

## CURRICULUM VITAE



**Professor**


**(Coordinator of DNA Research Chair)**

Department of Zoology, College of Sciences

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**QUAISER SAQUIB, Ph.D.**

**Google Scholar: *h-index* (36), Citations (5250)**

(<https://scholar.google.com/citations?hl=en&user=Ju9XhMoAAAAJ>)

**Scopus: *h-index* (33), Citations (4151)**

(<https://www.scopus.com/authid/detail.uri?authorId=26635844000>)

**Web of Science: *h-index* (31), Citations (3347)**

(<https://www.webofscience.com/wos/author/record/I-3043-2013>)

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### PRESENT STATUS

Working as a Professor and Coordinator of DNA Research Chair in Department of Zoology, College of Sciences, King Saud University, Riyadh, Saudi Arabia.

### RESEARCH INTERESTS

My research interests include cell biology, molecular toxicology, nanotoxicology, environmental toxicology, carcinogenesis, anti-cancer biology, drug screening, biophysical ligand-macromolecules interaction, phytotoxicity. The horizon of research can be categorized in four-folds explaining;

- Toxicogenomics, genotoxicity, cytotoxicity, DNA damage, apoptosis, Ca<sup>++</sup> influx, esterase activity, oxidative stress, mitochondrial dysfunction, translational changes, histological/ultrastructural effects in *in vitro* (human lymphocytes and cell lines) and *in vivo* (mouse/rat) test models.
- Anti-cancer efficacies of chemically synthesized drugs, marine and phyto-derived compounds.
- Biophysical interaction analysis of xenobiotics, as exogenous ligands with biological macromolecules (DNA/proteins).
- Assessment of xenobiotics induced phytotoxicity using plants as model system.

## EDUCATION

- 2009 Ph.D. Agricultural Microbiology**  
(Thrust Area: Pesticide toxicity in bacteria and human lymphocytes).  
Aligarh Muslim University, India.
- 2002 M.Sc. Agricultural Microbiology**  
(Thrust Area: Microbial degradation of pesticide).  
Aligarh Muslim University, India.
- 2000 B.Sc. (Honours) Zoology**  
Aligarh Muslim University, India.

## LIST OF ISI JOURNAL PUBLICATIONS (Total 98 Publications, 2009-2024)

1. **Quaiser Saquib**, Ahmed H. Bakheit, Sarfaraz Ahmed, Sabiha M. Ansari, Abdullah M. Al-Salem, Abdulaziz A. Al-Khedhairi. Identification of Phytochemicals from Arabian Peninsula Medicinal Plants as Strong Binders to SARS-CoV-2 Proteases (3CL<sup>Pro</sup> and PL<sup>Pro</sup>) by Molecular Docking and Dynamic Simulation Studies. *Molecules* (2024) 29(5), 998 (**IF: 4.60**).
2. Ahmed H. Bakheit, **Quaiser Saquib**, Sarfaraz Ahmed, Sabiha M. Ansari, Abdullah M. Al-Salem, Abdulaziz A. Al-Khedhairi. Covalent Inhibitors from Saudi Medicinal Plants Target RNA-Dependent RNA Polymerase (RdRp) of SARS-CoV-2. *Viruses* (2023) 15, 2175. (**IF: 4.7**)
3. **Quaiser Saquib**, Stefan Schwaiger, Mostafa Alilou, Sarfaraz Ahmed, Maqsood A Siddiqui, Javed Ahmad, Mohammad Faisal, Eslam M Abdel-Salam, Rizwan Wahab, Adnan J Al-Rehaily, Hermann Stuppner, Abdulaziz A Al-Khedhairi. Marine Natural Compound (Neviotin A) Displays Anticancer Efficacy by Triggering Transcriptomic Alterations and Cell Death in MCF-7 Cells. *Molecules* (2023) 28(17), 6289. (**IF: 4.60**)
4. Mohammad Rafe Hatshan, **Quaiser Saquib**, Maqsood A. Siddiqui, Mohammad Faisal, Javed Ahmad, Abdulaziz A. Al-Khedhairi, Mohammed Rafi Shaik, Mujeeb Khan, Rizwan Wahab, Valeria De Matteis, Syed Farooq Adil. Effectiveness of Nonfunctionalized Graphene Oxide Nanolayers as Nanomedicine against Colon, Cervical, and Breast Cancer Cells. *International Journal of Molecular Sciences* (2023) 24(11), 9141. (**IF: 6.20**).
5. Rizwan Wahab, Maqsood A. Siddiqui, Javed Ahmad, **Quaiser Saquib**, Abdulaziz A. Al-Khedhairi. (2023). A cytological efficiency evaluation study of rare earth and carbon-based material against breast cancer cells. *Journal of King Saud University-Science* 35 102869. (**IF: 3.80**).
6. Maqsood A. Siddiqui, Rizwan Wahab, **Quaiser Saquib**, Javed Ahmad, Nida N. Farshori, Ebtesam S. Al-Sheddi, Mai M. Al-Oqail, Shaza M. Al-Massarani, Abdulaziz A. Al-Khedhairi. (2023) Iron oxide nanoparticles induced cytotoxicity, oxidative stress, cell cycle arrest, and DNA damage in human umbilical vein endothelial cells. *Journal of Trace Elements in Medicine and Biology* 80, 127302. (**IF: 3.5**).
7. Rizwan Wahab, Maqsood A Siddiqui, Jared Ahmad, **Quaiser Saquib**, Abdulaziz A Al-Khedhairi. A comparative cytological study of silver and molybdenum oxide

- nanostructures against breast cancer cells. *Journal of King Saud University-Science*. (2023) 35 (7), 102843. **(IF: 3.80)**.
8. Nida N Farshori, Ebtesam S Al-Sheddi, Mai M Al-Oqail, Shaza M Al-Massarani, Ebtesam A Al-Jassas, Javed Ahmad, **Quaiser Saquib**, Rizwan Wahab, Abdulaziz A Al-Khedhairi, Maqsood A Siddiqui. Artemisia monosperma induces ROS-mediated cell death in human colorectal carcinoma cells via modulating apoptotic genes. *Journal of King Saud University-Science*. (2023) 35 (6), 102763. **(IF: 3.80)**.
  9. Javed Ahmad, Rizwan Wahab, Maqsood A Siddiqui, **Quaiser Saquib**, Abdulaziz A Al-Khedhairi. Synthesis, characterization of Vanadium oxide nanostructures and their cytotoxic activities in Human cell lines. *Journal of King Saud University-Science*. (2023) 35 (8), 102856. **(IF: 3.80)**.
  10. Hatem A. Abuelizz, Ahmed H. Bakheit, Mohamed Marzouk, Waled M. El-Senousy, Mohamed M. Abdellatif, Gamal A. E. Mostafa, **Quaiser Saquib**, Sawsan B. Hassan, Rashad Al-Salahi. Antiviral activity of some benzo[g]quinazolines against coxsackievirus B4: biological screening and docking study. *Pharmacological Reports*. (2023) 75(4):962-978. **(IF: 3.91)**.
  11. **Quaiser Saquib**, Abdullah M. Al-Salem, Maqsood A. Siddiqui, Sabiha M. Ansari, Xiaowei Zhang, Abdulaziz A. Al-Khedhairi. Organophosphorus Flame Retardant TDCPP Displays Genotoxic and Carcinogenic Risks in Human Liver Cells. *Cells* (2022), 11, 195. **(IF: 7.66)**.
  12. **Quaiser Saquib**, Abdullah M. Al-Salem, Maqsood A. Siddiqui, Sabiha M. Ansari, Xiaowei Zhang, Abdulaziz A. Al-Khedhairi. Cyto-Genotoxic and Transcriptomic Alterations in Human Liver Cells by Tris (2-ethylhexyl) phosphate (TEHP): A Putative Hepatocarcinogen. *International Journal of Molecular Sciences* (2022) 23(7), 3998. **(IF: 6.20)**.
  13. **Quaiser Saquib**, Abdullah M. Al-Salem, Maqsood A. Siddiqui, Sabiha M. Ansari, Xiaowei Zhang, Abdulaziz A. Al-Khedhairi. Tris(2-butoxyethyl) phosphate (TBEP): A Flame Retardant in Solid Waste Display Hepatotoxic and Carcinogenic Risks for Humans. *Chemosphere* 296 (2022), 133977. **(IF: 8.94)**.
  14. Javed Ahmad, Rizwan Wahab, Maqsood A Siddiqui, Nida Nayyar Farshori, **Quaiser Saquib**, Naushad Ahmad, Abdulaziz A Al-Khedhairi, Neodymium oxide nanostructures and their cytotoxic evaluation in human cancer cells. *Journal of Trace Elements in Medicine and Biology* (2022) 73, 127029. **(IF: 3.99)**.
  15. Rizwan Wahab, Farheen Khan, Neha Kaushik, Nagendra Kumar Kaushik, Linh Nhat Nguyen, Eun Ha Choi, Maqsood A.Siddiqui, Nida Nayyar Farshori, **Quaiser Saquib**, Javed Ahmad, Abdulaziz A.Al-Khedhairi, L-cysteine embedded core-shell ZnO microspheres composed of nanoclusters enhances anticancer activity against liver and breast cancer cells. *Toxicology in Vitro* (2022) 25, 105460. **(IF: 3.68)**.
  16. Nida Nayyar Farshori, Mai Mohammad Al-Oqail, Ebtesam Saad Al-Sheddi, Shaza Mohamed Al-Massarani, **Quaiser Saquib**, Maqsood Ahmed Siddiqui, Rizwan Wahab, Abdulaziz Ali Al-Khedhairi. Green synthesis of silver nanoparticles using Phoenix dactylifera seed extract and its anticancer effect against human lung adenocarcinoma cells. *Journal of Drug Delivery Science and Technology* 70 (2022) 103260. **(IF: 3.98)**.
  17. Farshori NN, Siddiqui MA, Al-Oqail MM, Al-Sheddi ES, Al-Massarani SM, **Saquib Q**, Ahmad J, Al-Khedhairi AA. Aloe vera-induced apoptotic cell death through ROS generation, cell

- cycle arrest, and DNA damage in human breast cancer cells. *Biologia* (2022) 77, 2751–2761. **(IF: 1.65)**
18. Javed Ahmad, Rizwan Wahab, Maqsood A. Siddiqui, **Quaiser Saquib**, Naushad Ahmad & Abdulaziz A. Al-Khedhairi. Strontium-Doped Nickel Oxide Nanoparticles: Synthesis, Characterization, and Cytotoxicity Study in Human Lung Cancer A549 Cells. *Biological Trace Elements Research* (2021) 200, 1598–1607. **(IF: 2.43)**.
  19. Sabiha Mahmood Ansari, **Quaiser Saquib**, Valeria De Matteis, Hend Awad Alwathnani, Sulaiman Ali Alharbi, Abdulaziz Ali Al-Khedhairi. Marine Macroalgae Display Bioreductant Efficacy for Fabricating Metallic Nanoparticles: Intra/Extracellular Mechanism and Potential Biomedical Applications. *Bioinorganic Chemistry and Applications* (2021) Article ID 5985377. **(IF: 7.78)**.
  20. Niraj Lodhi, Rubi Singh, Satya Prakash Rajput, **Quaiser Saquib**. SARS-CoV-2: Understanding the Transcriptional Regulation of ACE2 and TMPRSS2 and the Role of Single Nucleotide Polymorphism (SNP) at Codon 72 of p53 in the Innate Immune Response against Virus Infection. *International Journal of Molecular Sciences* (2021) 22, 8660. **(IF: 5.92)**.
  21. Rizwan Wahab, Maqsood A. Siddiqui, Javed Ahmad, **Quaiser Saquib**, Abdulaziz A. Al-Khedhairi. Cytotoxic and molecular assessment against breast (MCF-7) cancer cells with cobalt oxide nanoballs. *Journal of King Saud University-Science* 33(5), (2021) 101467. **(IF: 3.1)**.
  22. Rizwan Wahab, Farheen Khan, Maqsood A. Siddiqui, Javed Ahmad, **Quaiser Saquib**, Abdulaziz A. Al-Khedhairi. Cytotoxic assessment of liver cancer cells (HepG2) with raw, functionalized multiwalled carbon nanotubes and their comparison with nanohydroxyapatite. *Journal of King Saud University-Science* (2021) 33, 1014442. **(IF: 3.1)**.
  23. **Saquib Q**, Siddiqui M, Al-Khedhairi A. Organophosphorus flame-retardant tris(1-chloro-2-propyl)phosphate is genotoxic and apoptotic inducer in human umbilical vein endothelial cells. *Journal of Applied Toxicology*. (2021), 41(5): 861–873. **(IF: 2.99)**.
  24. **Quaiser Saquib**, Maqsood A. Siddiqui, Sabiha M. Ansari, Hend A. Alwathnani, Abdulaziz A. Al-Khedhairi. Carbofuran trigger cytotoxicity, DNA damage, oxidative stress and cell death in human umbilical vein endothelial cells (HUVECs): An evidence of vascular toxicity. *Journal of Applied Toxicology*. (2021) 41(5): 847-860. **(IF: 2.99)**.
  25. **Quaiser Saquib**, Maqsood A. Siddiqui, Sabiha M. Ansari, Hend A. Alwathnani, Javed Musarrat, Abdulaziz A. Al-Khedhairi, Cytotoxicity and genotoxicity of methomyl, carbaryl, metalaxyl, and pendimethalin in human umbilical vein endothelial cells. *Journal of Applied Toxicology*. (2021) 41(5): 832-846. **(IF: 2.99)**.
  26. Mai M. Al-Oqail, Nida N. Farshori, Ebtessam S. Al-Sheddi, Shaza M. Al-Massarani, **Quaiser Saquib**, Maqsood A. Siddiqui, and Abdulaziz A. Al-Khedhairi. Oxidative Stress Mediated Cytotoxicity, Cell Cycle Arrest, and Apoptosis Induced by Rosa damascena in Human Cervical Cancer HeLa Cells. *Oxidative Medicine and Cellular Longevity*. Volume 2021: Article ID 6695634: 1-11. **(IF: 6.5)**.
  27. Nida N. Farshori, **Quaiser Saquib**, Maqsood A. Siddiqui, Mai M. Al-Oqail, Ebtessam S. Al-Sheddi, Shaza M. Al-Massarani, Abdulaziz A. Al-Khedhairi. Protective effects of Nigella sativa extract against H<sub>2</sub>O<sub>2</sub>-induced cell death through the inhibition of DNA damage and

cell cycle arrest in human umbilical vein endothelial cells (HUVECs). *Journal of Applied Toxicology*. (2021) 1-12. **(IF: 2.99)**.

28. Mourad A.M. Aboul-Soud, Abdelkader E Ashour, Jonathan K. Challis, Atallah F. Ahmed, Ashok Kumar, Amr Nassrallah, Tariq A. Alahmari, **Quaiser Saquib**, Maqsood A. Siddiqui, Yazeed A. Al-Sheikh, Hany A. El-Shemy, Ahmed M. Aboul-Enein, Khalid M. Alghamdi, Paul D. Jones, John P. Giesy. Biochemical and Molecular Investigation of In Vitro Antioxidant and Anticancer Activity Spectrum of Crude Extracts of Willow Leaves *Salix Salsola* (2020) *Plants* 9, x; (Accepted). **(IF: 2.76)**.
29. Wahab R, **Saquib Q**, Faisal M (2020) Zinc oxide nanostructures: A motivated dynamism against cancer cells. *Process Biochemistry*, 98: 83-92. **(IF: 2.88)**.
30. Khursheed Ali, **Quaiser Saquib**, Maqsood A. Siddiqui, Javed Ahmad, Abdulaziz A. Al-Khedhairi, Javed Musarrat (2020). Anti-cancer efficacy of Aloe vera capped hematite nanoparticles in human breast cancer (MCF-7) cells. *Journal of Drug Delivery Science and Technology* 60, 102052. **(IF: 2.73)**.
31. Yik-Lam Cho, Hayden Weng Siong Tan, **Quaiser Saquib**, Yi Ren Javed Ahmad, Rizwan Wahab, Weifeng He, Boon-Huat Bay, Han-Ming Shen (2020) Dual role of oxidative stress-JNK activation in autophagy and apoptosis induced by nickel oxide nanoparticles in human cancer cells. *Free Radical Biology and Medicine* 153, 173-186. **(IF: 6.17)**.
32. Cytotoxicity and cell death induced by engineered nanostructures (quantum dots and nanoparticles) in human cell lines. Ahmad, J., Wahab, R, Siddiqui, M.A, **Saquib, Q**, Al-Khedhairi, A.A. (2020) 25(2)1, *Journal of Biological Inorganic Chemistry*. 325-338. **(IF: 2.50)**.
33. **Quaiser Saquib**, Sarfaraz Ahmed, Mohammad S. Ahmad, Adnan J. Al-Rehaily, Maqsood A. Siddiqui, Mohammad Faisal, Javed Ahmad, Asma N. Alsaleh, Abdulrahman A. Alatar, Abdulaziz A. Al-Khedhairi. Anticancer efficacies of persicogenin and homoeriodictyol isolated from *Rhus retinorrhoea*. *Process Biochemistry* (2020) 95, 186-196. **(IF: 2.88)**.
34. Khursheed Ali, **Quaiser Saquib**, Bilal Ahmed, Maqsood A. Siddiqui, Javed Ahmad, Majed Al-Shaeri, Abdulaziz A. Al-Khedhairi, Javed Musarrat. Bio-functionalized CuO nanoparticles induced apoptotic activities in human breast carcinoma cells and toxicity against *Aspergillus flavus*: An In vitro approach. *Process Biochemistry* (2020) 91, 387-397. **(IF: 2.88)**.
35. Eslam M. Abdel-Salam, Mohammad Faisal, Abdulrahman A. Alatar, **Quaiser Saquib** and Hend A. Alwathnani. Comparative Analysis between Wild and Cultivated Cucumbers Reveals Transcriptional Changes during Domestication Process. *Plants* (2020), 9, 63. **(IF: 2.6)**.
36. Tijo Cherian, Khursheed Ali, **Quaiser Saquib**, Mohammad Faisal, Rizwan Wahab and Javed Musarrat. *Cymbopogon Citratus* Functionalized Green Synthesis of CuO-Nanoparticles: Novel Prospects as Antibacterial and Antibiofilm Agents. *Biomolecules* (2020) 10, 169. **(IF: 4.6)**.
37. **Quaiser Saquib**, Pu Xia, Maqsood A. Siddiqui, Junjiang Zhang, Yuwei Xie, Mohammad Faisal, Sabiha M. Ansari, Hend A. Alwathnani, Abdulrahman A. Alatar, Abdulaziz A. Al-Khedhairi, Xiaowei Zhang. High-throughput transcriptomics: An insight on the

- pathways affected in HepG2 cells exposed to nickel oxide nanoparticles. *Chemosphere*, 244 (2020) 125488. (I.F: 5.1).
38. Rajput, Vishnu; Minkina, Tatiana; Ahmed, Bilal; Sushkova, Svetlana; Singh, Ritu; Soldatov, Mikhail; Laratte, Bertrand; Fedorenko, Alexey; Mandzhieva, Saglara; Blicharska, Eliza; Musarrat, Javed; **Saquib, Quaiser**; Flieger, Jolanta; Gorovtsov, Andrey. Interaction of Copper-Based Nanoparticles to Soil, Terrestrial, and Aquatic Systems: Critical Review of the State of the Science and Future Perspectives. *Reviews of environmental contamination and toxicology*. (2020) 252, 51-96 (I.F: 5.4).
  39. Abdullah M. Al-Salem, **Quaiser Saquib**, Maqsood A. Siddiqui, Javed Ahmad, Rizwan Wahab, Abdulaziz A. Al-Khedhairi. (2020) Tris(2-chloroethyl) Phosphate (TCEP) Elicits Hepatotoxicity by Activating Human Cancer Pathway Genes in HepG2 Cells. *Toxics*, 8, 0109. (I.F: 4.47).
  40. Mohammad Faisal, Eslam M. Abdel-Salam, Abdulrahman A. Alatar, **Quaiser Saquib**, Hend A. Alwathnani and Tomas Canto. (2019) Genetic Transformation and siRNA-Mediated Gene Silencing for Aphid Resistance in Tomato. *Agronomy* 2, 9(12), 893. (I.F: 2.2).
  41. Tijo Cherian, Khursheed Ali, Saher Fatima, **Quaiser Saquib**, Sabiha M. Ansari, Hend A. Alwathnani, Abdulaziz A. Al-Khedhairi, Majed Al-Shaeri, Javed Musarrat. (2019) Myristica fragrans bio-active ester functionalized ZnO nanoparticles exhibit antibacterial and antibiofilm activities in clinical isolates. *Journal of Microbiological Methods*. 166, 105716. (I.F: 1.8).
  42. Abdullah M. Al-Salem, **Quaiser Saquib**, Maqsood A. Siddiqui, Javed Ahmad, Rizwan Wahab, Abdulaziz A. Al-Khedhairi. Organophosphorus flame retardant (tricresyl phosphate) trigger apoptosis in HepG2 cells: Transcriptomic evidence on activation of human cancer pathways. *Chemosphere*, 237 (2019) 124519. (I.F: 5.1).
  43. **Quaiser Saquib**, Mohammad Faisal, Sabiha Mahmood Ansari, Rizwan Wahab (2019) Phorate triggers oxidative stress and mitochondrial dysfunction to enhance micronuclei generation and DNA damage in human lymphocytes. *Saudi Journal of Biological Sciences* 26(7) 1411-1417. I.F: 3.1
  44. Rizwan Wahab, Farheen Khan, Anoop Gupta, Hartmut Wiggers, **Quaiser Saquib**, Mohammad Faisal, Sabiha Mahmood Ansari. (2019). Microwave plasma-assisted silicon nanoparticles: cytotoxic, molecular, and numerical responses against cancer cells. *RSC Adv.*, 2019, 9, 13336.
  45. Khursheed Ali, Bilal Ahmed, Sabiha M. Ansari, **Quaiser Saquib**, Abdulaziz A. Al Khedhairi, Sourabh Dwivedi, Majed Alshaeri, Mohd Saghir Khan, Javed Musarrat (2019) Comparative in situ ROS mediated killing of bacteria with bulk analogue, Eucalyptus leaf extract (ELE)-capped and bare surface copper oxide nanoparticles. *Materials Science & Engineering C* 100, 747-758 I.F: 5.0
  46. Chaudhry N, Dwivedi S, Chaudhry V, Singh A, **Saquib Q**, Azam A, Musarrat J. (2018) Bio-inspired nanomaterials in agriculture and food: Current status, foreseen applications and challenges. *Microbial Pathogenesis* 123:196-200.
  47. Yuan Ping Li, Nicolas Carraro, Nan Yang, Bixiu Liu, Xian Xia, Renwei Feng, **Quaiser Saquib**, Hend A. Al-Wathnani, Jan Roloef van der Meer, Christopher Rensing. (2018) Genomic islands confer heavy metal resistance in *Mucilaginibacter kameinonensis* and *Mucilaginibacter rubeus* isolated from a gold/copper mine. *Genes* (Accepted).

48. Ebtesam S. Al-Sheddi, Nida N. Farshori, Mai M. Al-Oqail, Shaza M. Al-Massarani, **Quaiser Saquib**, Rizwan Wahab, Javed Musarrat, Abdulaziz A. Al-Khedhairi and Maqsood Siddiqui (2018) Anticancer potential of green synthesized silver nanoparticles using extract of *Nepeta deflersiana* against human cervical cancer cells (HeLA). *Bioinorganic Chemistry and Applications*. Article No. 9390784.
49. Ibtissem Ben Fekih, Chengkang Zhang, Yuan Ping Li, Yi Zhao, Hend A. Alwathnani, **Quaiser Saquib**, Christopher Rensing, Carlos Cervantes. Distribution of Arsenic Resistance Genes in Prokaryotes. *Frontiers in Microbiology* (2018) doi: 10.3389/fmicb.2018.02473
50. **Quaiser Saquib**, Maqsood A. Siddiqui, Javed Ahmad, Sabiha M. Ansari, Hend A. Al-Wathnani, Christopher Rensing. 6-OHBDE-47 induces transcriptomic alterations of CYP1A1, XRCC2, HSPA1A, EGR1 genes and trigger apoptosis in HepG2 cells. (2018) *Toxicology* (<https://doi.org/10.1016/j.tox.2018.03.007>). (IF 3.5).
51. Miao Guan, Wendi Fang, Sana Ullah, Xiaowei Zhang, **Quaiser Saquib**, Abdulaziz A. Al-Khedhairi (2018) Functional genomics assessment of narcotic and specific acting chemical pollutants using *E. coli*. *Environmental Pollution* 232:146-153. (IF 5.09).
52. Sabiha M. Ansari, **Quaiser Saquib**, Sabry M. Attia, Eslam M. Abdel-Salam, Hend A. Alwathnani, Mohammad Faisal, Abdulrahman A. Alatar, Abdulaziz A. Al-Khedhairi, Javed Musarrat. (2018) Pendimethalin induces oxidative stress, DNA damage, and mitochondrial dysfunction to trigger apoptosis in human lymphocytes and rat bone-marrow cells. *Histochemistry and Cell Biology* <https://doi.org/10.1007/s00418-017-1622-0> (IF 2.55).
53. Khursheed Ali, Faizan Abul Qais, Sourabh Dwivedi, Eslam M. Abdel-Salam, Sabiha M. Ansari, **Quaiser Saquib**, Mohammad Faisal, Abdulaziz A. Al-Khedhairi, Majed Al-Shaeri, Javed Musarrat. Titanium dioxide nanoparticles preferentially bind in subdomains IB, IIA of HSA and minor groove of DNA. *Journal of Biomolecular Structure and Dynamics* (2018) 10:1-13. (IF 3.12).
54. Ahmad J, Siddiqui MA, Akhtar MJ, Alhadlaq HA, Alshamsan A, Khan ST, Wahab R, Al-Khedhairi AA, Al-Salim A, Musarrat J, **Saquib Q**, Fareed M, Ahamed M. Copper doping enhanced the oxidative stress-mediated cytotoxicity of TiO<sub>2</sub> nanoparticles in A549 cells. *Human and Experimental Toxicology* (2017) 37(5):496-507. (IF 1.80).
55. Maqsood A. Siddiqui, Rizwan Wahab, Javed Ahmad, Nida N. Farshori, **Quaiser Saquib**, Shams T. Khan, Abdullah M. Al-Salem, Javed Musarrat, Abdulaziz A. Al-Khedhairi. Zinc Oxide Nanoparticles: Mechanism(s) of Cell Death Induced in Human Epidermoid Larynx Cell Line (HEp-2) (2017). *Nanoscience and Nanotechnology Letters*. 9(4) 573-582(10). (IF 1.88).
56. Kyung-Eun Gil, Woe-Yeon Kim, Hyo-Jun Lee, Mohammad Faisal, **Quaiser Saquib**, Abdulrahman A. Alatar, Chung-Mo Park (2017) ZEITLUPE Contributes to a Thermoresponsive Protein Quality Control System in Arabidopsis. *The Plant Cell* (Accepted) (IF 9.9).
57. Attia SM, Alshahrani AY, Al-Hamamah MA, Attia MM, **Saquib Q**, Ahmad SF, Ansari MA, Nadeem A, Bakheet SA. (2017) Dexrazoxane averts idarubicin-evoked genomic damage by regulating gene expression profiling associated with the DNA damage-signaling pathway in BALB/c mice. *Toxicological Sciences* 160(1), 161–172. (IF 4.08).

58. **Quaiser Saquib**, Sabry M. Attia, Sabiha M. Ansari, Abdullah Al-Salim, Mohammad Faisal, Abdulrahman A. Alatar, Javed Musarrat, Xiaowei Zhang, Abdulaziz A. Al-Khedhairi. p53, MAPKAPK-2 and caspases regulate nickel oxide nanoparticles induce cell death and cytogenetic anomalies in rats. *International Journal of Biological Macromolecules*. (2017). 105(Pt 1):228-237. **(IF 3.67)**.
59. Abdulrahman A. Alatar, Mohammad Faisal, Eslam M. Abdel-Salam, Tomas Canto, **Quaiser Saquib**, Saad B. Javed, Mohamed A. El-Sheikh, Abdulaziz A. Al-Khedhairi. Efficient and reproducible *in vitro* regeneration of *Solanum lycopersicum* and assessment genetic uniformity using flow cytometry and SPAR methods. *Saudi Journal of Biological Sciences*. (2017) 24(6), 1430-1436. **(IF 1.78)**.
60. Xiuli Hao, Xuanji Li, Chandan Pal, Jon Hobman, Barry P. Rosen, D. G. Joakim Larsson, **Quaiser Saquib**, Hend A. Alwathnani, Yong-Guan Zhu, Christopher Rensing (2017) Bacterial resistance to arsenic protects against protist killing. *BioMetals* 30(2):307-311. **(IF 2.18)**
61. Bilal Ahmed, Sourabh Dwivedi, Malik Zainul Abidin, Ameer Azam, Majed Al-Shaeri, Mohammad Saghir Khan, **Quaiser Saquib**, Abdulaziz A. Al-Khedhairi, Javed Musarrat (2017). Mitochondrial and Chromosomal Damage Induced by Oxidative Stress in Zn<sup>2+</sup> Ions, ZnO-Bulk and ZnO-NPs treated *Allium cepa* roots. *Scientific Reports* 7: 40685. **(IF 4.25)**.
62. Maqsood A. Siddiqui, Saima Rasheed, **Quaiser Saquib**, Abdulaziz A. Al-Khedhairi, Mansour S. Al-Said, Javed Musarrat, Muhammad Iqbal Choudhary. In-Vitro dual inhibition of protein glycation, and oxidation by some Arabian plants. *BMC Complementary and Alternative Medicine* (2016) 16:276. **(IF 2.28)**.
63. Mai M. Al-Oqail, Maqsood A. Siddiqui, Ebtesam S. Al-Sheddi, **Quaiser Saquib**, Javed Musarrat, Abdulaziz A. Al-Khedhairi, Nida N. Farshori. Verbesina encelioides: cytotoxicity, cell cycle arrest, and oxidative DNA damage in human liver cancer (HepG2) cell line. *BMC Complementary and Alternative Medicine*. (2016) 16:126. **(IF 2.28)**.
64. Khursheed Ali, Sourabh Dwivedi, Ameer Azam, **Quaiser Saquib**, Mansour S. Al-Said, Abdulaziz A. Al-Khedhairi, Javed Musarrat. Aloe vera extract functionalized zinc oxide nanoparticles as nanoantibiotics against multi-drug resistant clinical bacterial isolates. *Journal of Colloid and Interface Science*. (2016) 472: 145-156. **(IF 4.23)**.
65. Rizwan Wahab, Farheen Khan, You bing Yang, I.H. Hwang, Hyung-Shik Shin, Javed Ahmad, Sourabh Dwivedi, Shams T. Khan, Maqsood Ahmed Siddiqui, **Quaiser Saquib**, Javed Musarrat, Abdulaziz A. Al-Khedhairi, Yogendra K. Mishra and Bahy A. Ali. Zinc oxide Quantum Dots: Multifunctional candidates for arresting the C2C12 cancer cells and their role towards Caspase 3 and 7 genes. *RSC Advance* (2016) 6, 26111–26120. **(IF 3.10)**.
66. **Saquib Q**, Siddiqui MA, Ahmed J, Al-Salim A, Ansari SM, Faisal M, Al-Khedhairi AA, Musarrat J, AlWathnani HA, Alatar AA, Al-Arifi SA. Hazards of low dose flame-retardants (BDE-47 and BDE-32): Influence on transcriptome regulation and cell death in human liver cells. *Journal of Hazardous Materials* (2016) 308:37-49. **(IF 6.06)**.
67. **Quaiser Saquib**, Mohammad Faisal, Abdulrahman A. Alatar, Abdulaziz A. Al-Khedhairi, Mukhtar Ahmed, Sabiha M. Ansari, Hend A. Alwathnani, Mohammad K. Okla, Sourabh Dwivedi, Javed Musarrat, Shelly Praveen, Shams T. Khan, Rizwan Wahab, Maqsood A. Siddiqui, Javed Ahmad. Genotoxicity of ferric oxide nanoparticles in *Raphanus sativus*:



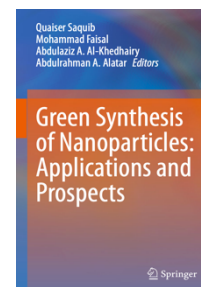
- Deciphering the role of signalling factors, oxidative stress and cell death. *Journal of Environmental Sciences* (2016) 47: 49-62 (**IF 2.86**).
68. Mohammad Faisal, **Quaiser Saquib**, Abdulrahman A. Alatar, Abdulaziz A. Al-Khedhairi, Mukhtar Ahmed, Sabiha M. Ansari, Hend A. Alwathnani, Sourabh Dwivedi, Javed Musarrat, Shelly Praveen. Cobalt oxide nanoparticles aggravate DNA damage and cell death in eggplant via mitochondrial swelling and NO signaling pathway. *Biological Research* (2016) 49, 20. (**IF 1.69**).
  69. Ahmad J, Alhadlaq HA, Alshamsan A, Siddiqui MA, **Saquib Q**, Khan ST, Wahab R, Al-Khedhairi AA, Musarrat J, Akhtar MJ, Ahamed M. (2016) Differential cytotoxicity of copper ferrite nanoparticles in different human cells. *Journal of Applied Toxicology* 36(10) 1284-1293. (**IF 3.15**).
  70. SM Attia, SF Ahmad, **Q Saquib**, GI Harisa, AA Al-Khedhairi, SA Bakheet. (2016). Dexrazoxane mitigates epirubicin-induced genotoxicity in mice bone marrow cells. *Mutagenesis*, 2016, 31(2), 137-145. (**IF: 2.50**).
  71. Shams Tabrez Khan, Rizwan Wahab, Javed Ahmad, Abdulaziz A. Al-Khedhairi, Maqsood A. Siddiqui, **Quaiser Saquib**, Bahy A. Ali, Javed Musarrat. (2015). CoO Thin Nanosheets Exhibit Higher Antimicrobial Activity Against Tested Gram-positive Bacteria Than Gram-negative Bacteria. *Korean Chemical Engineering Research*, 53(5) 565-569. (**IF 1.69**)
  72. Dwivedi S, **Saquib Q**, Al-Khedhairi AA, Ahmad J, Siddiqui MA, Musarrat J. (2015). Rhamnolipids functionalized AgNPs-induced oxidative stress and modulation of toxicity pathway genes in cultured MCF-7 cells. *Colloids and Surface B: Biointerfaces*. 132:290-298. (**IF: 3.88**).
  73. Khursheed Ali, Bilal Ahmed, Sourabh Dwivedi, **Quaiser Saquib**, Abdulaziz A. Al-Khedhairi, Javed Musarrat. (2015). Microwave Accelerated Green Synthesis of Stable Silver Nanoparticles with Eucalyptus globulus Leaf Extract and Their Antibacterial and Antibiofilm Activity on Clinical Isolates. *PLoS One*. 2015 10(7):e0131178. (**IF: 2.80**).
  74. Ebtesam Saad Al-Sheddi, Mai Mohammad Al-Oqail, **Quaiser Saquib**, Maqsood Ahmed Siddiqui, Javed Musarrat, Abdulaziz Ali Al-Khedhairi, Nida Nayyar Farshori. (2015). Novel All Trans-Retinoic Acid Derivatives: Cytotoxicity, Inhibition of Cell Cycle Progression and Induction of Apoptosis in Human Cancer Cell Lines. *Molecules* 20(5), 8181-8197 (**IF: 2.86**).
  75. Guanyong Su, Xiaowei Zhang, John P. Giesy, Javed Musarrat, **Quaiser Saquib**, Abdulaziz A. Al-Khedhairi, Hongxia Yu. (2015). Comparison on the molecular response profiles between nano zinc oxide (ZnO) particles and free zinc ion using a genome-wide toxicogenomics approach. *Environmental Science and Pollution Research*. 22(22): 17434-17442 (**IF: 2.74**).
  76. Rizwan Wahab, Farheen Khan, Lutfullah, R.B. Singh, Nagendra Kumar Kaushik, Javed Ahmad, Maqsood A. Siddiqui, **Quaiser Saquib**, Bahy A. Ali, Shams T. Khan, Javed Musarrat, Abdulaziz A. Al-Khedhairi. (2015). Utilization of photocatalytic ZnO nanoparticles for deactivation of safranin dye and their statistical analytical applications. *Physica E: Low-dimensional Systems and Nanostructures* 69, 101-108. (**IF: 2.22**).
  77. Maqsood A. Siddiqui, **Quaiser Saquib**, Maqsood Ahamed, Nida N. Farshori, Javed Ahmad, Rizwan Wahab, Hisham A. Alhadlaq, Javed Musarrat, Abdulaziz A. Al-Khedhairi, Aditya B. Pant (2015). Molybdenum nanoparticles-induced cytotoxicity, oxidative stress,

- G2/M arrest, and DNA damage in mouse skin fibroblast cells (L929). *Colloids and Surfaces B*. 125, 73-81 (IF: 3.88).
78. Javed Ahmad, Hisham A. Alhadlaq, Maqsood A. Siddiqui, **Quaiser Saquib**, Abdulaziz A. Al-Khedhairi, Javed Musarrat, Maqsood Ahamed (2015) Concentration-dependent induction of reactive oxygen species, cell cycle arrest and apoptosis in human liver cells after nickel nanoparticles exposure. *Environmental Toxicology* 30(2) 137–148. (IF 2.93).
  79. Rizwan Wahab, Maqsood A. Siddiqui, **Quaiser Saquib**, Sourabh Dwivedi, Javed Ahmad, Javed Musarrat, Abdulaziz A. Al-Khedhairi, Hyung-Shik Shin (2014). ZnO nanoparticles induced oxidative stress and apoptosis in HepG2 and MCF-7 cancer cells and their antibacterial activity. *Colloids and Surfaces B*, 117, 267-276. (IF: 3.88).
  80. Abdelkader E Ashour, Adel R Abd-Allah, Hesham M Korashy, Sabry M Attia, Abdelrahman Z Alzahrani, **Quaiser Saquib**, Saleh A Bakheet, Hala E Abdel-Hamied, Shazia Jamal, Arun K Rishi, (2014) Thymoquinone suppression of the human hepatocellular carcinoma cell growth involves inhibition of IL-8 expression, elevated levels of TRAIL receptors, oxidative stress and apoptosis. *Molecular and Cellular Biochemistry* 389: 85-98 (IF: 2.66).
  81. Ansari MA, Khan HM, Khan AA, Cameotra SS, **Saquib Q**, Musarrat J, (2014) Gum arabic capped-silver nanoparticles inhibit biofilm formation by multi-drug resistant strains of *Pseudomonas aeruginosa*. *Journal of Basic Microbiology* 54, 1-12. (IF: 1.43).
  82. Ansari, M.A., Khan, H.M., Khan, A.A., Cameotra, S.S., **Saquib, Q.** and Musarrat, J. (2014), Interaction of Al<sub>2</sub>O<sub>3</sub> nanoparticles with *Escherichia coli* and their cell envelope biomolecules. *Journal of Applied Microbiology*, 116: 772–783. (IF: 2.09).
  83. **Quaiser Saquib**; Abdulaziz A Al-Khedhairi; Javed Ahmad; Maqsood A Siddiqui; Sourabh Dwivedi; Shams T Khan; Javed Musarrat, (2013) Zinc ferrite nanoparticles activate IL-1b, NFKB1, CCL21 and NOS2 signaling to induce mitochondrial dependent intrinsic apoptotic pathway in WISH cells. *Toxicology and Applied Pharmacology* 273, 289-297. (IF: 3.79)
  84. M. A. Siddiqui, J. Ahmad, N. N. Farshori, **Q. Saquib**, S. Jahan, M. P. Kashyap, M. Ahamed, J. Musarrat, A. A. Al-Khedhairi (2013) Rotenone-induced oxidative stress and apoptosis in human liver HepG2 cells. *Molecular and Cellular Biochemistry*. 384(1-2) 59-69 (IF 2.66)
  85. M. Faisal\*, **Q. Saquib\***, A.A. Alatar, A.A. Al-Khedhairi, A.K. Hegazy, J. Musarrat., (2013) Phytotoxic hazards of NiO-nanoparticles in tomato: A study on mechanism of cell death. *Journal of Hazardous Materials* 250-251, 318-332 (\*Co First Author). (IF 6.06).
  86. **Saquib, Q.**, Attia, S.M., Siddiqui M.A., Aboul-Soud, M., Al-Khedhairi, A.A., Musarrat, J., (2012) Phorate-induced oxidative stress, DNA damage and transcriptional activation of p53 and caspases genes in male Wistar rats. *Toxicology and Applied Pharmacology* 259(1) 54-65. (IF 3.79).
  87. **Saquib, Q.**, Musarrat, J., Siddiqui M.A., Dutta, S., Dasgupta, S., Giesy, J.P., Al-Khedhairi, A.A. (2012). Cytotoxic and necrotic responses in human amniotic epithelial (WISH) cells exposed to organophosphate insecticide phorate. *Mutation Research/Genetic Toxicology and Environmental Mutagenesis Mutation Research* 744, 125-134. (IF 2.13).
  88. **Saquib Q.**, Siddiqui MA., Abou-Tarboush, F.M., Azam, A., Al-Khedhairi, A.A., Musarrat, J., (2012). Titanium dioxide nanoparticles induced cytotoxicity, oxidative stress and DNA damage in human amnion epithelial (WISH) cells. *Toxicology In Vitro* 26(2) 351-361. (IF 2.86) (Most Cited Toxicology In Vitro Article, Elsevier in 2012).

89. Dwivedi, S., **Saquib, Q\***, Al-Khedhairi, A.A., Ali, A.S., Musarrat, J., (2012). Characterization of coal fly ash nanoparticles and induced oxidative DNA damage in human peripheral blood mononuclear cells. *Science of the Total Environment* 437, 331-338 (**\*Co First Author**). (IF 4.90)
90. Dwivedi, S., **Saquib, Q.**, Al-Khedhairi, A.A., Musarrat, J., (2012). Butachlor induced dissipation of mitochondrial membrane potential, oxidative DNA damage and necrosis in human peripheral blood mononuclear cells. *Toxicology* 302, 77- 87. (IF 3.58)
91. **Saquib Q**, Al-Khedhairi AA, Siddiqui MA, Roy AS, Dasgupta S, Musarrat J. (2011). Preferential binding of insecticide phorate with sub-domain IIA of human serum albumin induces protein damage and its toxicological significance. *Food and Chemical Toxicology* 49, 1787-1795. IF 2.99
92. Bakheet SA, Attia SM, AL-Rasheed NM, Al-harbi MM, **Saquib Q**, Al-Khedhairi AA, Musarrat J. (2011). Salubrious effects of dexrazoxane against teniposide-induced DNA damage and apoptosis in murine marrow cells. *Mutagenesis* 26(4), 533-543). IF 3.18
93. Siddiqui MA, **Saquib Q**, Ahamed M, Ahmad J, Al-Khedhairi A.A, Abou-Tarboush FM, Musarrat J. (2011). Effect of Trans-resveratrol on rotenone-induced cytotoxicity in human breast adenocarcinoma cells. *Toxicology International* 18(2), 105-110.
94. **Saquib, Q.**, Al-Khedhairi, A.A., Al-Arifi, Dutta, S., Dasgupta, S., Musarrat, J. (2010) Methyl thiophanate as a DNA minor groove binder produces MT-Cu(II)-DNA ternary complex preferably with AT rich region for initiation of DNA damage. *International Journal of Biological Macromolecules* 47 (2010) 68–75. IF 2.45
95. **Saquib, Q.**, Al-Khedhairi, A.A., Al-Arifi, S., Dwivedi, S., Mustafa, J., Musarrat, J. (2010) Fungicide methyl thiophanate binding at sub-domain IIA of human serum albumin triggers conformational change and protein damage. *International Journal of Biological Macromolecules* 47 (2010) 60–67. IF 2.45
96. **Saquib, Q.**, Al-Khedhairi, A.A., Singh, B.R., Arif, J.M, Musarrat, J. Genotoxic fungicide methyl thiophanate as an oxidative stressor inducing 8-oxo-7,8-dihydro-2'-deoxyguanosine adducts in DNA and mutagenesis. *Journal of Environmental Science and Health (B)* (2010) 45, 1-6. IF 0.88
97. **Saquib, Q.**, Al-Khedhairi, A.A., Al-Arifi, S., Dhawan, A., Musarrat, J. (2009) Assessment of methyl thiophanate-Cu (II) induced DNA damage in human lymphocytes. *Toxicology In Vitro* 23, 848-854. IF 2.77
98. Musarrat, J., **Saquib, Q.**, Azam, A., Naqvi, S.A.H. (2009) Zinc oxide nanoparticles-induced DNA damage in human lymphocytes. *International Journal of Nanoparticles* 2, 402-415.

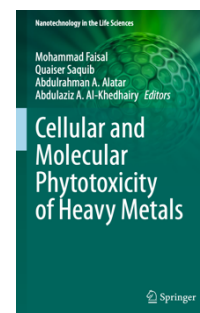
#### INTERNATIONAL BOOKS PUBLISHED

- 1) **Quaiser Saquib**, Mohammad Faisal, Abdulaziz A. Al-Khedhairi, Abdurrahman A. Al-Attar Editors. (2020) **“Green Synthesis of Nanoparticles: Applications and Prospects”** Springer International Publishing AG, Switzerland.  
<https://www.springer.com/gp/book/9789811551789>

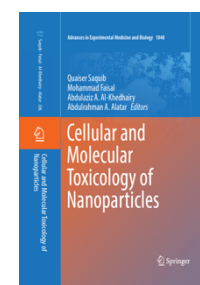


- 2) Mohammad Faisal, **Quaiser Saquib**, Abdulrahman A. Alatar, Abdulaziz A. Al-Khedhairi (2020) “**Cellular and Molecular Phytotoxicity of Heavy Metals**”, Springer International Publishing AG, Switzerland.

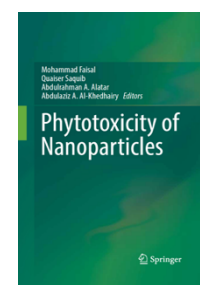
<https://www.springer.com/gp/book/9783030459741>



- 3) **Quaiser Saquib**, Mohammad Faisal, Abdulaziz A. Al-Khedhairi, Abdurrahman A. Al-Attar Editors. (2018) “**Cellular and Molecular Toxicity of Nanoparticles**” Accepted to be published in ‘Advances in Experimental Medicine and Biology’ (AEMB) Series, **Impact Factor (1.95)**. *Springer, London*.  
<https://www.springer.com/in/book/9783319720401>



- 4) Mohammad Faisal, **Quaiser Saquib**, Abdulrahman A. Alatar, Abdulaziz A. Al-Khedhairi (2018) “**Phytotoxicity of Nanoparticles**”, Springer International Publishing AG, Gewerbestrasse 11, 6330 Cham, Switzerland.  
<https://www.springer.com/in/book/9783319767079>



## BOOK CHAPTERS

- 1) **Quaiser Saquib**, Maqsood A Siddiqui, Javed Ahmad, Sabiha M. Ansari, Mohammad Faisal, Rizwan Wahab, Abdulrahman A. Alatar, Abdulaziz A. Al-Khedhairi, Javed Musarrat (2018) Nickel oxide nanoparticles induced transcriptomic alterations in HepG2 cells. In: Cellular and Molecular Toxicology of Nanoparticles. Editors: Quaiser Saquib, Mohammad Faisal, Abdulaziz A. Al-Khedhairi, Abdulrahman A. Alatar. Springer UK, ISBN 978-3-319-72040-1. Advances in Experimental Medicine and Biology 1048. **(I.F. 3.65)**.
- 2) Sourabh Dwivedi, **Quaiser Saquib**, Bilal Ahmad, Sabiha M Ansari, Ameer Azam, Javed Musarrat. (2018) Toxicogenomics: a new paradigm for nanotoxicity evaluation. In: Cellular and Molecular Toxicology of Nanoparticles. Editors: Quaiser Saquib, Mohammad Faisal, Abdulaziz A. Al-Khedhairi, Abdulrahman A. Alatar. Springer UK, ISBN 978-3-319-72040-1. Advances in Experimental Medicine and Biology 1048. **(I.F. 3.65)**.

- 3) Ahmed B., Khan M.S., **Saqib Q.**, Al-Shaeri M., Musarrat J. (2018) Interplay Between Engineered Nanomaterials (ENMs) and Edible Plants: A Current Perspective. In: Faisal M., Saqib Q., Alatar A., Al-Khedhairi A. (eds) *Phytotoxicity of Nanoparticles*. Springer, Cham.
- 4) Abdel-Salam E.M., Qahtan A.A., Faisal M., **Saqib Q.**, Alatar A.A., Al-Khedhairi A.A. (2018) Phytotoxic Assessment of Nickel Oxide (NiO) Nanoparticles in Radish. In: Faisal M., Saqib Q., Alatar A., Al-Khedhairi A. (eds) *Phytotoxicity of Nanoparticles*. Springer, Cham.
- 5) Sourabh Dwivedi, **Quaiser Saqib**, Abdulaziz A. Al-Khedhairi, and **Javed Musarrat** (2016) Understanding the Role of Nanomaterials in Agriculture. In: *Microbial Inoculants in Sustainable Agricultural Productivity. Vol I. Research Perspectives 10* (Eds) D. P. Singh, H. B. Singh and Ratna Prabha. ". **Springer International Publishing Switzerland**. MIS/01/07
- 6) Javed Musarrat, Sourabh Dwivedi, Braj Raj Singh, **Quaiser Saqib**, Abdulaziz A. Al-Khedhairi (2011) *Microbially Synthesized Nanoparticles: Scope and Applications* (Eds) I. Ahmad et al., **Springer-Verlag Berlin Heidelberg, Germany (DOI 10.1007/978-1-4419-7931-5)**. ISBN 978-1-4419-7930-8 e-ISBN 978-1-4419-7931-5.

#### TEACHING EXPERIENCE: 13 Years

- **Instructor (2023) for B.Sc., M.Sc. and Ph.D. Courses:** ZOOL 554 (Developmental Genetics), ZOOL 456 (Bioinformatics), ZOOL 109 (General Biology) at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.
- **Instructor (2022) for B.Sc. and Ph.D. Courses:** ZOOL 456 (Bioinformatics), ZOOL 642 Advanced Cytology, at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia. **Instructor (2023) for B.Sc., M.Sc. and Ph.D. Courses:** ZOOL 554 (Developmental Genetics), ZOOL 456 (Bioinformatics), ZOOL 109 (General Biology) at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.
- **Instructor (2021) for B.Sc., M.Sc. and Ph.D. Courses:** ZOOL 109 (General Biology), ZOOL 553 (Molecular Biology and Genetic Engineering), ZOOL 556 (Advance Cytogenetics), 651 (Molecular genetics), ZOOL 641 (Advance Cell Biology) at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.
- **Instructor (2019-2020) for B.Sc. and M.Sc. Courses:** ZOOL 109 (General Biology), ZOOL 553 (Molecular Biology and Genetic Engineering), at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.
- **Instructor (2018) for B.Sc., M.Sc., Ph.D. Courses:** ZOOL 109 (General Biology), ZOOL 553 (Molecular Biology and Genetic Engineering), ZOOL 551 (Advanced Genetics), 651 (Molecular genetics) at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.

- **Instructor (2017) for M.Sc. and Ph.D. Courses:** ZOOL 553 (Molecular Biology and Genetic Engineering), ZOOL 641 (Advance Cell Biology) and Course ZOOL 651 (Molecular Genetics) at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.
- **Instructor (2015-2017) for B.Sc. Course:** ZOOL 145 (General Biology) at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.
- **Demonstrator (2013-2014) for B.Sc. Course:** ZOOL 556 (Advance Cytogenetics) and Course 145 (General Biology) at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.
- **Instructor (2011-2013) for B.Sc. Course:** ZOOL 145 (General Biology) at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.
- **Instructor (2009-2010) for B.Sc. Course:** ZOOL 145 (General Biology) at Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.

## INTERNATIONAL RESEARCH PROJECTS

Project Title	Role	Funding Agency	Year
DNA Fingerprinting and Genetic Relatedness in Arabian Oryx ( <i>Oryx leucoryx</i> )	Principal Investigator	National Center for Wildlife (NCW), Saudi Arabia	2023 (Ongoing)
Phytochemicals Isolated from Saudi Medicinal Plants Exhibit Strong Binding with Crucial Residues of SARS-CoV-2 Proteins: An Evidence of Molecular Dynamic Simulation and Molecular Docking Analysis (Project No. 5-21-01-001-0025)	Principal Investigator	King Abdulaziz City for Science and Technology (KACST), Saudi Arabia	2022 (Ongoing)
Toxicogenomic Investigation on Hazards of Organophosphorous Flame Retardants (OPFRs): Connections Among Genome Function, Cell Death and Carcinogenesis (Project No. 13-ENV2116-02) <b>Highly Recommended by American Association for the Advancement of Science (AAAS), USA.</b>	Principal Investigator	King Abdulaziz City for Science and Technology (KACST), Saudi Arabia	2020-2022
Bio-prospection of Arabian Medicinal Plants for Antiglycation	Co-Principal Investigator	King Abdulaziz City for Science	

Agents for Developing of a Novel Molecular Therapeutic Approach for Diabetes (Project No. 12-MED2491-02)		and Technology (KACST), Saudi Arabia	2012
Effects of polybrominated flame retardants from electronic waste on the cellular DNA and carcinogenesis (Project No. 10-ENV-1314-02)	Co-Principal Investigator	King Abdulaziz City for Science and Technology (KACST), Saudi Arabia	2010
Assessment of DNA Damage and Toxicological Potential of Nanoparticles (Project No. 10- NAN1115-02) <b>Highly Recommended by American Association for the Advancement of Science (AAAS), USA.</b>	Co-Principal Investigator	King Abdulaziz City for Science and Technology (KACST), Saudi Arabia	2010

#### **TIMELINE OF APPOINTMENTS: 15 Years of Research Experience After Ph.D.**

- **2023-2024** (Till Date) (Professor), King Saud University.
- **2018-2023** (Associate Professor), King Saud University.
- **2015-2018** (Assistant Professor), King Saud University.
- **2012-Till Date** (Coordinator of Chair for DNA Research), King Saud University.
- **2008-2015** (Researcher), King Saud University.
- **January 2007 to October 2008** (Research Fellow (RF) in project “Assessment of Unani Medicines for Toxic Heavy Metals and their Protective Role in Environmental Genotoxicity and Mutagenicity”. (CCRUM, Department of AYUSH, Ministry of Health & Family Welfare, Government of India.
- **March 2003 to October 2006** as Research Fellow (RF) in project “Molecular and Biochemical Characterization of *Rhizospheric* Bacteria for development of Super-Bioinoculants with Collateral Biocontrol and Bioremediation Potential”. Department of Biotechnology, Government of India.
- **October 2002 to February 2003** as Research Assistant (RA) in project “Agrichemical Induced Structural Modification and Oxidative Damage to Biological Macromolecules”. The Muslim Association for Advancement of Science, Government of India.

#### **INTERNATIONAL COLLABORATIONS**

University/ Institute	Country
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Center of Ecotoxicology & Environmental Safety of Chemicals, School of the Environment, Nanjing University	China
Institute of Pharmacy/Pharmacognosy, Center for Chemistry and Biomedicine, University of Innsbruck	Austria
Fujian Agriculture and Forestry University, Fuzhou	China
Department of Agricultural Microbiology, Faculty of Agricultural Science, Aligarh Muslim University	India

#### AWARDS/HONOURS/RECOGNITIONS/FELLOWSHIPS

- **My name is enlisted among top 2% scientists** in September 2022 data released by **Elsevier BV, Stanford University, USA** based on c-score (with and without self-citations) or a percentile rank of top 2% or above among 200,409 scientists (Table\_1\_Authors\_singleyr\_2021\_pubs\_since\_1788\_wopp\_extracted\_202209.xlsx).  
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw>
- **AD Scientific Index (January 1, 2023), Stanford University, USA enlisted my name among top 1.83% scientists** (rank #4208, count 22603) in Molecular Biology & Genetics among the profiles of world scientists (total count 1229502).  
<https://www.adscientificindex.com/scientist/quaiser-saquib/475717>
- **Invited Speaker** at Department of Bioengineering and Biosciences, Integral University, Lucknow, India, August 4, 2022.
- **My name is enlisted among top 2% scientists** in the August 2021 data released by **Elsevier BV, Stanford University, USA** based on c-score (with and without self-citations) or a percentile rank of top 2% or above. (Table\_1\_Authors\_singleyr\_2020\_wopp\_extracted\_202108.xlsx)  
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>
- **Key Note Speaker**, 2nd GLOBAL VIRTUAL CONFERENCE ON BIO NANO INNOVATION, February 10, 2021.
- **Academic Excellence Award for the guidance of PhD student in 2021** by Vice Deanship College of Science for Graduate Studies and Scientific Research, King Saud University.
- **SESR BIOSCIENTIST AWARD-2018**, from Society for Educational & Scientific Research, India.
- **Certificate for Oral Presentation Award**, International Conference on Research Interventions and Advancement in Life Science (RIAL-2018).
- Awarded certificate for **“Outstanding Contribution in Reviewing”** by International Journal of Biological Macromolecules (Impact Factor 3.6), Elsevier, The Netherlands, February 2018.



- Awarded **“Certificate of Reviewing”** by Environmental Pollution, Elsevier (Impact Factor: 5.0) February 2018.
- Awarded **“Certificate of Reviewing”** by Biomedicine & Pharmacotherapy, Elsevier (Impact Factor: 2.7) January 2018.
- Awarded **“Certificate of Reviewing”** by Pesticide Biochemistry and Physiology, Elsevier (Impact Factor: 2.5), December 2017.
- Awarded **“Certificate of Reviewing”** by Journal of Hazardous Materials, Elsevier (Impact Factor: 6.0), March 2017.
- **“Scientist of The Year Award-2016**, from National Environmental Science Academy, India.
- **“Young Scientist”** award for best oral presentation on the work entitled “Impact of Methylthiophanate on DNA Stability” in “International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting” on January 1-3, 2008, AMU, India.
- Shared the **“Best Poster”** award on the work entitled “In-silico Analysis and Molecular Modeling of the Phenazine 1-Carboxylic Acid (PCA) Antibiotic genes/Proteins of the Soil Strain NJ-101 of Pseudomonas areuginosa” in “International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting” on January 1-3, 2008, AMU, India.
- Shared the **“Best Poster”** award on the work entitled “Evaluation of pendimethalin induced DNA Damage and Cytotoxicity in Human Lymphocytes” in “International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting” on January 1-3, 2008, AMU, India.

#### **EXTERNAL REVIEWER OF PHD THESIS**

- Reviewed PhD theses in 2022 from Integral University, India.

#### **REVIEWER IN PEER REVIEWD JOURNALS: (TOTAL JOURNALS = 34, TOTAL REVIEWS: 49)**

##### **ELSEVIER**

- Reviewer, Journal of Hazardous Materials, (Impact Factor: 14.22)
- Reviewer, Environmental Pollution, (Impact Factor: 9.9)
- Reviewer, Chemosphere, (Impact Factor: 8.9)
- Reviewer, Environmental Research, (Impact Factor: 8.4)
- Reviewer, International Journal of Biological Macromolecules, (Impact Factor: 8.02)
- Reviewer, Biomedicine & Pharmacotherapy, (Impact Factor: 7.4)
- Reviewer, Phytotherapy Research, (Impact Factor: 6.38)

- Reviewer, Food and Chemical Toxicology, (Impact Factor: 5.5)
- Reviewer, Pesticide Biochemistry and Physiology, (Impact Factor: 4.96)
- Reviewer, DNA Repair, (Impact Factor: 4.3)
- Reviewer, Journal of Saudi Chemical Society, (Impact Factor: 4.71)
- Reviewer, Saudi Journal of Biological Sciences, (Impact Factor: 4.02)
- Reviewer, Toxicology In Vitro, (Impact Factor: 3.68)
- Reviewer, Biotechnology Reports, (Impact Factor: ---)

#### ***SPRINGER NATURE/BMC***

- Reviewer, Cancer Nanotechnology, (Impact Factor: 7.9)
- Reviewer, Environmental Science and Pollution Research, (Impact Factor: 5.19)
- Reviewer, Environmental Sciences Europe, (Impact Factor: 5.4)
- Reviewer, Scientific Reports, (Impact Factor: 4.99)
- Reviewer, Journal of Cluster Science, (Impact Factor: 3.44)
- Reviewer, Biological Trace Elements, (Impact Factor: 2.6)

#### ***MDPI***

- Reviewer, Viruses, (Impact Factor: 5.81)
- Reviewer, Molecules, (Impact Factor: 4.92)
- Reviewer, Sustainability, (Impact Factor: 3.88)

#### ***FRONTIERS***

- Reviewer, Frontiers in Public Health-Environmental Health and Exposome, (Impact Factor: 6.4)
- Reviewer, Frontiers in Microbiology-Fungi and Their Interactions, (Impact Factor: 6.0)
- Reviewer, Frontiers in Pharmacology-experimental Pharmacology and Drug Discovery, (Impact Factor: 5.9)
- Reviewer, Frontiers in Toxicology, (Impact Factor: ---)

#### ***ACS PUBLICATIONS***

- Reviewer, Environmental Science & Technology, (Impact Factor: 11.3)

#### ***DOVEPRESS***

- Reviewer, International Journal of Nanomedicine, (Impact Factor: 7.03)

#### ***DE GRUYTER***

- Reviewer, Nanotechnology Reviews, (Impact Factor: 6.73)

#### ***HINDAWI***

- Reviewer, Bioinorganic Chemistry and Applications, (Impact Factor: 4.7)

#### ***WILEY***

- Reviewer, Environmental Toxicology and Chemistry, (Impact Factor: 4.2)

### **THE JAPANESE SOCIETY FOR HYGIENE**

- Reviewer, Environmental Health and Preventive Medicine, (Impact Factor: 4.39)

### **OXFORD ACADEMICS**

- Reviewer, Toxicology Research, (Impact Factor: 2.68)

### **EDITORIAL MEMBER/ROLE**

- **Associate Editor**, Frontiers in Genetics-Toxicogenomics
- **Guest Editor**, Special Issue "Toxicology Assessment of Nanoparticles and Emerging Pollutants on Cell Models and Living Organisms" in International Journal of Molecular Sciences (Impact Factor 6.20).  
[https://www.mdpi.com/journal/ijms/special\\_issues/Nanoparticles\\_Toxicology](https://www.mdpi.com/journal/ijms/special_issues/Nanoparticles_Toxicology)
- Academic Editor, Evidence-Based Complementary and Alternative Medicine (eCAM)
- International Journal of Pharmacognosy and Phytochemical research

### **MEMBER OF SCIENTIFIC SOCIETIES**

- **Fellow of The Linnean Society, London**
- Society of Toxicology, USA.
- The American Society for Pharmacology and Experimental Therapeutics (ASPET), USA.
- National Environmental Science Academy, India.
- Fellow Member of Society for Educational & Scientific Research (SESR), India.

### **PROFESSIONAL TRAININGS**

- Organized a workshop on "Cell Culture and Molecular Toxicology techniques" for Ph.D. Students on December 19-21, 2021 at King Saud University.
- Organized a workshop on Molecular Tools for Assessment of Genotoxicity for Masters and Ph.D. Students on November 20, 2014 at King Saud University.
- Organized a workshop on Nanoparticle Toxicity for King Saud University for Masters Students on October 23, 2013 at King Saud University.
- Organized a training course on techniques of Polymerase Chain Reaction (PCR) from 10-12 January 2009 at King Saud University.
- Organized the Workshop entitled "DNA Research Chair: A Gateway to Knowledge Economy" on 24 May 2009 at KSU.
- Participated in the "The First International Conference in Biotechnology Towards Knowledge-Based Economy" at KSU on February 16-18, 2009.

## LABORATORY SKILLS

### ***Molecular Biology Techniques***

- RT<sup>2</sup> PCR Array of Human Stress and Toxicity Pathway analysis by qPCR analysis.
- Flow cytometry: Cell cycle, apoptosis analysis using Annex-V FITC staining, measuring mitochondrial membrane potential, intracellular ROS generation, Ca<sup>2++</sup> influx, nitric oxide (NO) generation, esterase activity of human and cells.
- Analysis of human apoptotic and oxidative stress genes by qPCR.
- Western blot and immunofluorescence analysis of apoptosis related proteins.
- DNA damage analysis using Comet assay (SCGE) in human lymphocytes, animal organ, cell lines and plant cells.
- Chromosomal break analysis by cytokinesis blocked micronucleus (CBMN) assay in human lymphocytes and mouse/rat bone marrow cells.
- Cytotoxicity analysis using MTT and NRU assays.
- Histopathological analysis of mouse/rat organ sections.
- Isolation and purification of Human Serum Albumin from blood.
- Assessment of DNA and protein degradation using agarose gel electrophoresis and SDS-PAGE.
- Isolation and purification of bacterial plasmid DNA, mammalian genomic DNA, RNA, gel electrophoresis, gel documentation, ELISA.
- Fluorescence spectrophotometer-based bio-physical interaction studies of DNA and Protein.

## ANALYTICAL TECHNIQUES

- Fluorescent microscopy, High Performance Liquid Chromatography (HPLC), Gas Chromatography Mass Spectrophotometry (GC-MS), UV/Vis. Spectrophotometer, Cyclic Voltammetry, Nanodrop, Fluorescence Microplate reader, Lyophilization.

## CELL CULTURE AND MICROBIAL TECHNIQUES

- Hand on experience in maintenance of *in vitro* cell lines, culturing human lymphocytes and animal handling. Isolation and characterization of bacteria, cultivation and preservation of microbial cultures, Ames mutagenicity assay, *E. coli* K12 genotoxicity assay, plasmid *lacZ* mutagenicity assay, bioremediation and biodegradation of xenobiotics using selected bacterial strains, plant growth promotion studies with bacterial strains.

## OTHER SKILLS

- Hard working, resourceful, friendly, creative and solution-oriented person, I am frequently able to come up with new and innovative approaches to my assigned problems and to face up deadlines.
- Highly motivated, passion for Science, problem solving, intuition and perseverance.
- Capable for interpretation of data and skilled enough to draft manuscript for publication in reputed journal.

## ABSTRACTS PUBLISHED IN NATIONAL AND INTERNATIONAL CONFERENCES/SYMPOSIA

1. **Q. Saquib**, A.A. Al-Khedhairi, A.A. Al-Salem, M.A. Siddiqui, S.M. Ansari, X. Zhang. Organophosphorous Flame Retardants (OPFRs) Exhibit Hepatotoxicity and Transcriptomic Changes in Human Liver Cells. *EUROASIA Congress on Scientific Researches and Recent Trends-IX, Antalya, Turkey Virtual Conference) February 18-20, 2022 (Oral Presentation)* (Conference Chair).
2. **Q. Saquib**, P. Xia, M.A. Siddiqui, J.A Siddiqui, Y. Xie, M. Faisal, J. Zhang, A.A. Al-Khedhairi, X. Zhang, B.A. Ali, S.T. Khan, R. Ahmad, S. Dwivedi, J. Musarrat. *Transcriptomic Evidence on the Activation of HIF-1 $\alpha$ , TNFSF10, NOS2 Signalling in Nickel Oxide Nanoparticles Induced Apoptosis in HepG2 Cells: Oxidative Stress, DNA Damage, Mitochondrial Dysfunction Are the Key Players. 2015 In Vitro Biology Meeting at Tucson, Arizona, USA from May 30 to June 3, 2015. (Oral Presentation)*
3. J Musarrat, K Ali, MA Ansari, **Q Saquib**, M Siddiqui, ST Khan, AA Alkhedhairi. (2015). Green Synthesis of nanoparticles and their role as nano-antibiotics and anti-biofilm agent. *Planta Medica* 2015; 81 - OA44. DOI: 10.1055/s-0035-1545126
4. **Saquib Q**, Al-Khedhairi A.A, Ahmad J, Siddiqui MA, Faisal M, Dwivedi S, Musarrat J (June 10-13, 2014). Toxicogenomic Investigation on Nickel Oxide Nanoparticles (NiO-NPs): Connections among Gene Function, DNA Damage and Cell Death. *Proceedings of ESTIV 2014, Egmond ann Zee, The Netherlands (Oral Presentation)*.
5. **Saquib Q**, Al-Khedhairi A.A, Siddiqui MA, Ahmad J, Dwivedi S, Khan ST, Musarrat J (November 20-22, 2013). Toxicogenomic Changes, Oxidative Stress and DNA Damage are Key Factors for Nanoparticles Induced Cellular Anomalies: An Insight into the Molecular Mechanism of Cell Death. *Proceedings of Nanosafety 2013, Saarbrucken, Germany (Oral Presentation)*.
6. **Saquib Q**, Musarrat J, Al-Khedhairi A.A, Siddiqui M, Attia S.M, Faisal M, Siddiqui J, Dwivedi S, Khan ST. (March 11-18, 2013). Nickel oxide Nanoparticles Provoke Intrinsic Apoptotic Pathway in HepG2 Cells, Male Wistar Rats and Tomato Seedling Roots. *52nd Annual Meeting of Society of Toxicology, San Antonio, Texas, USA.*

7. J Musarrat, **Q Saquib**, S Dwivedi, A Al-Salem, MA Siddiqui, AA Al-Khedhairy., (2012). Assessment of DNA Damage, Mutagenesis and Anti-Mutagenic Activity of Unani (Greek) Herbal Medicines. *Planta Medica* 78 - OP18.
8. **Q. Saquib**, J. Musarrat, A.A. Al-Khedhairy, M.A. Siddiqui, S. Dwivedi, S.M. Attia. An insight into the cellular and molecular mechanism of pesticide toxicity. Montreal 2012 International Biomedicine & Chemistry Forum. Held in Montreal, Canada, April 26-27, 2012 (**Oral Presentation**).
9. SM Attia; Bakheet SA; AL-Rasheed NM; **Saquib Q**; Al-Khedhairy AA; Musarrat J. Salubrious effects of dexrazoxane against teniposide-induced DNA damage and apoptosis in murine marrow cells. The Annual Meetings of the Society for Free Radical Research (SFRR) and the 40th Annual Meeting of the European Environmental Mutagen Society (EEMS). Held in Oslo, Norway. Sept 12-18, 2010.
10. MA Siddiqui, MP, Kashyap, **Q Saquib**, AA Al-Khedhairy, Saud Alarifi, J Musarrat, AB Pant (2010) Prophylactic potential of Trans-resveratrol against 4-hydroxynonenal-induced damages in PC12 cells. 1st International Conference of Biological Sciences, Cairo, Egypt (September 27-29, 2010).
11. Javed Musarrat, **Q Saquib**, Abdulaziz A. Al-Khedhairy, Saud A. Alarifi, Maqsood Siddiqui (2010) Methyl thiophanate as a DNA minor groove binder produces MT-Cu(II)-DNA ternary complex preferably with AT rich region for initiation of DNA damage, 2nd International Conference of Biological and Environmental Sciences, (2nd ICBES), Mansoura University, Egypt (March 15-20, 2010).
12. MA Siddiqui, AB Pant, **Q Saquib**, AA Al-Khedhairy, J Musarrat, and S Srivastava. Metabolic fate of 4-Hydroxy Trans 2- Nonenal in cultured PC-12 cells in 1st Annual Conference of "Society of Professional Biotechnologists (SPB-2009)" during December, 1-2, 2009 at Kanpur, India.
13. **Saquib, Q.**, Dhawan, A., Mustafa, J., Singh, B.R., Musarrat, J. (2008) "Impact of Methylthiophanate on DNA Stability". Proceedings of the "International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting".
14. Singh, B.N., Singh, B.R., **Saquib, Q.**, Singh, R.L., Singh, D.P., Singhai, P.K., Musarrat, J., Singh, H.B (2008) "Antioxidant, Antimutagenic and Anti-quorum Sensing Activities of red Onion (*Allium cepa*) peel Extracts. Proceeding of the "International Symposium on

the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting”.

15. Singh, B.R., Usmani, S., **Saquib, Q.**, Dwivedi, S., Bano, N., Musarrat, J. (2008) “In-silico Analysis and Molecular Modeling of the Phenazine 1-Carboxylic Acid (PCA) Antibiotic genes/Proteins of the Soil Strain NJ-101 of *Pseudomonas areuginosa*”. Proceeding of the “International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting”.
16. Ansari, S.M., **Saquib, Q.**, Singh, B.R., Usmani, S., Dwivedi, S., Anwar, S., Musarrat, J. (2008) “Evaluation of pendimethalin induced DNA Damage and Cytotoxicity in Human Lymphocytes”. Proceeding of the “International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting”.
17. **Saquib, Q.**, Singh, B.R., Musarrat, J. (2008) “Fluorescence Quenching and In-silico Molecular Modeling/Docking on Methylthiophanate Induced Fragmentation in Human Serum Albumin”. Proceeding of the “International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting”.
18. Usmani, S., Dwivedi, S., **Saquib, Q.**, Singh, B.R., Anwar, S., Musarrat, J. (2008) “heavy Metals Analysis of certain Unani Medicines and Their Mutagenic Activity Using bacterial Assay System”. Proceeding of the “International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting”.
19. Haleem, S., Ansari, M.M., Singh, B.R., **Saquib, Q.**, Usmani, S., Dwivedi, S., Ahmed, A., Musarrat, J. (2008) “Role of TNF- $\alpha$  and CRP as Stress Marker During Open and Laproscopic Cholectectomy in Patients fit for laparoscopic Cholectectomy”. Proceeding of the “International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting”.
20. Dwivedi, S., Singh, B.R., Usmani, S., **Saquib, Q.**, Musarrat, J (2007) Molecular characterization of Phenazine -1-Carboxylic Acid (PCA) and HCN producing isoproturon degrading rhizospheric bacteria. Proceedings of the “48th Annual Conference of Association of Microbiologists of India, Department of Biotechnology”, Indian Institute of Technology, Chennai, India.
21. **Saquib, Q.**, Singh, B.R., Usmani, S., Dwivedi, S., Ansari, S.M., Musarrat, J. (2007) “Assessment of Pendimethalin-induced chromosomal breaks in human lymphocytes” Proceeding of the “International Symposium on Genomic Instability and Cancer”.

22. **Saquib, Q.**, Singh, B.R., Usmani, S., Dwivedi, S., Musarrat, J. (2007) "Interaction of Carbofuran with Biological Macromolecules and DNA damage in human lymphocytes" Proceeding of the "International Symposium on Genomic Instability and Cancer".
23. Singh, B.R., **Saquib, Q.**, Dwivedi, S., Usmani, S., Musarrat, J. (2007) "Assessment of Coal Fly-ash induced chromosomal breaks in human lymphocytes" Proceeding of the "International Symposium on Genomic Instability and Cancer".
24. Usmani, S., Singh, B.R., Dwivedi, S., **Saquib, Q.**, Musarrat, J. (2006) Molecular characterization of atrazine resistant plant growth promoting rhizobacteria. Proceedings of the "47th Annual Conference of Association of Microbiologists of India". Department of Biotechnology & Bioinformatics Center, Barkatullah University, Bhopal.
25. Dwivedi, S., Singh, B.R., Usmani, S., **Saquib, Q.**, Musarrat, J. (2006) Isolation and 16S rDNA based characterization of isoproturon degrading rhizospheric bacteria and its assessment for plant growth promoting ability. Proceedings of the "47th Annual Conference of Association of Microbiologists of India". Department of Biotechnology & Bioinformatics Center, Barkatullah University, Bhopal, India.
26. **Saquib, Q.**, Mustafa, J., Dhawan, A., Shukla, Y., and Musarrat, J. (2006) Molecular Mechanism of Methylthiophanate-Cu (II) Induced DNA alkylation and Strand Breaks Formation. Proceedings of the "International Symposium on Environmental Mutagenesis and Public Health and XXXI Annual Conference of Environmental Mutagen Society.
27. **Saquib, Q.**, Usmani, S., Shukla, Y., Dhawan, A., and Musarrat, J. (2006) Phorate as a putative initiator of carcinogenesis: an in vitro and in vivo assesment of protein and DNA damage. Proceedings of the 25th Annual Convention of the IACR & Silver Jubilee Symposium on Molecular Profiling and Cancer Management.
28. Musarrat, J. and **Saquib, Q.** (2005) Methylthiophanate-Induced Genotoxicity and Development of Single Strand Breaks in DNA. Proceedings of the 2005 In Vitro Biology Meeting at Baltimore, Maryland, USA.
29. Dwivedi, S., Singh, B.R., Usmani, S., **Saquib, Q.**, and Musarrat, J. (2005) Isolation and 16SrDNA based Characterization of a Novel Butachlor Degrading Rhizospheric Bacteria. Proceedings of Annual Conference of Association of Microbiologists of India, Department of Microbiology, Osmania University, Hyderabad.



30. Usmani, S., **Saquib, Q.**, Dhawan, A., and Musarrat, J. (2005) Phorate–induced oxidative stress and damage to biological macromolecules. Proceedings of the International Symposium on Diet in Causation and Prevention of Cancer and XXX Annual Conference of Environmental mutagen Society, ITRC, Lucknow, India.
31. Zaidi, S., **Saquib, Q.**, and Musarrat J. (2005) Hyper-accumulation of Ni in Brassica juncea (Indian mustard) in presence of Ni-tolerant Bacillus sp. as bioinoculant. Proceedings of 92nd Indian Science Congress, Nirma University, Ahmedabad, India.
32. **Saquib, Q.**, Bano, N., and Musarrat J (2004) Assessment of topsin- induced damage in biological macromolecules. Proceedings of 91st Indian Science Congress, Punjab University, Chandigarh, India.