

Publications and Presentation List

Total Publications: 47;

Total Impact Factor: ~94;

Total Citations: 938

List of Published Papers

1. Ghulam Hussain, **Azhar Rasul**, Haseeb Anwar, Muhammad Umar Sohail, Aroona Razzaq, Nimra Aziz, Asghar Shabbir, Longbin Zhang, Tao Sun. Muhammad Ali. Role of plant-derived flavonoids and their mechanism attenuation in Alzheimer's and Parkinson's diseases: An update of recent data. *Molecules*. **2018**; 23, 814, doi:10.3390/molecules23040814. . IF: 2.861
2. Ghulam Hussain, **Azhar Rasul**, Haseeb Anwar, Nimra Aziz, Aroona Razzaq, Wei Wei, Muhammad Ali, Jiang Li, Xiaomeng Li, Role of plant derived alkaloids and their mechanism in neurodegenerative disorders. *International Journal of Biological Sciences*. **2018**; 14(3), 341-357. IF: 3.873
3. Muhammad Zafar, Iqra Sarfraz, **Azhar Rasul***, Faiza Jabeen, Khizar Samiullah, Ghulam Hussain, and Muhammad Ali. Tubeimoside-1, triterpenoid saponin, as a potential natural cancer killer. *Natural Product Communication*. **2018**; Accepted. IF: 0.88 (*As a corresponding Author).
4. Ammara Riaz, **Azhar Rasul***, Ghulam Hussain, Muhammad Kashif Zahoor, Farhat Jabeen, Zinayyera Subhani, Tahira Younis, and Muhammad Ali. Astragalin: A bioactive phytochemical with potential therapeutic activities. *Advances in Pharmacological Sciences*. **2018**; Accepted. (*As a corresponding Author)
5. Iqra Sarfraz, **Azhar Rasul***, Ammara Riaz, Zinayyera Subhani, Ghulam Hussain, Farhat Jabeen, Muhammad Ali. A review on phyto-pharmacology of *Oxalis corniculata*. *Life Science Journal: "Mitteilungen Klosterneuburg"*. **2018**; Accepted. IF: 0.106 (*As a corresponding Author)
6. Iqra Sarfraz, **Azhar Rasul***, Farhat Jabeen, Muhammad Kashif Zahoor, Muhammad Arshad, Muhammad Ali, Fraxinus: a plant with versatile pharmacological and biological activities. *Evidence Based Complementary Alternative Medicine (eCAM)*. **2017**; doi.org/10.1155/2017/4269868. IF: 1.740 (*As a corresponding Author)
7. Hui Qin, **Azhar Rasul**, Xin Li, Muqaddas Masood, Guang Yang, Na Wang, Wei Wei, Xi He, Nobumoto Watanabe, Jiang Li, Xiaomeng Li, CD147-induced cell proliferation is associated with Smad4 signal inhibition. *Experimental Cell Research*. **2017**; In Press. doi: 10.1016/j.yexcr.2017.07.003. IF: 3.546
8. Chunwa Jiang, Muqaddas Masood, **Azhar Rasul**, Wei Wei, Ya Wang, Muhammad Ali, Jiang Li, Xiaomeng Li, Altholactone inhibits constitutive NF-κB and STAT3 activation and induces reactive oxygen

species-mediated apoptosis in prostate cancer DU145 cells. *Molecules*. **2017**; 22(2), 240. doi: 10.3390/molecules22020240. IF: 2.861

9. Xiaoyan Ma, Fan Yang, Shuli Yang, **Azhar Rasul**, Ting Li, Lianlian Liu, Min Kong, Dongmei Guo, Tonghui Ma. Number and distribution of myofibroblasts and α -smooth muscle actin expression levels in fetal membranes with and without gestational complications. *Molecular Medicine Reports*. **2015**; 12(2): 2784-92. IF: 1.692.
10. Di W, Khan M, **Azhar Rasul**, Sun M, Sui Y, Zhong L, Yang L, Zhu Q, Feng L, Ma T. Isoalantolactone inhibits constitutive NF- κ B activation and induces reactive oxygen species-mediated apoptosis in osteosarcoma U2OS cells through mitochondrial dysfunction. *Oncology Reports*. **2015**; doi: 10.3892/or.2014.3368. IF: 2.662.
11. **Azhar Rasul**, Bin-Ji Zhao, Jun Liu, Bao Liu, Jia-Xin Sun, Jiang Li, Xiao-Meng Li. Molecular mechanisms of casticin action: An update on its antitumor functions. *Asian Pac J Cancer Prev*. **2014**; 15(21): 9049-9058. IF: 1.50
12. **Azhar Rasul**, Xiaoyan Shen, Bingyu Wang, Bao Liu, Xiaomeng Li, Jilin Tang. Tubeimoside-1 upregulates p21 expression and induces apoptosis and G2/M phase cell cycle arrest in human bladder cancer T24 cells. *Bangladesh Journal of Pharmacology*. **2014**; 9(4): 595-603. IF: 1.052.
13. **Azhar Rasul**, Jun Di, Faya Martin Millimouno, Mahadev Malhi, Ichiro Tsuji, Muhammad Ali, Jiang Li, Xiaomeng Li, Reactive Oxygen Species Mediate Isoalantolactone-Induced Apoptosis in Human Prostate Cancer Cells. *Molecules*, **2013**; 18(8): 9382-9396. IF: 2.861.
14. Zhenyu Chen, **Azhar Rasul**, Chaoyue Zhao, Faya Martin Millimouno, Ichiro Tsuji, Takaki Yamamura, Rehana Iqbal, Mahadev Malhi, Xiaomeng Li, Jiang Li. Antiproliferative and apoptotic effects of pinocembrin in human prostate cancer cells. *Bangladesh Journal of Pharmacology*. **2013**; 8(3): 255-262. IF: 0.616
15. Nanyang Yang, Bing Zhao, **Azhar Rasul**, Hui Qin, Jiang Li, Xiaomeng Li, PIAS1 modulated Smad2/4 complex activation is involved in zinc-induced cancer cell apoptosis. *Cell Death & Disease*. **2013**; doi: 10.1038/cddis.2013.333. IF: 5.965.
16. **Azhar Rasul**, Muhammad Khan, Muhammad Ali, Jiang Li, Xiaomeng Li, Targeting apoptosis pathways in cancer with alantolactone and isoalantolactone. *Scientific World Journal*. **2013**; doi: 10.1155/2013/248532. IF: 1.7.
17. **Azhar Rasul**, Faya Martin Millimouno, Wafa Ali Eltayb, Muhammad Ali, Jiang Li, Xiaomeng Li,

Pinocembrin: a novel natural compound with versatile pharmacological and biological activities. Biomed Research International. **2013**; doi: 10.1155/2013/379850. IF: 2.476.

18. **Azhar Rasul**, Bo Yu, Yang Jing Bo, Muhammad Khan, Muhammad Ali, Tonghui Ma. Isoalantolactone, a sesquiterpene lactone, induces apoptosis in SGC-7901 cells via mitochondrial and phosphatidylinositol 3-kinases/Akt signaling pathways. Archives of Pharmacal Research. **2013**; 36(10): 1262-9. IF: 2.324
19. **Azhar Rasul**, Rui Bao, Mahadev Malhi, Bing Zhao, Ichiro Tsuji, Xiaomeng Li, Jiang Li. Induction of apoptosis by costunolide in bladder cancer cells is mediated through ROS generation and mitochondrial dysfunction. Molecules. **2013**; 18(2): 1418-33. IF: 2.861.
20. Wei Wei, Jun Di, **Azhar Rasul**, C Zhao, Faya Martin Millimouno, Ichiro Tsuj, Furhan Iqal, Mahadev Malhi, Xiaomeng Li. Jiang Li. Dracorhodin perchlorate induces apoptosis in bladder cancer cells through Bcl-2, Bcl-XL, survivin down-regulation and caspase-3 activation. Bangladesh Journal of Pharmacology. **2013**; 8(3), 276-282. IF: 1.052.
21. **Azhar Rasul**, Jinmei Liu, Ying Liu, Faya Martin Millimouno, Xiaowan Wang, Ichiro Tsuji, Takaki Yamamura, Jiang Li, Xiaomeng Li. Eriocalyxin B inhibits proliferation and induces apoptosis through downregulation of Bcl-2 and activation of caspase-3 in human bladder cancer cells. Bangladesh Journal of Pharmacology. **2013**; 8(2): 116-123. IF: 0.616
22. Yingchao Zhang, **Azhar Rasul**, Xiaomeng Li, Mahadev Malhi, Xuedong Fang, Lijuan Wang, Yu Wang. Lentivirus-mediated shRNA targeting decoy receptor 3 (DcR3) inhibits proliferation and augments apoptosis in pancreatic cancer Capan-1 cells. African Journal of Pharmacy and Pharmacology. **2013**; 7(5): 203-210. IF: 0.60
23. Furhan Iqbal, RM Khattak, S Ozubek, MNK Khattak, **Azhar Rasul**, Muhammad Aktas. Application of the Reverse Line Blot Assay for the Molecular Detection of *Theileria* and *Babesia* sp. in Sheep and Goat Blood Samples from Pakistan. Iranian Journal of Parasitology. 8(2): **2013**; 289–295. IF: 0.758
24. Min Kong, Lianlian Liu, Fei Yi, Muhammad Khan, **Azhar Rasul**, Fan Yang, Xiaoyan Ma, Tonghui Ma. Prevalence of infarct and villous clumps, and the expression of α -smooth muscle actin in the placental basal plate in severe preeclampsia. Molecular Medicine Reports. **2012**; 8(4): 1067-73. IF: 1.692.
25. Muhammad Khan, Yinghong Xiao, Bo Yu, Nan Wang, **Azhar Rasul**, Fei Yi, Longfei Yang, Hong Yang, Tonghui Ma. Artabotryside A, a constituent from *Descurainia sophia* (L.) induces cell death in U87 glioma cells through apoptosis and cell cycle arrest at G2/M phase. Journal of Medicinal Plants Research. **2012**;

26. **Azhar Rasul**, Saima Parveen, Tonghui Ma. Costunolide: A novel anti-cancer sesquiterpene lactone. Bangladesh Journal of Pharmacology. 2012; 7(1): 6-13. IF: 0.616
27. **Azhar Rasul**, Tonghui Ma. In vitro cytotoxic screening of 300 selected Chinese medicinal herbs against human gastric adenocarcinoma SGC-7901 cells. African Journal of Pharmacy and Pharmacology. **2012**; 6(9): 592-600. IF: 0.65
28. Muhammad Khan, Ting Li, Muhammad Khalil Ahmad Khan, **Azhar Rasul**, Faisal Nawaz, Meiyun Sun, Yongchen Zheng, Tonghui Ma. Alantolactone induces apoptosis in HepG2 cells through GSH depletion, inhibition of STAT3 activation and mitochondrial dysfunction. Biomed Research International. **2013**; 2013:719858. doi: 10.1155/2013/719858. IF: 2.476.
29. Muhammad khan, Javed Qazi, **Azhar Rasul**, Yongchen Zheng, Tonghui Ma. Evodiamine induces apoptosis in pancreatic carcinoma PANC-1Cells via NF κ B inhibition. Bangladesh Journal of Pharmacology. **2013**; 8: 8-14. IF: 1.052.
30. **Azhar Rasul**, Chuan Ding, Xiaomeng Li, Muhammad Khan, Yi Fei, Muhammad Ali, Tonghui Ma, Dracorhodin perchlorate Inhibits PI3K/Akt and NF- κ B Activation, Up-regulates the Expression of p53, and Enhances Apoptosis. Apoptosis **2012**; 17(10): 1104-19. IF: 3.833.
31. **Azhar Rasul**, Bo Yu, Zhang Kun, Muhammad Khan, Furhan Iqbal, Tonghui Ma, Hong Yang. Magnolol, a natural compound induces apoptosis of human gastric adenocarcinoma SGC-7901 cells via the mitochondrial and PI3K/Akt signaling pathways. International J Oncology. **2012**; 40(4): 1153-61. IF: 3.079
32. **Azhar Rasul**, Bo Yu, Zhang Kun, Muhammad Khan, Hong Yang, Tonghui Ma. Cytotoxic effect of evodiamine in human gastric adenocarcinoma SGC-7901 cells via simultaneous induction of apoptosis and autophagy. Oncology Report. **2012**; 27(5): 1481-1487. IF: 2.662.
33. **Azhar Rasul**, Tonghui Ma. Evodiamine Augments TNF-Alpha-And Trail-Induced Apoptosis In Human Gastric Cancer Cells Via Inhibiting The NF-Kappa B And Pi3k/Akt. Annals of Oncology. **2012**; 23: 37-37. IF: 11.855
34. **Azhar Rasul**, Saima Parveen, Tonghui Ma. Costunolide: A Novel Anti-Cancer Sesquiterpene Lactone (Review). Bangladesh Journal Pharmacology. **2012**; 7: 6-13. IF: 1.052.
35. Muhammad khan, Fei Yi, **Azhar Rasul**, Ting Li, Nan Wang, Hongwen Gao, Rong Gao, Tonghui Ma. Alantolactone induces apoptosis in glioblastoma cells via GSH depletion, ROS generation and mitochondrial

dysfunction, IUBMB Life. **2012**; 64(9): 783-94. IF: 3.141.

36. Muhammad Khan, Yu Bo, **Azhar Rasul**, Ali Al Shawi, Fei Yi, Hong Yang, Tonghui Ma. Jaceosidin Induces Apoptosis in U87 Glioblastoma Cells through G2/M phase Arrest. Evid Based Complement Alternat Med. **2012**; doi: 10.1155/2012/703034. IF: 1.740.
37. Muhammad Khan, Chuan Ding, **Azhar Rasul**, Fei Yi, Ting Li, Hongwen Gao, Rong Gao, Lili Zhong, Kun Zhang, Xuedong Fang, Tonghui Ma. Isoalantolactone Induces Reactive Oxygen Species Mediated Apoptosis in Pancreatic Carcinoma PANC-1 Cells. International Journal Biological Sciences. **2012**; 8(4): 533-547. IF: 3.873.
38. Muhammad Khan, Bin Zheng, Fei Yi, **Azhar Rasul**, Zhuyi Gu, Ting Li, Hongwen Gao, Javed Iqbal Qazi, Hong Yang, Tonghui Ma. Pseudolaric Acid B induces caspase-dependent and caspase-independent apoptosis in U87 glioblastoma cells. Evid Based Complement Alternat Med. **2012**; doi: 10.1155/2012/957568. IF: 1.740.
39. **Azhar Rasul**, Tonghui Ma, Augmentation of TRAIL-induced apoptosis by Tubeimoside-1 in human gastric cancer cells via inhibition of PI3K/Akt, and NF- κ B signaling pathways. Abstract Published in Annal of Oncology. **2012**. IF: 11.855.
40. Jing Shen, Xiaoyan Ma, Fei Yi, **Azhar Rasul**, Tonghui Ma. Increased expression levels of vitronectin in maternal-fetal interface of placenta in early-onset severe preeclampsia. Molecular Medicine Reports. **2012**; doi: 10.3892/mmr.2012.1141. IF: 1.692.
41. **Azhar Rasul**, Runmin Song, Wei Wei, Yoshikazu Nishino, Ichiro Tsuji, Xiaomeng Li, Jiang Li, Tubeimoside-1 inhibits growth via the induction of cell cycle arrest and apoptosis in human melanoma A375 cells. Bangladesh Journal of Pharmacology, **2012**; 7 (3): 150-156. IF: 1.052.
42. RM Khattak, Shah Ali, Muhammad Jahangir, MN Khan, **Azhar Rasul**, Furhan Iqbal. Prevalence of ectoparasites in wild and domesticated grey (*Francolinus pondicerianus*) and black partridges (*Francolinus francolinus*) from Khyber Pakhtoonkhwa Province of Pakistan. Pakistan Journal of Zoology. **2012**; 44 (5), 1239-1244. IF: 0.4.
43. **Azhar Rasul**, Muhammad Khan, Bo Yu, Tonghui Ma, Hong Yang. Xanthoxyletin, a Coumarin Induces S Phase Arrest and Apoptosis in Human Gastric Adenocarcinoma SGC-7901 Cells. Asian Pac J of Cancer Prevention **2011**; 12 (5): 1219-1223. IF: 1.50.
44. **Azhar Rasul**, Bo Yu, Long-Fei Yang, Muhammad Ali, Muhammad Khan, Tonghui Ma, Hong Yang.

Induction of mitochondria-mediated apoptosis in human gastric adenocarcinoma SGC-7901 cells by kuraridin and Nor-kuraridinone isolated from *Sophora flavescens*. *Asian Pac J Cancer Prev*. **2011**; 12(10): 2499-504. IF: 1.50.

45. Ali Al Shawi, **Azhar Rasul**, Muhammad Khan, Furhan Iqbal, Ma Tonghui. Eupatilin: A flavonoid compound isolated from the artemisia plant, induces apoptosis and G2/M phase cell cycle arrest in human melanoma A375 cells. *African Journal of Pharmacy and Pharmacology*. **2011**; 5(5): 582-588. IF: 1.20.
46. Muhammad Naeem, **Azhar Rasul**, Abdus Salam, Shahid Iqbal, Abir Ishtiaq, Muhammad Khalid, Mohammad Athar. Proximate analysis of female population of wild feather back fish (*Notopterus notopterus*) in relation to body size and condition factor. *African Journal of Biotechnology*. **2011**; 10(19): 3867-3871. IF: 1.08
47. Muhammad Khan, **Azhar Rasul**, Fei Yi, Lili Zhong, Tonghui Ma. Jaceosidin induces p53-dependent G2/M phase arrest in U87 glioblastoma cells. *Asian Pac J Cancer Prev*. **2011**; 12(12): 3235-3238. IF: 1.50.

Oral Presentations

- Oral Presentation at South Asian Biotechnology Conference (SABC), organized by NASSL and ICGEB, in Colombo, Sri Lanka on 28- 30th March, **2018**.
- Oral Presentation at “1st International Conference: Advances in Drug Discovery and Development” organized by Department of Biochemistry, Abdul Wali Khan University, Mardan on 3-5th January, **2018**.
- Oral Presentation at 9th International Symposium on the Chemistry of Natural Compounds, 2011 Urumqi, Xinjiang, China on **2011**.
- Oral Presentation at Young Talent Forum for the 2016 Digestive Disease Week of Guangzhou, China on **2016**

Poster Presentations

Azhar Rasul, Bo Yu, Kun Zhang, Long-Fei Yang, Muhammad Khan, Tonghui Ma, Hong Yang, Enhancement of Docetaxel Anticancer Activity by Tubeimoside-1 in Human Gastric Cancer via Mitochondrial, PI3K/Akt, and NF-κB Signaling Pathways, 4th International Cancer Control Congress, Seoul, South Korea; 2011 (Poster Presentation).

Azhar Rasul, Tonghui Ma, Augmentation of TRAIL-induced apoptosis by Tubeimoside-1 in Human Gastric Cancer Cells via inhibition of PI3K/Akt, and NF-κB Signaling Pathways, 4th International WIN Symposium, Paris, France; 2012 (Poster Presentation).

Book Chapters

1. **Azhar Rasul** and Tonghui Ma (2013). Natural Compounds and Their Role in Autophagic Cell Signaling Pathways, Autophagy - A Double-Edged Sword - Cell Survival or Death?, Dr. Yannick Bailly (Ed.), ISBN: 978-953-51-1062-0, InTech, DOI: 10.5772/55447.
2. Ijaz Rasul, Farrukh Azeem, Muhammad Hussnain Siddique, Saima Muzammil, **Azhar Rasul**, Anam Munawar, Muhammad Afzal, Muhammad Amjad Ali, Habibullah Nadeem (2017). Algae biotechnology: A green light for engineered algae. “ALGAE-BASED POLYMERS, BLENDS AND COMPOSITES” to be published by “Elsevier”

List of Submitted Papers:

1. **Azhar Rasul**, Makoto Kawatani, Makoto Muroi, Yushi Futamura, Harumi Aono, Miho Tanaka, Hiroyuki Osada, Discovery and characterization of novel microtubule disrupter by MorphoBase and ChemProteoBase Profiling. Submitted to Biochemical Journal.
2. **Azhar Rasul**, Makoto Kawatani, Makoto Muroi, Yushi Futamura, Amit Subedi, Hiroyuki Osada, Identification and characterization of novel small-molecule inhibitor of DNA topoisomerase I. Submitted to BMB Reports.
3. **Azhar Rasul**, Makoto Kawatani, Kondoh, Hiroyuki Osada, Discovery of selective inhibitors of malic enzyme 2, novel therapeutic target for cancer metabolism, by chemical array screening. Submitted to Cell Chemical Biology.
4. **Azhar Rasul**, Muhammad Ali, Hiroyuki Osada, Imperatorin: A multifunctional natural compound with potential anti-cancer, anti-oxidant and anti-inflammatory activities (Review). Submitted to International Journal of Biological Sciences.
5. **Azhar Rasul***, Ghulam Hussain, Ghazala Kaukab, Farhat Jabeen, Iqra Sarfraz, Bilal Rasool, Muhammad Ali Osthole: A Multifunctional Natural Compound with Potential Anticancer, Antioxidant and Anti-inflammatory Activities. Submitted to EXCLI Journal Ms. NO. 2017-988.
6. Maria Javed, **Azhar Rasul***, Ghulam Hussain, Farhat Jabeen, Bilal Rasool, Ammara Riaz, Ghazala Kaukab, Muhammad Ali, Harmine and its derivatives: Biological activities and therapeutic potential in human diseases. Submitted to Bangladesh Journal of Pharmacology (BJP).

7. Bushra Nageen, **Azhar Rasul***, Ghulam Hussain, Farhat Jabeen, Tahira Younis, Iqra Sarfraz, Jassia Bukhari, Muhammad Ali, Jaceosidin: A Novel Natural Flavone with Promising Anti-inflammatory and Anti-cancer Effects. Submitted
8. Tahira Younis, Mohammad Imran Khan, Muhammad Rashid Khan, Azhar Rasul, Muhammad Majid, Vaqar Mustafa Adhami and Hasan Mukhtar (2018). Nummularic acid, a triterpenoid, from the medicinal plant *Fraxinus xanthoxyloides*, induces energy crisis to suppress growth of prostate cancer cells. Molecular Carcinogenesis, MC-18-0137 (Submitted on 19/03/2018).

Invited Talks at National and International Conference/ Forums/Seminars

- Young Talent Forum for the 2016 Digestive Disease Week of Guangzhou, China
- Seminar at School of Life Sciences, Dalian Medical University (DMU), Dalian, China, 2016
- 1st International Conference on Emerging Trends in Zoology (1st ICETZ 2017), University of Sargodha (UOS), Sargodha, Punjab Pakistan (December 8-9, 2017)