

Dr. Gowhar Ali,

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



Curriculum Vitae

Dr.Gowhar Ali				
PERSONAL	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 &	
	Email		gohar.pharmacist@gmail.com	
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	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	USA, NWU, Illonois	2021	
Honors /awards/ 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.• Awarded by Higher Education Commission, Pakistan, National Research Programme for Universities (NRPU) competitive research grant award:• Projects by Dr.Ali:• Project # 1 NRPU Project number 6671 completed (2017-2020), titled granted by the Higher Education Commission (HEC) of Pakistan. NRPU Project number NRPU• Project No. # 1 :20-17198/NRPU/R&D/HEC/2021 is in progress in the area of Neuropharmacology. NRPU• 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.			
Professional experience/Employment Record	Designation with Grade	Institution	Period served	Job Description/Nature

	Lecturer, BPS=18	University of Peshawar	From 17-09- 2008	To 26-01- 2011	Teaching and research/Contract
	Lecturer, BPS=18	Kohat University of Science & technology	26-01- 2011	29-02- 2012	Teaching and research/Regular
	Lecturer, BPS=18	University of Peshawar	29-02- 2012	30-10- 2015	Teaching and research/Regular
	Assistant professor, BPS=19	University of Peshawar	30-10- 2015	Till date	Teaching and research
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		
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 “Pharmacology and Therapeutics-II” to the students of second 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. 																
Research scholar supervision	<table border="1"> <thead> <tr> <th>S.No</th> <th>Degree</th> <th>Completed</th> <th>In-progress</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>M.Phil</td> <td>08</td> <td>08</td> </tr> <tr> <td>2.</td> <td>PhD</td> <td>02</td> <td>04</td> </tr> <tr> <td>3.</td> <td>MPhil leading to Ph.D.</td> <td></td> <td>01</td> </tr> </tbody> </table> <p>Post-graduate supervision</p> <ul style="list-style-type: none"> • HEC Approved Ph.D. Supervisor • MPhil Co-Supervision: 04 students completed. • 02 PhD Co-Supervision: (in progress) <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). 	S.No	Degree	Completed	In-progress	1.	M.Phil	08	08	2.	PhD	02	04	3.	MPhil leading to Ph.D.		01
S.No	Degree	Completed	In-progress														
1.	M.Phil	08	08														
2.	PhD	02	04														
3.	MPhil leading to Ph.D.		01														
Conferences/works hops/ seminars attended/presented	<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 																
Social activities	<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>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: <p>C. Computer and statistical: Graph pad prism version 5, End note version 3-10, Smart draw, E-draw, ChemBiodraw, Internet, MS word, Power point.</p>
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<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 Teep Siddique, Northwestern University, Department of Neurology, FSOM, Chicago, Illinois, USA. te-siddique@northwestern.edu 3. Professor Shafiqur Rahman, Professor of Pharmacology, Department of Pharmaceutical Sciences, South Dakota State University, USA. Email: Shafique.Rahman@sdstate.edu 2. Dr. Deniz Bagdas Uludag University, Faculty of medicine research center, Turkey Email: dbagdas@gmail.com <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: +92-51-111555666 Email: muzaffar.abbas@cust.edu.pk 2. Professor Dr. Nazar Ul Islam Department of Pharmacy Sarhad University of Science & Information Technology Ring road campus, Peshawar, Khyber Pakhtunkhwa, Pakistan Phone 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 .Naveed Umer Malakand, Khyber Puhktunkhwa, Pakistan. 5. Dr .Muhammad khysoon Department of Zoology, University of Peshawar, Khyber Puhktunkhwa, Pakistan.
<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 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

	<p>recording facility for experiments on live animals such as analgesia, anti-inflammatory, antipyretic, Anti-Alzheimer, anti-emetic, locomotor, anxiolytic and antidepressant activities.</p> <ul style="list-style-type: none"> • 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>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>Projects under NRPU— 01completed 01 in progress</p>	<p>01. Completed: Awarded by Higher Education Commission, Pakistan under National Research Programme for Universities (NRPU) competitive research grant award 2016-17, Project No. 6671entitled “NOVEL TARGETED HETEROCYCLIC COMPOUND(S)-POTENTIAL CANDIDATES FOR ALZHEIMER’S DISEASE” at total cost 5886560/- Rs</p> <p>02. NRPU-2 progress: <i>NRPU Project No. 2017198/NRPU/R&D/HEC/2021 is in progress-in the area of Neuropharmacology.</i></p> <p>. NRPU 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</p>

Dr Ali currently has published 60 Five publications in well-reputed peer-review international journals with a cumulative impact factor of about 100+ with total citations 653.

<https://www.researchgate.net/profile/Gowhar-Ali-2/stats>

Listed below latest on top.

Dr. Gowhar Ali List of Publications (JAN 20, 2024) = 68
Chicago 16th footnote format:

2024 (02)

02. 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.

- **Impact factor: 7.5**
- <https://www.sciencedirect.com/science/article/pii/S0753332224004281>
- <https://doi.org/10.1016/j.biopha.2024.116544>

01.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.**

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2023 (07)

1. Ali, Gowhar, Nazar Ul 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).*
2. <https://doi.org/10.1007/s10787-023-01356-0>

3. Alam, Aftab, **Gowhar Ali**, Asif Nawaz, Taghrid S AlOmar, Abdur Rauf, Muhammad Ayaz, Sajjad Ahmad, Najla Almasoud, 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)*.
4. Gohar, Aneela, **Gowhar Ali**, Umer Rashid, Khalid Rauf, Mehreen Arif, 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*
5. 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)*.
6. 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)*.
7. 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 Shiyou Univ. Nat. Sci. Ed* 19, no. 6 (2023): 403-24.
8. 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 Shiyou University, Natural*

2022 (09)

9. 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)*
10. 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)*
11. 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 Anti-Nociceptive Mechanisms." *Molecules* 27, no. 17 (2022): 5431. <https://doi.org/10.3390/molecules27175431>. *Corresponding author: Gowhar Ali, Impact factor: (IF:4.927)*
12. 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 & Pharmacotherapy* 149 (2022): 112834. <https://doi.org/10.1016/j.biopha.2022.112834>. *Impact factor: (IF:7.419)*
13. Shah, Dawood, Arshad Iqbal, Fahad S Alshehri, Aman Ullah, **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)**

14. 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)**
15. Ullah, Rahim, **Gowhar Ali**, Abdul Baseer, Sumaira Irum 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)**
16. 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)
17. 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)

18. 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)
19. 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)**

20. 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:**

21. 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)**

22. 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)**

23. 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)

24. Rukh, Lala, **Gowhar Ali**, Rahim Ullah, Nazar Ul Islam, and Muhammad Shahid. "Efficacy Assessment of Salicylidene Salicylhydrazide 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**

25. Ullah, Rahim, **Gowhar Ali**, Nisar Ahmad, Muhammad Akram, Geeta Kumari, 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**
26. Ahmad, Syed Ilyas, **Gowhar Ali**, Tahir Muhammad, Rahim Ullah, Muhammad Naveed Umar, and Aisha Nasir Hashmi. "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**
27. Nazir, Shabnam, Kashif Adnan, Rukhsana Gul, **Gowhar Ali**, Shamim Saleha, 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**
28. Munir, Abida, Adil Khushal, Kiran Saeed, 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)

29. Khan, Jawad, **Gowhar Ali**, Rasool Khan, Rahim Ullah, and Salim Ullah. "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**

30. Shah, Rehmat, Fazal Subhan, 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)
31. Shah, Rehmat, Fazal Subhan, Syed Muhammad Sultan, Matiul Haq, Hussain Ahmad, Qasim Riaz Khan, **Gowhar Ali**, Sami Ullah, and Ihsan Ullah. "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)
32. 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)
33. Khan, H, AA Shad, I Khan, A Aziz, **G Ali**, SM Hizbullah, and I Jan. "In Vivo and in Vitro Pharmacological Evaluation of Gymnosporia Royleana." *West Indian Medical Journal* 68, no. 2 (2019). *Corresponding author: Gowhar Ali, Impact factor:* (IF: w, 2019)

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