Md Asaduzzaman Khan, PhD

Assistant Professor, Department of Biochemistry and Microbiology, School of Health & Life Sciences, North South University, Dhaka-1229, Bangladesh.
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Teaching area

Biochemistry, Molecular Biology, Protein and Enzyme Chemistry, Biotechnology, Physiology, Immunology, Cell Biology, Genetics

Research area

Molecular biology of cancer, obesity and lung disease; Small RNAs in disease therapeutics, Natural products and Nutraceuticals

Education

- **PhD** in **Biochemistry & Molecular Biology** (2013), Central South University, China]
- **MSc** in **Biochemistry & Molecular Biology** (2005), Jahangirnagar University, Bangladesh]
- **BSc** in **Biochemistry & Molecular Biology** (2004), Jahangirnagar University, Bangladesh]

Employments

- **Assistant Professor,** Biochemistry & Microbiology, North South University, Dhaka, Bangladesh (2024/01~)
- **Research Scientist,** Boston University School of Medicine, Boston, MA, USA (2023/06-2023/12)
- **Assistant Professor (Adjunct),** Microbiology Program, Brac University, Dhaka, Bangladesh (2023/01-2023/05)
- **Professor (Research),** Southwest Medical University, Luzhou, Sichuan, China (2017/01-2022/12)
- **Lecturer & Researcher,** Ton Duc Thang University, Ho chi Minh city, Vietnam (2016/10- 2016/12)
- **Postdoctoral Fellow,** University of Macau, Macau SAR (China) (2015/09-2016/08)
- **Postdoctoral Fellow,** Luzhou Medical College (Zhejiang University), Luzhou, China (2013/07- 2015/08)
- **Visiting Teacher,** Changsha Medical College, Hunan, China (2010/09- 2011/11)
- **Visiting Teacher,** BSMR Agricultural University, Bangladesh (2008/07- 2009/09)
- **Research Fellow,** National Mushroom Dev. & Ex. Center, Bangladesh (2005/06- 2009/08)

Research skills

In vitro: mammalian cell culture, molecular cloning, RNA expression (qRT-PCR), miRNA expression, circRNA expression, RNAi or gene knockdown by shRNA/siRNA/ASO, protein expression (Western blotting), FISH, DNA dot-blot, Immunoprecipitation, in vitro analysis of cell migration and invasion, reporter gene assay, some levels of flow cytometry & confocal microscopy. **Animal model:** Generation and maintenance of allograft breast cancer model of mice, lung injury model of mice, IT/SQ/tail-vein of mice, handling C. elegans.

Major research grant

- **Principle Investigator:** An Investigation on the molecular mechanism of anti-inflammatory effect of thymoquinone targeting small RNAs in lung injury. Funder: North South University (CTRG-24-SHLS-04) (2025-)
- **Principle Investigator:** New targets and molecular mechanism of thymoquinone in triple negative breast cancer therapeutics: Funder: National Science Foundation of China (NSFC) [2019].

Scientific Membership

- American Association for Cancer Research (AACR) (ID# 294147)
- Nature Study Society of Bangladesh

Editorial role

Editorial board member: *Mini-reviews in Medicinal Chemistry*; *Frontiers in Pharmacology/ Frontiers in Oncology* (Also served as editorial advisory board member in *Heliyon*; guest editor in *Frontiers in Molecular Biosciences, Current Medicinal Chemistry* and *Current Pharmaceutical Design*)

Research Profile

- ***Google Scholar:*** https://scholar.google.com/citations?user=ZeQUb7YAAAAJ&hl=en
- ***Pubmed:*** https://www.ncbi.nlm.nih.gov/myncbi/md.%20asaduzzaman.khan.1/bibliography/public/
- ***Orcid:*** http://orcid.org/0000-0001-7851-0500
- ***Web of Science:*** https://publons.com/researcher/1269170/md-asaduzzaman-khan/
- ***SCOPUS:*** https://www.scopus.com/authid/detail.uri?authorId=8151989200
- ***Researchgate:*** https://www.researchgate.net/profile/Md_Asaduzzaman_Khan

Full list of publications

Journal Papers (with recent impact factors)

1. Wan X, Wang L, **Khan MA**, Peng L, Sun X, Yi X, Wang Z, Chen K (2025). NAT10-mediated N4-acetylcytidine modification in KLF9 mRNA promotes adipogenesis. ***Cell Death & Differentiation***. Online published; doi: 10.1038/s41418-025-01483-x. {Q1; IF: 13.7}
2. Wang Z , Wan X , **Khan MA** , Peng L , Sun X , Yi X, Chen K (2024). NAT10 promotes liver lipogenesis in mouse through N4-acetylcytidine modification of Srebf1 and Scap mRNA. ***Lipids in Health and Disease***. 23:368. {Q1; IF: 3.9}
3. Wan X, Wang L, **Khan MA**, Peng L, Zhang K, Sun X, Yi X, Wang Z, Chen K (2024). Shift work promotes adipogenesis via cortisol-dependent downregulation of EGR3-HDAC6 pathway. ***Cell Death Discovery***. 10: 129. {Q1; IF: 6.1}
4. Yi X, Wan XX, **Khan MA**, Sun X, Wang Z, Chen K, Peng L (2024). Expression analysis of circRNAs in human adipogenesis. ***Diabetes Metabolic Syndrome and Obesity: Targets and Therapy***. 17: 45-54 {Q2; IF: 2.8}
5. **Khan MA**, Tania M (2023). Cordycepin and kinase inhibition in cancer. ***Drug Discovery Today***. 28(3):103481 {Q2; IF: 6.5}
6. Liu J, Wan XX, Zheng SY, He HH, **Khan MA**, Feng YX, Xiao JG, Chen Y, Hu XM, Zhang Q, Xiong K (2024). Mesenchymal Stem Cell Transplantation in Type 1 Diabetes Treatment: Current Advances and Future Opportunity. ***Current Stem Cell Research and Therapy***. 19(9):1175-1184. {Q2; IF: 2.1}
7. Sun X, Wan X, **Khan MA**, Zhang K, Yi X, Wang Z, Chen K (2023). Comprehensive analysis of circRNA expression profiles in Human Brown Adipose Tissue. ***Diabetes Metabolic Syndrome and Obesity: Targets and Therapy***. 16:469-478 {Q2; IF: 2.8}
8. He YF, Hu XM, **Khan MA**, Yu BY, Sheng YC, Xiao XZ, Wan XX, Tan SP, Xiong K (2023). HSF1 Alleviates Brain Injury by Inhibiting NLRP3-Induced Pyroptosis in a Sepsis Model. ***Mediators of Inflammation***. 2023:2252255. {Q2; 2022 IF: 4.6}.
9. Akter Z, Khan FZ, **Khan MA*** (2023). Gold nanoparticles in triple-negative breast cancer therapeutics. ***Current Medicinal Chemistry***. 30(3): 316-334 {Q1; IF: 3.5}
10. **Khan MA**, Zheng M, Fu J, Tania M, Li J, Fu J (2022). Thymoquinone upregulates IL17RD in controlling the growth and metastasis of triple negative breast cancer cells in vitro. ***BMC Cancer***. 22:707 {Q2; IF: 3.4}
11. Zheng M, Mei Z, Junaid M, Tania M, Fu J, Chen H, **Khan MA*** (2022). Synergistic role of thymoquinone

on anticancer activity of 5-fluorouracil in triple negative breast cancer cells. ***Anti-Cancer Agents in Medicinal Chemistry***. 22(6):1111-1118. {Q3; IF: 2.6}

12. Wei C, **Khan MA** (equal contributor), Du J, Cheng J, Tania M, Leung E, Fu J (2022). Cordycepin inhibits triple-negative breast cancer cell migration and invasion by regulating EMT-TFs SLUG, TWIST1, SNAIL1 and ZEB1. ***Frontiers in Oncology***. 12:898583. {Q2; IF: 3.5}
13. Shariare MH, **Khan MA**, Al-Masum A, Khan JH, Uddin J, Kazi M (2022). Development of Stable Liposomal Drug Delivery System of Thymoquinone and Its In Vitro Anticancer Studies Using Breast Cancer and Cervical Cancer Cell Lines. ***Molecules***. 27(19):6744. {Q1; IF: 4.2}
14. Imani S, Becatti M, **Khan MA*** (2022). Molecular Targeted Therapy in Oncology: Lessons from Pharmacogenetics and Pharmacoepigenetics (Editorial). ***Frontiers in Molecular Biosciences***. 9:822188. {Q1; IF: 3.9}
15. Afroz R, Tanvir EM, Tania M, Fu J, Kamal MA, **Khan MA*** (2022). LPS/TLR4 pathways in breast cancer: insights into cell signaling. ***Current Medicinal Chemistry***. 29(13):2274-2289. {Q1; IF: 3.5}
16. Wan XX, Zhang DY, **Khan MA**, Zheng SY, Hu XM, Zhang Q, Yang RH, Xiong K (2022). Stem Cell Transplantation in the Treatment of Type 1 Diabetes Mellitus: From Insulin Replacement to Beta Cells Replacement. ***Frontiers in Endocrinology***. 13: 859638 {Q1; IF: 3.9}
17. Nyamsambuu A, **Khan MA**, Zhou X, Chen H (2022). Molecular mechanism of inhibitory effects of melatonin on prostate cancer cell proliferation, migration and invasion. ***Plos One***. 17(1): e0261341 {Q1; IF: 2.9}
18. Zhang K , Wan X, **Khan MA** , Sun X, Yi X, Wang Z, Chen K, Peng L (2022). Peripheral Blood circRNA Microarray Profiling Identities hsa_circ_0001831 and hsa_circ_0000867 as Two Novel circRNA Biomarkers for Early Type 2 Diabetic Nephropathy. ***Diabetes Metabolic Syndrome and Obesity: Targets and Therapy***. 15: 2789-2801. {Q2; IF: 2.8}
19. Kamal MA, **Khan MA*** (2022). Viral Diseases and Natural Products: Prospects in COVID-19 Treatment (part V) (Editorial). ***Current Pharmaceutical Design***. 28(12):947 {Q2; IF: 2.6}
20. Nyamsambuu A, Zhou X, **Khan MA**, Ahmed A, Naranmandakh S, Fu J, Chen H (2022). Anti-Oxidant and Anticancerous Effect of Fomitopsis officinalis (Vill. ex Fr. Bond. et Sing) Mushroom on Hepatocellular Carcinoma Cells In Vitro through NF-kB Pathway. ***Anti-Cancer Agents in Medicinal Chemistry***. 22(8):1561-1570 {Q3; IF: 2.6}
21. Babu G, Bin Islam S, **Khan MA*** (2022). A review on the genetic polymorphisms and susceptibility of cancer patients in Bangladesh. ***Molecular Biology Reports***. 49: 6725-6739 {Q2; IF: 2.6}
22. Tuli HS, Mistry H, Kaur G, Aggarwal D, Garg VK, Mittal S, Yerer MB, Sak K, **Khan MA** (2022). Gallic acid: a dietary polyphenol that exhibits anti-neoplastic activities by modulating multiple oncogenic targets. ***Anti-Cancer Agents in Medicinal Chemistry***. 22(3):499-514 {Q3; IF: 2.6}
23. Deng H, **Khan MA** (equal contributor), Liu X, Fu J, Mei Z (2022). Identification of SCAR markers for genetic authentication of Dendrobium nobile Lindl. ***Brazilian Journal of Biology***. 82: e260394. {Q2; 2021 IF: 1.651}
24. Islam MS, Morshed R, Babu G, **Khan MA*** (2022). The role of inflammations and EMT in carcinogenesis. ***Advances in Cancer Biology – Metastasis***. 5:100055. (Q4; IF: 2.0)
25. **Khan MA***, Bin Islam S, Rakib MU, Alam D, Hossen MM, Tania M, Asad A (2022). Major drugs used in COVID-19 treatment: molecular mechanisms, validation and current progress in trials. ***Coronaviruses***. 3(2):e030821188723 (Q4)
26. Kundu S, Banna HA, Sayeed A, Begum MR, Brazendale K, Hasan MT, Habiba SJ, Abid MT, **Khan MA**, Chowdhury S, Kormoker T, Proshad R, Khan MSI (2021). Knowledge, attitudes, and preventive practices toward the COVID-19 pandemic: an online survey among Bangladeshi residents. ***Journal of***

Public Health: From Theory to Practice. Online published: https://doi.org/10.1007/s10389-021-01636-5

27. **Khan MA**, Kamal MA (2021). Targeting cellular signaling pathways in cancer by natural compounds (editorial). ***Current Medicinal Chemistry***. 28(39): 7986-7.{Q1; IF: 3.5}

28. Tuli HS, Joshi R, Aggarwal, D, Kaur G, Kaur J, Kumar M, Parashar NC, **Khan MA**, Sak K (2021). Molecular mechanisms underlying chemopreventive potential of butein: current trends and future perspectives. ***Chemico-Biological Interactions***. 350: 109699 {Q1; IF: 4.7}

29. Nyamsambuu A, Ahmed A, Khusbu FY, Oidovsambuu S, **Khan MA**, Zhou X, Fu J, Chen H (2021). Anti-oxidant and Antiproliferative Activities of Mongolian Medicinal Plant Extracts and Structure Isolation of Gnetin - H Compound. ***Medicinal Chemistry***. 17(9): 963-973. {Q3; IF: 1.9}

30. Tania M, Asad A, Li T, Islam MS, Bin Islam S, Hossen MM, Bhuiyan MR, **Khan MA*** (2021). Thymoquinone against infectious diseases: perspectives in recent pandemics and future therapeutics. ***Iranian Journal of Basic Medical Sciences***. 2021; 24(8): 1014-1022. {Q3; IF: 2.1}

31. Ali MY, Akter Z, Mei Z, Zheng M, Tania M, **Khan MA*** (2021). Thymoquinone in autoimmune diseases: therapeutic potential and molecular mechanisms. ***Biomedicine & Pharmacotherapy***. 134: 111157 {Q1; IF: 6.9}

32. Akter Z, Ahmed FR, Tania M, **Khan MA*** (2021). Targeting inflammatory mediators: An anticancer mechanism of thymoquinone action. ***Current Medicinal Chemistry***. 28(1): 80-92. {Q1; IF: 3.5}

33. Junaid M, Akter Y, Afrose SS, Tania M, **Khan MA*** (2021). Biological role of AKT, and regulation of AKT signaling pathway by thymoquinone: perspectives in cancer therapeutics. ***Mini-Reviews in Medicinal Chemistry***. 21(3): 288-301. {Q2; IF: 3.3}

34. Khan MA, Kamal MA (2021). Viral Diseases and Natural Products: Prospects in COVID-19 Treatment (part IV) (Editorial). ***Current Pharmaceutical Design***. 27(33): 3501 {Q2; IF: 2.6}

35. Khan MA, Kamal MA (2021). Viral Diseases and Natural Products: Prospects in COVID-19 Treatment (part III) (Editorial). ***Current Pharmaceutical Design***. 27(32): 3423 {Q2; IF: 2.6}

36. Kamal MA, Khan MA* (2021). Viral Diseases and Natural Products: Prospects in COVID-19 Treatment (part II) (Editorial). ***Current Pharmaceutical Design***. 27(9): 1121-1122. {Q2; IF: 2.6}

37. **Khan A** (2021). Black Cumin in Fighting with Coronaviruses. ***The Open Covid Journal***. 2021; 1: 189-190.

38. Hossain S, Sarkar M, Bhowmick S, Hussain J, Hasan M, Uddin B, **Khan MA**, Nahar T (2021). Acute cigarette smoke exposure induces oxidative damage and inflammation in Wistar rats: impact on lungs and erythrocytes. ***African Journal of Biological Sciences***. 3(1): 120-128. (Q4)

39. Afrose SS, Junaid M, Akter Y, Tania M, Zheng M, **Khan MA*** (2020). Targeting kinases with thymoquinone: a molecular approach to cancer therapeutics. ***Drug Discovery Today***. 25(12): 2294-2306. {Q1; IF: 6.5}

40. **Kamal MA**, Khan MA* (2020). Viral Diseases and Natural Products: Prospects in COVID-19 Treatment (Editorial). ***Current Pharmaceutical Design***. 26(41): 5221-5223. {Q2; IF: 2.6}

41. Shawon J, Akter Z, Hossen MM, Akter Y, Sayeed A, Junaid M, Afrose S, **Khan MA*** (2020). Current landscape of natural products against coronaviruses: perspectives in COVID-19 treatment and antiviral mechanism. ***Current Pharmaceutical Design***. 26(41): 5241-5260. {Q2; IF: 2.6}

42. Fu J, Cheng J, Wei C, **Khan MA**, Jin Z, Fu J (2020). Assessing 23 Y-STR loci mutation rates in Chinese Han father–son pairs from southwestern China. ***Molecular Biology Reports***. 47(10):7755-7760. {Q2; IF: 2.6}

43. Zhang L, Zhou Q, Cheng J, **Khan MA**, Fu J, Duan C, Sun S, Lv H, Fu J (2020). Targeted next-generation sequencing identified novel compound heterozygous variants in the CDH23 gene causing Usher syndrome type ID in a Chinese patient. ***Frontiers in Genetics***. 11:422. {Q2; IF: 2.8}

44. **Khan MA***, Tania M (2020). Cordycepin in Anticancer Research: Molecular Mechanism of Therapeutic Effects. ***Current Medicinal Chemistry***. 27(6): 983-996 {Q1; IF: 3.5}

45. Agarwal V, Tuli HS, Thakral F, Singhal P, Agarwal D, Srivastava S, Pandey A, Sak K, Varol M, **Khan MA**, Sethi G (2020). Molecular mechanisms of action of Hesperidin in cancer: recent trends and advancements. ***Experimental Biology and Medicine***. 245(5):486-497. {Q2; IF: 2.8}

46. Cheng J, Peng J, Fu J, **Khan MA**, Tan P, Wei C, Deng X, Chen H, Fu J (2020). Identification of a novel germline BRCA2 variant in a Chinese breast cancer family. ***Journal of Cellular and Molecular Medicine***. 24.1676–1683 {Q2; IF: 4.3}

47. Fu J, Cheng J, Zhou Q, **Khan MA**, Duan C, Peng J, Lv H, Fu J (2020). Novel compound heterozygous nonsense variants, p.L150* and p.Y3565*, of the USH2A gene in a Chinese pedigree are associated with Usher syndrome type IIA. ***Molecular Medicine Reports***. 22. 3464-3472. {Q2; IF: 3.4}

48. Liu X, Cheng J, Mei Z, Wei C, **Khan MA**, Peng J, Fu J (2020). SCAR marker for identifcation and discrimination of specifc medicinal Lycium chinense Miller from Lycium species from ramp-PCR RAPD fragments. ***3 Biotech***. 10(8):334. {Q2; IF: 2.6}

49. Mei Z, **Khan MA**, Fu J (2020). Genetic authentication of Eclipta prostrate (Asteraceae) from Penthorum chinense (Penthoraceae) by Sequence Characterized Amplified Region (SCAR) markers. ***Revista de Biología Tropical***. 68(1):180-188. {Q2; IF: 0.8}

50. Liu X, Du J, **Khan MA**, Cheng J, Wei C, Mei Z, Chen H, He T, Fu J (2020). Analysis of genetic diversity and similarities between different Lycium varieties based on ISSR analysis and RAMP-PCR markers. ***World Academy of Sciences Journal***. 2: 83-90. (Q3)

51. **Khan MA**, Tania M, Fu J (2019). Epigenetic role of thymoquinone: impact on cellular mechanism and cancer therapeutics. ***Drug Discovery Today***. 24(12):2315-2322. {Q1; IF: 6.5}

52. Chen Q, Liu J, Zhuang Y, Bai L, Yuan Q, Zheng S, Liao K, **Khan MA**, Wu Q, Luo C, Liu L, Wang H, Li T (2019). Identification of an IKKβ inhibitor for inhibition of inflammation in vivo and in vitro. ***Pharmacological Research***. 149:104440. {Q1; IF: 9.1}

53. Agarwal V, Tuli HS, Varol A, Thakral F, Yerer MB, Sak K, Varol M, Jain A, **Khan MA**, Sethi G (2019). Role of Reactive Oxygen Species in Cancer Progression: Molecular Mechanisms and Recent Advancements. ***Biomolecules***. 9(11):735. {Q1; IF: 4.8}

54. Tania M, Shawon J, Saif K, Kiefer R, Safaei Khorram M, Halim MA, **Khan MA*** (2019). Cordycepin downregulates Cdk-2 to interfere with cell cycle and increases apoptosis by generating ROS in cervical cancer cells: in vitro and in silico study. ***Current Cancer Drug Targets***. 19(2): 152-159. {Q2; IF: 2.3}

55. Zhou B, Wei C, **Khan MA**, Chen H, Fu J (2019). Characterization and molecular cloning of novel isoforms of human spermatogenesis associated gene SPATA3. ***Molecular Biology Reports***. 46(4):3827-3834. {Q2; IF: 2.6}

56. Islam MT, Zhou ZX, Chen F, **Khan MA**, Fu J, Chen H (2019). Targeting the Signalling Pathways Regulated by Deubiquitinases for Prostate Cancer Therapeutics. ***Cell Biochemistry and Function***. 37(5): 304-319. {Q2; IF: 2.8}

57. Cheng J, Fu J, Zhou Q, Xiang X, Wei C, Yang L, **Khan MA**, Lv H, Fu J (2019). A novel splicing variant of the PRPH2 gene in a Chinese family causes autosomal dominant retinitis pigmentosa. ***Journal of Cellular and Molecular Medicine***. 23: 3776–3780. {Q2; IF: 4.3}

58. Imani S, Cheng J, Fu J, Mobasher-Jannat A, Wei C, Mohazzab-Torabi S, Jadidi K, Khosravi MH, Shasaltaneh, MD, Yang L, **Khan MA**, Fu J (2019). Novel splicing variant c. 208+2T>C in BBS5 segregates with Bardet-Biedl syndrome in an Iranian family by targeted exome sequencing. ***Bioscience Reports***. 39:BSR20181544. {Q1; IF: 3.8}

59. Sarkar M, Hasan M, Bhowmick S, Hussain J, Haque M, **Khan MA**, Hossain S (2019). Evaluation of the

Anti-oxidative, Erythrocyte Membrane Stabilizing Effect and Nutritional Status of Neolamarckia cadamba Fruit. ***American Journal of Food and Nutrition***. 7(1):6-12.

60. Khanh TT, Lee RJ, Kilmartin PA, **Khan MA**, Safei Khorram M, Tamm T, Kiefer R (2018). Actuation increase in polypyrrole bilayer by photo-activated dopants. ***Synthetic Metals***. 246:57-63. {Q1; IF: 4.4}

61. Safei Khorram M, Fatemi A, **Khan MA**, Kiefer R, Jafarnia S (2018). Potential risk of weed outbreak by increasing biochar's application rates in slow-growth legume, Lentil (Lens culinaris Medik.). ***Journal of the Science of Food and Agriculture***. 98(6):2080-2088. {Q1; IF: 3.3}

62. Zondaka Z, Harjo M, **Khan MA**, Khanh TT, Tamm T, Kiefer R (2018). Optimal phosphotungstinate concentration for polypyrrole linear actuation and energy storage. ***Multifunctional Materials***. 1: 014003 (Q1)

63. Imani S, Cheng J, Shasaltaneh M, Wei C, Yang L, Fu S, Zou H, **Khan MA**, Zhang X, Chen H, Zhang D, Duan C, Lv H, Li Y, Chen R, Fu J (2018). Genetic identification and molecular modeling characterization reveal a novel PROM1 mutation in Stargardt4-like Macular Dystrophy. ***Oncotarget***. 9(1): 122-141. {Q2; 2017 IF: 5.168}

64. Yang L, Ijaz I, Cheng J, Wei C, Tan X, **Khan MA**, Fu X, Fu J (2018). Evaluation of amplification refractory mutation system (ARMS) technique for quick and accurate prenatal gene diagnosis of CHM variant in choroideremia. ***Application of Clinical Genetics***. 11:1-8. (Q2; IF: 2.6)

65. **Khan MA**, Tania M, Fu S, Fu J (2017). Thymoquinone, as an anticancer molecule: from basic research to clinical investigation. ***Oncotarget***. 8(31): 51907-51919. {Q2; 2017 IF: 5.168}

66. Li J, **Khan MA** (equal contribution), Wei C, Cheng J, Chen H, Yang L, Ijaz I, Fu J (2017). Thymoquinone inhibits the migration and invasive characteristics of cervical cancer cells SiHa and CaSki in vitro by targeting epithelial to mesenchymal transition associated transcription factors Twist1 and Zeb1. ***Molecules***. 22(12): 2105. {Q1; IF: 4.2}

67. Imani S, Wei C, Cheng J, **Khan MA** (equal contribution), Fu S, Yang L, Tania M, Zhang X, Xiao X, Zhang X, Fu J (2017). MicroRNA-34a targets epithelial to mesenchymal transition-inducing transcription factors (EMT-TFs) and inhibits breast cancer cell migration and invasion. ***Oncotarget***. 8(13):21362-21379. {Q2; 2017 IF: 5.168}

68. Cheng J, Fu S, Wei C, Tania M, **Khan MA**, Imani S, Zhou B, Chen H, Xiao X, Wu J, Fu J (2017). Evaluation of PIK3CA mutations as a biomarker in Chinese breast carcinomas from Western China. ***Cancer Biomarkers***. 19(1):85-92. {Q2; IF: 2.2}

69. Mei Z, Zhang X, **Khan MA**, Imani S, Liu X, Zou H, Wei C, Fu J (2017). Genetic analysis of Penthorum chinense Pursh. By improved-RAPD and ISSR in China. ***Electronic Journal of Biotechnology***. 30: 6-11. {Q3; IF: 2.3}

70. Mei Z, **Khan MA**, Zhang X, Fu J (2017). Rapid and accurate genetic authentication of Penthorum chinense by improved RAPD-derived species-specific SCAR markers. ***Biodiversitas***. 18(3):1243-1249. (Q2)

71. **Khan MA**, Cheng JL, Mei ZQ, Wei CL, Fu JJ (2016). Development of two novel specific SCAR markers by cloning improved RAPD fragments from the medicinal mushroom Ganoderma lucidium (Leysser: Fr) Karst. ***Genetics and molecular research***. 15(3): gmr.15038536. {Q4; IF: 0.6}

72. Wei CL, Cheng JL, **Khan MA**, Yang LQ, Imani S, Chen HC, Fu JJ (2016). An improved DNA marker technique for genetic characterization using RAMP-PCR with high-GC primers. ***Genetics and molecular research***. 15(3): gmr.15038721. {Q4; IF: 0.6}

73. Wei C, Cheng J, Zhou B, Zhu L, **Khan MA**, He T, Zhou S, He J, Lu S, Chen H, Zhang D, Zhao Y, Fu J (2016). Tripartite motif containing 28 (TRIM28) promotes breast cancer metastasis by stabilizing TWIST1 protein. ***Scientific Reports***. 6: 29822. {Q1; IF: 3.8}

74. **Khan MA**, Tania M, Wei C, Mei Z, Fu S, Cheng J, Xu J, Fu J (2015). Thymoquinone inhibits Cancer metastasis by regulating TWIST1 associated with epithelial to mesenchymal transitions. ***Oncotarget***. 6(23): 19580-19591. {Q2; 2017 IF: 5.168}

75. **Khan MA**, Zhu L, Tania M, Xiao X, Fu J (2015). The relationship between SPOP mutation and breast cancer in Chinese populations. ***Genetics and Molecular Research***. 14(4):12362-12366. {Q4; IF: 0.6}

76. Liu X, **Khan MA**, Wei C, Cheng J, Zhang L, Fu J (2015). Establishment of stable cell line for inducing KAP1 protein expression. ***Acta Biologica Hungarica***. 66(2): 161-168. {Q3; 2020 IF: 0.585}

77. Zhang C, Mei, Z, He Y, Cheng J, **Khan MA**, Luo P, Imani S, Fu J (2015). Development of SCAR markers based on improved RAPD amplification fragments and molecular cloning for authentication of three herb medicine Angelica sinensis, Angelica acutiloba and Levisticum officinale. ***Natural product communications***. 10(10):1743-1747. {Q3; IF: 1.5}

78. Fu J, Khan MA, Mei Z, Tania M, Yang L, Cheng J (2015). Development of RAPD-SCAR markers for different Ganoderma species authentication by improved RAPD amplification and molecular cloning. ***Genetics and Molecular Research***. 14 (2): 5667-5676. {Q4; IF: 0.6}

79. Zhou Q, Cheng J, Yang W, Tania M, Wang H, **Khan MA**, Duan C, Zhu L, Chen R, Lv H, Fu J (2015). Identification of a Novel Heterozygous Missense Mutation in the *CACNA1F* Gene in a Chinese Family with Retinitis Pigmentosa by Next Generation Sequencing. ***BioMed Research International.*** 2015: 907827. {Q2; 2022 IF: 3.2}

80. Mei Z, Zhang C, **Khan MA**, Zhu Y, Tania M, Luo P, Fu J (2015). Efficiency of improved RAPD and ISSR markers in assessing genetic diversity and relationships for Angelica sinensis (Oliv.) Diels varieties from China. ***Electronic Journal of Biotechnology***. 18(2): 96-102. {Q3; IF: 2.3}

81. Mei Z, **Khan MA**, Yang L, Yang M, Fu J (2015). Genetic characterization and authentication of Gardenia jasminoides in different regions of China by using improved RAPD analysis. ***Indian Journal of Experimental Biology***. 53(3): 164-169. {Q3; 2022 IF: 0.6}

82. Long Y, Cheng J, Mei Z, Zhao L, Wei C, Fu S, **Khan MA**, Fu J (2015). Genetic analysis of litchi (*Litchi chinensis* Sonn.) in southern China by improved random amplified polymorphic DNA (RAPD) and inter-simple sequence repeat (ISSR). ***Molecular Biology Reports.*** 42(1): 159-166. {Q2; IF: 2.6}

83. Cheng J, Long Y, **Khan MA**, Wei C, Fu S, Fu J (2015). Development and significance of RAPD-SCAR markers for Litchi chinensis Sonn. variety authentication by improved RAPD amplification and molecular cloning. ***Electronic Journal of Biotechnology***. 18(1): 35-39. {Q3; IF: 2.3}

84. Tania M, **Khan MA** (equal contribution), Fu J (2014). Epithelial to mesenchymal transition inducing transcription factors and metastatic cancer. ***Tumor Biology***. 35(8): 7335-7342. {Q2; 2017 IF: 3.650}

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