

## Dr. Abdul Sadiq

Associate Professor (Tenured)

[sadiguom@yahoo.com](mailto:sadiguom@yahoo.com)

[a.sadiq@uom.edu.pk](mailto:a.sadiq@uom.edu.pk)

Cell No. 0092 (0) 332-5046 485

### **Mailing address:**

Department of Pharmacy, University of Malakand, Chakdara, 18000 Dir (L), KP, Pakistan.

## Pharmacy Council of Pakistan

Registration No:  
3003-A/2015-PC

PAS  
Gold Medalist  
2021

DOB: 12.04.1982  
Nationality: Pakistani



## Academic Records

Postdoctoral Research

Jacobs University Bremen, Germany

MS/PhD (Organic Chemistry/Organocatalysis)

Jacobs University Bremen, Germany

BS Pharmacy (16-years)

University of Malakand, Pakistan

## Practical Experience

▪ **19<sup>th</sup> July 2018 to date:**

Associate Professor (Tenured), Department of Pharmacy, University of Malakand, Pakistan.

▪ **14<sup>th</sup> Feb 2012 to 18<sup>th</sup> Jul 2018:**

Assistant Professor, Department of Pharmacy, University of Malakand, Pakistan.

▪ **Sep2011-Dec2011:**

Teaching Assistant with Professor T. C. Nugent, Jacobs University Bremen, Germany.

▪ **March2006-March2007:**

Quality Control Analyst, NeoMedix Pharmaceuticals, Rawat, Islamabad, Pakistan.

## Research Interests

- Organocatalysis
- New methods for the asymmetric transformations
- Synthesis of chiral molecules and their biological importance
- Natural products research

## Supervision/Evaluation

- PhD Students supervision 13
- M.Phil Students supervision 18
- Number of Master Thesis evaluated (for other universities) 23
- Number of M.Phil Thesis evaluated (for other universities) 10

## Editorial Board Memberships

- Guest Associate Editor in "Frontiers in Pharmacology" (IF 5.988).
- Review Editor in "Frontiers in Chemistry" (IF 5.545).
- Review Editor in "Frontiers in Pharmacology" (IF 5.988).
- Technical Editor in "International Journal of Pharmacology" (IF 0.701).
- Associate Editor in "BMC Complementary and Alternative Medicine" (IF 4.782)
- Academic Editor in "Evidence-Based Complementary and Alternative Medicine" (IF 2.65)

## **Distinctions/Awards**

- Best Researcher Award **2022**, University of Malakand, Pakistan.
- HEC University-Level Best University Teacher Award, **2021**, University of Malakand.
- Dr. Atta-ur-Rahman Gold Medal in Chemistry for Scientists under 40 by Pakistan Academy of Sciences in **2021**.
- HEC Outstanding Research Award (Best Research Paper Award) **2019** from HEC, Pakistan.
- Research Productivity Award 2017 (**RPA-2017**) in the field of 'Pharmaceutical Sciences' by Pakistan Council for Science and Technology, Pakistan.
- PhD Fellowship Award under Faculty Development Program (FDP) sponsored by Higher Education Commission (HEC) of Pakistan via University of Malakand, Pakistan in **2007**.
- Meritorious Award from ZJANS Pharmaceutical, Peshawar, Pakistan in **2003**.

## **Research Grants obtained till Date**

### **1) - Syntheses of New Derivatives of Succinimides (Anticonvulsant drugs)**

(Principal Investigator, Funding details: PD-IPFP/HRD/HEC/2013/1906; HEC Pakistan)

### **2) - Preliminary Phytochemical Screening and Pharmacological activities of Medical Plants of Pakistan.**

(Co-Principal Investigator, Funding details: PD-IPFP/HRD/HEC/2013/1936; HEC Pakistan)

### **3) - Amino acids promoted asymmetric Michael additions of carbonyls to maleimides.**

(Principal Investigator, Funding details: 22-1/HEC/R&D/PPCR/2018; HEC Pakistan)

### **4) - Synthesis of asymmetric succinimides with aldehyde functionality and its potential role in the treatment of inflammation**

(Principal Investigator, Funding details: 10562/KPK/NRPU/R&D/HEC/2017; HEC Pakistan)

### **5) – A combined ligand-and structure-based approach to design and synthesize novel AChE inhibition-based multi-target-directed ligands against Alzheimer's disease**

(Co-Principal Investigator, Funding details: HEC/R&D/NRPU/2017/8055; HEC Pakistan)

### **6) – Synthesis and analgesic studies on potent stereopure succinimide derivatives: Molecular docking supported in-vitro and in-vivo analgesic mechanism with possible prediction of pharmacokinetics and metabolism**

(International Collaborator, Project No. NU/MID/17/046; Ministry of Higher Education, KSA)

### **7) – Evaluation of anti-inflammatory potential of ketoesters derivatives of succinimides with possible prediction of mechanism**

(International Collaborator, Project No. NU/MID/17/047; Ministry of Higher Education, KSA)

8) – **Chemical composition and neuroinflammatory potential of *Habenaria digitate***

(International Collaborator, Project No. [NU/MID/17/223](#); Ministry of Higher Education, KSA)

9) – **Anti-angiogenic and antitumor assays on progesterone and testosterone derivatives**

(International Collaborator, Project No. [NU/MID/17/109](#); Ministry of Higher Education, KSA)

10) – **Synthesis of aldol products as potential multi-targets neuro-inflammatory agents**

(International Collaborator, Project No. [NU/MID/17/222](#); Ministry of Higher Education, KSA)

11) – **Evaluations of Synthetically Designed & Synthesized Compounds and Natural Products for Vital Biological Targets: The Basic Tools for Drug Discovery**

(Principal Investigator, Project No. [NU-IF/INT/01/006](#); Ministry of Education, KSA)

12) – **Antidiabetic and other pharmacological studies on SAR based drugs derivatives and isolated bioactive compounds**

(International Collaborator, Project No. [NU/RTCS/22/01/001](#); Ministry of Higher Education, KSA)

13) – **Exploration of antidiabetic agents from natural and synthetic origins**

(International Collaborator, Project No. [NU/RTCS/22/01/002](#); Ministry of Higher Education, KSA)

14) – **Tailoring the substitution pattern on indanone and thiazolidinedione core for targeting enzymes associated with Alzheimer's disease: design, synthesis and biological evaluations**

(Co-Principal Investigator, Funding details: [20-14513/NRPU/R&D/HEC/2021](#); HEC Pakistan)

### **Edited Book**

- Muhammad Ayaz, Tahir Ali, Abdul Sadiq, Farhat Ullah and Myeong Ok Kim: **Natural Products-Based Drugs: Potential Therapeutics against Alzheimer's Disease and other Neurological Disorders**. *Frontiers*, **2020**, ISSN 1664-8714, ISBN 978-2-88963-348-7, DOI 10.3389/978-2-88963-348-7

### **Special Issues**

- **Natural Products-Based Drugs: Potential Therapeutics against Alzheimer's Disease and other Neurological Disorders**. *Frontiers in Pharmacology*, **(Completed)**
- **Current trends in medicinal plant research and neurodegenerative disorders**. *Frontiers in Pharmacology*, **(2021)**

## Books/Book Chapters

- Muhammad Ayaz, Muhammad Ovais, Irshad Ahmad, Abdul Sadiq, Ali Talha Khalil and Farhat Ullah: **Biosynthesized metal nanoparticles as potential Alzheimer's disease therapeutics.** *Elsevier*, 2019, 1, 32-41.

## PUBLICATIONS

(Total Citations = 3645, h-index = 38, i10-index = 78)

### 2011

1. Thomas C. Nugent\*, Daniela E. Negru, Mohamed El-Shazly, Dan Hu, Abdul Sadiq, Ahtaram Bibi and Muhammad Naveed Umar: **Sequential reductive amination-hydrogenolysis: a one-pot synthesis of challenging chiral primary amines.** *Advanced Synthesis & Catalysis*, 2011, 353, 2085-2092. (IF 5.981)

### 2012

2. Thomas C. Nugent\*, Abdul Sadiq, Ahtaram Bibi, Thomas Heine, Lei Liu Zeonjuk, Nina Vankova, and Bassem S. Bassil: **Noncovalent bifunctional organocatalysts: powerful tools for contiguous quaternary-tertiary stereogenic carbon formation, scope, and origin of enantioselectivity.** *Chemistry-A European Journal*, 2012, 18, 4088-4098. (IF 5.02)
3. Thomas C. Nugent\*, Ahtaram Bibi, Abdul Sadiq, Mohammad Shoaib, M. Naveed Umar and Foad N. Tehrani: **Chiral picolylamines for Michael and aldol reactions: probing substrate boundaries.** *Organic & Biomolecular Chemistry*, 2012, 10, 9287-9294. (IF 3.89)
4. Syed Muhammad Mukarram Shah, Farhat Ullah\*, Syed Muhammad Hassan Shah, Mohammad Zahoor and Abdul Sadiq: **Analysis of chemical constituents and antinociceptive potential of essential oil of *Teucrium stocksianum* Bioss collected from the North West of Pakistan.** *BMC Complementary & Alternative Medicine*, 2012, 12, 244. (IF 4.782)

### 2014

5. Muhammad Ayaz\*, Muhammad Junaid, Jawad Ahmad, Farhat Ullah, Abdul Sadiq, Sajjad Ahmad and Muhammad Imran: **Phenolic contents, antioxidant and anticholinesterase potentials of crude extract, subsequent fractions and crude saponins from *Polygonum hydropiper* L.** *BMC Complementary & Alternative Medicine*, 2014, 14, 145. (IF 4.782)
6. Syed Muhammad Mukarram Shah, Abdul Sadiq\*, Syed Muhammad Hassan Shah and Farhat Ullah: **Antioxidant, total phenolic contents and antinociceptive potential of *Teucrium stocksianum* methanolic extract in different animal models.** *BMC Complementary & Alternative Medicine*, 2014, 14, 181. (IF 4.782)
7. Anwar Zeb, Abdul Sadiq\*, Farhat Ullah, Sajjad Ahmad and Muhammad Ayaz: **Phytochemical and toxicological investigations of crude methanolic extracts, subsequent fractions and crude saponins of *Isodon rugosus*.** *Biological Research*, 2014, 47, 57. (IF 7.634)
8. Muhammad Ayaz\*, Muhammad Junaid, Fazal Subhan, Farhat Ullah, Abdul Sadiq, Sajjad Ahmad, Muhammad Imran, Zul Kamal, Sajid Hussain and Syed Majid Shah: **Heavy metals analysis, phytochemical, phytotoxic and anthelmintic investigations of crude methanolic extract, subsequent fractions and crude saponins from**

***Polygonum hydropiper* L. BMC Complementary & Alternative Medicine, 2014, 14, 465. (IF 4.782)**

9. Syed Muhammad Mukarram Shah, **Abdul Sadiq\***, Syed Muhammad Hassan Shah and Shahzeb Khan: **Extraction of saponins and toxicological profile of *Teucrium stocksianum* Bioss extracts collected from district Swat, Pakistan. *Biological Research*, 2014, 47, 65. (IF 7.634)**
10. Anwar Zeb, **Abdul Sadiq\***, Farhat Ullah, Sajjad Ahmad and Muhammad Ayaz: **Investigations of anticholinesterase and antioxidant potentials of methanolic extract, subsequent fractions, crude saponins and flavonoids isolated from *Isodon rugosus*. *Biological Research*, 2014, 47, 76. (IF 7.634)**
11. Muhammad Imran, Farhat Ullah, **Abdul Sadiq**, Muhammad Ayaz\*, Sajjad Ahmad, Zul Kamal and Anwar Zeb: **Investigation of total phenolic contents, antibacterial, antifungal and anthelmintic potentials of crude methanolic extract, subsequent fractions and crude saponins of *Nonea micrantha* boiss. & reut. *PharmacologyOnline*, 2014, 3, 26-31. (IF 0.410)**
12. Sayed Muhammad Mukarram Shah, **Abdul Sadiq\***: **Biological activities of crude saponins, methanolic extract and sub fractions of *Teucrium stocksianum* Bioss collected from North West of Pakistan. *PharmacologyOnline*, 2014, 3, 145-152. (IF 0.410)**

## 2015

13. Syed Muhammad Hassan Shah, Syed Muhammad Mukarram Shah\*, Zakia Ahmad, Muhammad Yaseen, Raza Shah, **Abdul Sadiq**, Shahzeb Khan and Burhan Khan: **Phytochemicals, *in vitro* antioxidant, total phenolic contents and phytotoxic activity of *Cornus macrophylla*, Wall bark collected from the North-West of Pakistan. *Pakistan Journal of Pharmaceutical Sciences*, 2015, 28, 23-28. (IF 0.863)**
14. Haroon Rahim\*, Mir Azam Khan, **Abdul Sadiq**, Shahzeb Khan, Kamran Ahmad Chishti and Inayat Ur Rahman: **Comparative studies of binding potential of *Prunus armeniaca* and *Prunus domestica* gums in tablets formulations. *Pakistan Journal of Pharmaceutical Sciences*, 2015, 28, 909-914. (IF 0.863)**
15. Sajjad Ahmad, Farhat Ullah, Muhammad Ayaz\*, **Abdul Sadiq** and Muhammad Imran: **Antioxidant and anticholinesterase investigations of *Rumex hastatus* D. Don: Potential effectiveness in oxidative stress and neurological disorders. *Biological Research*, 2015, 48, 20. (IF 7.634)**
16. Zul Kamal, Farhat Ullah, Muhammad Ayaz\*, **Abdul Sadiq**, Sajjad Ahmad, Muhammad Imran, Anwar Zeb and Abid Hussain: **Anticholinesterase and antioxidant investigations of crude extracts, subsequent fractions, saponins and flavonoids of *Atriplex laciniata* L.: Potential effectiveness in Alzheimer's and other neurological disorders. *Biological Research*, 2015, 48, 21. (IF 7.634)**
17. **Abdul Sadiq\***, Fawad Mahmood, Farhat Ullah, Muhammad Ayaz, Sajjad Ahmad, Faizan Ul Haq, Ghazan Khan and Muhammad Saeed Jan: **Synthesis, anticholinesterase and antioxidant potentials of ketoesters derivatives of succinimides: A possible role in the management of Alzheimer's. *Chemistry Central Journal*, 2015, 9, 31. (IF 4.095)**
18. Mohammad Nisar, Syed Muhammad Mukarram Shah\*, Imran Khan, Sheema, **Abdul Sadiq**, Shahzeb Khan and Syed Muhammad Hassan Shah: **Larvicidal, insecticidal, brine shrimp cytotoxicity and anti-oxidant activities of *Diospyros kaki* (L.) reported from Pakistan. *Pakistan Journal of Pharmaceutical Sciences*, 2015, 28, 1239-1243. (IF 0.863)**

19. Muhammad Ayaz\*, Fazal Subhan, Jawad Ahmed, Arif-ullah Khan, Farhat Ullah, **Abdul Sadig**, Nawazish-i-Husain Syed, Ihsan Ullah and Sajid Hussain: **Citalopram and Venlafaxine differentially augments antimicrobial properties of antibiotics**. *Acta Poloniae Pharmaceutica-Drug Research*, **2015**, 72, 1269-1278. (IF 0.555)
20. Sayed Muhammad Mukarram Shah\*, **Abdul Sadig** and Farah Gul: **Antibacterial potential of methanolic extracts and sub-fractions of *Teucrium stocksianum* Bioss collected from Malakand Division, Pakistan**. *PharmacologyOnline*, **2015**, 1, 8-12. (IF 0.410)
21. Sajjad Ahmad, Farhat Ullah, Muhammad Ayaz\*, **Abdul Sadig**, Anwar Zeb and Muhammad Imran: **Pharmacological evaluation of saponins, methanolic extract and subsequent fractions of *Rumex hastatus* D. Don against *Monomorium pharaonis* and *Heterotermes indicola***. *PharmacologyOnline*, **2015**, 1, 13-18. (IF 0.410)
22. Muhammad Ayaz\*, Muhammad Junaid, Farhat Ullah, **Abdul Sadig**, Mir Azam Khan, Waqar Ahmad, Muhammad Raza Shah, Muhammad Imran and Sajjad Ahmad: **Comparative chemical profiling, cholinesterase inhibitions and anti-radicals properties of essential oils from *Polygonum hydropiper* L: A preliminary anti-Alzheimer's study**. *Lipids in Health and Disease*, **2015**, 14, 141. (IF 4.315)
23. Zul Kamal\*, Midrarullah, Sajjad Ahmad, Farhat Ullah, **Abdul Sadig**, Muhammad Ayaz, Anwar Zeb and Muhammad Imran: **Ex-Vivo antibacterial, phytotoxic and cytotoxic potential in the crude natural phytoconstituents of *Rumex hastatus* D. Don**. *Pakistan Journal of Botany*, **2015**, 47(SI), 293-299. (IF 1.101)

## 2016

24. Farhat Ullah, Muhammad Ayaz\*, **Abdul Sadig**, Abid Hussain, Sajjad Ahmad, Muhammad Imran and Anwar Zeb: **Phenolic, flavonoid contents, anticholinesterase and antioxidant evaluation of *Iris germanica* var; florentina**. *Natural Product Research*, **2016**, 30 (12), 1440-1444. (IF 2.488)
25. Sajjad Ahmad, Farhat Ullah\*, **Abdul Sadig**, Muhammad Ayaz, Muhammad Imran, Imdad Ali, Anwer Zeb, Farman Ullah and Muhammad Raza Shah: **Chemical composition, antioxidant and anticholinesterase potentials of essential oil of *Rumex hastatus* D. Don collected from the North West of Pakistan**. *BMC Complementary and Alternative Medicine*, **2016**, 16, 29. (IF 4.782)
26. Sajjad Ahmad, Farhat Ullah, Muhammad Ayaz, Anwar Zeb, Farman Ullah and **Abdul Sadig\***: **Antitumor and anti-angiogenic potentials of isolated crude saponins and various fractions of *Rumex hastatus* D. Don**. *Biological Research*, **2016**, 49, 18. (IF 7.634)
27. Syed Muhammad Hassan Shah, Farhat Ullah, Shahzeb Khan, Syed Muhammad Mukarram Shah and **Abdul Sadig**: **Combination precipitation ultrasonication approach for fabrication for stable artemisinin nanosuspension**. *American-Eurasian Journal of Agriculture & Environmental Sciences*, **2016**, 16, 390-401.
28. Muhammad Ayaz\*, Muhammad Junaid, Farhat Ullah, **Abdul Sadig**, Fazal Subhan, Mir Azam Khan, Waqar Ahmad, Gowhar Ali, Muhammad Imran and Sajjad Ahmad: **Molecularly characterized solvent extracts and saponins from *Polygonum hydropiper* L show high anti-angiogenic, anti-tumor, brine shrimp and fibroblast NIH/3T3 cell line cytotoxicity**. *Frontiers in Pharmacology*, **2016**, 7, 74. (IF 5.988)
29. Muhammad Imran, Muhammad Raza Shah\*, Farhat Ullah, Shafi Ullah, Abdelbary M. A. Elhissi, Waqas Nawaz, Farid Ahmad, **Abdul Sadig** and Imdad Ali: **Glycoside-based niosomal nanocarrier for enhanced in-vivo performance of Cefixime**. *International Journal of Pharmaceutics*, **2016**, 505, 122-132. (IF 6.51)

30. Nawab Ali\*, Nimat Ullah, Muhammad Qasim, Hazir Rahman, Shahid Niaz Khan, **Abdul Sadiq** and Muhammad Adnan: **Molecular characterization and growth optimization of halo-tolerant protease producing *Bacillus subtilis* strain BLK-1.5 Isolated from salt mines of Karak, Pakistan.** *Extremophiles*, 2016, 20, 395-402. (IF 3.035)
31. Anwar Zeb, Sajjad Ahmad, Farhat Ullah, Muhammad Ayaz and **Abdul Sadiq\***: **Antinociceptive activity of ethnomedicinally important analgesic plant *Isodon rugosus* Wall. ex Benth: Mechanistic study and identifications of bioactive compounds.** *Frontiers in Pharmacology*, 2016, 7, 200. (IF 5.988)
32. Sajjad Ahmad, Farhat Ullah, Anwar Zeb, Muhammad Ayaz, Farman Ullah and **Abdul Sadiq\***: **Evaluation of *Rumex hastatus* D. Don for cytotoxic potential against HeLa and NIH/3T3 cell lines: chemical characterization of chloroform fraction and identification of bioactive compounds.** *BMC Complementary and Alternative Medicine*, 2016, 16, 308. (IF 4.782)
33. Haroon Rahim\*, **Abdul Sadiq**, Shahzeb Khan, Kamran Ahmad Chishti, Fazli Amin, Mir Azam Khan and Sudhair Abbas: **Isolation and preliminary evaluation of *Mulva neglecta* mucilage: a novel tablet binder.** *Brazilian Journal of Pharmaceutical Sciences*, 2016, 52, 1. (IF 1.214)
34. Sufyan Ahmad, Fatima Iftikhar, Farhat Ullah, **Abdul Sadiq** and Umer Rashid\*: **Rational design and synthesis of dihydropyrimidine based dual binding site acetylcholinesterase inhibitors.** *Bioorganic Chemistry*, 2016, 69, 91-101. (IF 5.307)
35. **Abdul Sadiq\***, Sadiq Ahmad, Rahmat Ali, Fawad Ahmad, Sajjad Ahmad, Anwar Zeb, Muhammad Ayaz, Farhat Ullah and Abu Nasar Siddique: **Antibacterial and antifungal potentials of the solvent extracts from *Eryngium caeruleum*, *Notholirion thomsonianum* and *Allium consanguineum*.** *BMC Complementary and Alternative Medicine*, 2016, 16, 478. (IF 4.782)
36. Muhammad Imran, Muhammad Raza Shah\*, Farhat Ullah, Shafi Ullah, Abdelbary M. A. Elhissi, Waqas Nawaz, Farid Ahmad, **Abdul Sadiq** and Imdad Ali: **Sugar-based novel niosomal nanocarrier system for enhanced oral bioavailability of Levofloxacin.** *Drug Delivery*, 2016, 23, 3653-3664. (IF 6.819)
37. Muhammad Ayaz\*, Muhammad Junaid, Farhat Ullah, **Abdul Sadiq**, Muhammad Ovais, Waqar Ahmad, Sajjad Ahmad and Anwar Zeb: **Chemical profiling of bioactive compounds, antimicrobial and insecticidal evaluations of *Polygonum hydropiper* L.** *BMC Complementary and Alternative Medicine*, 2016, 16, 502. (IF 4.782)

## 2017

38. Muhammad Ayaz\*, Fazal Subhan, **Abdul Sadiq**, Farhat Ullah, Jawad Ahmad and Robert D. E. Sewell: **Cellular efflux transporters and the potential role of natural products in combating efflux mediated drug resistance.** *Frontiers in Biosciences*, 2017, 22, 732-756. (IF 3.115)
39. Muhammad Sarfaraz, Nargis Sultana, Umer Rashid\*, Muhammad Safwan Akram, **Abdul Sadiq** and Muhammad Ilyas Tariq: **Synthesis, biological evaluation and docking studies of 2,3-dihydroquinazolin-4(1H)-one derivatives as inhibitors of cholinesterases.** *Bioorganic Chemistry*, 2017, 70, 237-244. (IF 5.307)
40. Farhat Ullah, Naveed Iqbal, Muhammad Ayaz\*, **Abdul Sadiq**, Ihsan Ullah, Sajjad Ahmad and Muhammad Imran: **DPPH, ABTS free radical scavenging, antibacterial and phytochemical evaluation of crude methanolic extract and subsequent fractions of *Chenopodium botrys* aerial parts.** *Pakistan Journal of Pharmaceutical Sciences*, 2017, 30, 761-766. (IF 0.863)

41. Nargis Sultana, Muhammad Sarfaraz, Saba Tahir, Muhammad Safwan Akram, **Abdul Sadig**, Umer Rashid\* and Muhammad Ilyas Tariq: **Synthesis, Crystal structure determination, biological screening and docking studies of N1-substituted derivatives of 2,3-dihydroquinazolin-4(1H)-one as inhibitors of cholinesterases.** *Bioorganic Chemistry*, **2017**, *72*, 256-267. (IF 5.307)
42. Muhammad Ayaz\*, **Abdul Sadig**, Muhammad Junaid, Farhat Ullah, Fazal Subhan and Jawad Ahmad: **Neuroprotective and anti-Aging Potentials of Essential Oils from Aromatic and Medicinal Plants.** *Frontiers in Aging Neuroscience*, **2017**, *9*, 168. (IF 5.702)
43. Muhammad Umar Khayam Sahibzada, **Abdul Sadig**, Shahzeb Khan\*, Hani S Faidah, Naseemullah, Muhammad Khurram, Muhammad Usman Amin and Abdul Haseeb: **Fabrication, characterization and in vitro evaluation of silibinin nanoparticles: an attempt to enhance its oral bioavailability.** *Drug Design, Development and Therapy*, **2017**, *11*, 1453. (IF 4.319)
44. Mumtaz Ali\*, Sultan Muhammad, Muhammad Raza Shah, Ajmal Khan, Umar Farooq, Umar Rashid, Farhat Ullah, **Abdul Sadig**, Muhammad Ayaz, Manzoor Ahmad and Abdul Latif: **Neurologically potent molecules from *Crataegus oxycantha*; isolation, anticholinesterase inhibition and molecular docking.** *Frontiers in Pharmacology*, **2017**, *8*, 327. (IF 5.988)
45. Anwar Zeb, Farhat Ullah, Muhammad Ayaz, Sajjad Ahmad and **Abdul Sadig\***: **Demonstration of biological activities of extracts from *Isodon rugosus* Wall. Ex Benth. Separation and identification of bioactive phytoconstituents by GC-MS analysis in the ethyl acetate extract.** *BMC Complementary and Alternative Medicine*, **2017**, *17*, 284. (IF 4.782)
46. Muhammad Ayaz\*, Muhammad Junaid, Farhat Ullah, **Abdul Sadig**, Muhammad Shahid, Waqar Ahmad, Ihsan Ullah, Ashfaq Ahmad and Nawazish-i-Husain Syed: **GC-MS analysis and gastroprotective evaluations of crude extracts, isolated saponins and essential oil from *Polygonum hydropiper* L.** *Frontiers in Chemistry*, **2017**, *5*, 58. (IF 5.545)
47. Haroon Rahim, **Abdul Sadig\***, Shahzeb Khan, Mir Azam Khan, Syed Muhammad Hassan Shah, Zahid Hussain, Riaz Ullah, Abdelaaty Abdelaziz Shahat and Khalid Ibrahim: **Aceclofenac Nanocrystals with enhanced *in-vitro*, *in-vivo* performance: Formulation Optimization, Characterization, Analgesic and Acute Toxicity Studies.** *Drug Design, Development and Therapy*, **2017**, *11*, 2443. (IF 4.319)
48. Zul Kamal, Farhat Ullah, Sajjad Ahmad, Muhammad Ayaz\*, **Abdul Sadig**, Muhammad Imran, Shujat Ahmad, Faiz Ur Rahman and Awar Zeb: **Saponins and solvent extracts from *Atriplex laciniata* (L.) show high anthelmintic and insecticidal activity.** *Journal of Traditional Chinese Medicine*, **2017**, *37*, 1-2. (IF 2.547)
49. Muhammad Imran, Muhammad Raza Shah\*, Farhat Ullah, Shafi Ullah, **Abdul Sadig**, Imdad Ali, Farid Ahmed and Waqas Nawaz: **Double-tailed acyl glycoside niosomal nanocarrier for enhanced oral bioavailability of Cefixime.** *Artificial Cells, Nanomedicine, and Biotechnology*, **2017**, *45*, 1440-1450. (IF 6.355)
50. Muhammad Ayaz\*, Muhammad Junaid, Farhat Ullah, Fazal Subhan, **Abdul Sadig**, Gowhar Ali, Muhammad Ovais, Muhammad Shahid, Ashfaq Ahmad, Abdul Wadud, Mohamed El-Shazly, Nisar Ahmad and Sajjad Ahmad: **Anti-Alzheimer's studies on  $\beta$ -sitosterol isolated from *Polygonum hydropiper* L.** *Frontiers in Pharmacology*, **2017**, *8*, 697. (IF 5.988)



51. Muhammad Imran, Farhat Ullah\*, Muhammad Ayaz, **Abdul Sadiq**, Muhammad Raza Shah, Muhammad Saeed Jan and Farman Ullah: **Anticholinesterase and antioxidant potentials of *Nonea micrantha* Bioss. & Reut along with GC-MS analysis.** *BMC Complementary and Alternative Medicine*, **2017**, *17*, 499 (IF 4.782)
52. Fawad Mahmood, Muhammad Saeed Jan, Sajjad Ahmad, Umer Rashid, Muhammad Ayaz, Farhat Ullah, Fida Hussain, Ashfaq Ahmad, Arif Ullah Khan and Muhammad Aasim and **Abdul Sadiq\***: **Ethyl 3-oxo-2-(2,5-dioxopyrrolidin-3-yl)butanoate derivatives: Anthelmintic and cytotoxic potentials, antimicrobial and docking studies.** *Frontiers in Chemistry*, **2017**, *5*, 119 (IF 5.545)

## 2018

53. Sahibzada Muhammad Umar Khayam, **Abdul Sadiq\***, Hani S Faidah, Muhammad Khurram, Muhammad Usman Amin, Abdul Haseeb and Maria Kakar: **Berberine nanoparticles with enhanced in vitro bioavailability: characterization and antimicrobial activity.** *Drug Design, Development and Therapy*, **2018**, *12*, 303-312. (IF 4.319)
54. Muafia Jabeen, Sajjad Ahmad, Khadija Shahid, **Abdul Sadiq\*** and Umer Rashid: **Ursolic Acid Hydrazide Based Organometallic Complexes: Synthesis, Characterization, Antibacterial, Antioxidant and Docking Studies.** *Frontiers in Chemistry*, **2018**, *6*, 55. (IF 5.545)
55. Muafia Jabeen, Muhammad Iqbal Choudhry, Ghulam Abbas Miana, Khondaker Miraz Rahman, Umer Rashid, Hidayat-ullah Khan, Arshia and **Abdul Sadiq\***: **Synthesis, pharmacological evaluation and docking studies of progesterone and testosterone derivatives as anticancer agents.** *Steroids*, **2018**, *136*, 22-31. (IF 2.76)
56. **Abdul Sadiq\***, Anwar Zeb, Farhat Ullah, Sajjad Ahmad, Muhammad Ayaz, Umer Rashid and Noor Muhammad: **Chemical characterization, analgesic, antioxidant, and anticholinesterase potentials of essential oils from *Isodon rugosus* Wall. ex. Benth.** *Frontiers in Pharmacology*, **2018**, *9*, 623. (IF 5.988)
57. Muhammad Zahoor\*, Sadaf Shafiq, Habib Ullah, **Abdul Sadiq** and Farhat Ullah: **Isolation of quercetin and mandelic acid from *Aesculus indica* fruit and their biological activities.** *BMC Biochemistry*, **2018**, *19*, 5. (IF 4.5)
58. Haroon Rahim, **Abdul Sadiq**, Shahzeb Khan, Mir Azam Khan, Fazli Amin, Naeem Ullah Jan Muhammad Shahid, Muhammad Kifayatullah, Nasir Ali, Kamran Ahmad Chishti and Nadir Zaman Khan: ***Prunus armeniaca* and *Prunus domestica* Gums: Exploring their synergistic binding potential in tablets.** *Latin American Journal of Pharmacy*, **2018**, 1672-83. (IF 0.229)
59. Huma Aslam, Arif-ullah Khan, Humaira Naureen, Fawad Ali, Farhat Ullah and **Abdul Sadiq**: **Potential application of *Conyza canadensis* (L) Cronquist in the management of diabetes: in vitro and in vivo evaluation.** *Tropical Journal of Pharmaceutical Research*, **2018**, *17*, 1287-93 (IF 0.523)
60. Fatima Iftikhar, Farhana Yaqoob, Nida Tabassum, Muhammad Saeed Jan, **Abdul Sadiq**, Saba Tahir, Tahira Batool, Basit Niaz, Farzana Latif Ansari, Muhammad Iqbal Chaudhary and Umer Rashid: **Design, synthesis, in-vitro thymidine phosphorylase inhibition, in-vivo antiangiogenic and in-silico studies of C-6 substituted dihydropyrimidines.** *Bioorganic Chemistry*, **2018**, *80*, 99-111. (IF 5.307)
61. Muhammad Ovais, Nashmia Zia, Irshad Ahamd, Ali T Khalil, Abida Raza, Muhammad Ayaz, **Abdul Sadiq**, Farhat Ullah and Zabta Khan Shinwari: **Phyto-therapeutic and nanomedicinal approach to cure Alzheimer disease: present status and future opportunities.** *Frontiers in Aging Neuroscience*, **2018**, *10*, 284. (IF 5.702)

2019

62. Muhammad Ayaz, **Abdul Sadiq**, Abdul Wadood, Muhammad Junaid, Farhat Ullah and Nadir Zaman Khan: **Cytotoxicity and molecular docking studies on Phytosterols isolated from *Polygonum hydropiper* L.** *Steroids*, **2019**, *141*, 30-35. (IF 2.76)
63. Saba Tahir Tanoli, Muhammad Ramzan, Abbas Hassan, **Abdul Sadiq**, Muhammad Saeed Jan, Farhan A. Khan, Farhat Ullah, Haseen Ahmad, Maria Bibi, Tariq Mahmood and Umer Rashid: **Design, synthesis and bioevaluation of tricyclic fused ring system as dual binding site acetylcholinesterase inhibitors.** *Bioorganic Chemistry*, **2019**, *83*, 336-347. (IF 5.307)
64. Haroon Rahim, Sardar Ahmad, Kamran Ahmad Chishti, **Abdul Sadiq**, Shahzeb Khan, Naeem Ullah Jan, Muhammad Kifayatullah, Fazli Amin, Nasir Ali, Sudhair Abbas and Nadir Zaman Khan: **Comparative bioequivalence studies of various brands of ofloxacin available in the local market of Peshawar, Khyber Pakhtunkhwa, Pakistan.** *Latin American Journal of Pharmacy*, **2019**, *38*, 157-162. (IF 0.229)
65. Umar Farooq, Sadia Naz, Afshan Shams, Yasir Raza, Ayaz Ahmed, Umer Rashid and **Abdul Sadiq\***: **Isolation of dihydrobenzofuran derivatives from ethnomedicinal species *Polygonum barbatum* as anticancer compounds.** *Biological Research*, **2019**, *52*, 1. (IF 7.634)
66. Fawad Mahmood, Rahmat Ali, Muhammad Saeed Jan, Kamran Ahmad Chishti, Sajjad Ahmad, Anwar Zeb, Sajjad Ahmad, Muhammad Ayaz, Farhat Ullah, Muhammad Aasim, Nadir Zaman Khan, Haroon Rahim, Muafia Jabeen, Abu Nasar Siddique and **Abdul Sadiq\***: **Chemical characterization and analgesic potential of *Notholirion thomsonianum* extract.** *Latin American Journal of Pharmacy*, **2019**, *38*, 807-812. (IF 0.229)
67. Syed Majid Shah, Farhat Ullah, Muhammad Ayaz, **Abdul Sadiq**, Sajid Hussain, Azhar-ul-Haq Ali Shah, Syed Adan Ali Shah, Nazif Ullah, Farman Ullah, Ikram Ullah and Akhtar Nadhman: **Benzoic acid derivatives of *Ifloga spicata* (Forssk.) Sch.Bip. as potential anti-leishmanial against *Leishmania tropica*.** *Processes*, **2019**, *7*, 208. (IF 3.352)
68. Syed Majid Shah, Farhat Ullah, Muhammad Ayaz, **Abdul Sadiq**, Sajid Hussain, Azhar-ul-Haq Ali Shah, Syed Adnan Ali Shah, Abdul Wadood and Akhtar Nadhman:  **$\beta$ -Sitosterol from *Ifloga spicata* (Forssk.) Sch. Bip. as potential anti-leishmanial agent against *Leishmania tropica*: Docking and molecular insights.** *Steroids*, **2019**, *148*, 56-62. (IF 2.76)
69. Muhammad Ayaz, Farhat Ullah, **Abdul Sadiq**, Farman Ullah, Muhammad Ovais, Jawad Ahmad and Hari Prasad Devkota: **Synergistic interactions of phytochemicals with antimicrobial agents: Potential strategy to counteract drug resistance.** *Chemico-Biological Interactions*, **2019**, *308*, 294-303. (IF 5.168)
70. Muhammad Ayaz, **Abdul Sadiq**, Muhammad Junaid, Farhat Ullah, Muhammad Ovais, Ikram Ullah and Muhammad Shahid: **Flavonoids as neuroprotective and therapeutic agents against aging related neurological disorders.** *Frontiers in Aging Neuroscience*, **2019**, *11*, 155. (IF 5.702)
71. Fida Hussain, Zeeshan Khan, Muhammad Saeed Jan, Sajjad Ahmad, Ashfaq Ahmad, Umer Rashid, Farhat Ullah, Muhammad Ayaz and **Abdul Sadiq\***: **Synthesis, in-vitro  $\alpha$ -glucosidase inhibition, antioxidant, in-vivo antidiabetic and molecular docking studies of pyrrolidine-2,5-dione and thiazolidine-2,4-dione derivatives.** *Bioorganic Chemistry*, **2019**, *91*, 103128. (IF 5.307)

72. Haroon Rahim, **Abdul Sadig**, Shahzeb Khan, Fazli Amin, Riaz Ullah, Abdelaaty A Shahat and Hafiz Majid Mahmood: **Fabrication and characterization of glimepiride nanosuspension by ultrasonication-assisted precipitation for improvement of oral bioavailability and in-vitro  $\alpha$ -glucosidase inhibition.** *International Journal of Nanomedicine*, **2019**, *14*, 6287-6296 (IF 7.033)
73. **Abdul Sadig\***, Anwar Zeb, Sajjad Ahmad, Farhat Ullah, Muhammad Ayaz, Farman Ullah, Nawab Ali, Jamshaid Ahmad and Farhan A Khan: **Evaluation of crude saponins, methanolic extract and subsequent fractions from *Isodon rugosus* Wall. ex Benth: potentials of anti-angiogenesis in egg and anti-tumorigenesis in potato.** *Pakistan Journal of Pharmaceutical Sciences*, **2019**, *32*, 1971-1977. (IF 0.863)
74. Hussan Ara Begum, Fayaz Asad, **Abdul Sadig**, Shujaul Mulk and Kishwar Ali: **Antioxidant, antimicrobial activity and phytochemical analysis of the seeds extract of *Cucumis sativus* Linn.** *Pure and Applied Biology*, **2019**, *8*, 433-441.
75. Gulraiz Ahmad, Nasir Rasool, Komal Rizwan, Imran Imran, Ameer Fawad Zahoor, Muhammad Zubair, **Abdul Sadig** and Umer Rashid: **Synthesis, in-vitro cholinesterase inhibition, in-vivo anticonvulsant activity and in-silico exploration of N-(4-methylpyridin-2-yl)thiopene-2-carboxamide analogs.** *Bioorganic Chemistry*, **2019**, *92*, 103216. (IF 5.307)
76. Sajjad Ahmad, Farhat Ullah, Muhammad Ayaz, Ashfaq Ahmad, **Abdul Sadig** and Syed Nadeem-Ul-Hassan Mohani: **Nutritional and medicinal aspects of *Rumex hastatus* D. Don along with in vitro anti-diabetic activity.** *International Journal of Food Properties*, **2019**, *22*, 1733-1748. (IF 3.388)
77. Muhammad Saeed Jan, Muhammad Shahid, Sajjad Ahmad, Fida Hussain, Ashfaq Ahmad, Fawad Mahmood, Umer Rashid, Farhat Ullah, Nadir Zaman Khan, Muhammad Aasim, Muhammad Ayaz, Jahangir Khan, Abdullah, Haroon Rahim and **Abdul Sadig\***: **Synthesis of pyrrolidine-2,5-dione based anti-inflammatory drug: In vitro COX-2, 5-LOX inhibition and in vivo anti-inflammatory studies.** *Latin American Journal of Pharmacy*, **2019**, *38*, 2287-94. (IF 0.229)
78. Roheena Zafar, Habib Ullah, Muhammad Zahoor and **Abdul Sadig**: **Isolation of bioactive compounds from *Bergenia ciliate* (haw.) Sternb rhizome and their antioxidant and anticholinesterase activities.** *BMC Complementary and Alternative Medicine*, **2019**, *19*, 296. (IF 4.782)
79. Muhammad Ayaz, Farhat Ullah, **Abdul Sadig**, Myeong Ok Kim and Tahir Ali: **Editorial: Natural products-based drugs: potential therapeutics against Alzheimer's disease and other neurological disorders.** *Frontiers in Pharmacology*, **2019**, *10*, 1417. (IF 5.988)
80. Sajid Hussain, Farhat Ullah, **Abdul Sadig**, Muhammad Ayaz, Azhar-ul-Haq Ali Shah, Syed Adnan Ali Shah, Syed Majid Shah, Akhtar Nadhman, Farman Ullah, Abdul Wadood and Mohamed El-Shazly: **Cytotoxicity of *Anchusa arvensis* against HepG-2 cell lines: Mechanistic and computational approaches.** *Current Topics in Medicinal Chemistry*, **2019**, *19*, 2805-2813. (IF 3.57)
81. Ashfaq Ahmad, Farhat Ullah, **Abdul Sadig**, Muhammad Ayaz, Haroon Rahim, Umer Rashid, Sajjad Ahmad, Muhammad Saeed Jan, Riaz Ullah, Abdelaat A. Shahat and Hafiz Majid Mahmood: **Pharmacological evaluation of aldehydic-pyrrolidinedione against HCT-116, MDA-MB231, NIH/3T3, MCF-7 cancer cell lines, antioxidant and enzyme inhibition studies.** *Drug Design, Development and Therapy*, **2019**, *13*, 4185-4194. (IF 4.319)

82. Ahtaram Bibi, Tilawat Shah, **Abdul Sadig**, Naila Khalid, Farhat Ullah and Asma Iqbal: **L-isoleucine-catalyzed Michael synthesis of N-alkylsuccinimide derivatives and their antioxidant activity assessment**. *Russian Journal of Organic Chemistry*, **2019**, *55*, 1749-1754. (IF 0.862)

## 2020

83. Muhammad Ayaz, Irshad Ahmad, **Abdul Sadig**, Farhat Ullah, Muhammad Ovais, Ali Talha Khalil and Hari Prasad Devkota: **Persicaria hydropiper (L.) Delarbre: A review on traditional uses, bioactive chemical constituents and pharmacological and toxicological activities**. *Journal of Ethnopharmacology*, **2020**, *251*, 112516. (IF 5.195)
84. Muhammad Saeed Jan, Sajjad Ahmad, Fida Hussain, Ashfaq Ahmad, Fawad Mahmood, Umer Rashid, Farhat Ullah, Muhammad Ayaz and **Abdul Sadig\***: **Design, Synthesis, In-vitro, In-vivo and In-silico studies of Pyrrolidine-2,5-dione Derivatives as Multitarget Anti-inflammatory Agents**. *European Journal of Medicinal Chemistry*, **2020**, *186*, 111863. (IF 7.088)
85. Muhammad Umar Khayam Sahibzada, **Abdul Sadig**, Muhammad Zahoor, Sumera Naz, Muhammad Shahid and Najam Afaq Qureshi: **Enhancement of bioavailability and hepatoprotection by Silibinin through conversion to nanoparticles prepared by liquid antisolvent method**. *Arabian Journal of Chemistry*, **2020**, *13*, 3682-89. (IF 6.212)
86. Muafia Jabeen Amin, Ghulam Abbas Miana, Umer Rashid, Khondaker Miraz Rahman, Hidayat-ullah Khan, **Abdul Sadig\***: **SAR based in-vitro anticholinesterase and molecular docking studies of nitrogenous progesterone derivatives**. *Steroids*, **2020**, *158*, 108599. (IF 2.76)
87. Muhammad Yousaf, Momin Khan, Mumtaz Ali, Abdul Wadood, Ashfaq Ur Rehman, Muhammad Saeed Jan, **Abdul Sadig** and Faima Khan: **2-Mercaptobenzimidazole derivatives as novel butyrylcholinesterase inhibitors: Biology-oriented drug synthesis (BIODS), in-vitro and in-silico evaluation**. *Journal of the Chemical Society of Pakistan*, **2020**, *42*, 263-273. (IF 0.698)
88. Ashfaq Ahmad, Farhat Ullah, **Abdul Sadig\***, Muhammad Ayaz, Muhammad Saeed Jan, Muhammad Shahid, Abdul Wadood, Fawad Mahmood, Umer Rashid, Riazullah, Sahibzada Muhammad Umar Khayam, Ali S. Alqahtani and Hafiz Majid Mahmood: **Comparative cholinesterase,  $\alpha$ -glucosidase inhibitory, antioxidant, molecular docking and kinetic studies on potent succinimide derivatives**. *Drug Design, Development and Therapy*, **2020**, *14*, 2165-2178. (IF 4.319)
89. Rehman Zafar, Muhammad Zubair, Saqib Ali, Khadija Shahid, Wajeaha Waseem, Humaira Naureen, Ali Haider, Muhammad Saeed Jan, Farhat Ullah, Muhammad Sirajuddin and **Abdul Sadig\***: **Zinc metal carboxylates as potential anti-Alzheimer's candidate: in-vitro anticholinesterase, antioxidant and molecular docking studies**. *Journal of Biomolecular Structure & Dynamics*, **2020**, 1-11. (IF 5.235)
90. Farhat Ullah, Muhammad Ayaz, **Abdul Sadig**, Farman Ullah, Ishtiaq Hussain, Muhammad Shahid, Zhanibek Yessimbekov, Anjana Adhikari-Devkota, and Hari Prasad Devkota: **Potential role of plant extracts and phytochemicals against foodborne pathogens**. *Applied Sciences*, **2020**, *10*, 4597. (IF 2.838)
91. Abida Munir, Adil Khushal, Kiran Saeed, **Abdul Sadig**, Rahim Ullah, Gohar Ali, Zaman Ashraf, Ehsan Ullah Mughal, Muhammad Saeed Jan, Umer Rashid, Izhar Hussain and Amara Mumtaz: **Synthesis, in-vitro, in-vivo anti-inflammatory activities and molecular docking studies of acyl and salicylic acid hyrazide derivatives**. *Bioorganic Chemistry*, **2020**, *104*, 104168. (IF 5.307)

92. Haroon Rahim, **Abdul Sadiq**, Shahzeb Khan, Fazli Amin, Riaz Ullah, Abdelaaty A Shahat and Hafiz Majid Mahmood: **Fabrication and characterization of glimepiride nanosuspension by ultrasonication-assisted precipitation for improvement of oral bioavailability and in-vitro  $\alpha$ -glucosidase inhibition.** *International Journal of Nanomedicine*, **2020**, *15*, 6561-6562 (IF 7.033)
93. **Abdul Sadiq**, Thomas C. Nugent: **Catalytic access to succinimide products containing stereogenic quaternary carbons.** *ChemistrySelect*, **2020**, *5*, 11934-11938. (IF 2.307)
94. Haroon Rahim, **Abdul Sadiq**, Riaz Ullah, Ahmad Bari, Fazli Amin, Umar Farooq, Naeem Ullah Jan and Hafiz Majid Mahmood: **Formulation of aceclofenac tablets using nanosuspension as granulating agent: an attempt to enhance dissolution rate and oral bioavailability.** *International Journal of Nanomedicine*, **2020**, *15*, 8999-9009 (IF 7.033)
95. **Abdul Sadiq\***, Umer Rashid, Sadiq Ahmad, Mohammad Zahoor, Mohamed F AlAjmi, Riaz Ullah, Omar M Noman, Farhat Ullah, Muhammad Ayaz, Muhammad Iftikhar Khan, Zia-Ul Islam and Waqar Ali: **Treating hyperglycemia from *Eryngium caeruleum* M. Bieb: In-vitro  $\alpha$ -glucosidase, antioxidant, in-vivo antidiabetic and molecular docking-based approaches.** *Frontiers in Chemistry*, **2020**, *8*, 558641. (IF 5.545)
96. Fiaz Alam, Kinza Mohammad Din, Rukhba Rasheed, **Abdul Sadiq**, Muhammad Saeed Jan, Amber Mehmood Minhas and Arifullah Khan: **Phytochemical investigation, anti-inflammatory, antipyretic and antinociceptive activities of *Zanthoxylum armatum* DC extracts-in vivo and in vitro experiments.** *Heliyon*, **2020**, *6*, e05571. (IF 3.776)
97. Naveed Iqbal, Farhat Ullah, **Abdul Sadiq**, Muhammad Saeed Jan, Muhammad Shahid, and Muhammad Ayaz: **Cholinesterase's Enzymes Inhibition and Michaelis-Menten Kinetics Studies on Ethnomedically Important Plant *Chenopodium botrys*.** *Journal of Food Health and Bioenvironmental Science*, **2020**, *13*, 40-46.

## 2021

98. Xin Tong, Xiaoling Li, Muhammad Ayaz, Farhat Ullah, **Abdul Sadiq**, Muhammad Ovais, Muhammad Shahid, Mars Khayrullin and Ali Hazrat: **Neuroprotective studies on *Polygonum hydropiper* L. essential oils using transgenic animal models.** *Frontiers in Pharmacology*, **2021**, *11*, 580069. (IF 5.988)
99. Maria Bibi, Naveeda Akhter Qureshi, **Abdul Sadiq**, Umar Farooq, Abbas Hassan, Nargis Shaheen, Irfa Asghar, Duaa Umer, Azmat Ullah, Farhan Ahmad, Muhammad Salman, Ahtaram Bibi and Umer Rashid: **Exploring the ability of dihydropyrimidine-5-carboxamide and 5-benzyl-2,4-diaminopyrimidine-based analogues for the selective inhibition of L. major Dihydrofolate reductase.** *European Journal of Medicinal Chemistry*, **2021**, *210*, 112986. (IF 7.088)
100. Muhammad Umar Khayam Sahibzada, Muhammad Zahoor, **Abdul Sadiq**, Fazlur Rehman, Amal M. Al-Mohaimed, Muhammad Shahid, Sumaira Naz and Riaz Ullah: **Bioavailability and hepatoprotection enhancement of berberine and its nanoparticles prepared by liquid antisolvent method.** *Saudi Journal of Biological Sciences*, **2021**, *28*, 327-332. (IF 4.052)
101. Muhammad Bilal Tufail, Muhammad Aamir Javed, Muhammad Ikram, Mater H Mahnashi, Bandar A Alyami, Yahya S Alqahtani, **Abdul Sadiq\*** and Umer Rashid: **Synthesis, pharmacological evaluation and molecular modelling studies of pregnenolone derivatives as inhibitors of human dihydrofolate reductase.** *Steroids*, **2021**, 108801. (IF 2.76)
102. Mater H. Mahnashi, Bandar A. Alyami, Yahya S. Alqahtani, Muhammad Saeed Jan, Umer Rashid and **Abdul Sadiq\***: **Phytochemical profiling of bioactive**

- compounds, anti-inflammatory and analgesic potentials of *Habenaria digitata* Lindl.: molecular docking based synergistic effect of the identified compounds.** *Journal of Ethnopharmacology*, **2021**, 113976. (IF 5.195)
103. Sajjad Ahmad, Mater H. Mahnashi, Bandar A. Alyami, Yahya S. Alqahtani, Farhat Ullah, Muhammad Ayaz, Muhammad Tariq, **Abdul Sadiq\*** and Umer Rashid: **Synthesis of Michael adducts as key building blocks for potential analgesic drugs. In-vitro, in-vivo and in-silico explorations.** *Drug Design, Development and Therapy*, **2021**, *15*, 1299. (IF 4.319)
104. **Abdul Sadiq\***, Mater H. Mahnashi, Bandar A. Alyami, Yahya S. Alqahtani, Ali O. Alqarni, Umer Rashid: **Tailoring the substitution pattern of pyrrolidine-2,5-dione for discovery of new structural template for dual COX/LOX inhibition.** *Bioorganic Chemistry*, **2021**, 104969. (IF 5.307)
105. Rehman Zafar, Humaira Naureen, Muhammad Zubair, Khadija Shahid, Muhammad Saeed Jan, Samar Akhtar, Hammad Ahmad, Wajeeha Waseem, Ali Haider, Saqib Ali, Muhammad Tariq, **Abdul Sadiq\***: **Prospective application of two new pyridine based zinc (II) amide carboxylate in management of Alzheimer disease: synthesis, characterization, computational and in-vitro approaches.** *Drug Design, Development and Therapy*, **2021**, *15*, 2679-2694. (IF 4.319)
106. Muhammad Ayaz, Abdul Wadood, **Abdul Sadiq**, Farhat Ullah, Olga Anichkina and Mehreen Ghufuran: **In-silico evaluations of the isolated phytosterols from polygonum hydropiper L against BACE1 and MAO drug targets.** *Journal of Biomolecular Structure & Dynamics*, **2021**, 1-9. (IF 5.235)
107. Zainab, Khalid Saeed, Ammara, Shujaat Ahmad, Hanif Ahmad, Farhat Ullah, **Abdul Sadiq**, Ala Uddin, Idrees Khan and Manzoor Ahmad: **Green synthesis, characterization and cholinesterase inhibitory potential of gold nanoparticles.** *Journal of the Mexican Chemical Society*, **2021**, *65*, 416-423. (IF 0.869)
108. Rehman Zafar, Khadija Shahid, Lee D. Wilson, Muhammad Fahid, Majid Sartaj, Wajeeha Waseem, Muhammad Saeed Jan, Muhammad Zubair, Ali Irfan, Sami Ullah and **Abdul Sadiq\***: **Organotin (IV) complexes with sulphonyl hydrazide moiety. Design, synthesis, characterization, docking studies, cytotoxic and anti-leishmanial activity.** *Journal of Biomolecular Structure & Dynamics*, **2021**. (IF 5.235)
109. Mahnashi, Mater H., Yahya S. Alqahtani, Bandar A. Alyami, Ali O. Alqarni, Farhat Ullah, Abdul Wadood, **Abdul Sadiq**, Azam Shareef, and Muhammad Ayaz. **Cytotoxicity, anti-angiogenic, anti-tumor and molecular docking studies on phytochemicals isolated from Polygonum hydropiper L.** *BMC Complementary Medicine and Therapies*, **2021**, *21*, 239. (IF 2.838)
110. Mater H. Mahnashi, Bandar A. Alyami, Yahya S. Alqahtani, Ali O. Alqarni, Muhammad Saeed Jan, Muhammad Ayaz, Farhat Ullah, Muhammad Shahid, Umer Rashid and **Abdul Sadiq\***: **Neuroprotective potentials of selected natural edible oils using enzyme inhibitory, kinetic and simulation approaches.** *BMC Complementary Medicine and Therapies*, **2021**, *21*, 248. (IF 2.838)
111. Muhammad Aamir Javed, Nighat Ashraf, Muhammad Saeed Jan, Mater H. Mahnashi, Yahya S. Alqahtani, Bandar A. Alyami, Ali O. Alqarni, Yahya I. Asiri, Muhammad Ikram, **Abdul Sadiq\***, Umer Rashid: **Structural modification, in-vitro, in-vivo, ex-vivo and in-silico exploration of pyrimidine and pyrrolidine cores for targeting enzymes associated with neuroinflammation and cholinergic deficit in Alzheimer's disease.** *ACS Chemical Neuroscience* **2021** (IF 5.78)

112. Mater H Mahnashi, Yahya S Alqahtani, Ali O Alqarni, Bandar A Alyami, Muhammad Saeed Jan, Muhammad Ayaz, Farhat Ullah, Umer Rashid, **Abdul Sadiq\***: **Crude extract and isolated compounds from *Notholirion thomsonianum* (Royale) Stapf as multitargets antidiabetic agents: In-vitro and molecular docking approaches.** *BMC Complementary Medicine and Therapies*, **2021**, *21*, (IF 2.838)

## 2022

113. Mater H. Mahnashi, Bandar A. Alyami, Yahya S. Alqahtani, Ali O. Alqarni, Muhammad Saeed Jan, Muhammad Ayaz, Farhat Ullah, Umer Rashid and **Abdul Sadiq\***: **Molecular docking supported observed changes in anticholinesterase, antioxidant and  $\alpha$ -glucosidase inhibitions upon bromination of benzene sulfonamide.** *Journal of the Chemical Society of Pakistan*, **2022**, *44*, 69. (IF 0.698)
114. Mater H Mahnashi, Yahya S Alqahtani, Bandar A Alyami, Ali O Alqarni, Muhammad Ayaz, Mehreen Ghufuran, Farhat Ullah, **Abdul Sadiq**, Ihsan Ullah, Ikram Ul Haq, Mohammad Khalid and H C Ananda Murthy: **Phytochemical analysis,  $\alpha$ -glucosidase, amylase-inhibitory and molecular docking studies on *Persicaria hydropiper* L. leaves essential oils.** *Evidence-Based Complementary and Alternative Medicine*, **2022** (IF 2.65)
115. Mater H. Mahnashi, Yahya S. Alqahtani, Bandar A. Alyami, Ali O. Alqarni, Sultan A Alqahl, Farhat Ullah, **Abdul Sadiq**, Alam Zeb, Mehreen Ghufuran, Alexey Kuraev, Asif Nawaz and Muhammad Ayaz: **HPLC-DAD phenolics analysis,  $\alpha$ -glucosidase,  $\alpha$ -amylase inhibitory, molecular docking and nutritional profiles of *Persicaria hydropiper* L.** *BMC Complementary Medicine and Therapies*, **2022**, *22*, 26. (IF 2.838)
116. Mater H. Mahnashi, Bandar A. Alyami, Yahya S. Alqahtani, Ali O. Alqarni, Muhammad Saeed Jan, Rehman Zafar, Umer Rashid, Muhammad Abbas, Muhammad Tariq, Fida Hussain and **Abdul Sadiq\***: **Antioxidant molecules isolated from edible prostrate knotweed: Rational derivatization to produce more potent molecules.** *Oxidative Medicine and Cellular Longevity*, **2022**. (IF 7.31)
117. Iqra Ejaz, Muhammad Aamir Javed, Muhammad Saeed Jan, Muhammad Ikram, **Abdul Sadiq**, Sajjad Ahmad and Umer Rashid: **Rational design, synthesis, antiproliferative activity against MCF-7, MDA-MB-231 cells, estrogen receptors binding affinity, and computational study of indenopyrimidine-2,5-dione analogs for the treatment of breast cancer.** *Bioorganic & Medicinal Chemistry Letters*, **2022**, *64*, 128668. (IF 2.94)
118. Mater H. Mahnashi, Yahya S. Alqahtani, Bandar A. Alyami, Ali O. Alqarni, Mohammad Ahmed Alshrahili, Mahrous A. Abou-Salim, Mohammed N. Alqahtani, Sadaf Mushtaq, **Abdul Sadiq**, Muhammad Saeed Jan: **GC-MS analysis and various in-vitro, in-vivo pharmacological potential of *Habenaria plantaginea* Lidl.** *Evidence-Based Complementary and Alternative Medicine*, **2022** (IF 2.65)
119. Muhammad Ayaz, **Abdul Sadiq**, Osama F. Mosa, Tariq Abdalla Zafar, Alshary Adam Eisa Hamdoon, Modawy Alnour Khalifa, Mohamed Ahmed Elawad, Alshebli Abdelnabi Sharaf El-dein, Farhat Ullah, Mehreen Ghufuran and Atul Kabra: **Antioxidant, enzyme inhibitory and molecular docking approaches to the anti-diabetic potentials of bioactive compounds from *Persicaria hydropiper* L.** *Evidence-Based Complementary and Alternative Medicine*, **2022** (IF 2.65)
120. Mohammed A. Huneif, Dhafer Batti Alshehri, Khaled S. Alshaibari, Mayasa Z Dammaj, Mater H. Mahnashi, Safi Ullah Majid, Muhammad Aamir Javed, Sajjad Ahmad, Umer Rashid and **Abdul Sadiq\***: **Design, synthesis and bioevaluation of new**

- vanillin hybrid as multitarget inhibitor of  $\alpha$ -glucosidase,  $\alpha$ -amylase, PTP-1B and DPP4 for the treatment of Type-II diabetes. *Biomedicine and Pharmacotherapy*, **2022**, 150, 113038. (IF 7.419)
121. **Abdul Sadiq\***, Mater H. Mahnashi, Umer Rashid, Muhammad Saeed Jan, Mohammed Abdulrahman Alshahrani and Mohammed A. Huneif: **3-(((1S,3S)-3-((R)-hydroxy(4-(trifluoromethyl)phenyl)methyl)-4-oxocyclohexyl)methyl)pentane-2,4-dione: design and synthesis of new stereopure multi-target antidiabetic agent.** *Molecules*, **2022**, 27, 3265. (IF 4.927)
122. Mohammed A. Huneif, Seham M. Alqahtani, Alqahtani Abdulwahab, Sultan A. Almedhesh, Mater H. Mahnashi, Muhammad Riaz, Najm Ur-Rahman, Muhammad Saeed Jan, Farhat Ullah, Muhammad Aasim and **Abdul Sadiq\***:  **$\alpha$ -Glucosidase,  $\alpha$ -amylase and antioxidant evaluations of isolated bioactives from wild strawberry.** *Molecules*, **2022**, 27, 3444. (IF 4.927)
123. Fakhria A. Al-Joufi, Marwa Jan, Muhammad Zahoor, Nausheen Nazir, Sumaira Naz, Muhammad Talha, **Abdul Sadiq**, Asif Nawaz and Farhat Ali Khan: ***Anabasis articulata* (Forssk.) Moq: a good source of phytochemical having antibacterial, antioxidant, and antidiabetic potential.** *Molecules*, **2022**, 27, 3526. (IF 4.927)
124. Muhammad Ayaz, Asif Nawaz, Sajjad Ahmad, , Osama F. Mosa, Alashary Adam Eisa Hamdoon, Modawy Alnour Khalifa, **Abdul Sadiq**, Farhat Ullah, Abdul Wadood, Atul Kabra and H.C Ananda Murthy: **Underlying anti-cancer mechanisms and Synergistic combinations of phytochemicals with cancer chemotherapeutics: Potential Benefits and Risks.** *Journal of Food Quality*, **2022** (IF 3.2)
125. Bandar A. Alyami, Iqra Ejaz, Mater H. Mahnashi, Yahya S. Alqahtani, Ali O. Alqarni, Muhammad Saeed Jan, **Abdul Sadiq** and Umer Rashid: **Design, synthesis, antiproliferative activity, estrogen receptors binding affinity of C-3 pregnenolone-dihydropyrimidine derivatives for the treatment of breast cancer.** *Steroids*, **2022** 109059. (IF 2.76)
126. Mater H. Mahnashi, Yahya S. Alqahtani, Ali O. Alqarni, Bandar A. Alyami, Omaish S. Alqahtani, Muhammad Saeed Jan, Fida Hussain, Zia Ul Islam, Farhat Ullah, Muhammad Ayaz, Muhammad Abbas, Umer Rashid and **Abdul Sadiq\***: **Phytochemistry, anti-diabetic and antioxidant potentials of *Allium consanguineum* Kunth.** *BMC Complementary Medicine and Therapies*, **2022**, 22, 154. (IF 2.838)
127. Yahya S. Alqahtani, Muhammad Saeed Jan, Mater H. Mahnashi, Bandar A. Alyami, Ali O. Alqarni, Umer Rashid, Fawad Mahmood, Muhammad Tariq and **Abdul Sadiq\***: **Anti-inflammatory potentials of  $\beta$ -ketoester derivatives of N-ary succinimides: *In vitro*, *in vivo* and molecular docking studies.** *Journal of Chemistry*, **2022**, (IF 3.241)
128. Muhammad Ayaz, Tahir Ali, **Abdul Sadiq**, Farhat Ullah and Muhammad Imran Naseer: **Editorial: Current trends in medicinal plant research and neurodegenerative disorders.** *Frontiers in Pharmacology*, **2022**, (IF 5.988)
129. Fawad Mahmood, Jamshaid Ali Khan, Mater H. Mahnashi, Muhammad Saeed Jan, Muhammad Aamir Javed, Umer Rashid, **Abdul Sadiq\***, Syed Shams ul Hassan and Simona Bungau: **Anti-inflammatory, analgesic and antioxidant potential of new (2S,3S)-2-(4-isopropylbenzyl)-2-methyl-4-nitro-3-phenylbutanals and their corresponding carboxylic acids through in-vitro, in-silico and in-vivo studies.** *Molecules*, **2022**,. (IF 4.927)



### Organizing role in Conferences

- 1<sup>st</sup> National Conference on “Emerging Trends in Pharmaceutical Sciences”, 9-11 Oct, **2017**, University of Malakand, Pakistan.
- International Conference on “Chemical & Pharmaceutical Sciences: Recent Approaches in Research and Applications”, 17-19 Jan, **2018**, Forman Christian College University, Lahore, Pakistan.
- Member of Scientific Committee of "Pharmacology & Toxicology" in 3<sup>rd</sup> Asian Conference on Science, Technology & Medicine (ACSTM) to be held in Dubai, UAE, February 12-14, **2019**.

### Invited Speaker in Conferences

- **1<sup>st</sup> Invention to Innovation Summit** in Haripur University, Oct **2015**, Pakistan.
- **3<sup>rd</sup> Invention to Innovation Summit** in University of Engineering and Technology, Peshawar, Nov, **2017**, Pakistan.
- 2<sup>nd</sup> International Conference on “**Recent Innovations in Pharmaceutical Sciences**”, 15-16 Nov, **2017**, Riphah Institute of Pharmaceutical Sciences, Islamabad, Pakistan.
- 1<sup>st</sup> International Conference on “**Advances in Drug Discovery and Development**”, 3-5 Jan **2018**, Department of Biochemistry, Abdul Wali Khan University Mardan, Pakistan.
- International Conference on “**Chemical & Pharmaceutical Sciences: Recent Approaches in Research and Applications**”, 17-19 Jan, **2018**, Forman Christian College University, Lahore, Pakistan.
- International conference on “**Microbiology & Molecular Genetics**” 7-9 February, **2018**, Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore, Pakistan.
- 1<sup>st</sup> National Conference on “**Recent Innovations in Medicinal Chemistry and Biochemistry**” 20-22 February, 2018, Department of Chemistry, University of Science & Technology Bannu, Bannu, KP, Pakistan.
- 1<sup>st</sup> International Conference on “**Strategies for Therapeutics, Control and Prevention of Dengue and other Infectious Diseases in Pakistan**”, 1-2 Mar **2018**, University of Swabi, Pakistan.
- 3<sup>rd</sup> Asian Conference on Science, Technology & Medicine (ACSTM) to be held in Dubai, UAE, February 12-14, 2019.

### Best Poster Awards in Conferences

- Ashfaq Ahmad, Farhat Ullah, Muhammad Ayaz, Abdul Sadiq\*: **Synthesis, cholinesterases inhibitions and antioxidant evaluation of aldehyde derivatives of succinimides**. 1<sup>st</sup> National Conference on Emerging Trends in Pharmaceutical Sciences, 9-11 Oct, **2017**, University of Malakand, Pakistan.
- Fawad Mahmood, Muhammad Saeed Jan, Umar Rashid, Sajjad Ahmad, Farhat Ullah, Muhammad Ayaz, Farman Ullah, Kamran Ahmad Chishti, Muhammad Aasim, Muafia Jabeen and Abdul Sadiq\*: **Synthesis, in-vitro and in-silico antibacterial, cytotoxic and anthelmintic studies on Ethyl 3-oxo-2-(2,5-dioxopyrrolidin-3-yl)butanoate derivatives**. International Conference on “Chemical & Pharmaceutical Sciences: Recent Approaches in Research and Applications”, 17-19 Jan, **2018**, Forman Christian College University, Lahore, Pakistan.
- Ashfaq Ahmad, Farhat Ullah, Abdul Sadiq\*, Muhammad Ayaz, Kamran Ahmad Chishti: **Neuropharmacological and anticancer potentials of newly synthesized Aldehyde**

**derivatives of Succinimides.** International Conference on "Exploring New Avenues for Pharmacy Profession" 12-13 Feb, **2018**, BZU, Multan, Pakistan.

### **References**

**Can be provided upon request**