

## Selected Research Publications

### Publications with KUM

1. **Muhammad Imran Khan**, Muhammad Zubair Khan, Jin Hyuk Shin, Min Yung KIM, Tia Sun SHIN, Jong Deog KIM (2023). Breast Cancer: Gene Mutations, Therapeutic Targets, Molecular Mechanisms, Treatment Approaches, and Drug Identification. BMC women Health (Under Review). KUM
2. **Muhammad Imran Khan**, Muhammad Zubair Khan, Jin Hyuk Shin, Min Yung KIM, Tia Sun SHIN, Jong Deog KIM (2023). “Stem Cell-Derived Exosomes Alleviate Alzheimer’s Pathogenesis by Ameliorating Amyloid Beta Production and Tauopathy via Regulating the Associated Molecular Pathways. Scientific Report. 2023 Sep 21; 13(1):15731.doi: 10.1038/s41598-023-42485-4.
3. **Muhammad Imran Khan** Gul Karima, Muhammad Zubair Khan, Jin Hyuk Shin, Min Yung KIM, Tia Sun SHIN, Jong Deog KIM (2022). “Therapeutic Effects of Saponins for the Prevention and Treatment of Cancer by Ameliorating Inflammation and Angiogenesis and Inducing Antioxidant and Apoptotic Effects in Human Cells. Int. J. Mol. Sci. 2022, 23(18), 10665.
4. **Muhammad Imran Khan**, Muhammad Zubair Khan, Jin Hyuk Shin, Min Yung KIM, Tia Sun SHIN, Jong Deog KIM (2022). Neuroprotective Effects of Green Tea Seed Isolated Saponin Due to the Amelioration of Tauopathy and Alleviation of Neuroinflammation: A Therapeutic Approach to Alzheimer's Disease. Molecules. 2022 Mar 24;27(7):2079. doi: 10.3390/molecules27072079.

### Publications without KUM

5. **Muhammad Imran Khan**, Muhammad Zubair Khan, Jin Hyuk Shin, Min Yung KIM, Tia Sun SHIN, Jong Deog KIM (2021). “Pharmacological approaches to attenuate obesity with synergistic therapeutic and preventive effects of natural products by suppression of the associated promoting signaling pathways. Biomed research international Volume 2021 |Article ID 2521273 | <https://doi.org/10.1155/2021/2521273>
6. **Muhammad Imran Khan**, Jin Hyuk Shin, Jong Deog kim (2020) “Green Tea Seed Isolated Theasaponin E1 Ameliorates AD Promoting Neurotoxic Pathogenesis by Attenuating A $\beta$  Peptide Levels in SweAPPN2a Cells. *Molecules* 2020,25,2334”
7. **Muhammad Imran Khan**, Jin Hyuk Shin, Jong Deog kim (2019) “Crude microcystins extracted from *Microcystis aeruginosa* exert anti-obesity effects by down regulating angiogenesis and adipogenesis related signaling molecules in HUVEC and 3T3-L1 cells” *BMC complementary and alternative medicines* (2019) 19: 100doi.org/10.1186/s12906-019-2501- 0).
8. **Muhammad Imran KHAN**, Jin Hyuk SHIN, Tai Sun SHIN, Min Yong KIM, Nam Jun CHO and Jong Deog KIM (2018) “Anthocyanins from *Cornus kousa* ethanolic extract attenuate obesity in association with anti-angiogenic activities in 3T3-L1 cells by down- regulating adipogenesis and lipogenesis” *PLOS-ONE* idPONE-D-18-25676)
9. **Muhammad Imran Khan**, Abdulatef Mrghni Ahhmed, Jin Hyuk SHIN, Jun Soo BAEK, Min Yong KIM, and Jong Deog KIM (2018) “Green tea seedisolated saponins exerts antibacterial effects against various strains of gram positive and gram-negative bacteria, a comprehensive study in vitro and in vivo” *Evidence-Based Complementary and Alternative Medicines* doi.org/10.1155/2018/3486106).
10. **Muhammad Imran Khan**, Jin Hyuk Shin, Jong Deog kim (2018) “The promising Future of microalgae: current status, challenges, and optimization of a sustainable and renewable industry for biofuels, feed, and other products” *Microb Cell Fact.* 2018 Mar 5;17(1):36. doi:10.1186/s12934-018-0879-x.)

11. **Muhammad Imran Khan**, Moon Geon Lee, Jin Hyuk Shin, Jong Deog kim (2017) "Pretreatment optimization of the biomass of *Microcystis aeruginosa* for efficient bioethanol production" *AMB Express* 2017; 7:19.
12. Moon Geon LEE, **Muhammad Imran KHAN**, Hyo Jin SEO, Jin Hyuk SHIN, Min Yong KIM, and Jong Deog KIM (2017) "In vivo and in vitro antimicrobial effects of natural antibiotics present in crude extracts of various medicinal plants" *Korean Society for Biotechnology and Bioengineering Journal* 32(1): 1-7:2017)
13. **Muhammad Imran Khan**, Moon Geon Lee, Hyo Jin Seo, et al. (2016) "Enhancing the Feasibility of *Microcystis aeruginosa* as a Feedstock for Bioethanol Production under the Influence of Various Factors," *BioMed Research International* vol. 2016, ArticleI D4540826, 9 pages, 2016.doi:10.1155/2016/4540826.
14. **Muhammad Imran Khan**, Mushtaq Ahmad, Nadia Mushtaq and Rehmat Ali Khan, Dilafraz Khan, Safiullah Khan(2016) "Pharmacological evaluation of antioxidant, antimicrobial and phytotoxic activities of crude extract and purified compound of *Lonicera quinquelocularis*" *Bangladesh journal of botany* 45(5):1235-1239.
15. Amin Ullah, Said Hassan, **Muhammad Imran Khan**, Muhammad Rizwan, Zafar Ullah, MukaramShah(2016)"Antioxidant,phytotoxic and cytotoxic activities of methanolic extract of *Trigonella foenum-graecum*" *Journal of Coastal Life Medicine* 4(5): 386-389).
16. Jong Deog Kim, **Muhammad Imran Khan**, Jin Hyuk Shin, Moon Geon Lee et al. (2015) "HPLC Fractionation and Pharmacological Assessment of Green Tea Seed Saponins for Antimicrobial, Anti-angiogenic and Hemolytic Activities" *Biotechnology & Bioprocess Engineering*, 20:1035-1043)
17. **Muhammad Imran khan**, DilFaraz Khan, Mushtaq Ahmed, Shafiullah Khan, Rahmat Ali Khan, Shahnoor (2014) "Antioxidant and cytotoxic activities of three different fractions of *Lonicera quinquelocularis* (Translucent Honeysuckle)" *Phytochem & Biosub journal*, Vol.8(2)
18. Shahnoor, DilFaraz Khan, Mushtaq Ahmed, Rahmat Ali Khan, Muhammad **Imran khan**, Shafiullah Khan(2014)"Determination of antifungal and phytotoxic activities of three different fractions of *Lonicera quinquelocularis*(TranslucentHoneysuckle)"*Journalof Pharmacognosy and Phytochemistry*, 2 (6): 167-172.9.
19. **Muhammad Imran Khan**, Suhaib Asad, Syed Waqas, Syed Rehman, Asif Iqbal, AminUllah, Ihsan Ullah, Shahnoor, Sher Ali (2013) "Antioxidant and Cytotoxic Activities of Crud Methanolic Extract of *Medicago Polymorpha*" *IOSR Journal of Pharmacy*, 3(8): 32-37.3.)
20. **Muhammad Imran Khan\***, Mushtaq Ahmad, Rahmat Ali Khan, Amin Ullah, Syed Rehman, Bakhtar Ullah (2013)"Phytotoxic, antioxidant and anti-fungal activity of crude methanolic extract of *Equisetum debile*" *International Journal of Biosciences*, 3(8):130-135.)
21. Rahmat Ali Khan, Mushtaq Ahmed, **Muhammad Imran Khan**, Nawshad Muhammad, Muhammad Rashid Khan, Amin Ullah, SyedRehman, Nadia Mushtaq, Akhlaq Ahmed, Farman Ullah Khan, Muhammad Shahzad Shifa (2013) "Role of medicinal plants in free radicals induced sickle cell anemia" *International Journal of Biosciences*, 3(7)188-194)
22. Mushtaq Ahmed, **Muhammad Imran Khan**, Muhammad Rashid Khan, Nawshad Muhammad1, Amin Ullah Khan1 and Rahmat AliKhan(2013)"Role of Medicinal Plants in Oxidative Stress and Cancer" *OMIC publishing group*, 2:2-6.)

23. AminUllah, **Muhammad Imran Khan\***, Yaqoob ur rehman, Muhammad Waqas, Muhammad Ajmal Khan, Sher Ali, Gohar Zaman and Hazrat Ali (2013) “Antifungal and phytotoxic Activities of Crude Methanolic Extract of *Medicago Polymorpha*” *International Journal of Bioassays*,4(7):42-54.)
24. Mushtaq Ahmed, Zafer Ullah Wazir, Rahmat Ali Khan, **Muhammad Imran Khan**, Syed Waqas &Asif Iqbal “Pharmacological evaluation of crude methanolic extract of *Kalanchoe pinnata* leaves” *Journal of Toxicological & Environmental Chemistry*,95(9): 1539-1545.