

Research Publications (2018 – 2022)
Department of Pharmacognosy
Faculty of Pharmacy and Pharmaceutical Sciences
University of Karachi

2022--- 16 Research Papers

1. Javeria Farooq, Sheikh Abdul Khaliq, Faiza Ghuman, Javeria Sheikh, **Iqbal Azhar**. Study on allopathic and alternative treatments of asthma and factors influencing treatment choices. Evidence-based Complementary and Alternative medicine, 2022 : 4699414, 2022.
2. Nausheen Hameed Siddiqui, Shumaila Qadir, Shariq Ali Mohsin , Irfan Ahmed , **Iqbal Azhar** , Zafar Alam Mahmood. Effect of pH and heating techniques on extraction of pectin from different sources available in Pakistan, Carpathian Journal of Food Science and Technology, 14 (1): 207-217, 2022.
3. **Safia Abidi** , Sara Naqvi, Hania Kauser, Uzma Asad , Tayyaba Mumtaz, Areesha Anwar. Moisturizing and glowing effect of rose water. Journal of Xi'an Shiyou University, 18(10): 874-886, 2022.
4. **Safia Abidi**, Sobia Salman, Faizah Mughal, Suleha Jabeen, Sumreen Mujahid, Zafar Alam Mahmood, Salman Tariq Khan, Abdul Hafeez Laghari, AishaNelofar, Syed Waleed Ahmed Bokhari. Estimation of volatile constituents in rose water by HS-GC-MS and studies on safety profile and cytotoxicity. Journal of Xi'an Shiyou University, 18(9): 675-689, 2022.
5. Sumreen Mujahid, **Safia Abidi**, Shaima Sultana Memon, Muneeza Lodhi, Muhammad Aitmaud and Tajwar Sultana. Evaluation of Analgesic Activityof the ethanolic extract of *Butea monosperma* flower in albino wistar mice. Journal of Xi'an Shiyou University, 18(9):144-150, 2022.
6. Saima Athar, Lubna Faisal, Zia ul Islam, Asma Basharat, **Muhammad Mohtasheemul Hasan**, Bushra Shaikh. Effect of *Berberis vulgaris* fruit extract on gentamicin induced histopathological changes in liver of Albino rats. Rawal Medical Journal, 47(2): 485-489, 2022.
7. Erum Shah, Tehseen Quds , Faheema Siddiqui , Syed Waleed Ahmed Bokhari , Nimra Mazhar , Ghazala Ishrat , **Muhammad Mohtasheemul Hasan**. Significance of Pharmacognosy: Students' Perspective. Research Journal of Pharmacognosy, 9(3): 35-42, 2022.
8. Nimra Mazhar, **Muhammad Mohtasheemul Hasan**, Sadia Ghouseia Baig, **Salman Ahmed**, Razia Jaffery, Rahila Ikram. Diuretic and anti-diarrheal potential of four fruit extracts of *Capsicum annum* L. Pakistan Journal of Pharmaceutical Sciences, 35(5): 1357-1362, 2022.

9. Saima Rubab, Ghazala Hafeez Rizwani, **Muhammad Mohtasheemul Hasan**, Arjumand Iqbal Durrani, Uzma Hanif, Muhammad Ajaib, Iram Liaqat, Ayesha Sadiqa, Ayesha Shafi and Farah Batool. Establishment of pharmacognostic standards of different morphological parts of *Camellia sinensis* L. grown in Pakistan. *Pakistan Journal Botany*, 54 (4): 1557 – 1565, 2022.
10. Wasif Iqbal, Shadman Andalib, Syed Nadeem ul Hasan Mohani, **Muhammad Mohtasheemul Hasan**, Muhammad Arman, Liaqat Ali. Elemental analysis of carrageenans isolated from *Hypnea musciformis* red algae of Karachi coast using SEM-EDX. *Pakistan Journal of Pharmaceutical Sciences*, 35(2): 561-570, 2022.
11. Muhammad Younus, **Muhammad Mohtasheem ul Hasan**, Shakeel Ijaz, Muhammad Kamran, Ambreen Maqsood, Bushra Saddique, Uzair Nisar, Muhammad Ashraf, Eman A. Mahmoud, Ahmed M. El-Sabrou, and Hosam O. Elansary. Investigation of *Euphorbia nivulia*-HAM for Enzyme Inhibition Potential in Relation to the Phenolic and Flavonoid Contents and Radical Scavenging Activity" *Life* 12(2): 321, 2022.
12. Hamdullah Khadim Sheikh, Tanzila Arshad , Uzma Habib , Zainab Sher Mohammad , Maaz Uddin Ahmed Siddiqui and **Muhammad Mohtasheemul Hassan**. Colorimetric chromophoric rapid detection of SARS-CoV-2 through breath analysis. *Pakistan Journal of Pharmaceutical Sciences*, 35(1): .157-160, 2022.
13. Syed Waleed Ahmed Bokhari, Hina Sharif, Syed Muhammad Umer Gilani, Syed Tahir Ali, **Salman Ahmed**, Maaz Uddin Ahmed Siddiqui and **Muhammad Mohtasheemul Hasan**. Pharmacognostic and phytochemical study of the flowers of *Cordia sebestena* L. *Pakistan Journal of Pharmaceutical Sciences*, 35(1): 069-076, 2022.
14. **Salman Ahmed**, Waqas Alam, Michael Aschner, Khalaf F. Alsharif, Ashraf Albrakati, Luciano Saso and Haroon Khan. Natural products targeting the ATR-CHK1 signaling pathway in cancer therapy. *Biomedicine & Pharmacotherapy*, 155: 113797, 2022.
15. **Salman Ahmed**, Waqas Alam, Philippe Jeandet, Michael Aschner, Khalaf F. Alsharif, Luciano Saso, Haroon Khan. Therapeutic Potential of Marine Peptides in Prostate Cancer: Mechanistic Insights. *Marine Drugs*, 20:466, 2022.
16. **Salman Ahmed**, Haroon Khan, Sajad Fakhri, Michael Aschner , Wai San Cheang. Therapeutic potential of marine peptides in cervical and ovarian cancers. *Molecular and Cellular Biochemistry*, 477(2): 605 – 619, 2022.

2021--- 34 Research Papers

1. Tehseen Quds, **Maryam Ahmed**, Sadia Shakeel, Nusrat Jalbani, **Farah Mazhar**, **Iqbal Azhar**. Determination of the heavy metal contents of frequently used herbal products in Pakistan. *Tropical Journal of Pharmaceutical Reserch* 2021; 20(2): 377-382, 2021.
2. Shahlla Imam, Najma Shaheen, Safia Abidi, Humera Siddiqui, Wajiha Iffat, **Iqbal Azhar**. Moisturizing efficacy of a cream formulation containing fruit extracts for combating skin aging. *Latin American Journal of Pharmacy*, 40(9): 2099-2104, 2021.
3. Javeria Farooq, Sheikh Abdul Khaliq, **Iqbal Azhar**. Asthmatic patients preferences regarding frequency of physician consultation. *Saudi Pharmaceutical Journal*, 29(2): 201-205, 2021.
4. **Safia Abidi**, Sobia Gul and Zafar Alam Mahmood. Anti-Inflammatory activity of rose water extracted from the petals of *Rosa damascene* Mill. *Pakistan Journal of Pharmacology*, 38(1): 45-50, 2021.
5. Ishtiaq Jeelani, Hitoshi Abe, Allah Nawaz, Mrinalini Bhosale, Saeed Ahmad, Abeda Jamadar, Khursheed Ahmed, Tanzeela Qadir, Andleeb Amin, Praveen Kumar Sharma, **Safia Abidi**. Anti-cancer potential of natural products containing (6H-dibenzo[b,d]pyran-6-one) framework using docking tools. *Pakistan Journal of Pharmaceutical Sciences*, 34(5): 1995-2002, 2021.
6. **Safia Abidi**, Shahlla Imam, Farhana Tasleem, Syeda Rafia Zehra Rizvi, Sobia Salman, Umer Gilani, Zafar Alam Mahmood. Formulation and evaluation of natural antitussive cough syrups. *Pakistan Journal of Pharmaceutical Sciences*, 34(5):1707-1713, 2021.
7. Shahlla imam, Najma shaheen, **Safia abidi**, Humera siddiqui, **Iqbal Azhar**, Zafar Alam Mahmood. Moisturizing efficacy of a cream formulation containing fruit extracts for combating the skin aging. *Latin American Journal of Pharmacy*, 40 (9): 2099-2104, 2021.
8. Syeda Rafia Zehra Rizvi, Shahlla imam, **Safia abidi**, Zafar Alam Mahmood , **Iqbal Azhar**, Amir Hassan, Khadim Mohiuddin and Sohail Hassan. Antioxidant and Antitussive activity of *Cleome viscosa* L. seeds extract. *Latin American Journal of Pharmacy*, 40 (8): 1865-1872, 2021.
9. Rabia Munawwar, Subia Jamil, Sakina Fatima, Sana Sarfaraz, Sumira Ishaq, Humaira Siddiqui and **Safia Abidi**. Higher incidence of prescribing rates and utilization of broad spectrum cephalosporin in young patients: A retrospective observational study in a tertiary care hospital. *Pakistan journal of Pharmaceutical Sciences*,34 (SUP): 1103-1109, 2021.

10. **Safia Abidi**, Mufra Hasan, Aneela Mehboob, Tanveer Abbas, **Iqbal Azhar** and Zafar Alam Mahmood. Evaluation of microbial contamination in rose water samples extracted from *Rosa damascena* petals. *Journal of Pharmacognosy and Phytochemistry*, 10(2): 142-144, 2021.
11. Syed Muhammad Umer Gilani, Rifat Roshan, **Salman Ahmed**, **Muhammad Mohtasheemul Hasan**. Antitussive effect of aerial parts of *Caesalpinia pulcherrima* L. by sulfur dioxide induced cough in rats. *RADS Journal of Pharmacy and Pharmaceutical Sciences, Pakistan* 9(2): 109-112, 2021.
12. Nimra Mazhar, Sadia Ghousia Baig , **Salman Ahmed**, **Muhammad Mohtasheemul Hasan**, Amber Palla and Ghazala Ishrat. Analgesic and anti-inflammatory potential of four varieties of bell pepper (*Capsicum annum* L.) in rodents. *Pakistan Journal of Pharmaceutical Sciences*, 34(4):1369-1376, 2021.
13. **Salman Ahmed**, Haroon Khan, Hamed Mirzaei, **Muhammad Mohtasheemul Hasan**, Mohamed Eddouks and Maria Daglia. Herbal drug interaction: Mechanistic details through the pharmacokinetic portfolio. *CNS & Neurological Disorders - Drug Targets*, 20(8): 677 – 686, 2021.
14. Syed Muhammad Umer Gilani, Rifat Roshan, **Salman Ahmed**, **Muhammad Mohtasheemul Hasan**. Antitussive effect of aerial parts of *Caesalpinia pulcherrima* L. by sulfur dioxide induced cough in rats. *RADS Journal of Pharmacy and Pharmaceutical Sciences, Pakistan* 9(2): 109-112, 2021.
15. Muhammad Younus , **Muhammad Mohtasheemul Hasan**, Sajjad Ali, Bushra Saddq, Gulam Sarwar, Muhammad Irfan Ullah, Ambreen Maqsood, Sunny Ahmar, Freddy Mora-Poblete, Farazia Hassan, Jen-Tsung Chen , Ahmed Noureldeem, Hadeer Darwish. Extracts of *Euphorbia nivulia* Buch.-Ham. showed both phytotoxic and insecticidal capacities against *Lemna minor* L. and *Oxycarenus hyalinipennis* Costa. *PLoS ONE* 16(4): e0250118, 2021.
16. Afshan Yasmeen, Muhammad Ibrahim, **Muhammad Mohtasheemul Hasan**, Tahseen Jilani, Seema Shafique, Munawwer Rasheed. Phycochemical analyses and pharmacological activities of seven macroalgae of Arabian Sea (Northern coast line). *Pakistan Journal of Pharmaceutical Sciences*, 34(3): 963-969, 2021.
17. Faraz Saleem, Muhammad Owais Ismail, Zahida Memon, Kausar Aamir, Akhtar Ali, **Muhammad Mohtasheemul Hasan**. *Coriandrum sativum*: A Successful Treatment for Depression Compared to Fluoxetine (An Animal Study). *Pakistan Journal of Medicine and Dentistry*, 10 (2): 55 – 60, 2021.
18. Shadab Ahmed, Sameeta Maalik , Tabbassum Zehra , Sadia Ghousia Baig , Sadaf Zehra and **Muhammad Mohtasheemul Hasan**. Preclinical assessment of analgesic, anti-inflammatory and antipyretic potential of *Fragaria ananassa* and *Actinidia deliciosa* fruit extract. *Pakistan Journal of Pharmaceutical Sciences*, 34(2): 521-527, 2021.

19. Salma Sabir , Sadia Ghousia Baig, **Muhammad Mohtasheemul Hasan** , Afshan Siddiq , **Salman Ahmed** and Syeda Anum Fatima. The anti-depressant activity of fixed oil of *Phaseolus vulgaris* Linn. in mice. Pakistan Journal of Scientific and Industrial Research Series A: Physical Sciences, 64(1):1-5, 2021.
20. Aaqiba Rasheed , Nadia Younus , Nausheen Adnan , Naureen Waseem , Lubna Faisal , Tayyaba Kazmi , **Muhammad Mohtasheemul Hasan** , M. Omar Shamim , Munair Badshah. Histomorphological effects of *Withania somnifera* root extract against Cisplatin induced renal lesions. Pakistan Journal of Medical and Health Sciences, 15(2): 235-239, 2021.
21. Hamdullah Khadim Sheikh , Tanzila Arshad, Zainab Sher Mohammad, **Muhammad Mohtasheemul Hasan** and Mehdi Hasan Kazmi. Dual functional azo polysiloxane dyes for polyester: synthesis and application. Bulgarian Chemical Communications, 52(4):481-487, 2021.
22. Hamdullah Khadim Sheikh , Tanzila Arshad, Zainab Sher Mohammad, Iqra Arshad and **Muhammad Mohtasheemul Hasan**. Repurposed drug molecules for serine protease and spike glycoprotein of SARS-CoV-2. International Journal of Biology and Biotechnology, 18(1):11-15, 2021.
23. Hamdullah Khadim Sheikh, Tanzila Arshad, Zainab Sher Mohammad , Iqra Arshad and **Muhammad Mohtasheemul Hasan**. Differential binding of repurposed HIV protease inhibitors for SARS-CoV-2. International Journal of Biology and Biotechnology 18(1):5-9, 2021.
24. Muhammad Younus , **Muhammad Mohtasheemul Hasan** , Khalil Ahmad , Ihsanul Haq , Rizwan Ahmad , Bakht Nasir , Adnan Amin , Jafir Hussain Shirazi , Muhammad Hanif , Ghazala Shaheen , Syeda Abida Ejaz and Ume Habiba. Evaluation of Hepato-protective and Nephron- Protective Potential of *Euphorbia nivulia* Buch.-Ham. Against Carbon Tetrachloride-induced Toxicity in Sprague Dawley Rats. Journal of Pharmaceutical Research International, 33(21A):83-100, 2021.
25. Memona Fatima, **Salman Ahmed**, Maaz Uddin Ahmed Siddiqui and **Muhammad Mohtasheemul Hasan**. Medicinal uses, phytochemistry and pharmacology of *Bauhinia racemosa* Lam. Journal of Pharmacognosy and Phytochemistry, 10 (2): 121-124, 2021.
26. Anum Kalim, Mehreen Zaheer, Maaz Uddin Ahmed Siddiqui, **Salman Ahmed** and **Muhammad Mohtasheemul Hasan**. Nutritional value, Ethnomedicine, Phytochemistry and pharmacology of *Vigna radiata* (L.) R. Wilczek. Journal of Pharmacognosy and Phytochemistry, 10 (2): 54-58, 2021.

27. Rifat Roshan, **Salman Ahmed** and **Muhammad Mohtasheemul Hasan**. *Arenaria serpyllifolia* L.: A review of medicinal uses, phytochemistry and pharmacology. *World Journal of Pharmacy and Pharmaceutical Sciences*, 10 (3):157-164, 2021.
28. **Salman Ahmed**, Mehreen Zaheer, Imran Ahsan Mallick and **Muhammad Mohtasheemul Hasan**. Choloretic and cholagogic effects of anti-cholelithiatic plants. *Journal of Pharmacognosy and Phytochemistry*, 10 (2): 01-07, 2021.
29. **Salman Ahmed**, Maaz Uddin Ahmed Siddiqui, Imran Ahsan Mallick and **Muhammad Mohtasheemul Hasan**. Zootherapeutics (Animal-based remedies) for urolithiasis: History, current scenario and future dimensions. *Journal of Pharmacognosy and Phytochemistry, India*, 10 (2): 08-11, 2021.
30. Syed Farhan Abbas Naqvi, Sheikh Abdul Khaliq, Muhammad Liaquat Raza, Ale Zehra, Maaz uddin Ahmed Siddiqui and **Muhammad Mohtasheemul Hasan**. A comparative study of the common complaints and secondary complications in patients of osteoarthritis on allopathic, homeopathic and herbal system of medicines. *Pakistan Journal of Pharmaceutical Sciences*, 34(1) (Suppl): 447-453, 2021.
31. **Salman Ahmed**, **Muhammad Mohtasheemul Hasan**, Michael Aschner, Hamed Mirzaei, Waqas Alam, Syed Muhammad Mukarram Shah and Haroon Khan. Therapeutic potential of marine peptides in glioblastoma: Mechanistic insights. *Cellular Signalling*, 87: 110142, 2021.
32. **Salman Ahmed**, Hamed Mirzaei, Michael Aschner, Ajmal Khan, Ahmed Al-Harrasi and Haroon Khan. Marine peptides in breast cancer: Therapeutic and mechanistic understanding. *Biomedicine & Pharmacotherapy*, 142: 112038, 2021.
33. Memona Fatima, **Salman Ahmed**, Maaz Uddin Ahmed Siddiqui and **Muhammad Mohtasheemul Hasan**. Medicinal uses, phytochemistry and pharmacology of *Bauhinia racemosa* Lam. *Journal of Pharmacognosy and Phytochemistry*, 10 (2): 121-124, 2021.
34. Mehreen Zaheer, Anum Kalim, Maaz Uddin Ahmed Siddiqui and **Salman Ahmed**. *Vigna trilobata* (L.) Verdc: a review of medicinal uses, phytochemistry and pharmacology. *Journal of Pharmacognosy and Phytochemistry*, 10 (2): 118-120, 2021.

2020--- 16 Research Papers

1. Muhammad Tanveer Khan, **Iqbal Azhar**, Noureen Shehzadi, Khalid Hussain, Sajida Perveen, Uzma Hanif. Morphological, microscopic, and physicochemical studies of *Diospyros montana*. *Microscopy Research and Technique*, 83(10): 1260-1281, 2020.
2. Muhammad Asif Wazir, **Iqbal Azhar**, Zafar Alam Mahmood, Imran Qadri, M. Younus Khan, Faheem Ahmed Siddiqui, Talal Shaheer, Waqar Hussain, Khizer Abbas. Pharmacognostic, phytochemical, biological and spectroscopic analyses of *Copparies deciduas* (Fork.) Edgw roat and stem bark: *Tropical Journal of Pharmaceutical Research*, 19(12):2668-2676, 2020.
3. Hamdullah Khadim Sheikh, Tanzila Arshad, Zainab Sher Mohammad, Isra Khalil Moussa, Rafia Usman and **Muhammad Mohtasheemul Hasan**. Derivatives of diisopropyl phenoxyphosphate with controlled reactivity for enhancement of Acetylcholine (ACh) neurotransmitter. *Pakistan Journal of Pharmaceutical Sciences*, 33(5) (Suppl): 2239-2242, 2020.
4. Hamdullah Khadim Sheikh, Tanzila Arshad, Maria Merajoddin, Zainab Sher Mohammad, Rafia Usman and **Muhammad Mohtasheemul Hasan**. Docking analysis of aryl derivatives of diepoxide alkylating agents. *Pakistan Journal of Pharmaceutical Sciences*, 33(5): 2017-2021, 2020.
5. Muhammad Younus, **Muhammad Mohtasheemul Hasan**, Sadia Khalil, Bushra Saddiq, Khalil Ahmad, Qazi Adnan Jamil, Jafir Hussain Shirazi, Muhammad Hanif, Muhammad Sajid-ur-Rehman, Kashif-ur-Rehman Khan, Muhammad Imran Aziz. Phytochemical, antimicrobial and time-kill kinetics potentials of *Euphorbia nivulia* Buch.-Ham.: A Cholistan desert medicinal plant. *Pakistan Journal of Pharmaceutical Sciences*, 33(5) special: 2461-2469, 2020.
6. Muhammad Younus , **Muhammad Mohtasheem ul Hasan**, Khalil Ahmad, Ali Sharif, Hafiz Muhammad Asif, Muhammad Rahil Aslam , Ihsan ul Haq and Zulfiqar Ahmad. α -Glucosidase Inhibitory, Anti-Oxidant, and Anti-Hyperglycemic Effects of *Euphorbia nivulia*-Ham. in STZ-Induced Diabetic Rats. Dose-Response, July 2020: 1-10. [10.1177/1559325820939429](https://doi.org/10.1177/1559325820939429) .
7. **Safia abidi**, Umer gilani, Raffia Zehra. Extraction and analysis of caffeine from various brands of tea leaves marketed in Pakistan. *Journal of Pharmacognosy and Phytochemistry*, 9(1): 09-10, 2020.
8. **Salman Ahmed**, Mehreen Zaheer and **Muhammad Mohtasheemul Hasan**. Gall stone dissolving plants: A concise review. *Journal of Pharmacognosy and Phytochemistry*, India, 9 (6): 36-40, 2020.

9. Syed Waleed Ahmed Bokhari, Sabiha Gul, Rida Fatima, Sana Sarfaraz, **Muhammad Mohtasheemul Hasan**, and Afshan Abbas. Antiemetic Effect of Fruit Extracts of *Trapa bispinosa* Roxb. in Chick Emesis Model. Journal of Pharmaceutical Research International, 32(33): 116-123, 2020.
10. **Salman Ahmed, Muhammad Mohtasheemul Hasan**, Mojtaba Heydari, Abdur Rauf, Saud Bawazeer, Tareq Abu-Izneid, Maksim Rebezov, Mohammad Ali Shariati, Maria Daglia and Kannan RR. Rengasamy. Therapeutic potentials of crocin in medication of neurological disorders. Food and Chemical Toxicology, 145: 111739, 2020.
11. Mehreen Zaheer, **Salman Ahmed** and **Muhammad Mohtasheemul Hasan**. A review of medicinal uses, phytochemistry and pharmacology of *Vigna mungo* (L.) Hepper. Journal of Pharmacognosy and Phytochemistry, India, 9 (1): 1307-1309, 2020.
12. Anum Kaleem, **Salman Ahmed** and **Muhammad Mohtasheemul Hasan**. *Vigna aconitifolia* (Jacq.) Marechal. (Papilionaceae): A review of medicinal uses, Phytochemistry and pharmacology. Journal of Pharmacognosy and Phytochemistry, 9 (1): 1353-1355, 2020.
13. Mehreen Zaheer, Salman Ahmed and **Muhammad Mohtasheemul Hasan**. *Vigna unguiculata* (L.) Walp. (Papilionaceae): A review of medicinal uses, Phytochemistry and pharmacology. Journal of Pharmacognosy and Phytochemistry, India, 9 (1): 1349-1352, 2020.
14. **Salman Ahmed**, Haroon Khan, Michael Aschner, Hamed Mirzae, Esra Küpeli Akkol and Raffaele Capasso. Anticancer Potential of Furanocoumarins: Mechanistic and Therapeutic Aspects. International Journal of Molecular Sciences, 21: 5622, 2020.
15. Devina Lobine, **Salman Ahmed**, Michael Aschner, Haroon Khan, Hamed Mirzaei Mohamad F. Mahomoodally. Antiuro lithiatic effects of pentacyclic triterpenes: The distance traveled from therapeutic aspects. Drug Development Research, 81:671-684, 2020.
16. **Salman Ahmed**, Arman Zargar. Contributions of Avicenna to Surgery and Anesthesiology. Acta Chirurgica Belgica, 120 (3): 204-211, 2020.

2019--- 12 Research Papers

1. Syed Muzammil Ahmad, **Iqbal Azhar**, Darakshan Masroor and Nadia Ahmed Preference of Herbal Therapies: Cost of illness and cost Benefit Analysis for Major Disease in the City of Karachi, Pakistan. Indian Journal of Pharmaceutical Sciences, 81(5): 855-891, 2019.
2. Najma Shaheen, Shahlla Imam, Rafi Akhter Sultan, Safiq Abidi, **Iqbal Azhar** and Zafar Alam Mahmood. Pharmacognostic evaluation and instrumental analysis (SEM) for the standardization of *Piper nigrum* L. (black paper) fruit Pakistan Journal of Botany, 51(5): 1859-1863, 2019.

3. Syed Muzammil Ahmad, Darakshan Masroor, **Iqbal Azhar**, Nadia Ahmed Retrospective cost-utility and budget impact assessments of *Hypericum Perforatum* in contract with fluoxetine treatment for depression in Karachi, Pakistan. *Brazilian Journal of Pharmaceutical Sciences*, 55(3): e17210, 2019.
4. Shumaila Qadir, **Safia Abidi**, **Iqbal Azhar**, and Zafar Alam Mahmood. Antioxidant activity and cytotoxicity of pectin extracted from orange peels. *Pakistan Journal of Pharmacology*, 36 (1 & 2): 14-23, 2019.
5. **Safia Abidi**, Aamir Zaidi, **Iqbal Azhar**, Rafi Akhtar Sultan, and Zafar Alam Mahmood. Assessment of Rose Water and evaluation of antioxidant and antiinflammatory properties of rose water based cream formulation. *International journal of Pharmaceutical and Clinical Research*, 11(1): 43-48, 2019.
6. Rifat Roshan, **Salman Ahmed** and **Muhammad Mohtasheemul Hasan**. *Fragaria nubicola* (Rosaceae): A review of medicinal uses, phytochemistry and pharmacology, *India*, 8 (4): 3390-3393, 2019.
7. Syed Muhammad Umer Gilani, **Salman Ahmed**, Sadia Ghousia Baig and **Muhammad Mohtasheemul Hasan**. Ethnopharmacognosy, phytochemistry and pharmacology of genus *Caesalpinia*: A review. *Journal of Pharmacognosy and Phytochemistry, India*, 8 (4): 2222-2229, 2019.
8. Steven Neau, Khalid Alkharfy, **Muhammad Mohtasheemul Hasan**, Sharonia Butt and Syed Muhammad Fareed Hasan. Directly compressed rosuvastatin calcium tablets that offer hydrotropic and micellar solubilization for improved dissolution rate and extent of drug release. *Saudi Pharmaceutical Journal*, 27(5): 619-628, 2019.
9. Muhammad Younus, **Muhammad Mohtasheemul Hasan**, Muhammad Sajid ur Rehman, Khizer Abbas and Ghulam Sarwar. Pharmacognostic and physicochemical screening of *Euphorbia nivulia* Buch.-Ham. *Pakistan Journal of Pharmaceutical Sciences*, 32(3): 1111-1119, 2019.
10. **Salman Ahmed**, Haroon Khan, Michael Aschner, **Muhammad Mohtasheemul Hasan**, Sherif T.S.Hassan. Therapeutic potential of naringin in neurological disorders. *Food and Chemical Toxicology*, 132: 110646, 2019.
11. **Salman Ahmed**, Haroon Khan, Hamed Mirzaei. Mechanics insights of curcumin in myocardial ischemia: Where are we standing? *European Journal of Medicinal Chemistry*, 183: 111658, 2019.
12. **Salman Ahmed**, Haroon Khan, Deborah Fratantonio, **Muhammad Mohtasheemul Hasan**, Samin Sharifi, Nazanin Fathi, Hammad Ullah, Luca Rastrelli. Apoptosis induced by luteolin in breast cancer: Mechanistic and therapeutic perspectives. *Phytomedicine* 59: 152883, 2019.

2018--- 12 Research Papers

1. Nausheen Hameed Siddiqui, Syed Abid Ali, **Iqbal Azhar**, Omer Mukhtar Tarar and Zafar Alam Mahmood. Modulation of extraction variables of pectin from *Manilkarazapota* fruits peel, its bio characterization and comparative study using dynamic light scattering studies. *Journal of Separation Science and Technology*, 53(15): 2427-2434, 2018.
2. Tahseen Ahmed Khan, Mahmood Sheikh, **Iqbal Azhar** Abdul Khaliq Sheikh. Burn aggaraveted infected wart in a patient with Type 2 diabetes : A medical challenge *BMJ Case Report*. 2018 doi: 10:1136/bcr-2017-222897
3. Nausheen Hameed Siddiqui, **Iqbal Azhar**, Muhammad Shaiq Ali and Zafar Alam Mahmood. Physio-mechanical impect on yield of pectin extracted from relatively three new sources. *Pakistan Journal of Botany*, 50 (1): 251-257, 2018.
4. Amir Shadmani, Ghazala H. Rizwani and **Maryam Ahmed**. Potential anti-inflammatory effect of *Cissus quadrangularis* L. and *Lepidium sativum* L. along with their combination extracts. *Pakistan Journal of Pharmaceutical Sciences*, 31(5(Suppl)), 2119-2122, 2018.
5. Maria Ashfaq, Ali Akber Sial, Rabia Bushra, Atta-ur-Rehman, Mirza Tasawur Baig, Ambreen Huma and **Maryam Ahmed**. Spectrophotometric method development and validation for determination of chlorpheniramine maleate in bulk and controlled release tablets. *Pakistan Journal of Pharmaceutical Sciences*, 31(1(Suppl)): 353-358, 2018.
6. **Salman Ahmed, Muhammad Mohtasheemul Hasan**, Haroon Khan, Zafar Alam Mahmood and Seema Patel. The mechanistic insight of polyphenols in calcium oxalate urolithiasis mitigation. *Biomedicine & Pharmacotherapy*, 106: 1292-1299, 2018.
7. Javed Ashraf, Sadia Ghousia Baig, **Salman Ahmed, Muhammad Mohtasheemul Hasan**. Analgesic, anti-inflammatory and diuretic activities of *Macrotyloma uniflorum* (Lam.) Verdc. *Pakistan Journal of Pharmaceutical Sciences*, 31(5): 1859-1863, 2018.
8. Salma, Sadia Ghousia Baig, **Muhammad Mohtasheemul Hasan, Salman Ahmed**, Syeda Anum Fatima. Analgesic and anti-inflammatory effects of *Phaseolus vulgaris* L. fixed oil in rodents. *Journal of Basic and Applied Sciences*, Pakistan, 14 (1): 174-179, 2018.
9. Salma, Sadia Ghousia Baig, **Muhammad Mohtasheemul Hasan, Salman Ahmed**, Syeda Anum Fatima. The effect of *Phaseolus vulgaris* L. fixed oil on the behavioural activity of Swiss Albino mice. *RADS Journal of Pharmacy and Pharmaceutical Sciences*, Pakistan 6(1): 76-82, 2018.

10. Maryam Anis, Afshan Yasmeen, Sadia Ghousia Baig, **Salman Ahmed**, Munawwar Rasheed and **Muhammad Mohtasheemul Hasan**. Phycochemical and pharmacological studies on *Ulva fasciata* Delile. Pakistan Journal of Pharmaceutical Sciences, 31(3): 875-883, 2018.
11. Syeda Anum Fatima, Sadia Ghousia Baig, **Muhammad Mohtasheemul Hasan**, **Salman Ahmed** and Salma. Analgesic and anti-inflammatory activities of fixed oil of *Macrotyloma uniflorum* (Lam.) Verdc. in mice and rats. Pakistan Journal of Pharmaceutical Sciences, 31(2): 581-585, 2018.
12. Darakhshan Masroor, Sadia Ghousia Baig, **Salman Ahmed**, Syed Muzzammil Ahmad and **Muhammad Mohtasheemul Hasan**. Analgesic, anti-inflammatory and diuretic activities of *Cicer arietinum* L. Pakistan Journal of Pharmaceutical Sciences, 31(2): 553-558, 2018.