

Curriculum Vitae of

Dr. Muhammad Khan

Assistant Professor (TTS)

Department of Zoology

University of the Punjab, Lahore



Personal Information

Given Name:	Muhammad
Surname:	Khan
Gender:	Male
Date of Birth:	14-04-1983
Nationality:	Pakistan
Religion:	Islam
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Academic Qualification

- **Ph.D. (Cell Biology/Cancer Chemical Biology)**, (2009-2012), Institute of Genetics and Cytology, Northeast Normal University, Changchun, Jilin Province, P.R. China.
- **M.Sc. (Zoology)**, (2003-2005), University of the Punjab, Quaid-e-Azam Campus Lahore, Pakistan.
**Distinction: 3rd position in the university examination*
- **B.Sc. (Bot. Zool. Chem.)**, (2001-2003), University of the Punjab, (Govt. Post-graduate College, Chakwal), Pakistan
- **F.Sc. (Premedical)**, (1999-2001), Govt. Post-graduate College Chakwal (BISE

Rawalpindi), Punjab Province, Pakistan

- **S.S.C. (Science)**, Govt. High School Dullah, Chakwal (BISE Rawalpindi), Punjab Province, Pakistan

Professional Education

- **B.Ed. (Bio, Chem.)**, (2005-2006), Allama Iqbal Open University, Islamabad

Employment Profile

- **Assistant Professor**, Department of Zoology, University of the Punjab, Lahore, Pakistan (From Jan 17, 2018 to date).
- **Associate Professor**, College of Basic Medical Sciences, Dalian Medical University, Dalian 116044, P. R. China (From July 15, 2014 to January 16, 2018)
- **Assistant Professor**, Have been recruited as Assistant Professor in School of Biological Sciences (SBS), University of the Punjab Lahore, 54590, Pakistan on 15-05-2014 (Ref. No. SBS/542/14) but did not join.
- **Assistant Professor**, Department of Zoology, University of the Punjab, Lahore 54590, Pakistan (From Sep 4, 2012 to Feb 28, 2014).
- **Lecturer (Biology)**, Cadet College Kallar Kahar, (From Feb 2007 to Aug 2008).
- **Lecturer(Biology)**, Kallar Kahar Science College Kallar Kahar, Chakwal (From Dec 2005 to Feb 2007).

Administrative Experience

- Performed duties of Assistant Superintendent at Boys Hostel No. 4 (Incharge State Maintenance), University of the Punjab, Quaid-e-Azam Campus, Lahore, Pakistan (From Sep 15, 2012 to Feb 28, 2014)
- Performed duties of Assistant Superintendent at Boys Hostel No.7, University of the Punjab, Quaid-e-Azam Campus, Lahore, Pakistan (From Feb. 12, 2018 to date)
- Member Ph.D. Admission Committee 2018
- Member Departmental Sports Committee 2019
- Member MS/M.Phil. Admission Committee 2018, 2019

- Member BS Admission Committee 2019
- Member/Secretary Departmental Disciplinary Committee 2019
- Member Departmental Renovation Committee 2019
- Focal Person for External linkages 2019
- Member Selection Committee for the Appointment of Studentship Under Higher Education Commission Project 2019
- Member University of the Punjab Monitoring Team-06 for B.A./B.Sc. Examination A-2019 Vide letter No. 1452-CA
- Member University of the Punjab Monitoring Team-05 for M.A./M.Sc./B.Com./LL.M. Examination A-2019
- Member Executive Council, Zoological Society of Pakistan (2018-2020)
- Paper Setter/Head Examiner for Comprehensive Exams BS Zoology (Session 2015-19), University of Education, Township, Lahore
- External Examiner for Viva Voce Exams of BS Zoology Theses (Session 2015-19), University of Education, Township, Lahore.
- External/Internal Examiner for B.Sc. Part-I and II Practical Exams (Zoology) 2012, 2013, 2018 and 2019

Post-doctoral Fellowships

- Have been awarded Postdoctoral Fellowship in the Lab of Molecular Biomedicines, Universiti Putra Malaysia (UPM) under the World Academy of Science, 2014-2015 (FR No. 3240275072) but could not join due to recruitment as Associate Professor in DMU, China.
- Visiting Post-doctoral Research Fellow in Department of Physiology, College of Basic Medical Sciences, Dalian Medical University, China (15-7-2013 to 15-9-2014) (Completed a research project entitled “Evodiamine sensitizes U87 glioblastoma cells to TRAIL via Death receptor pathway” published in Mol. Med. Rep.)

Fields of Interest/Research

- Cell and Molecular Biology
- Chemical Cancer Biology
- Natural Product Research
- Anticancer Mechanism of Natural Bioactive Molecules
- Deregulated Cell signaling Pathways as Targets for Anticancer Drug Discovery
- Selective killing of Cancer cells by Targeting their Biochemical Properties (mainly Oxidative Stress)

Theses Written by Me

1. “Growth induction by pelleted artificial feed in grass carp, *Ctenopharyngodon idella*”, under the supervision of Dr. Muhammad Shafiq Ahmed, Department of Zoology, University of the Punjab, Lahore (M.Sc. degree 2005).
2. “Identification and characterization of natural antiglioblastoma compounds from Chinese medicinal herbs”, under the supervision of Prof. Dr. Tonghui Ma, Institute of Genetics and Cytology, Northeast Normal University, Changchun, China (Ph.D. degree 2012).

Theses Written Under My Supervision/Co-Supervision

1. **Tahir Mehmood:** Targeting Hepatocellular Carcinoma with Natural Sesquiterpene Lactone Compounds (**Ph.D., 2017**).
2. **Amara Maryam:** Identification and Characterization of Natural Anti-Lung Adenocarcinoma Compounds from Medicinal Plants (**Ph.D., 2017**).
3. **Rabia Asif:** Effect of ALAN on Liver and Kidney Function Biomarkers (**M.Sc., 2019**).
4. **Nafeesa Afzal:** Effect of ALAN on Complete Blood Count Profile (**B.S., 2019**).
5. **Humaira Shah:** Hippophae rhamnoides mediate gene expression profiles against keratinocytes infection of staphylococcus aureus (**M.Phil., 2019**).
6. **Nazia Iram:** Statistical optimization of amylase production using grape fruit peels in submerged fermentation (**M.Phil., 2019**).
7. **Umar Khatab:** Association of serum selenium level with development of type 2 diabetes

- mellitus in Pakistani population **(M.Phil. In Service., 2019)**
8. **Saima Kanwal:** Determination of risk factors for breast cancer in Pakistani women **(M.Phil., 2019)**
 9. **Aqsa Pervaiz:** Statistical optimization of pre-treatment condition(s) for *Bombax ceiba* leaves to enhance microbial cellulose production **(M.Phil. In Service, 2019)**
 10. **Shehzana Kiran Raza:** Optimization of acid pretreatment of *Alstonia scholaris* using response surface methodology. **(M.Phil. In Service, 2019)**
 11. **Madiha Arshad:** Hepatotoxic effect of 3rd generation fluoroquinolones. **(M.Phil. Evening, 2020)**
 12. **Sana Saeed:** Statistical optimization of process parameters for chitin extraction from fish waste. **(M.Phil. Evening, 2020)**
 13. **Rabab Mazhar:** Optimization of conditions for chitin extraction from scales of grass carp using response surface methodology. **(M.Phil. Evening, 2020)**
 14. **Muhammad Zubair Saleem:** Exploring the anticancer mechanism of natural bioactive compounds in breast cancer cells. **(Ph.D. 2020)**

Evaluation and Examination of Research Theses of Other Institutes

1. Evaluated Ph.D. thesis titled “Genetic diversity of multi-drug resistant *mycobacterium tuberculosis* in Pakistan” of Mr. Husnain Javed, Department of Microbiology and Molecular Genetics, Punjab University, Lahore. 2017
2. Evaluated and conducted viva voce examination of BS thesis titled “Development of eco-friendly and low cost feed for Nile Tilapia (*Oreochromis niloticus*) fingerlings fed on Moringa by-products based diet” of Mr. Muammad Tahir Rafique, Department of Zoology, University of Education, Township, Lahore. 29-08-2019
3. Evaluated and conducted viva voce examination of BS thesis titled “Efficacy of Taurine addition on performance of Common Carp (*Cyprinus carpio*) fingerlings fed on oil seed meal based diet” of Ms. Fatima Khalid, Department of Zoology, University of Education, Township, Lahore. 29-08-2019
4. Evaluated and conducted viva voce examination of BS thesis titled “Role of phytase addition on Liver histopathology of Nile Tilapia (*Oreochromis niloticus*) fingerlings fed

Moringa by product based diet” of Ms. Sara Mahmood, Department of Zoology, University of Education, Township, Lahore. 29-08-2019

5. Evaluated and conducted viva voce examination of BS thesis titled “Effects of phytase supplemented Moringa by-product based diet on liver of Common carp (*Cyprinus carpio*) fingerlings” of Ms. Kiran Ayub, Department of Zoology, University of Education, Township, Lahore. 29-08-2019

Academic Awards/Achievements

- Winner of Top 1% Publons Global Peer Review Award 2019 in Cross-field.
- Winner of Top 1% Publons Global Peer Review Award 2019 in Plant and Animal Sciences
- Approval of Travel Grant amounting Rs. 328040/- to Present Research Paper in 13th World Cancer Congress 2019 in Paris, France (February 25-27, 2019)
- Winner of Top 1% Publons Global Peer Review Award 2018 in Clinical Medicine.
- Was awarded Certificate of Excellence for Outstanding Performance and Research Productivity for year 2016 by Dalian Medical University, Dalian, China.
- Was awarded an incentive award on research publication during Ph.D. by Central Research Lab of Bethune Second Hospital, Jilin University Changchun, China amounting 30,000 RMB (2012).
- Award of Cultural Exchange Scholarship for Ph.D. from the Ministry of Education of Pakistan and China scholarship council (CSC) of China (2009-2012).
- Was awarded merit scholarship by University of the Punjab, Lahore for M.Sc. studies (2003-2005)

Conferences, Workshops and Symposia

- Attended the 11th Chinese conference on Cell Biology & Xi'an International Conference on Cell Biology 2009, Xi'an, China (July 4-7, 2009)
- Attended the International symposium on channelopathy and new strategies of drug discovery, held at Bethune Second Hospital of Jilin university, Changchun, China (October 12-14, 2010)

- Attended the 9th International Symposium on the Chemistry of Natural Compounds. Held at the Xinjiang Technical Institute of Physics and Chemistry (CAS) Urumqi, China. (Oct 16-22, 2011)
- Participated in 33rd Pakistan Cong. Zool., held at Convention Centre Islamabad, Pakistan (April 2-4, 2013).
- Participated in 34th Pakistan Cong. Zool., Held at Bahauddin Zakariya University Multan, Pakistan (Feb 25-27, 2014).
- Participated in BIT's 7th Annual World Congress of Molecular & Cell Biology-2017., Held at Hilton, Xian, China (April 25-27, 2017)
- Participated as Speaker in Academic Exchange Forum between DMU & Ehim-U “Development Forum of BMS Discipline”. Held at Dalian Medical University (15-9-2017)
- Attended National Workshop on “Potential of Sericulture for Employment and Income Generation” organized by Department of Zoology, University of the Punjab Lahore and Punjab Forestry Research Institute on February 15, 2018.
- Participated in 38th Pakistan Congress of Zoology as Plenary Speaker, held at Punjab University Lahore, Pakistan (Feb 27 – March 1, 2018)
- Participated in BIT's 9th Anniversary World DNA Day-2018 (WDD-2018) as speaker, held at International Conference Centre Dalian, China (April 25-27, 2018).
- Participated in “Awareness Seminar on HEC Research Projects under TDF” organized by ORIC, University of the Punjab, Lahore on August 10, 2018.
- Participated in “Faculty Development Orientation Program” conducted by HRD Center at IAS, University of the Punjab, Lahore (September 4-7, 2018).
- Participated in the International Symposium on Integrated Pest Management for Food Safety, held at Punjab University on January 30, 2019.
- Participated in Web of Sciences Conference, held at Centre of Excellence in Molecular Biology, University of the Punjab, Lahore (March 11, 2019)
- Attended Curriculum Orientation Workshop on Zoology, held at Lahore College for Women University, Lahore (April 22-24, 2019).

- Participated in International Conference of Punjab University 2019 on “Recent Innovations in Molecular Sciences”, Held at PU Lahore (November 6-8, 2019)

Conferences, Workshops and Symposia Organized

- Organized 3rd one day workshop on “Hands on practice of Basic Lab. Instruments” on February 3, 2018 at Department of Zoology, University of the Punjab, Lahore.
- Organized 38th Pakistan Congress of Zoology, held at Punjab University Lahore, Pakistan, (Feb 27 – March 1, 2018).
- Organized International Conference of Punjab University 2019 on “Recent Innovations in Molecular Sciences”, held at PU Lahore. (November 6-8, 2019).

Invited Lectures

- Delivered a lecture on “Identification and Characterization of Natural Anti-glioblastoma Compounds from Chinese Medicinal Herbs” on 02-08-2013 at Guangzhou Institute of Biomedicine and Health, Guangzhou, China. (Sponsored by GIBH, Guangzhou, China).
- Delivered a lecture on “Plant-derived Natural Bioactive Molecules as Potential Anticancer Agents” in one day seminar on “Recent Trends in Cancer Research” held at Department of Biotechnology, University of Sargodha, Sargodha (February 27, 2019).

Principal Investigator of Research Projects

- “Hepatotoxicity and Nephrotoxicity of Medicinal Plants of Pakistan” sponsored by Higher Education Commission (HEC) of Pakistan (2013). (Grant No. PD/IPFP/HRD/HEC/2013/1917) Total granted amount = 0.5 Million PKR.
- A Start-up research grant of 300,000- RMB by Dalian Medical University (DMU), Dalian China, for 3 years (2014-2017) to conduct research on anticancer drug development.
- “Simultaneous targeting of STAT3 and NF- κ B signaling pathways with natural bioactive compounds for effective management of Non-Small Cell Lung Cancer” sponsored by National Natural Science Foundation of China (NSFC) for year 2017. (Grant No. 81650110526). Total granted amount = 192,000- RMB.
- “Chemo-preventive effect of EVOO against ALAN-induced breast cancer” sponsored by

University of the Punjab, Lahore (2019-2020). Total granted amount = Rs150,000/-

Co-Principal Investigator of Research Projects

- “The functional role and molecular mechanism of AND-1 in DNA DSB repair” sponsored by NSFC for 3 year (1/1/2015-31/12/2017) (Grant No.81402330) Total granted amount = 230,000 RMB.
- “Statistical optimization of extraction of chitin and chitosan from fish scales” sponsored by University of the Punjab, Lahore (2019-2020). Total granted amount = Rs150,000/-
- “Chemopreventive potential of Extra-virgin olive oil (EVOO) against Bisphenol A (BPA)-induced breast cancer” sponsored by Higher Education Commission (HEC) of Pakistan (2020). (Grant No. 21-2570/SRGP/HRD/HEC/2020. Total granted amount = 0.5 Million PKR.

Supervision/Co-Supervision of Research Students

S.No	Name of Student	Student ID/ Roll No	Degree	Session	Institution	Status
1	Tahir Mehmood	51412006	Ph.D.	2014-2017	DMU	Completed
2	Amara Maryam	51412004	Ph.D.	2014-2017	DMU	Completed
3	Muhammad Zubair Saleem	2716100104032	Ph.D.	2016-2020	DMU	Completed
4	Nafeesa Afzal	Z15-21	B.S.	2015-2019	PU	Completed
5	Rabia Asif	M17-07	M.Sc	2017-2019	PU	Completed
6	Nazia Iram	ZMPI16-02	M.Phil	2016-2019	PU	Completed
7	Humaira Shah	UZ05F17	M.Phil	2017-2019	PU	Completed
8	Umar Khatab	ZMPI17-21	M.Phil	2017-2020	PU	Completed
9	Saima Kanwal	ZMPI17-15	M.Phil	2017-2020	PU	Completed
10	Aqsa Pervaiz	ZMP17-13	M.Phil	2017-2020	PU	Completed
11	Shehzana Kiran Raza	ZMP17-30	M.Phil	2017-2020	PU	Completed
12	Madiha Arshad	UZ11S18	M.Phil	2018-2020	PU	Completed
13	Muhammad Faisal Maqbool	MS-UZ08F18	M.S.	2018-2020	PU	In Progress

14	Ayesha Ashaq	MS-UZ07F18	M.S.	2018-2020	PU	In Progress
15	Sayeda Urooj Bukhari	M18-12	M.Sc	2018-2020	PU	In Progress
16	Shifa Rabbani	Z16-16	B.S.	2016-2020	PU	In Progress
17	Sayyeda Hira Hassan	PhD-UZ01F18	Ph.D.	2018- Onward	PU	In Progress
18	Hafiza Sadaf Zahra	PhD-UZ011F18	Ph.D.	2019- onward	PU	In Progress
19	Erum Zafar	MS-UZ10F19	M.S.	2019-2021	PU	In Progress
20	Shamza Batool	M.Phil-UZ10F19	M.Phil	2019-2021	PU	In Progress
21	Zainab Ahsan	MS-UZE08F19	M.S.	2019-2021	PU	In Progress
22	Memoona Khalid	M.Phil-UZE07F19	M.Phil	2019-2021	PU	In Progress

List of Publications

Cumulative Impact Factor = 137.203

2010-2012 (Impact Factor 39.72)

1. **Khan M**, Rasul A, Yi F, Zhong L, Ma T. Jaceosidin induces p53-dependent G2/M phase arrest in U87 glioblastoma cell. *Asian Pac J Cancer Prev.*, 2011;12(12):3235-8. (Impact Factor 1.24)
2. Rasul A, **Khan M**, Yu B, Ma T, Yang H. Xanthoxyletin, a coumarin induces S phase arrest and apoptosis in human gastric adenocarcinoma SGC-7901 cells. *Asian Pac J Cancer Prev.*, 2011;12(5):1219-23. (Impact Factor 1.24)
3. Al-shawi A, Rasul A, **Khan M**, Iqbal F, Ma T. Eupatilin: A flavonoid compound isolated from the artemisia plant, induces apoptosis and G2/M phase cell cycle arrest in human melanoma A375 cells. *Afr. J. Pharm. Pharm.*, 2011; 5(5); 582-588. (Impact Factor 0.69)

4. Rasul A, Yu B, Yang LF, Ali M, **Khan M**, Ma T, Yang H. 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. ([Impact Factor 1.24](#))
5. **Khan M**, Yu B, Rasul A, Al Shawi A, Yi F, Yang H, Ma T. Jaceosidin induces apoptosis in U87 glioblastoma cells through G2/M phase arrest. *Evid Based Complement Alternat Med.*, 2012; 2012:703034 . ([Impact Factor 4.77](#))
6. **Khan M**, Ding C, Rasul A, Yi F, Li T, Gao H, Gao R, Zhong L, Zhang K, Fang X, Ma T. Isoalantolactone induces reactive oxygen species mediated apoptosis in pancreatic carcinoma PANC-1 cells. *Int J Biol Sci.*, 2012;8(4):533-47 ([Impact Factor 3.21](#))
7. **Khan M**, Zheng B, Yi F, Rasul A, Gu Z, Li T, Gao H, Qazi J.I, Yang H, Ma T. Pseudolaric acid B induces caspase-dependent and caspase- independent apoptosis in U87 glioblastoma cells. *Evid Based Complement Alternat Med.*, 2012; 2012:957568. ([Impact Factor 4.77](#)).
8. **Khan M**, Xiao Y, Yu B, Wang N, Rasul A, Yi F, Yang L, Yang H, Ma T. 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. *J. Med. Plant Res.*, 2012; 6(21): 3754-3765 ([Impact Factor 0.88](#))
9. **Khan M**, Yi F, Rasul A, Li T, Wang N, Gao H, Gao R, Ma T. Alantolactone induces apoptosis in glioblastoma cells via GSH depletion, ROS generation and mitochondrial dysfunction. *IUBMB Life*, 2012;64(9):783-94. ([Impact Factor 4.25](#))
10. Yi F, **Khan M**, Gao H, Hao F, Sun M, Zhong L, Lu C, Feng X, Ma T. Increased differentiation capacity of bone marrow-derived mesenchymal stem cells in aquaporin-5 deficiency. *Stem Cells Dev.* 2012; 1:21(13):2495-507. ([Impact Factor 4.79](#))
11. Ding C, **Khan M**, Zheng B, Yang J, Zhong L, Ma T. Casticin induces apoptosis and mitotic arrest in pancreatic carcinoma PANC-1 cells. *Afr. J. Pharm. Pharm.*, 2012; 6(6): 412-418. ([Impact Factor 0.83](#))
12. Rasul A, Yu B, **Khan M**, Al-Shawi A, Yang H, Ma T. Tubeimoside-1 induces G2/M phase cell cycle arrest and mitochondria-mediated apoptosis in human gastric adenocarcinoma SGC-7901 cells. *Pak J. Pharm. Sci.*, 2012 ([Impact Factor 1.10](#))

13. Rasul A, Chuan D, Li X, **Khan M**, Yi F, Ali M, Ma T. Dracorhodin perchlorate
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. (Impact
Factor 4.78)
14. Rasul A, Yu B, Zhong L, **Khan M**, Yang H, Ma T. Cytotoxic effect of evodiamine in
SGC-7901 human gastric adenocarcinoma cells via simultaneous induction of apoptosis
and autophagy. *Oncol rep.*, 2012;27(5):1481-7. (Impact Factor 1.83)
15. Rasul A, Yu B, Yang L.F, Arshad M, **Khan M**, Ma T, Yang H. Costunolide, a
sesquiterpene lactone induces G2/M phase arrest and mitochondria-mediated apoptosis in
human gastric adenocarcinoma SGC-7901 cells. *J. Med. Plant Res.*, 2012; 6(7):
1191-1200. (Impact Factor 0.88)
16. Wang C, Zhang J, Wang Z, Razzaq M, **Khan M**. Vitexicarpin induces
apoptosis-independent mitotic arrest in U87 glioblastoma cells. *Afr. J. Pharm. Pharm.*,
2012; 6(25): 1874-1882. (Impact Factor 0.83)
17. Rasul A, Yu B, **Khan M**, Zhang K, Iqbal F, Ma T, Yang H. Magnolol, a natural
compound, induces apoptosis of SGC-7901 human gastric adenocarcinoma cells via the
mitochondrial and PI3K/Akt signaling pathways. *Int J Oncol.*, 2012;40(4): 1153 -61.
(Impact Factor 2.39)

2013-2015 (Impact Factor 23.163)

18. **Khan M**, Qazi J.I, Rasul A, Zheng Y and Ma T. Evodiamine induces apoptosis in
pancreatic carcinoma PANC-1cells via NF κ B inhibition. *Bangl. J. Pharmacol.*, 2013; 8:
8-14 (Impact Factor 0.62)
19. **Khan M**, Li T, Rasul A, Nawazs F, Sun M, Zheng Y and Ma T. Alantolactone induces
apoptosis in HepG2 cells through GSH depletion, inhibition of STAT3 activation and
mitochondrial dysfunction. *BioMed Research International*, 2013;2013:719858. (Impact
Factor 2.88)
20. Zhou Y, Bi Y, Yang C, Yang J, Jiang Y, Meng F, Yu B, **Khan M**, Ma T, Yang H. Magnolol
induces apoptosis in MCF-7 human breast cancer cells through G2/M phase arrest and
caspase-independent pathway. *Pharmazie*, 2013; 68(9): 755-62. (Impact Factor 1.006)

21. Jiang Y, Yang J, Yang C, Meng F, Zhou Y, Yu B, **Khan M**, Yang H. Vitamin K4 induces tumor cytotoxicity in human prostate carcinoma PC-3 cells via mitochondria-related apoptotic pathway. *Pharmazie*, 2013; 68(6): 442-8. (Impact Factor 1.006)
22. Kong M, Liu L, Yi F, **Khan M**, Rasul A, Yang F, Ma X, Ma T. Prevalence of Infarct, villous clump, and alpha-smooth muscle actin expression in basal plate of placenta in severe preeclampsia. *Mol Med Rep.*, 2013; 8(4): 1067-1073. (Impact Factor 1.17)
23. Rasul A, **Khan M**, Yu B, Ali M, Yang J, Yang H, Ma T, Isoalantolactone, a sesquiterpene lactone, induces apoptosis in SGC-7901 cells via mitochondrial and phosphatidylinositol 3-kinase /Akt signaling pathways. *Archives of Pharmacal Research.*, 2013; 36(10):1262-9 (Impact Factor 1.59)
24. Rasul A, **Khan M**, Ali M, Li J, Li X. Targeting apoptosis pathways in cancer with alantolactone and isoalantolactone. *Sci World J.*, 2013; 2013: 248532. (Impact Factor 1.73)
25. Di W, **Khan M**, Rasul A, 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. *Oncol rep.*, 2014;32(4):1585-93. (Impact Factor 2.29)
26. **Khan M**, Bi Y, Qazi J.I, Fan L, Gao H. Evodiamine sensitizes U87 glioblastoma cells to TRAIL via Death receptor pathway. *Mol Med Rep.*, 2015;11(1):257-62. (Impact Factor 1.48)
27. **Khan M**, Maryam A, Qazi J.I, Ma T. Targeting apoptosis and multiple signaling pathways with Icariside II in cancer cells. *Int J Bio Sci.*, 2015; 11(9): 1100-1112. (Impact Factor 4.509).
28. Sohail M, **Khan M**, Zhang Y, Peng C, Chen Q, Zhao Z.K. Four-component electrophilic difunctionalization of olefins using sulfonic acids, cyclic ethers and NBS. *Tetrahedron Lett.*, 2015;56 (42): 5743-5746. (Impact Factor 2.379).
29. **Khan M***, Maryam A, Mehmood T, Zhang Y, Ma T. Enhancing the activity of anticancer drugs in multidrug resistant tumors by modulating p-glycoprotein through dietary nutraceuticals. *Asian Pac J Cancer Prev.*, 2015;16(16), 6831-6839 (Impact

Factor 2.514)

2016- 2018 (Impact Factor 43.662)

30. **Khan M**, Maryam A, Zhang H, Mehmood T, Ma T. Killing cancer with platycodin D through multiple mechanisms. *J Cell Mol Med.* 2016; 20(3), 389-402. (Impact Factor 4.938)
31. Sohail M, Peng C, Ning S, Zhang Y, **Khan M**, Zhao Z.K. Bromophosphoalkoxylation of Olefins with Organic Phosphates, Cyclic Ethers and NBS. *Tetrahedron.*, 2016; 72(5), 658–663. (Impact Factor 2.645)
32. Yang J, **Khan M**, He Y, Yao M, Li Y, Gao H, Ma T. Tubeimoside-1 induces G0/G1 phase arrest and oxidative stress mediated-apoptosis in human prostate carcinoma DU145 cells. *Acta Pharmacol Sin.*, 2016; 37(7):950-62. (Impact Factor 3.166)
33. Mehmood T, Maryam A, Zhang H, Li Y, **Khan M***, Ma T*. Deoxyelephantopin induces apoptosis in HepG2 cells via oxidative stress, NF- κ B inhibition and mitochondrial dysfunction. *Biofactors.*, 2016; 43(1):63-72. (Impact Factor 4.504)
34. Di W, **Khan M**, Gao Y, Cui J, Deqiang W, Feng L, Maryam A, Gao H. Vitamin K4 inhibits proliferation and induces apoptosis in U2OS osteosarcoma cells through mitochondrial dysfunction. *Mol Med Rep.*, 2017;15: 277-284. (Impact Factor 1.559)
35. **Khan M*** and Ma T. Is oxidative stress in cancer cells a real therapeutic target? *Clin Oncol.*, 2017;2:1211.
36. Mehmood T, Maryam A, Ghramh HA, **Khan M***, Ma T*. Deoxyelephantopin and Isodeoxyelephantopin as Potential Anticancer Agents with Effects on Multiple Signaling Pathways. *Molecules.*, 2017; 22(6): 1013. (Impact Factor 2.861)
37. Maryam A, Mehmood T, Zhang H, Li Y, **Khan M***, Ma T*. Alantolactone induces apoptosis, promotes STAT3 glutathionylation and enhances chemosensitivity of A549 lung adenocarcinoma cells to doxorubicin via oxidative stress. *Sci Rep.*, 2017;7(1):6242. (Impact Factor 4.259)
38. Mehmood T, Maryam A, Tian X, **Khan M***, Ma T*. Santamarine (STM), a sesquiterpene lactone, inhibits NF- κ B and STAT3 activation and induces apoptosis in HepG2 liver cancer cells via oxidative stress. *J Cancer.*, 2017;8(18):3707-37017. (Impact

Factor 2.916)

39. Wu X, Zhu H, Yan J, **Khan M**, Yu X. Santamarine inhibits NF- κ B activation and induces mitochondrial apoptosis in A549 lung adenocarcinoma cells via oxidative stress. *BioMed Research International.*, 2017;2017: 4734127. (Impact Factor 2.476)
40. Yan Q, Gu Y, Li X, Yang W, Jia L, Chen C, Han X, Huang Y, Zhao L, Li P, Fang Z, Zhou J, Guan X, Ding Y, Wang S, **Khan M**, Xian Y, Ma Y. Alteration of the gut microbiome in hypertension. *Front Cell Infect Microbiol.*, 2017;7:381. (Impact Factor 4.3)
41. Maryam A, Mehmood T, Yan Q, Li Y, **Khan M***, Ma T*. Proscillaridin A promotes oxidative stress and ER stress, inhibits STAT3 activation and induces apoptosis in A549 lung adenocarcinoma cells. *Oxid Med Cell Longev.*, 2018; 2018:3853409. doi: 10.1155/2018/3853409 (Impact Factor 4.936)
42. He Y, **Khan M**, Yang J, Yao M, Yu S, Gao H. Proscillaridin A induces apoptosis, inhibits STAT3 activation and augments doxorubicin toxicity in prostate cancer cells. *Int J Med Sci.*, 2018; 15(8): 832-839 (Impact Factor 2.399)
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Membership

1. National Academy of Young Scientists (NAYS)
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3. Life Fellow Zoological Society of Pakistan
4. British Sciences Association
5. International Society for Infectious Diseases (ISID)
6. International Association for Promotion of Healthcare and Life-Science Research
(Membership ID: IAPHLSR-M1689).
7. Middle East Molecular Biology Sources (MEMBS) (Membership No: A004684).

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