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Publications

1. Rabbani N, Tabrez S, Islam BU, Rehman MT, Alsenaidy AM, AlAjmi MF, Khan RA, Alsenaidy MA, **Khan MS (2018)**. Characterization of colchicine binding with normal and glycated albumin: In vitro and molecular docking analysis. *J Biomol Struct Dyn (In press)*. (**Impact Factor = 3.2**)
2. **Mohd Shahnawaz Khan**, Sheraz Ahmad Bhat, Md Tabish Rehman, Iftekhhar Hassan, Shams Tabrez, Mohamed F. AlAjmi, Afzal Hussain, Fohad Mabood Husain, Salman Freeh Alamery (2018). Rutin attenuates negatively charged surfactant (SDS)-induced lysozyme aggregation/amyloid formation and its cytotoxicity. *Int J Biol Macromol. 120: 45-58*. (**Impact Factor = 3.6**)
3. Yi Li, **Mohd. Shahnawaz Khan**, Firoz Akhter, Fohad Mabood Husain, Saheem Ahmad, Lihui Chen (2018). The non-enzymatic glycation of LDL proteins results in biochemical alterations - A correlation study of Apo B100-AGE with obesity and rheumatoid arthritis. *International Journal of Biological Macromolecules.122: 195-200*. (**Impact Factor = 3.6**)
4. Nasser A. Al-Shabib, Fohad Mabood Husain, Faheem Ahmed, Rais Ahmad Khan , Mohammad Shavez Khan , Firoz Ahmad Ansari , Mohammad Zubair Alam , Mohammed Asif Ahmed , **Mohd Shahnawaz Khan** , Mohammad Hassan Baig , Javed Masood Khan , Syed Ali Shahzad , Mohammed Arshad8 , Abdullah Alyousef8 and Iqbal Ahmad (2018). Low Temperature Synthesis of Superparamagnetic Iron Oxide (Fe₃O₄) Nanoparticles and Their ROS Mediated Inhibition of Biofilm Formed by Food-Associated Bacteria. **Frontiers in Microbiology.9: 2567**

5. Sheraz Ahmad Bhat, Waseem Feeroz Bhat, Hussain Arif, Mohammad Afsar, Aamir Sohail, **Md. Shahnawaz Khan**, Md. Tabish Rehman, Rais Ahmad Khan, Bilqees Bano (2018). Glycation induced conformational transitions in cystatin proceed to form biotoxic aggregates: A multidimensional analysis. *BBA - Proteins and Proteomics*. 1866: 989-1000. (Impact Factor = 3.4).
6. Bhat SA, Bhat WF, Afsar M, Khan MS, Al-Bagmi MS, Bano B (2018). Modification of chickpea cystatin by reactive dicarbonyl species: Glycation, oxidation and aggregation. *Arch Biochem Biophys*. 650:103-115. (Impact Factor = 3.4).
7. Mohammad Oves, Huda A. Qari, Nadeen M. Felemban, Aftab Aslam Parwaz Khan, Mohd Rehan, Shams Tabrez, Faheem Ahmed, Ashanul Haque, Mohd Shanawaz Khan, Javed M. Khan, Fohad M. Husain, Afzal Hussain, Mohiuddin Khan Warsi, and Iqbal I. M. Ismail. Exosomes: A Paradigm in Drug Development against Cancer and Infectious Diseases (2018). *Journal of Nanomaterials*. Article ID 6895464, 17 pages. (Impact Factor =)
8. Al-Shabib NA, Khan JM, Alsenaidy MA, Alsenaidy AM, **Khan MS**, Husain FM, Khan MR, Naseem M, Sen P, Alam P, Khan RH (2018). Unveiling the stimulatory effects of tartrazine on human and bovine serum albumin fibrillogenesis: Spectroscopic and microscopic study. *Spectrochim Acta A Mol Biomol Spectrosc*. 191:116-124. (Impact Factor = 2.53)
9. Ahmed A, Shamsi A, **Khan MS**, Husain FM, Bano B (2018). Probing the interaction of human serum albumin with iprodione, a fungicide: spectroscopic and molecular docking insight. *J Biomol Struct Dyn (In press)*. (Impact factor = 3.2)
10. Ahmed A, Shamsi A, **Khan MS**, Husain FM, Bano B (2018). Methylglyoxal induced glycation and aggregation of human serum albumin: Biochemical and biophysical approach. *Int J Biol Macromol*. 113:269-276. (Impact factor = 3.6)
11. Oves M, Aslam M, Rauf MA, Qayyum S, Qari HA, **Khan MS**, Alam MZ, Tabrez S, Pugazhendhi A, Ismail IMI. Antimicrobial and anticancer activities of silver nanoparticles

- synthesized from the root hair extract of Phoenix dactylifera. *Mater Sci Eng C Mater Biol Appl.* **1; 89:429-443. (Impact Factor =4.2)**
- 12.** Shamsi A, Ahmed A, **Khan MS**, Husain FM, Amani S, Bano B (2018). Investigating the interaction of anticancer drug temsirolimus with human transferrin: Molecular docking and spectroscopic approach. *J Mol Recognit (In Press)*. (*Impact Factor = 2.46*).
- 13.** Khan MS, Ahmed A, Tabrez S, Islam BU, Rabbani N, Malik A, Ismael MA, Alsenaidy MA, Alsenaidy AM (2017). Optimization of expression and purification of human mortalin (Hsp70): Folding/unfolding analysis. *Spectrochim Acta A Mol Biomol Spectrosc.* **187:98-103.**(*Impact factor = 2.53*)
- 14.** Khan JM, Alsenaidy MA, **Khan MS**, Sen P, Khan RH, Fatima S (2017). pH induced single step shift of hydrophobic patches followed by formation of an MG state and an amyloidogenic intermediate in Lima Bean Trypsin Inhibitor (LBTI). *Int J Biol Macromol.,* **103:111-119.**(*Impact factor = 3.6*)
- 15.** Javed Masood Khan, **Mohd. Shahnawaz Khan**, Atiyatul Qadeer, Mohammad A. Alsenaidy, Anwar Ahmed, Nasser Abdulatif Al-Shabib, Rizwan Hasan Khan (2017). Cationic gemini surfactant (16-4-16) interact electrostatically with anionic plant lectin and facilitates amyloid fibril formation at neutral pH. *Colloids and Surfaces A: Physicochemical and Engineering Aspects.* **552; 494-502. (Impact factor =2.76)**
- 16.** Khan JM, **Khan MS**, Alsenaidy MA, Ahmed A, Sen P, Oves M, Al-Shabib NA, Khan RH (2017). Sodium lauryl sarcosinate (sarkosyl) modulate amyloid fibril formation in hen egg white lysozyme (HEWL) at alkaline pH: a molecular insight study. *J Biomol Struct Dyn.* **28:1-16.**
- 17.** Nasser Abdulatif Al-Shabib, Fohad Mabood Husain, Iqbal Ahmad, **Mohd Shahnawaz Khan**, Rais Ahmad Khan, Javed Masood Khan (2017). Rutin inhibits mono and multi-species biofilm formation by foodborne drug resistant Escherichia coli and Staphylococcus aureus. *Food control (In press)*. (*Impact Factor =3.38*)

18. Al-Shabib NA, Husain FM, Ahmed F, Khan RA, Ahmad I, Alsharaeh E, **Khan MS**, Hussain A, Rehman MT, Yusuf M, Hassan I, Khan JM, Ashraf GM, Alsalme AM, Al-Ajmi MF, Tarasov VV, Aliev G (2017). Biogenic synthesis of Zinc oxide nanostructures from *Nigella sativa* seed: Prospective role as food packaging material inhibiting broad-spectrum quorum sensing and biofilm. *Scientific Report*. 2016 ;6:36761. **(Impact Factor = 5.22)**
19. Al-Shabib NA, Khan JM, **Khan MS**, Ali MS, Al-Senaigy AM, Alsenaidy MA, Husain FM, Al-Lohedan HA (2017). Synthetic food additive dye "Tartrazine" triggers amorphous aggregation in cationic myoglobin. *Int J Biol Macromol.*, 24; 98: 277-286. **(Impact Factor = 3.2)**.
20. Al-Shabib NA, Khan JM, Ali MS, Al-Lohedan HA, **Khan MS**, Al-Senaigy AM, Husain FM, Shamsi MB (2017). Exploring the mode of binding between food additive "butylated hydroxytoluene (BHT)" and human serum albumin: Spectroscopic as well as molecular docking study. *Journal of Molecular Liquids* 230, 557-564. **(Impact Factor = 2.74)**
21. Ul Islam B, **Khan MS**, Jabir NR, Kamal MA, Tabrez S. (2017). Elucidating Treatment of Alzheimer's Disease via Different Receptors. *Curr Top Med Chem*. **(Impact factor =3.40)**
22. Zaidi SK, Ansari SA, Tabrez S, Hoda MN, Ashraf GM, **Khan MS**, Alnohair S, Banu N, Al-Qahtani MH. (2017). Garlic extract attenuates immobilization stress-induced alterations in plasma antioxidant/oxidant parameters and hepatic function in rats. *Chin J Integr Med*. (In print), **(Impact factor = 1.2)**.
23. **Khan MS**, Bhat SA, Tabrez S, Alama MN, Alsenaidy MA, Al-Senaigy AM. (2016). Denaturation induced aggregation in α -crystallin: differential action of chaotropes. *J Mol Recognit*. 29 (11); 536-543. **(Impact Factor = 2.09)**
24. **Khan MS**, Tabrez S, Bhat SA, Rabbani N, Al-Senaigy AM, Bano B (2016). Effect of trifluoroethanol on α -crystallin: folding, aggregation, amyloid, and cytotoxicity analysis. *J Mol Recognit*, 29(1):33-40. **(Impact Factor = 2.09)**

25. Khan MS, Rabbani N, Tabrez S, Islam B, Malik A, Ahmed A, Alsenaidy MA, Al-Senaidy AM (2016). Glycation induced generation of amyloid fibril structures by glucose metabolites. *Protein Pept Lett*, 23(10); 892-897. (Impact Factor = 1.06)
26. Tanveer S, Banu S, Jabir NR, Khan MS, Ashraf GM, Manjunath NC, Tabrez S (2016). Clinical and angiographic correlation of high-sensitivity C-reactive protein with acute ST elevation myocardial infarction. *Exp Ther Med*. 12(6):4089-4098. (Impact Factor = 1.28)
27. Alsalme A, Laeeq S, Dwivedi S, Khan MS, Al Farhan K, Musarrat J, Khan RA (2016). Synthesis, characterization of α -amino acid Schiff base derived Ru/Pt complexes: Induces cytotoxicity in HepG2 cell via protein binding and ROS generation. *Spectrochimica Acta A Mol Biomol Spectrosc*, 15; 163:1-7. (Impact Factor = 2.6)
28. Jabir NR, Firoz CK, Khan MS, Zaidi SK, Ashraf GM, Shakil S, Kamal MA, Tabrez S (2016). Potential linkage between cerebrovascular diseases and metabolic syndrome. *Curr Drug Metab (In Press)*. (Impact Factor = 3.05)
29. Ahmed A, Malik A, Jagirdar H, Rabbani N, Khan MS, Al-Senaidy AM, Ismael MA (2016). Copper-Induced Inactivation of Camel Liver Glutathione S-Transferase. *Biol Trace Elem Res*, 169(1):69-76. (Impact Factor = 1.79)
30. Javed Masood Khan, Mohd Shahnawaz Khan, Mohd Sajid Ali, Nasser Abdulatif Al-Shabiba and Rizwan Hasan Khan (2016). Cetyltrimethylammonium bromide (CTAB) promote amyloid fibril formation in carbohydrate binding protein (concanavalin A) at physiological pH. *RSC Adv*, 6, 38100-38111. (Impact Factor = 3.28)
31. Fohad Mabood Husain, Iqbal Ahmad, Mohammad Hassan Baig, Mohammad Shavez Khan, Mohd Shahnawaz Khan, Iftexhar Hassan and Nasser Abdulatif Al-Shabib (2016). Broad-spectrum inhibition of AHL-regulated virulence factors and biofilms by sub-inhibitory concentrations of ceftazidime. *RSC Adv*, 6, 27952-27962. (Impact Factor = 3.28)

32. Jabir NR, Siddiqui AN, Firoz CK, Ashraf GM, Zaidi SK, **Khan MS**, Shakil S, Alama MN, Kamal MA, Tabrez S (2016). Current Updates on Therapeutic Advances in the Management of Cardiovascular Diseases. *Curr Pharm Des.* 22(5):566-71. (**Impact Factor = 3.05**)
33. **Khan MS**, Tabrez S, Rabbani N, Shah A (2015). Oxidative Stress Mediated Cytotoxicity of Glycated Albumin: Comparative Analysis of Glycation by Glucose Metabolites. *J Fluoresc*, 25(6):1721-6. (**Impact Factor = 1.6**)
34. **Khan MS**, Tabrez S, Rabbani N, Oves M, Shah A, Alsenaidy MA, Al-Senaidy AM (2015). Physico-chemical stress induced amyloid formation in insulin: Amyloid characterization, cytotoxicity analysis against human neuroblastoma cell lines and its prevention using black seeds (*Nigella sativa*). *Chin J Integr Med*, DOI: 10.1007/s11655-015-2153-y (**Impact Factor = 1.23**)
35. Malik A, Jagirdar H, Rabbani N, **Khan MS**, Ahmad A, Al-Senaidy AM, Ismael MA (2015). Optimization of Storage and Stability of Camel Liver Glutathione S-Transferase. *Prep Biochem Biotechnol*, 45(7):650-66. (**Impact Factor = 0.41**)
36. Mohammad Oves, Mohd Arshad, **Mohd S. Khan**, Arham S. Ahmed, Ameer Azam, Iqbal M.I. Ismail (2015). Anti-microbial activity of cobalt doped zinc oxide nanoparticles: Targeting water borne bacteria. *Journal of Saudi Chemical Society*, 19; 581-588. (**Impact factor = 1.97**)
37. C.K. Firoz, Nasimudeen R. Jabir, **Mohd Shahnawaz Khan**, Maged Mahmoud, Shazi Shakil, Ghazi A. Damanhour, Syed Kashif Zaidi, Shams Tabrez, Mohammad A. Kamal (2015). An overview on the correlation of neurological disorders with cardiovascular disease. *Saudi Journal of Biological Sciences*, 22(1):19-23. (**Impact Factor = 0.7**)
38. Banu S, Jabir NR, Manjunath NC, Kamal MA, Vinod Kumar KR, Mohan R, Zaidi SK, **Khan MS**, Tabrez S (2015). Correlation of TLR-4, IL-18, Transaminases and Uric Acid in the Patients with Chronic Periodontitis and Healthy Adults. *J Periodontol*, 86(3):431-9. (**Impact Factor = 2.9**)
39. Shaheena Banu, Nasimudeen R. Jabir, Nanjappa C. Manjunatha, **Mohd Shahnawaz Khan**, Ghulam Md Ashraf, Mohammad Amjad Kamal, Shams Tabrez (2015). Reduction of post-

prandial hyperglycemia by mulberry tea in type-2 diabetes patients. *Saudi Journal of Biological Sciences*, 22(1):32-6. **(Impact Factor = 0.7)**

40. Husain FM, Ahmad I, **Khan MS**, Ahmad E, Tahseen Q, Khan MS, Alshabib NA (2015). Sub-MICs of Mentha piperita essential oil and menthol inhibits AHL mediated quorum sensing and biofilm of Gram-negative bacteria. *Front Microbiol.* 13; 6:420. **(Impact Factor = 4.16)**.
41. Aaliya Shah, Medha Priyadarshini, **Mohd Shahnawaz Khan**, Mohammad Aatif, Fakhra Amin, Shams Tabrez, Galila F. Zaher, Bilqees Bano (2015). Differential effects of anti-cancer and anti-hepatitis drugs on liver cystatin. *Saudi Journal of Biological Sciences*, 22(1):69-74. **(Impact Factor = 0.7)**
42. Husain FM, Ahmad I, **Khan MS**, Al-Shabib NA (2015). Trigonella foenum-graceum (Seed) Extract Interferes with Quorum Sensing Regulated Traits and Biofilm Formation in the Strains of Pseudomonas aeruginosa and Aeromonas hydrophila. *Evid Based Complement Alternat Med.* 2015:879540. **(Impact Factor = 1.7)**.
43. Tabrez S., Priyadarshini M., Priyamvada S., **Khan MS.**, Na A., Zaidi SK. (2014). Gene-environment interactions in heavy metal and pesticide carcinogenesis. *Mutation Research*, 760: 1-9. **(Impact Factor = 3.1)**
44. Rizwan Wahab, Sourabh Dwivedi, **Mohd Shahnawaz Khan**, Abdulrahman M. Al-Senaidy, Hyung-Shik Shin, Javed Musarrat, Abdulaziz A. Al-Khedhairi (2014). Optical Analysis of Zinc Oxide Quantum Dots with Bovine Serum Albumin and Bovine Hemoglobin. *Journal of Pharmaceutical Innovation*, 9: 48-52. **(Impact Factor = 1.7)**
45. Zaidi SK, Hoda MN, Tabrez S, Ansari SA, Jafri MA, **Khan MS**, Hasan S, Alqahtani MH, Mohammed Abuzenadah A, Banu N. (2014). Protective Effect of Solanum nigrum Leaves Extract on Immobilization Stress Induced Changes in Rat's Brain. *Evid Based Complement Alternat Med.* 1-7. **(Impact Factor = 1.7)**

46. Banu S, Jabir NR, Manjunath NC, Firoz CK, Kamal MA, **Khan MS**, Tabrez S (2014). Comparative study of non-high density lipoproteins cholesterol level and lipid profile in pre-diabetic and diabetic patients. *CNS Neurol Disord Drug Targets*. 13(3):402-7. (**Impact Factor = 3.7**)
47. Ismail Warad, Mohammad Azam, Saud I. Al-Resayes, **Mohd Shahnawaz Khan**, Pervez Ahmad, Mohammed Al-Nuria, Shehdeh Jodeha, Ahmad Husein, Salim F. Haddad, Belkheir Hammouti, Mousa Al-Noaimi. (2014). Structural studies on Cd(II) complexes incorporating di-2-pyridyl ligand and the X-ray crystal structure of the chloroform solvated DPMNPH/ CdI₂ complex. *Inorganic Chemistry Communications*, 43: 155-161. (**Impact Factor = 2.01**)
48. **Khan MS.**, Dwivedi S., Priyadarshini M., Tabrez S., Siddiqui MA., Jagirdar H., Al-Senaigy AM., Al-Khedhairi AA., Musarrat J. (2013). Ribosylation of bovine serum albumin induces ROS accumulation and cell death in cancer line (MCF-7). *European Biophy J*.42 (11-12):811-18. (**Impact Factor = 2.2**)
49. **Khan MS.**, Priyadarshini M., Shah A., Al-Senaigy AM., Bano B.(2013).Conformation of Thiol protease inhibitor during amyloid formation: Inhibition by Curcumin and Quercetin. *Journal of Fluorescence*. 23:451–457. (**Impact Factor = 2.1**)
50. Shah A., Priyadarshini M., **Khan MS**, Aatif M., Amin F., and Bano B. (2013). Biochemical, Immunological and Kinetic Characterisation of Thiol Protease Inhibitor (Cystatin) from Liver. *Applied Biochem Biotechnol*. 171(3):667-675. (**Impact Factor = 1.7**)
51. **Khan MS.**, Priyadarshini M., Shah A., Tabrez S., Jagirdar H., Senaidy AM., Bano B. (2013). Benzo (a) pyrene induced structural and functional modifications in lung cystatin. *Environmental Monitoring and Assessment*. 185 (10): 8005-10. (**Impact Factor = 1.7**)
52. Tabrez S., Priyadarshini M., Urooj M., Shakil S., Ashraf GM., **Khan MS.**, Kamal MA., Alam Q., Jabir NR., Abuzenadah AM., Chaudhary AGA., Damanhoury GA (2013). Cancer Chemoprevention by Polyphenols and their Potential Application as Nanomedicine. *Journal of Environmental Science and Health, Part C*. 31(1):67-98. (**Impact Factor = 2.5**)

53. Shah A., **Khan MS.**, Priyadarshini M., Aatif M., Amin F., Bano B. (2012). Spectral Methods of Characterizing the Conformational Changes of Glycated Goat Liver Cystatin. *Current Proteomics*. 9(4) 255-261. (**Impact Factor = 0.42**)
54. Shah A., Aatif M., Priyadarshini M., **Khan MS.**, Amin F., Bano B. (2012). Studies on the Chemical Modification of Goat Liver Cystatin and the Effect on Its Anti-Papain Inhibitory Activity. *Journal of Fluorescence*. 22(6):1627-1632. (**Impact Factor = 2.1**)
55. Azam M., Hussain Z., Warad I., Al-Resayes SI., **Khan MS.**, Shakir M., Trzesowska-Kruszynska A., Kruszynski R. (2012). Novel Pd (ii)-salen complexes showing high in vitro anti-proliferative effects against human hepatoma cancer by modulating specific regulatory genes. *Dalton Trans.* 41(35):10854-64. (**Impact Factor = 4.09**)
56. Priyadarshini M., **Khan MS.**, Bano B (2012). Aggregation and inactivation of Pancreatic Cystatin by Riboflavin - Derived Singlet Oxygen and Flavin Triplet State Polyphenols as preventive agents. *J Biochemistry and Molecular Toxicology*. 26: 187-192. (**Impact Factor = 1.59**)
57. **Khan MS.**, Tabrez S, Priyadarshini M, Priyamvada S, Khan MMR. (2012) Targeting Parkinson's- tyrosine hydroxylase and oxidative stress as points of interventions. *CNS & Neurological Disorders - Drug Targets*. 11 (4):369-803. (**Impact Factor = 3.7**)
58. **Khan MS.**, Priyadarshini M., Sumbul S., Bano B. (2010) Methotrexate binding caused structural and functional changes in lung cystatin. *Acta Biochimica Polonica*, 57, 499-503. (**Impact Factor = 1.59**)
59. **Khan MS.**, Priyadarshini, M., Bano, B. (2009) Preventive effect of Curcumin and Quercetin against Nitric oxide mediated Modification of Goat Lung Cystatin. *Journal of Agricultural and Food Chemistry*, 57: 6055-59. (**Impact Factor = 3.11**)
60. **Khan MS.**, Bano B.(2009) Purification, Characterization and Kinetics of Thiol Protease Inhibitor from Goat (*Capra hircus*) Lung. *Biochemistry Moscow*, 74: 781-788. (**Impact Factor = 1.35**)

61. **Khan MS.,** Bano B. (2009) Mechanism of Unfolding of Goat Lung Cystatin during Urea and Guanidine hydrochloride Induced denaturation. *International Journal of Peptide Research and Therapeutics*, 15: 81-86. (Impact Factor = 0.825)
62. Sumbul S., **Khan MS.,** Bano, B. (2009) Effect of curcumin on the nitric oxide induced structural and functional modifications of high molecular mass goat brain cystatin. *Biochemistry Moscow, Supplemental Series B, Biomedical Chemistry*, 3: 259.

Abstracts, Posters and Presentations

- 1) **Khan, MS.,** Priyadarshini, M., Shah, A., Atif, M., Bano B. (2009) Preventive effect of curcumin and quercetin against nitric oxide mediated modification of goat lung cystatin. In: *Souvenir cum abstract book*, International SFRR Satellite Symposium. Department of Biochemistry, Aligarh Muslim University, Aligarh (March 17-18).
- 2) **Khan, MS.,** Sumbul, S., Priyadarshini, M., Shah, A., Atif, M., Bano B. (2008) Comparative study of urea and GdnHCl denaturation of goat lung cystatin. In: International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis & XXXIII EMSI Annual Meeting. Department of Agricultural Micro Biology, Aligarh Muslim University, Aligarh (January 1-3).
- 3) **Khan, MS.,** Priyadarshini M. Bano, B. (2008) Effect of methotrexate on goat lung Cystatin. Proceedings of SFRR Satellite Meeting, AIIMS, New Delhi February 11-12.
- 4) **Khan, MS.,** Priyadarshini, M., Shah, A., Atif, M., Bano B. (2008) Chemical denaturation of goat lung cystatin revealing an intermediate stage in the unfolding pathway. National Symposium on Recent Advances in Biochemistry and Allied Sciences, UGC-DRS-II Programme, Dept. Of Biochemistry, F/O Life Sciences, Aligarh.
- 5) **Khan, MS.,** Sumbul, S., Priyadarshini, M., Bano, B. (2006) Purification and partial Characterization of cystatin from goat muscle. In: *Souvenir and Abstracts* Second J & K Science Congress organized by University of Kashmir (July 25-27, 2006).

Workshops and Symposium Attended

- 1) Attended, and was a member of the organizational committee for, the National Symposium on *Recent Advances in Enzyme Technology, Toxicology and Bioinformatics* at Aligarh Muslim University, INDIA on 3rd March 2010.
- 2) Attended two day Workshop on *FACS* by BD Biosciences, India at Aligarh Muslim University, Aligarh, during January 2-3, 2008.
- 3) Participated in the Department of Biotechnology (Ministry of Science and Technology, Govt. of India) - sponsored workshop “*Exploring Genomes with Bioinformatics*” organized by the Aligarh Muslim University, Aligarh, during February 22-23, 2006.

Activities and Honors

- 1) **Qualified National Eligibility Test (CSIR-NET) for Assistant Professor held in Dec. 2004.**
- 2) Supervised 4 students for Master (M.SC) Projects in India
- 3) Supervised 3 BCH students (King Saud University, Riyadh, KSA) for their projects
- 4) Co-Supervisor for Master project (Female Section, King Saud University, Riyadh, KSA) entitled “Unexplored Stability of Date Palm (*Phoenix Dactylifera*) Peroxidase Compared with Horseradish Peroxidase (HRP).

Approved Projects

1. **Chaperones and Proteases in the quality control of protein misfolding disease.** (National Plan for Science and Technology, NPST, Total Budget 1.78 million SR, Role- Principal Investigator, Status- Running project)
2. **Development of protein folding biosensor to study protein misfolding diseases.** (National Plan for Science and Technology, NPST, Total Budget 1.82 million SR, Role- Co-I, Status- approved project)

Trainings

1. Organized and supervision of summer trainings on expression, Purification and characterization of proteins (12th July-12th August, 2016)

Published Book

- 1) Thiol protease inhibitors from mammalian lung, (ISBN: 9783847374565)

Published Book chapter

Education

2012-Present	Assistant Professor, King Saud University, Riyadh, Saudi Arabia
2010-2011	Post-doctoral Fellow, UMDNJ, U.S.A
2005-2010	Ph.D. Biochemistry AligarhMuslimUniversity, Aligarh, U.P., India Research Supervisor: Professor Bilqees Bano
2003-2005	M.Sc., (Biochemistry) Jamia Hamdard, New Delhi, India Academic Grade: <i>First Class</i>
2000- 2003	B.Sc. (Hons.) Chemistry AligarhMuslimUniversity, Aligarh, U.P., India Academic Grade: <i>First Class</i>

Research Experience

Biochemistry	<i>Purification of proteins</i> using modern purification techniques (AKTA purification system, Ion-exchange, Size exclusion and affinity chromatography), <i>Enzymes assays, enzyme kinetics, Native and SDS-PAGE, Agarose gel electrophoresis and Western blotting.</i>
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Biophysical studies

Drug-Protein and Protein-Protein analysis, Folding/Unfolding/Misfolding studies of proteins, characterization of proteins using *CD, DLS, DSC, FTIR, AFM, TEM, SEM, ESI-MS*

Molecular Biology

Cloning and Expression of genes, Isolation of DNA, Plasmid and RNA, PCR and RT-PCR, Cell Culture

Microbiology

Transformation, Isolation of pure culture, Anti-bacterial and Anti-fungal activity, cytotoxicity Assays.

IT Skills

Operating systems: Windows98, 2000, XP, Vista MS
Office tools: MS Word, MS Excel, Origin 6.1, Sigma Plot

Academic Referees**Professor Bilquees Bano**

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