

Dr. Nasiara Karim

Associate Professor
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PhD (Australia), Postdoc USA

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Academic Information

- PhD in Pharmacology/neurosciences: Faculty of Pharmacy, The University of Sydney , Australia **2008-2012**
- M.Phil (Pharmacology) Department of Pharmacy University of Peshawar, Pakistan **cGPA (3.9/4) (Excellent) 2005-2007**
- B.Pharm: Department of Pharmacy University of Peshawar, Pakistan Secured first position with grade A (**Excellent**) **2000-2004**

Distinctions and Awards

- **1st class** first position throughout till SSC
- **1st class** second position in FSc
- **1st class** second position throughout the four years of B. Pharmacy.
- **1st Class** first position in M.Phil securing 3.90 cGPA
- **Faculty development programme scholarship** from the University of Malakand (HEC; Pakistan) for PhD studies (2008-2012)
- **John Lamberton scholarships**, The university of Sydney (2009-2011)
- **Fulbright award under Fulbright scholar Program**
- **Cumulative impact factor 180.**

Memberships

- Chair of the student chapter of American association of pharmaceutical sciences (AAPS) of the University of Sydney; Australia. (2010-2011)
- Treasurer of the student chapter of American association of pharmaceutical sciences (AAPS) of the University of Sydney; Australia. (2009-2010)

- Member of The Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT) (2008 till present)
- Member of the Australian neuroscience society (ANS) (2008 till present)
- Member of the society of neurosciences (SFN); United States of America (2009 till present).
- Member of Diabetic care society
- Focal person of Pink ribbon campaign in Pakistan

Journal's Editorial Referee

1. Frontiers in pharmacology
2. Frontiers in neurosciences
3. Frontiers in neurology
4. Biomedicine and Pharmacotherapy
5. Phytomedicine
6. Plos One
7. European Journal of Integrative Medicine
8. Arabian journal of chemistry
9. Phototherapy research
10. African Journal of Pharmacy and Pharmacology
11. BioMed research international
12. Bioorganic chemistry

Research interests

- GABA receptors
- Opioid receptors
- Muscarinic and Nicotinic acetylcholine receptors
- Glutamate receptors

Research Focus: I have broad research interests in the areas of neuroscience, molecular pharmacology and neuropharmacology. My specific field of research focuses on identifying natural and synthetic ligands for GABA-A receptors to be effective as memory enhancers, analgesics, anxiolytics and anti-epileptics using electrophysiological, radioligand binding studies and behavioral animal models. I am also interested in the development of animal models of depression and other behavioral disorders and in the pharmacological treatment of these disorders.

Research Skills obtained

- **Two electrode voltage clamp in *Xenopus Laevis* oocytes:** During my PhD at the faculty of Pharmacy, University of Sydney Australia, I have gained extensive experience in recording currents from GABAA, GABAC, and nicotinic acetylcholine receptors expressed in *Xenopus oocytes*. I have become an expert in anesthetizing and harvesting oocytes from *Xenopus laevis* in the last 3.5 years.
- **Patch clamp technique:** I have also acquired skills in patch clamping during my PhD. I have used both the single channel and whole cell patch clamp configurations while studying ion channels during my visiting research fellowship at the Australian National University (ANU) Canberra, Australia and the University of New South Wales (UNSW), Australia.
- **Tissue Culture Skills:** During my visiting research fellowship, I have mastered the skills for culturing hippocampal neurons from new born mice at the John Curtin school of medical research (JCSMR) ANU, Australia.
- **Radioligand binding techniques:** During my PhD I have also done radioligand binding studies.
- **Molecular biology techniques:** I have used various molecular biology techniques during my PhD i.e. transformation, Culturing, Extraction and purification of DNA plasmids, linearization and in vitro transcription, site directed mutagenesis and PCR techniques.
- **Behavioral studies techniques in rodents:** During my M.Phil, PhD and postPhD research, I have worked extensively on various behavioral models for anxiety, sleep, depression, dependence and analgesia. I have become an expert in using automated Elevated plus Maze (EPM), light-dark test, Actimeter test, forced swimming, tail suspension and hot plate tests, STZ induced diabetes mellitus, diabetes induced neuropathic pain models.

Job experience

1. May 2022-Present: Associate Professor, Department of Pharmacy, University of Peshawar
2. **May 2019-May 2022: Associate Professor (Tenured)**, Department of Pharmacy; University of Malakand
3. **November 2017-Present: Fulbright Postdoctoral fellow** (School of Medicine, Boston University, USA).
4. **May 2012-till present: Assistant Professor**, University of Malakand. In this role I have been taught several subjects to both undergraduate and postgraduate students. These courses include pharmacology, physiology, anatomy and clinical pharmacy. Several M.Phil and PhD students are currently enrolled under my supervision. Six M.Phil students have obtained their degrees in neurosciences under my supervision in the last three years.

5. September 2011-December 2011: Research Assistant, Laboratory of neurosciences, faculty of Pharmacy, University of Sydney

6. 2008-2011: Demonstrator and tutor in the faculty of Pharmacy; University of Sydney. During this period I have taught various subjects including medicinal chemistry, pharmacokinetics and pharmacology to the undergraduates' students.

7. 2006 -2008: Lecturer in the Department of Pharmacy, University of Peshawar, Pakistan. I have served as lecturer at Department of Pharmacy University of Peshawar, Pakistan and have taught various subjects of Basic Medical Sciences (Pharmacology, Physiology, Biochemistry, Anatomy, and Pathology) and conducting the practical of these subjects to the Doctor of Pharmacy (Pharm-D) students independently.

8. 2005-2008: Hospital/Clinical Pharmacist in Rehman Medical Institute, Peshawar Pakistan. My job description in this position was

- Unit dose drug distribution system to the inpatients using the computerized software system
- Ambulatory and emergency patient services
- In house compounding and preparing extemporaneous preparations.
- Inventory control through pharmacy information management system
- Provide drug information to all health care professional including consultants, registrars, senior medical officers, medical officers, nurses and microbiologist
- Patient counseling
- Member of the Hospital infection control committee. I have actively participated in formulating guidelines and protocols for the control of infections in the hospital specially MRSA and against pseudomonas auregenosa, the most common hospital pathogens.
- Member of the hospital formulary committee.

6. 2004 – 2005: On-Job Hospital Pharmacist Training Programme in Aga Khan Hospital Karachi, Pakistan

During this training gained experience in

- Computerized unit dose drug distribution system
- Floor stock filling
- Ambulatory care services
- Patient counseling
- Drug and poison information centre (DPIC)
- Computerized physician order entry system(cPOE)
- Cytotoxic drug Admixture
- Total parenteral nutrition (TPNs)

- Sterile preparations
- In-house extemporaneous and bulk compounding
- Clinical rounds of patient care areas (ICU, CICU&CCU).
- Clinical Pharmacy including studying patient profiles and suggest rational drug therapy to the prescribers, drug utilization review, therapeutic class evaluation, analysis and documentation of adverse drug reactions.

7. 15 Oct 2003-12 Dec 2003: Worked as a trainee industrial Pharmacist in MSD (MERCK SHARP & DHOME) Pakistan

Administrative positions

1. September 2020- Till date (Director QEC)

Distinctions achieved

1. During my tenure, University of Malakand achieved the following positions in various rankings

1. **UI greenMetric rankings 2019**

- Second position in KP
- 15th position in Pakistan
- 483 position in World

2. **UI green Metric World University rankings 2020**

- Second position in KP
- 13th position in Pakistan
- 419 position in World

3. **THE university Impact rankings 2019**

- 601-800 position in world

4. **THE world University rankings 2022**

- 601-800 position in world

5. **QS World University rankings 2022**

- 451-500 position in QS Asia University rankings

2. **September 2012- 2017: Deputy Provost**

- In this capacity I am looking after all affairs including policy making related to girls hostel and on campus.
- Also being involved in organizing various workshops in university of Malakand.

2. **2013-present: Staff Proctor**

As staff proctor, I have been involved in maintaining discipline on campus as well as in hostels.

3. October 2012-December 2014: Member of Graduate studies committee (GSC)

In this position, I have been involved in evaluating masters and doctoral research proposals for recommendation to Advanced Studies and research board (ASRB) and all matters related to postgraduate students.

**4. October 2013-Feb 2014: Acting principal University public school and college
Community service**

1. I have been involved in Pink Ribbon campaign from the last three years to produce awareness about breast cancer in women. I have organized seminars, talks and walks for this purpose not only in the University of Malakand but also in the affiliated colleges and schools.
2. I am also a member of the diabetic care society and arrange free blood glucose checking camps for the community from time to time.

Research student's supervision

List Of (M.Phil) And (Ph.D) Supervised/In-Progress

List of M.Phil students			
S.No	Name	Research Title	Year of completion
1	Naveed Ahmad	Pharmacological Investigation Of 3'-Methoxy-6-Methyl Flavone In Animal Models Of Epilepsy And Anxiety	2015
2	Naqash Ara	Preliminary Phytochemical Screening And Evaluation Of Antioxidant And Hepatoprotective Activity Of Sarcococa Saligna	2015
3	Rahat Ullah	Pharmacological Investigation Of Chloromethyl Quinolynyl Thiopental Chalcone Derivative	2016
4	Shahid Irshad	Pharmacological investigation of Viscosine for epilepsy and anxiety in animal models	2016
5	Asaf Khan	Pharmacological Evaluation of 2/Chloro,6-Methylfiovone For Anxiety And Epilepsy In Animals Models.	2016
6	Waheed Khan	Pharmacological Investigation of Asparacosin A	2017
7	Babar Ayub	Bioguided isolation of active constituent and evalaution of salvia moorcroftiana wall. ex benth for CNS activities	2019
8	Inbisat	Bio-guided synthesis, memory enhancement and SAR studies of phthalimide derivatives	2019
9	Shahid Anwar	Evaluation Of Anti-Parkinsonian Activity Of Mentha Longifolia (L.) In Animal Models	2023
10	Muhammad Salman	Phytochemical evaluation and pharmacological investigation od chenopodium Murale (L) in chronic constriction injury induced neuropathic pain in mice	2023
List of PhD students under supervision			
1	Sajid Khan Sadozai	Preparation and evaluation of gel containing ketoconazole and silver nanoparticles for topical fungal infections	2020
2	Nouman Altaf	Investigation of Novel GABA-A receptors ligands for treating chronic neuropathic pain	Thesis submitted

3	Shahid Irshad	Phytochemical Analysis And Appraisal Of The Potential Efficacy Of Quercus Dilatata In Epilepsy Models	Enrolled
4	Qamar Gul	Synthesis, Characterization And Pharmacological Evaluation Of Novel Schiff Bases From Vanillin Analogue	2024
5	Nisar Zamin Shah	Syntesis, Characterization And Pharmacological Evaluation Of Aryl Propionic Acid Derivatives	2024

Research Grants completed

1. Exploring analgesic and antiepileptic activities and *in-vitro* and *in-vivo* correlation of flavonoids (0.5 million PKR)
2. Investigation of Novel GABA-A receptors subtype selective as potential new remedy for treating diabetes and chemotherapy induced neuropathic pain (6.3 million PKR)

International Refereed Journal Publications

1. Sadia Azeem . Nasiara Karim , Sadaf Wadood , Nisar Zamin Shah , Muhammad Kifayatullah * ,Sudhair Abbas , Ajmal Khan , Peer Abdul Hannan, Nazarul Islam Synthesis, Computational Analysis and In-vitro anti-inflammatory activities of Naproxen Derivatives by Lipoxxygenase and Cyclooxygenase Inhibitory Pathway, Journal of research in Pharmacy, Vol 30, No 3, NaY 2026
2. Nausheen Nazir, Sajid Khan, Nasiara Karim, Mohammad Nisar, Tariq Aziz, Ashwag Shami, Fahad Al-Asmari, Areej A. Alhhazmi, Fakhria A. Al-Joufi & Maher S. Alwethaynani , Elucidating the Phytochemical, Antibacterial, and Hepatoprotective Effects of Elaeagnus umbellata Leaf Extract Against Liver Injury in an Animal Model, Cell Biochemistry and Biophysics, Accepted: 01 May, 2025; <https://doi.org/10.1007/s12013-025-01767-6>
3. Shah NZ, Khan A, Halim SA, Avula SK, Islam NU, Khan I, **Karim N**, Kifayatullah M, Khalid A, Alhazmi HA, Abdalla AN, Kashtoh H, Al-Harrasi A. EpubEfficient microwave synthesis of flurbiprofen derivatives and their enhancement of efficacy in chronic inflammatory pain models and gastro-protective potential in post-operative model 2024 Jan 3 . J Biomol Struct Dyn. 2024 Jan 31:1-16. doi: 10.1080/07391102.2024.2309645 (IF=2.7)
4. Altaf N, Rehman NU, **Karim N**, Khan I, Halim SA, Alotaibi BS, Hamad RS, Batiha GE, Tayyeb JZ, Turkistani A, Khan A, Al-Harrasi A. Attenuation of Streptozotocin-Induced Diabetic Neuropathic Allodynia by Flavone Derivative Through Modulation of GABA-ergic Mechanisms and Endogenous Biomarkers. Neurochem Res. 2024 Apr;49(4):980-997. doi: 10.1007/s11064-023-04078-5. (IF=3.7)
5. Gul Q, **Karim N**, Shoaib M, Zahoor M, Rahman MU, Bilal H, Ullah R, Alotaibi A. Vanillin derivatives as anti-amnesic agents in scopolamine-induced memory impairment in mice. Heliyon. 2024 Feb 19;10(4):e26657. doi: 10.1016/j.heliyon.2024.e26657. eCollection 2024 Feb 29. (IF=3.4)
6. **Nasiara Karim**, Inbisat Khan, Imran Khan, Halim SA, Khalid A, Abdalla AN, Rehman NU, Khan A, Al-Harrasi A. Anti-amnesic Effects of Novel Phthalimide Derivatives in Scopolamine-Induced Memory Impairment in Mice: A Useful Therapy for Alzheimer's Disease. ACS Omega. 2023 Feb 14;8(8):8052-806 (IF=3.7)
7. Nisar Zamin Shah , Satya Kumar Avula , **Nasiara Karim** , Nazar Ul Islam , Gaber El-Saber Batiha , Abdullatif Bin Muhsinah , Ajmal Khan , Ahmed Al-Harrasi ; Bio-oriented synthesis of ibuprofen derivatives for enhancement efficacy in post-operative and chronic inflammatory pain models; RSC Adv. 2023 Apr 21;13(18):12518-12528. doi: 10.1039/d3ra01385e. eCollection 2023 Apr 17

8. Imran Khan, Tapan Kumar Mohanta, Nuzhat Ihsan, Sobia Ahsan Halim, Ajmal Khan, Najeeb Ur Rehman, Faizullah Khan, Asaad Khalid, Ashraf N. Abdalla, **Nasiara Karim,*** and Ahmed Al-Harrasi,* Antiamnesic Effects of Feralolide Isolated from Aloe vera Resin Miller against Learning Impairments Induced in Mice Antioxidants (Basel). 2023 Jan; 12(1): 161.
9. Ajmal Khan , Haroon Khan , Francesco Maione , **Nasiara Karim** Editorial: Natural products as an emerging therapeutic alternative for the treatment of anxiety and depression, Volume II: Front Pharmacol; 2022 Dec 14;13:1078548. doi: 10.3389/fphar.2022.1078548. eCollection 2022.
10. Najeeb Ur Rehman , Sulaiman Al-Shidhani , **Nasiara Karim** , Ajmal Khan , Imran Khan , Sobia Ahsan Halim , Sajid Khan Sadozai , Satya Kumar Avula , Rene Csuk , Ahmed Al-Harrasi Incensole derivatives from frankincense: Isolation, enhancement, synthetic modification, and a plausible mechanism of their anti-depression activity; Bioorg Chem .2022 Sep;126:105900. doi: 10.1016/j.bioorg.2022.105900.
11. Ajmal Khan, Imran Khan, Sobia Ahsan Halim, Najeeb Ur Rehman, **Nasiara Karim**, Waqar Ahmad, Majid Khan, Rene Csuk, Ahmed Al-Harrasi Anti-diabetic Potential of β -Boswellic acid and 11-keto- β -Boswellic acid: Mechanistic Insights from Computational and Biochemical Approaches; **Biomedicine and pharmacotherapy (IF= 6.5)**. (Accepted- 25/01/2022)
12. Ajmal Khan, Rehmat Gul, Najeeb Ur Rehman, Haroon Khan, **Nasiara Karim**, Sobia Ahsan Halim, Sagheer Ahmed, Ahmed Al-Harrasi; Myrrhanone B and Myrrhanol B from resin of Commiphora mukul exhibit hepatoprotective effects in-vivo; **Biomedicine & Pharmacotherapy (IF=6.5)**. Volume 143, November 2021, 11213
13. **Nasiara Karim** , Imran Khan , Abeer Abdelhalim , Sobia Ahsan Halim , Ajmal Khan, Ahmed Al-Harrasi; Stigmasterol can be new steroidal drug for neurological disorders: Evidence of the GABAergic mechanism via receptor modulation; **Phytomedicine**; Volume 90, September 2021.
14. **Nasiara Karim**, Imran Khan, Abeer Abdelhalim, Sobia Ahsan Halim, Ajmal Khan, Nouman Altaf Waqar Ahmad, Rukhsana Ghaffar, Ahmed Al-Harrasi; Involvement of selective GABA-A receptor subtypes in amelioration of cisplatin-induced neuropathic pain by 2'-chloro-6-methyl flavone (2'-Cl-6MF); **Naunyn-Schmiedeberg's Archives of Pharmacology** <https://doi.org/10.1007/s00210-020-02021-x>
15. **Nasiara Karim**, Haroon Khan, Imran Khan, Ouyang Guo, Eduardo Sobarzo-Sánchez, Luca Rastrelli and Mohammad Amjad Kamal, An Increasing Role of Polyphenols as Novel Therapeutics for Alzheimer's: A Review; **Medicinal Chemistry** , 2020, 16, 1-15
16. Nausheen Nazir, Muhammad Zahoor, Mohammad Nisar, **Nasiara Karim**, Abdul Latif, Sajjad Ahmad and Zia Uddin; Evaluation of neuroprotective and antiamnesic effects of Elaeagnus umbellata Thunb. on scopolamine-induced

- memory impairment in mice; **BMC Complementary Medicine and Therapies** (2020) 20:143
17. Sajid Khan Sadozai, Saeed Ahmad Khan, **Nasiara Karim**, Dennis Becker, Nils Steinbrück, Stefanie Gier, Abdul Baseer, Frank Breinig, Guido Kickelbick, Marc Schneider, Ketoconazole-loaded PLGA nanoparticles and their synergism against *Candida albicans* when combined with silver nanoparticles; **Journal of Drug Delivery Science and Technology** 56 (2020) 101574
 18. Taima Qudah, Gracia X. Quek, Dinesh Indurth, **Nasiara Karim**, Jill I. Halliday, Nathan Absalom¹, Malcolm D. McLeod and Mary Chebib; AE succinimide, an analogue of methyllycaconitine, when bound generates a nonconducting conformation of the $\alpha 4\beta 2$ nicotinic acetylcholine receptor; **ACS Chem. Neurosci**; DOI: 10.1021/acscchemneuro.9b00525 Publication Date (Web): 03 Jan 2020
 19. Mughal Qayum, Muhammad Nisar, Abdur Rauf, Imran Khan, Waqar Ahmad Kaleem, Muslim Raza, **Nasiara Karim**, Munawar Ahmad Saleem, Saud Bawazeer, Sengul Uysal Gokhan Zengin, Saqib Jahan and Mohamed Fawzy Ramadan; In-vitro and in-silico anticancer potential of taxoids from *Taxus wallichiana* Zucc; **Biologia futura**; 1st December 2019, **Biologia Futura** volume 70, pages 295–300 (2019) <https://akademai.com/loi/019>.
 20. Ahmed Al-Harrasi, Ajmal Khan, Najeeb Ur Rehman, Sulaiman Al-Shidhani, **Nasiara Karim**, Imran Khan, Sobia Ahsan Halim, Ahmed Al-Rawahi, Javid Hussain, Rene Csuk. Evidence for the involvement of a GABAergic mechanism in the effectiveness of natural and synthetically modified incensole derivatives in neuropharmacological disorders: A computational and pharmacological approach; **Phytochemistry** 163 (2019) 58–74; IF= 3.1
 21. **Nasiara Karim**, Waheed Khan, Ajmal Khan , Imran Khan, Inamullah Khan, Sobia Ahsan Halim and Ahmed Al-Harrasi; Anti-nociceptive and anti-inflammatory activities of Asparacosin A involve selective cyclooxygenase 2 and inflammatory cytokines inhibition: an in-vitro, in-vivo and in-silico approach; **Frontiers in immunology**; Manuscript ID: 414244; IF= 5.5
 22. Abeer Abdelhalim, Imran Khan, **Nasiara Karim**; The Contribution Of Ionotropic GABAergic And NMDA Receptors In The Antidepressant-like Effects Of Hispidulin; **Pharmacognosy magazine** 2019;15:S62-70 IF= 1.5
 23. Nausheen Nazir, Muhammad Zahoor , Mohammad Nisar , Imran Khan , **Nasiara Karim** , Heba Abdel-Halim and Akhtar Ali;_Phytochemical analysis and antidiabetic potential of *Elaeagnus umbellata* (Thunb.) in streptozotocin-induced diabetic rats: pharmacological and computational approach; **BMC Complementary and Alternative Medicine** 2018; 18-332
 24. **Nasiara Karim N**, Imran Khan, Abeer **Abdelhalim**, Ajmal Khan, Sobia Ahsan Halim; Antidepressant potential of novel flavonoids derivatives from sweet violet (*Viola odorata* L): Pharmacological, biochemical and computational evidences for

- possible involvement of serotonergic mechanism. **Fitoterapia** 2018 Jul;128:148-161. **IF= 2.8**
25. Rizwana Sarwar, Umar Farooq, Sadia Naz, Ajmal Khan, Syed Majid Bukhari, Haroon Khan, **Nasiara Karim**, Imran Khan, Ayaz Ahmed; Isolation and Characterization of two New Secondary Metabolites from *Quercus incana* and their antidepressant and anxiolytic potential; **Frontiers in Pharmacology** 18th April (2018): **IF=4.4**
 26. **Nasiara Karim** , Heba Abdelhalim,² Navnath Gavande,³ Imran Khan,⁴ and Haroon Khan ⁵; Natural Products as an Emerging Therapeutic Alternative in the Treatment of Neurological Disorders; **Evidence-Based Complementary and Alternative Medicine Volume** 2018, Article ID 3056847 (Editorial): **IF 1.8**
 27. Nausheen Nazir , **Nasiara Karim** , Heba Abdel-Halim , Imran Khan , Syed Fazal Wadood , Muhammad Nisar; Phytochemical analysis, molecular docking and antiamnesic effects of methanolic extract of *Silybum marianum* (L.) Gaertn seeds in scopolamine induced memory impairment in mice; **Journal of Ethnopharmacology** 210 (2018) 198–208; **IF=3.2**
 28. Murad Ali , Marwa Alam , Syed Fazal Wadood , Waqar Khan , Nisar Uddin , Shams Uz Zaman , Nausheen Nazir , Nasiara Karim , Zahid Ali , Mohammad Nisar; Biochemical characterization of Pakistani Zea mays landraces growing in the remote areas of Khyber Pakhtunkhwa; **International Journal of Biosciences**; Vol. 11, No. 3, p. 51-58, 2017
 29. **Nasiara Karim**, Imran Khan, Abeer Abdelhalim, Heba Abdel-Halim, Jane R Hanrahan; Molecular Docking and Antiamnesic Effects of Nepitrin Isolated from *Rosmarinus Officinalis* on Scopolamine-Induced Memory Impairment in Mice; **Biomedicine and Pharmacotherapy** (2017) Dec;96:700-709. ; **IF = 2.8**
 30. Sadia Naz , Umar Farooq, Ajmal Khan, Haroon Khan, **Nasiara Karim** , Rizwana Sarwar, Javid Hussain and Abdur Rauf; Antidepressant Effect of Two New Benzyl Derivatives from Wild Strawberry *Fragaria vesca* var. *nubicola* Lindl. ex Hook.f. **Frontiers in Pharmacology** (2017) Jul 25;8:469. doi: 10.3389/fphar.2017.00469.; **IF=4.4**
 31. **Nasiara Karim**, Imran Khan, Naveed Ahmad, Muhammad Naveed Umar, Navnath Gavande, Antidepressant, anticonvulsant and antinociceptive effects of 3'-methoxy-6-methylflavone and 3'-hydroxy-6-methylflavone may involve GABAergic mechanisms; **Pharmacological Reports**; (2017) October ;69(5):1014-1020; **IF= 2.2**
 32. Shehla Akbar, Fazal Subhan, **Nasiara Karim**, Urooj Aman, Sami Ullah, Muhammad Shahid, Nisar Ahmad, Khwaja Fawad, Robert D.E. Sewell; Characterization of 6-methoxyflavanone as a novel anxiolytic agent: A

behavioral and pharmacokinetic approach; **European Journal of Pharmacology**; 2017; April 15;801:19-27; IF= 2.7

33. Imran Khan, Waqar Ahmad, **Nasiara Karim**, Manzoor Ahmad, Munsaid Khan, Shafiq Ahmad Tariq, Nuzhat Sultana, Raza Shah, Ajmal Khan, Abeer Abdelhalim: Antidiabetic activity and histopathological analysis of carnosol isolated from *Artemisia indica* Linn in streptozotocin induced diabetic rats (2016) **Medicinal Chemistry research** (2017) February Volume 26, Issue 2, pp 335–343: IF= 1.4
34. Shehla Akbar, Fazal Subhan, **Nasiara Karim**, Muhammad Shahid, Nisar Ahmad, Gowhar Ali, Wajahat Mehmood, Khawaja Fawad. 6-Methoxyflavanone attenuates mechanical allodynia and vulvodynia in streptozotocin-induced diabetic neuropathic pain; **Biomedicine and Pharmacotherapy** (2016) December ;84:962-971 IF = 2.8
35. **Karim N**, Ullah R, Khan I, Raza M, Rauf A, Hizbullah SM, Khan I. Antiinflammatory activity and molecular docking studies of quinolyl thienylchalcone. **Bangladesh J Pharmacol**. 2016; 11: 000
36. Imran Khan, **Nasiara Karim**, Waqar Ahmad, Abeer Abdelhalim, and Mary Chebib. GABA-A Receptor Modulation And Anticonvulsant, Anxiolytic And Antidepressant Activities Of Constituents From *Artemisia Indica* Linn; **Evidence-Based Complementary and Alternative Medicine** (2016). IF =1.88.
37. **Nasiara Karim**; Shahid Irshad; Imran Khan; Akhtar Muhammad; Itrat Anis; Muhammad R Shah; Inamullah Khan; Mary Chebib. GABAA receptor modulation and neuropharmacological activities of viscosine isolated from *Dodonaea viscosa* (Linn). **Pharmacology, Biochemistry and Behavior** (2015) 136:64-72. (IF= 2.82).
38. Abeer Abdelhalim, **Nasiara Karim**, Mary Chebib, Talal Aburjai, Imran Khan Graham, A.R. Johnston and Jane R. Hanrahan. Antidepressant, anxiolytic and antinociceptive activities of constituents from *Rosmarinus Officinalis*. **Journal of Pharmacy & Pharmaceutical Sciences**. 2015 Nov;18(4):448-59.(IF=2.2)
39. Haroon Ur Rashid , Muhammad Naveed Umar , Mian Gul Sayed , **Nasiara Karim** and Rukhsana Ghaffar , Synthesis and evaluation of analgesic, anti-inflammatory and anti-bacterial activity of synthetic porphyrin derivatives. **Revue Roumaine de Chimie / Romanian Journal of Chemistry**. 2015, 60(9), 861-866 (IF=0.31)
40. Waqar Ahmad; Imran Khan; Mir Azam Khan; Manzoor Ahmad; Fazal Subhan; **Nasiara Karim**. Evaluation of antidiabetic and antihyperlipidemic activity of

- Artemisia indica linn (Aerial parts) in Streptozotocin induced diabetic rats. **Journal of Ethnopharmacology** 2014 151:618–623. (Impact Factor= 3.2)
41. Belinda J. Hall, **Nasiara Karim**, Mary Chebib, Graham A. R. Johnston, Jane R. Hanrahan. Modulation of Ionotropic GABA Receptors by 6- Methoxyflavanone and 6-Methoxyflavone. **Neurochemical Research** (2014) 39:1068–1078 (Impact Factor = 2.7)
 42. Mary Chebib, , Nathan L. Absalom, Gracia Quek, Dinesh Indurthi, Trevor M. Lewis, Taima Qudah, Ida von Arenstorff, Jill I. Halliday, Joseph I. Ambrus, Kasper Harpsøe, **Nasiara Karim**, Thomas Balle, Malcolm D. Mcleod. An additional binding site for methyllycaconitine (MLA) and analogs occurs at the $\alpha 4$ – $\alpha 4$ interface of the $(\alpha 4)3(\beta 2)2$ nAChR. **Biochemical Pharmacology** 2013 86(8): 1225 (Impact Factor = 5.0).
 43. Nathan L. Absalom, Gracia Quek, Trevor M. Lewis, Taima Qudah, Ida von Arenstorff , Joseph I. Ambrus, Kasper Harpsøe, **Nasiara Karim**, Thomas Balle, Malcolm D. Mcleod and Mary Chebib. Covalent trapping of methyllycaconitine at the $\alpha 4$ – $\alpha 4$ interface of the $\alpha 4\beta 2$ nicotinic acetylcholine receptor: antagonist binding site and mode of receptor inhibition revealed. **The Journal of biological chemistry** (2013): 26521-26532 (Impact Factor = 5.3)
 44. **Nasiara Karim**, Petrine Wellendorph , Nathan Absalom, Graham AR Johnston, Jane R Hanrahan, Mary Chebib. Potency of GABA at human recombinant GABA(A) receptors expressed in Xenopus oocytes: a mini review. **Amino Acids** (2013), 1139-1149 (Impact Factor = 3.3)
 45. Nathan Absalom, Laura F. Eghorn, Inge S. Villumsen, **Nasiara Karim**, Tina Bay, Jesper V. Olsen, Gitte M. Knudsen, Hans Bräuner-Osborn, Bente Frølund, Rasmus P. Clausen, Mary Chebib and Petrine Wellendorph. $\alpha 4\beta \delta$ GABA_A receptors are high-affinity targets for γ -hydroxybutyric acid (GHB). **Proceedings of National Academy of Sciences U S A**. 2012 Aug 14; 109 (33):13404-9 (Impact Factor =9.8).
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1. **Nasiara Karim**, Imran Khan, Abeer Abdelhalim, Heba Abdel-Halim, Sultan Wali, Jane R Hanrahan; Molecular Docking and Antiamnesic Effects of Nepitrin Isolated from *Rosmarinus Officinalis* on Scopolamine-Induced Memory Impairment in Mice; 1st National conference on emerging trends in pharmaceutical sciences, 9-11 October 2017, University of Malakand, Pakistan

2. **Nasiara Karim**, Current role and future perspectives of clinical pharmacy, Clinical seminar cum pharma exhibition, 3-4th May 2017- University of Swabi, KP, Pakistan
3. **Nasiara Karim**, Imran Khan, Mary Chebib; GABA-A receptors are differentially activated by 2'-Methoxy-6 methylflavone, 1st international conference on new horizons in pharmaceutical sciences and drug discovery- 27th April-30th April, 2017, Abbotabad University of Science and technology
4. **Nasiara Karim**, Imran Khan, Mary Chebib; Differential activation of synaptic and extrasynaptic GABA-A receptors by 2'-Methoxy-6 methylflavone, Annual neuroscience meeting; 7-15th October 2016 Aga Khan University Karachi Pakistan
5. **Nasiara Karim**, Imran Khan, Navnath Gavande, Graham A. R. Johnston, Jane R. Hanrahan and Mary Chebib. 3'-methoxy-6-methylflavone and 3'-hydroxy-6-methylflavone modulate GABA_A receptor function. 2nd international conference on IBRO-APRC Associate School of Neuroscience: Molecular Basis of Behaviour. 14-18th March 2016, Islamabad, Pakistan
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