAAAAJ&hl=en ISI Web of Knowledge/Web of Science link: https://www.webofscience.com/wos/author/record/ISS-9183-2023
Cumulative Impact Factor	Cumulative Impact Factor:150+ Number of publications in peer reviewed journals- Total=76 Research profile link: Google Scholar: https://scholar.google.com/citations?user=3hGiePoAAAAJ&hl=en ISI Web of Knowledge/Web of Science link: https://www.webofscience.com/wos/author/record/ISS-9183-2023		

		UOP: • http://www.uop.edu.pk/departments/Teaching-Faculty/?r=1128&q=Dr-Gowhar-Ali <u>ORCID:</u> • https://orcid.org/0000-0002-9749-0645 <u>Research Gate:</u> • https://www.researchgate.net/profile/Gowhar-Ali-2/stats <u>Loop:</u> https://loop.frontiersin.org/people/334781/overview •
	Citations (of publications in Impact Factor or Journals) (Attach ISI Web of Knowledge graph and Google	Google Scholar : Citations=1931 • https://scholar.google.co.in/citations?hl=en&user=Cikif7AAAAAJ&view_op=list_works&sortby=pubdate ISI Web of Knowledge: Citations=1052 • https://www.webofscience.com/wos/author/record/ISS-9183-2023

	Scholar)	
	H-Index: (Attach ISI Web of Knowledge graph and Google Scholar)	Google Scholar : H-Index=22 https://scholar.google.co.in/citations?hl=en&user=Cikif7AAAAAJ&view_op=list_works&sortby=pubdate ISI Web of Knowledge: H-Index=17 https://www.webofscience.com/wos/author/record/ISS-9183-2023

Cited byVIEW ALL

	All	Since 2021
Citations	1931	1361
h-index	23	19
i10-index	45	40

Year	Citations
2019	125
2020	125
2021	225
2022	300
2023	225
2024	275
2025	225
2026	125

15th June 2026 Data.

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Listed below latest on top.

DR.GOWHAR ALI--- LIST OF PUBLICATIONS ---(Total) = 76-----CHICAGO 16TH

FOOTNOTE FORMAT

YEAR WISE ARRANGED

2026 (Total= 03)

1. Qayyum, Jibran, Gowhar Ali, Elham Saleh Albalawi, Mushtaq Ahmad Mir, Nasreena Bashir, Pordil Khan, Fatima Ayyaz, and Muhammad Ayaz. "Evaluation of 3-Hydroxyflavone, Gabapentin, and Ketamine Based Anti-Neuropathic Gel: Preclinical Anti-Nociceptive, Vulvar Tissue-Regenerative Studies." *Journal of Pharmaceutical Innovation* 21, no. 3 (2026): 289.

Impact Factor 3.0-

Link: <https://link.springer.com/article/10.1007/s12247-026-10544-8>

2. Aman, Urooj, Gowhar Ali, Atteeque Ahmed, Aamer Saeed, Mushtaq Ahmad Mir, Nasreena Bashir, Asma Khurshid, and Muhammad Ayaz. "Opioidergic and GABAergic mechanisms underlie the anti-nociceptive effects of adamantane amino thiazole derivatives: synthesis, toxicity evaluation and mechanistic insights using standard pre-clinical models." *Inflammopharmacology* (2026): 1-18.

Impact Factor 5.2

Link: <https://link.springer.com/article/10.1007/s10787-026-02213-6>

3. Ahmad, Mushtaq, Ihsan Ullah, Gowhar Ali, Mushtaq Ahmad Mir, Nasreena Bashir, Saeed Anwar, Syed Uzair Ali Shah, Nisar Ahmad, and Muhammad Ayaz. "Gabapentsal ameliorate cisplatin-induced vomiting in pigeons: neurochemical evidences and the involvement of serotonin and dopamine modulation." *Scientific Reports* (2026).

Impact Factor: Impact Factor of 3.9 and a 5-year Impact Factor of 4.3. Published by Springer Nature as part of the Nature Portfolio

Link: <https://www.nature.com/articles/s41598-026-54093-z>

2025 (Total= 02)

4. **First & Corresponding author:**

Ali, Gowhar, Fatima Ayaz, Pordil Khan, Mushtaq Ahmad Mir, Jibran Qayyum, Nasreena Bashir, and Muhammad Ayaz. "Multimodal topical gel combining 2-hydroxyflavanone, gabapentin, and ketamine alleviates diabetic vulvodynia and allodynia with concurrent tissue regeneration in streptozocin-induced rat models." *Biomaterials Advances* (2025) : 214509. **Impact Factor 6.0-**

Link: <https://doi.org/10.1016/j.bioadv.2025.214509>

5. **Corresponding author:**

Abdur Rasheed, Gowhar Ali, Md. Rezaul Islam, Abdur Rauf, Rahaf Ajaj, Hassan A. Hemeg, Marcello Iriti.

[Mechanistic Insights into the Pharmacological Actions of Flavonoids: A Comprehensive Review](#)--**Impact Factor 1.6.**

2024(04)

6. **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

7. 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

8. 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

9.

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*

2023 Total 07)

10. **Ali, Gowhar**, NazarUl 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>

11. 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).**

12. Gohar, Aneela, **Gowhar Ali**, Umer Rashid, Khalid Rauf, MehreenArif, Muhammad Sona Khan, Yasser MSA Alkahramaan, 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**

13. 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).**

14. Malik, Hurmat, Muhammad Usman, MehreenArif, 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).

15. 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.
16. 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" *Rhamnus Pentapomica*." *Journal of Xi'an Shiyu University, Natural Science Edition* (2023) ISSN: 1673-064X <http://xisdxjxsu.asia> (IF: w, 2023)

2022 (09)

17. Khan, jawad, **Gowhar Ali**, Asma Khurshid, Aamer Saeed, Sajjad Ahmad, Najeeb Ullah, 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)
18. 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)
19. Khan, Faiz Ali, **Gowhar Ali**, Khista Rahman, Yahya Khan, Muhammad Ayaz, Osama F Mosa, Asif Nawaz, Syed Shams ul Hassan, and Simona Bungau. "Efficacy of 2-Hydroxyflavanone in Rodent Models of Pain and Inflammation: Involvement of Opioidergic and GABAergic Antinociceptive Mechanisms." *Molecules* 27, no. 17 (2022): 5431. <https://doi.org/10.3390/molecules27175431>. Corresponding author: **Gowhar Ali**, Impact factor: (IF: 4.927)
20. Ullah, Rahim, Waseem Badshah, **Gowhar Ali**, Aman Ullah, Saleem Ullah Khan, Nisar Ahmad, Muhammad Shahid, et al. "Cassia Artemisiodes Attenuates Nociceptive and Diabetes-Induced Neuropathic Pain Modalities Apropos Antioxidant and Anti-Inflammatory Mechanisms." *Biomedicine*

21. 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** **Corresponding author: Gowhar Ali, Impact factor: (IF:4.631)**
22. 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)**
23. 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)**
24. 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 UlcerogenicThiadiazinethione 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)**
25. Ullah, Rahim, **Gowhar Ali**, AbdurRasheed, FazalSubhan, Ajmal Khan, SobiaAhsanHalim, 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)

26. 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)

27. 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)**
28. 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:**
29. 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)**
30. Ullah, Rahim, **Gowhar Ali**, Fazal Subhan, Muhammad Naveed, Ajmal Khan, Jawad Khan, Sobia Ahsan Halim, 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)**
31. Shal, Bushra, Adnan Khan, Ashraf Ullah Khan, Rahim Ullah, **Gowhar Ali**, Salman Ul Islam, Ihsan Ul Haq, 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)

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Books Chapters Published	01. Khan, Fazlullah, Gowhar Ali, Aamir Naveed, Muhammad Ajmal Shah, UzmaSaleem, and WaqarAman. "Phytonutrients Standardization for Effective Therapeutic Outcomes." In Phytonutrients and Neurological Disorders, 19-31: Elsevier, 2023. https://doi.org/10.1016/B978-0-12-824467-8.00010-3 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	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 ISSN: 1236-5678,1236-5678 (Online), 2789-1143 (Print) Membership link: https://journal.bashir.edu.pk/index.php/jbihs/about/editorialTeam 02. Journal Name: Austin Neurology & Neurosciences Membership link: https://austinpublishinggroup.com/neurology-neurosciences/editorialBoard.php

Administrative	Assistant Warden Hostel No.2.	The University of Peshawar,	24.01.2009 to 25.11.2010.
	Resistant Warden Hostel No.2. Resistant Warden Hostel No.2. Senior Warden, Hostel No.9, 1, D-block	The University of Peshawar, The University of Peshawar, University of Peshawar	26.11.2010 to 31.01.2011. 18-08-2017—31-03-208 01-04-2018—Till date
	Focal person: establish IHS in UOP and Now Nursing Colege	University of Peshawar	01 10/2014—till date
Memberships	• 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	• 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. • 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.		
	•		
Conferences/ workshops/ seminars attended/presented	PhD supervisors Capacity Building Program (2023) Participated in person in the National Academy of Higher Education (NAHE)-HEC- Ph.D. Supervisors Capacity Building Program 2023. Cohort 01:		

	June 12th to 16th, 2023 Training Venue: Marriott, Islamabad Cohort 02: Training Dates: 7th – 11th August 2023 Training Venue: Marriott, Islamabad • International conference attended in Chicago, NW university USA on Public Health Service Policy on Humane Care and Use of Laboratory Animals, dated May, 15, 2022 • 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
Social activities	• 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.
International +national linkage/Research Collaborations	International ▶ Professor Dr. Robert DE Sewell, Cardiff School of Pharmacy and Pharmaceutical Sciences, Cardiff University, Redwood Building, King Edward VII Ave., Cardiff, CF10 3NB, UK, Official Email:sewell@cardiff.ac.uk ▶ Professor Dr. Teepu Siddique Professor of Pharmacology (Neurology)Northwestern University, Feinberg School of Medicine, U.S.ALes Turner ALS Foundation/Herbert C. Wenske Foundation ProfessorDirector, Division of Neuromuscular MedicineDavee Department of Neurology& Department of Cell and Molecular Biology, Division of Neuromuscular Medicine.Tarry Building13-715303 East Chicago Avenue Chicago, Illinois, USA 60611-3008 ▶ 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: Official email : t-lukas@northwestern.edu ▶ 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: Official Email:yanjianh@northwestern.edu ▶ Professor Shafiqur Rahman, Professor of Pharmacology, Department of Pharmaceutical Sciences, South Dakota State University, USA. Official email: Shafique.Rahman@sdstate.edu ▶ 2. Dr.DenizBagdas Uludag University, Faculty of medicinresearch center, Turkey Email: dbagdas@gmail.com National 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 khysroon Department of Zoology, University of Peshawar, Khyber Puhktunkhwa, Pakistan.
Project completed at Doctoral level	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).
NRPU	• Projects by Dr.Ali: • Project # 1

PROJECTS Completed/ in Progress	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 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 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
References:	▶ 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

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