

Personal

Name : Luqman Ahmad Khan

Correspondence : Department of Biosciences, Jamia Millia Islamia (Central University),
New Delhi-25, India, Ph: +91-9871011198

Email : Luqmank5@rediffmail.com, LKHAN@jmi.ac.in

Date of Birth : July 20, 1962

Current position : Professor, Department of Biosciences, Jamia Millia Islamia
(Central University), New Delhi-25

Teaching Experience: (30 years)

Undergraduate: Organic Chemistry, Biochemistry

Post graduate : Nutritional Biochemistry, Biomolecules,, Enzymology and Metabolism

Research Area:

Enzymology, Fungal Biochemistry.

Academic Qualifications

BSc (Chemistry) 1983 AMU, Aligarh

MSc (Biochemistry) 1985 AMU, Aligarh

PhD (BioSciences) 1991 Jamia Millia Islamia

(Topic: Studies on energy transducing enzymes of muscle)

Scholarships/Fellowships

Faculty merit scholarship during MSc (1983-1985)

UGC-National Eligibility Test (NET)-Life Sciences-1985

UGC-Junior Research Fellowship (1986-88)

UGC-Senior Research Fellowship (1988-91)

CSIR-Research Associateship-1991

Academic Positions

(All positions at Department of Biosciences, Jamia Millia Islamia, New Delhi)

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|-------------------------|-----------------------------------|
| 1. Lecturer (Adhoc) | Sep 1991-Aug 1994 |
| 2. Lecturer | Aug 1994-Aug 1998 |
| 3. Lecturer (Sr. Scale) | Aug 1998-Aug 2003 |
| 4. Reader | Aug 2003-Aug 2006 |
| 5. Associate Professor | Aug 2006-Jan 2009 |
| 6. Professor | Jan 2009-till date (January 2025) |

Positions/Member of Committees/Boards

- Head, D/o Biosciences, Jamia Millia Islamia (JMI), Delhi, April 2010- April 2013.
- Member of Court, Jamia Millia Islamia, New, Delhi, 2012-13
- Member, Academic Council, JMI, 2004-2007 (Elected), 2010-2013 (Ex-officio)
- Member, Faculty Committee (Natural Sciences) Jamia Millia Islamia, 1994-2006, 2009-till date.
- Member, Committee of studies, Centre for Physiotherapy and Rehabilitation Sciences, JMI, 2009-till date.
- Member, Board of Management, Centre for Interdisciplinary Research in Basic Sciences, JMI, 2013-2016
- Member, Board of Studies, Department of Mathematics, JMI, 2014-till date.
- Member, NAAC Coordination Committee, JMI, 2012-13.
- Member, Institutional Animal Ethical Committee, JMI, 2011-till date
- Member, Institutional Human Ethical Committee, JMI, 2011-2015.
- Member, Faculty Committee (Dentistry), JMI
- Member, Board of studies, Department of Chemistry, JMI
- Member, Board of Studies, Faculty of Dentistry, JMI
- Member, Board of Management, MCARS, JMI
- Member, Jamia Centenary Celebration Committee, JMI
- Member, Board of Studies, D/o Chemistry, JMI
- Member, Faculty Committee, F/o Education, JMI
- Member, Faculty Committee, F/o Architecture and Ekistics, JMI
- Member, Board of Studies, D/o Biochemistry, Jamia Hamdard, New Delhi
- Member, Board of Studies, D/o Biochemistry, AMU, Aligarh.
- Member, Institutional Ethics Committee, SGT-University, Gurugram, Haryana.
- Member, Institute Ethics Committee, Central Health Education Bureau, Delhi.
- Member, API Committee, JMI.
- Coordinator, MSc-Biochemistry Programme, JMI
- Hony. Director, Unani Pharmacy & Medicine, JMI

Academic Work outside University

- Member, NCERT workshop for review of Urdu translation and vetting of Biology Text Book for class XII, January-2004.
- Chairperson, Scientific programme, CME on Fungi in Dental Practice, Indraprastha Dental College and Hospital, April 2009.
- Advisor, Staff Selection Board, Central Government for several interviews.
- Member, UGC committee for evaluation of proposals for International/National conferences/seminars-2014.
- Member, Dissection and Animal Experimentation Monitoring Committee, Jamia Hamdard-2014
- Member Departmental Assessment Board for Research Officer (Biochemistry), CCRUM, New Delhi-November 2016.

- Member, Academic Audit Committee, JBAS College for Women, Madras University-2017
- Member-Expert, Ministry of HRD, International Scholarships-2017.
- Member of Selection Committees inside and outside of University.
- UGC-observer, NET/JEE examinations.

Organization of Seminar/Conference:

- Member, Organizing Committee, National Symposium on Frontiers in Modern Biology, Jamia Millia Islamia, Delhi, 1990.
- Member, Organizing Committee, National Symposium on Intellectual Property rights and Indian germ plasm resources, Jamia Millia Islamia, New Delhi, 2000
- Co-Convenor, Biotechnology Research Committee, 32nd Social Science Congress-2008.
- Member, National Advisory Committee, 3rd Annual Meeting, Indian Academy of Biomedical Sciences & symposium on modern trends in human disease-2013.
- Joint Organizing Secretary, UGC-DRS sponsored National Seminar on Metal Toxicity and Oxidative Stress, JMI, New Delhi, September-2014.
- Member, Advisory Board, National Conference on Molecular Virology, JMI, New Delhi, November 2014.
- Chair, Distinguished Lecture Series, 5th Annual Meeting of Indian Academy of Biomedical Sciences, New Delhi, February, 2016.
- Joint Organizing Secretary, UGC-SAP sponsored National Seminar on Recent Advances in Environmental Toxicology, Deptt. Of Biosciences, Jamia Millia Islamia, New Delhi-25, February 13-14, 2017.

Reviewer for Journals

- Cell Biochemistry and Biophysics
- Journal of Amino Acids
- Fertility and Sterility
- Jordan Journal of Biological Sciences
- African Journal of Biotechnology
- Pharmaceutical Biology
- Indian Journal of Medical Research
- British Microbiology Research Journal
- Infectious Diseases in Obstetrics and Gynecology
- Bulgarian Chemical Communications
- Abiotic and Biotic Stress Journal
- Microbial Pathogenesis
- The World Science Journal
- Biochimica et Biophysica Acta
- British Biotechnology Journal
- Journal of Global Infectious Diseases
- Journal of International Research in Medical and Pharmaceutical Sciences
- BioMed Research International
- Critical Reviews in Biotechnology

- Expert Review of Anti-infective Therapy
- Plant Cell Biotechnology and Molecular Biology
- Journal of Disease and Global Health
- Annual Review and Research in Biology
- Mini-Reviews in Medicinal Chemistry
- Journal of Basic and Applied Research International
- British Journal of Medicine and Medical Research
- Archives of Microbiology
- International Journal of Biochemistry Research and Review
- British Journal of Pharmaceutical Research
- BMC-Genomics
- Advances in Research
- Journal of Biology and Nature
- Archives of Gerontology and Geriatrics
- Evidence Based Complementary Research
- Royal Society of Chemistry (RSC)-Advances
- Journal of Advance in Medical and Pharmaceutical Sciences
- Annals of Brazilian Academy of Sciences
- Microbiology Research Journal International
- Scientific World Journal
- International Journal of Tropical Disease and Health
- European Journal of Nutrition and Food Safety
- Journal of Advances in Medicine and Medical Research
- Folia Microbiologica

Reviewer for Books

- Biochemistry by SC Rastogi, Tata McGraw Hill, New Delhi.

PhD/MPhil/PG Examiner

- Aligarh Muslim University
- Agra University
- Hamdard University, Delhi
- Kashmir University, Srinagar
- King George Medical University, Lucknow
- Madras University
- BITS, Pillani
- Indira Gandhi National Open University, Delhi
- Banasthali Vidyapeeth
- Graphics Era University, Dehradun
- Integral University, Lucknow
- Amity University, Noida.
- Gauhati University, Guwahati

- Jawahar Lal Nehru University, Delhi

Workshop/Training/Orientation/Refreshers Courses

1. Four Week training programme on Fast Reaction Kinetics, Biologic/CNRS, Grenoble, France, April 1990.
2. Workshop on Fundamentals of computer modeling of Biomolecular interactions, AIIMS, New Delhi, April 26-29, 1993.
3. UGC sponsored Four week orientation programme, JMI, New Delhi, April/May-1998.
4. Two Week Orientation training course in Reproductive Biomedicine, National Institute of Health and Family Welfare (NIH&FW), Government of India, New Delhi, November-1998.
5. UGC sponsored Four Week Refresher course in Biotechnology, JNU, New Delhi, April/May-2003.
6. UGC-sponsored Four Week Refresher course in Life Sciences, JNU, New Delhi, Dec/Jan 2004/2005.
7. LC-MS workshop, Waters India Limited, New Delhi, May 2017.

Research Projects

1. Pre-steady state kinetic studies on PM-ATPase of *Candida albicans*, Council of Scientific and Industrial Research (CSIR) – Major, Jan 1996 - Dec 1998 (P.I)
2. Pre-steady state kinetic studies of *Candida albicans* mycelial PM-ATPase, University, Minor, Jan 1998 - Dec 1999. (P.I)
3. Fast reaction kinetics of ATP hydrolysis by Na-K-ATPase, University, Minor, Jan 2001 - Dec 2003. (P.I)
4. Fast reaction Kinetics of glucose activation of plasma membrane H⁺ ATPase from *Candida albicans*, UGC, Major, April 2008 - March 2011. (P.I)
5. Apoptosis and Pathogenicity Modulation in *C. albicans* by Curcumin and lead molecules of Tulsi Essential Oil, ICMR, Major, April 2009-March 2012. (Co-P.I)
6. Environmental pollution and Cardiovascular cell signaling, UGC- SAP (DRS-I), April 2011-March 2016 (Dy. Coordinator). Approx 42 lakhs.
7. Studies on endothelial nitric oxide synthase phosphorylation and its consequences on uncoupled NO synthesis, tetrahydrobiopterin recycling and superoxide generation. DST-SERB, March 2019-three years, Co-PI, Rs 53.00 lakhs.
8. Development, evaluation of lipid nanocarrier for endothelial nitric oxide synthase (e-NOS)

delivery and its consequences on uncoupled NO synthesis and superoxide generation, 2020-2023, Co-PI, 46 lakhs.

9. Cancer therapeutics, UGC- SAP (DRS-II), 2018-2023 (Dy. Coordinator). Approx 110 lakhs.

PhD Supervisor/Co-Supervisor:

1. Nikhat Manzoor (1998)/Co-supervisor/ Studies on PM-ATPase of Candida albicans.
2. Vinita Gupta (1999)/Supervisor/ Multi Drug resistance in Candida albicans.
3. Asbah Fatimah Qureshy (1999)/Supervisor/ Biochemical and genetic studies on xylan degradation.
4. Bushra Rashid (1999)/Co-supervisor/ Pre-steady state kinetic studies on PM-ATPase of Candida albicans.
5. Sanjeev Saxena (2001)/Supervisor/ Transport and Transporter of L-Proline of Candida albicans: A pathogenic yeast.
6. Qazi Parvaiz Hassan (2001)/Supervisor/ Development of a recombinant organism for production of 2-keto-L-gulonic acid.
7. Md. Mahfuzul Haque (2003)/Co-supervisor/ Elucidation of mechanism of energy transduction by membrane ATPases.
8. Syed Naqui Kazim (2004)/Supervisor/ Molecular Characterization of HBV mutants in India.
9. Tulika Prasad (2005)/Supervisor/ Functional relevance of Membrane lipid asymmetry and fluidity in Candida albicans: a pathogenic yeast.
10. R. Achila (2008)/Co-supervisor/ Manipulation of programmed cell death in cell culture.
11. Ram Prasad (2009)/Supervisor/ Screening of hepatoprotective potential of certain medicinal plants in liver cirrhosis and carcinoma.
12. Mohd. Asim (2009)/Supervisor/ Molecular Epidemiology of Hepatocellular Carcinoma in India: North-South gradient.
13. Sujoy Bose (2010)/Supervisor/ Studies on genetics and viral factors associated with hepatocellular carcinomas in India population.
14. Amber Khan (2012)/Co-Supervisor/ Apoptosis and pathogenicity modulation in Candida albicans by essential oil Tulsi (Ocimum Sanctum) and its lead molecules.
15. Rashmi Ojha (2012)/Supervisor/ Effect of vitamin-C on growth and pathogenicity of Candida albicans.

16. Aijaz Ahmad (2012)/Co-supervisor/ Effect of eugenol and its derivatives on growth and pathogenicity markers of *Candida albicans*.
17. Snowber Yousuf (2012)/Supervisor/ Anticandidal activity of garlic derived compounds.
18. Sheikh Shreaz (2013)/Supervisor/ Growth and pathogenicity modulation by cinnamaldehyde and its derivatives in *Candida albicans*.
19. Rimple Bhatia (2014)/Supervisor/ Effect of Ferulic acid and its natural derivatives on growth and pathogenicity of *Candida Spp*.
20. Neelofar (2014)/Supervisor/ Effect of curcumin on growth and pathogenicity of *Candida spp*.
21. Hiba Shabir (2015)/Supervisor/ Ameliorative potential of some natural compounds on Lead and Cadmium altered aortic and tracheal contractility.
22. Shamama Nishat (2015)/Co-supervisor/ Adenosine A3 receptor mediated vasoconstriction in diabetic mouse.
23. Deepa Anil Kumar (2015)/Supervisor/ Spectrum of *Candida* species in health and oral lesions.
24. Swati Kundu (2016)/Supervisor/ Effect of some natural compounds on Arsenic and Mercury altered cardiovascular and tracheal contractility.
25. Fatima Amir (2021)/Supervisor/ Molecular characterization of quasispecies of Hepatitis B virus.
26. Farheen Naaz (2021)/Supervisor: Interaction of selected proteins with potential phytotherapeutics
27. Farah Afreen (2022)/Supervisor/ Copper (II) and Smooth muscle contraction.
28. Venkatesh Saibabu (2022)/Supervisor/Effect of vanillin and octyl-gallate on growth and pathogenicity of *Candida spp*.
29. Rashi (2023)/Supervisor: Design of potential antifungals against *Candida albicans*
30. Ziaul Hasan (2024)/Supervisor: Spectroscopic studies on the interaction of potential phytotherapeutics with selected protein.
31. Anam Rais (continuing)/Supervisor: Biomedical application of Quantum Dots in infectious diseases using *Candida albicans* as a model organism

Research Publications (journals):

1. **Luqman A. Khan**, Meena R and Amin M. (1989) Coupling of enzymic activities of creatine kinase and myosin ATPase and its role in muscular contraction, Ind. J. Biochem. Biophys., 26(3), 148-152.
2. Ahmad F and **Luqman A. Khan** (1989) The denatured states of ribonuclease-A: mechanism of denaturation by lithium chloride, Ind. J. Biochem. Biophys., 26(5) , 301-304.
3. Pal. PK, **Luqman A. Khan** and Amin M (1993) Proton liberation in the pre-steady state phase of creatine kinase, Ind. J. Biochem. Biophys. 30(4), 214-217.
4. **Luqman A. Khan** and Amin M (1995) A kinetic scheme for the early phase of ATP hydrolysis by actomyosin ATPase and its bioenergetic implications, Ind. J Biochem. Biophys., 32(1), 37-43.
5. Manzoor M, Amin M and **Luqman A. Khan** (1999) Pre-steady state kinetic studies on H⁺ ATPase from *Candida albicans*, Journal of Biochemistry, 126(4), 776-780.
6. Nikhat M, Bushra R, Amin M and **Luqman A. Khan** (2000) Nutrient associated changes in PM-ATPase activity of permeabilized *Candida albicans* cells, Ind. J Biochem. Biophys. 37 (4), 241-244.
7. Asbah F. Qureshi, **Luqman A. Khan** and Khanna S. (2000) Expression of Baciluscirculans Teri-42 xylanase gene in *Bacillus Subtilis*, Enzyme and Microbial Technology, 27 (3) , 227-232.
8. Asbah F Qureshy, **Luqman A. Khan**& Khanna S (2002), Cloning, Regulation and Purification of Cellulase-free Xylanase from *Bacillus circulans* Teri-42, Indian J. of Microbiology, 42 (1), 35-41
9. Nikhat M, Amin M and **Luqman A. Khan** (2002), Effect of Phosphocreatine on H⁺ extrusion, pHi and dimorphism in *Candida albicans*, Indian. J. Exptl. Biology, 40, 785-790.
10. Kazim SN, Wakil SM, **Luqman A. Khan**, Hasnain S.E. and Sarin SK (2002) Vertical transmission of hepatitis B virus despite maternal lamivudine therapy, The Lancet, 359, 1488-89.
11. Wakil, SM, Kazim SN, **Luqman A. Khan**, Raisuddin S, Parvez MK, Guptan RC, Thakur V, Hasnain, S.E. and Sarin, SK (2002) Prevalence and profile of mutations associated with lamivudine therapy in Indian patients with chronic hepatitis B in the surface and polymerase genes of hepatitis B virus, Journal of Medical Virology, Volume: 68(3), 311-318.
12. Nikhat M, Haque MM, **Luqman A. Khan**(2004) Inhibition of H⁺ Extrusion by Phosphocreatine in *Candida albicans*, Journal of Plant Biochemistry and Biotechnology, 13 (1), 65-67.

13. Haque MM, Nikhat M, Hussain ME, **Luqman A. Khan** (2004) Effect of Nitric oxide on H⁺-efflux in presence of various nutrients in *Candida albicans*, *Indian Journal of Experimental Biology*, 42 (1), 86-90.
14. Qazi PH, Johri S, Verma V, **Luqman A. Khan** and Qazi GN (2004), Cloning, sequencing and partial characterisation of sorbitol transporter (srlT) gene encoding phosphotransferase system, glucitol/sorbitol-specific IIBC components of *Erwinia herbicola* ATCC 21998, *Molecular Biology Reports*, 31, 143-149.
15. Bushra R, Nikhat M, Amin M & **Luqman A. Khan** (2004), Effect of glucose, its analogues and some amino acids on pre-steady state kinetics of ATP hydrolysis by PM-ATPase of Pathogenic Yeast (*Candida albicans*), *Korean Journal of Biological Sciences*, 8 (4), 307-312.
16. Tulika Prasad, Saini P, Gaur NA, Vishwakarma RA, **Luqman A. Khan**, Haq QMR and Prasad R (2005), Functional analysis of CaIPT1, a sphingolipid biosynthetic gene involved in multidrug resistance and morphogenesis of *Candida albicans*, *Antimicrobial Agents and Chemotherapy*, 49(8), 3442-3452.
17. Saini P, Prasad T, Gaur NA, Shukla S, Jha S, Komath SS, Haq QMR, **Luqman A. Khan**, and Prasad R (2005), Alanine scanning of transmembrane helix 11 of Cdr1p ABC antifungal efflux pump of *Candida albicans*: identification of amino acid residues critical for drug efflux, *Journal of Antimicrobial and Chemotherapy*, 56 (1), 77-86.
18. Haque MM, Pooja, Manzoor N, **Luqman A. Khan** and Basir SF (2005), Effect of sodium nitroprusside on H⁺-ATPase activity and ATP concentration in *Candida albicans*, *Indian J. Exp. Biol.* 43 (10), 873-879.
19. Kazim SN, Sarin SK, Sharma BC, **Luqman A. Khan** and Hasnain SE (2006), Characterization of Naturally Occurring and Lamivudine-Induced Surface Gene Mutants of Hepatitis B Virus in Patients with Chronic Hepatitis B in India, *Intervirology*, 49(3), 152-160.
20. Haque MM, Manzoor N, Amin M, Hussain ME and **Luqman A. Khan** (2007), Glucose Regulation of Pre-steady state kinetics of ATP hydrolysis by Na,K-ATPase, *Acta Biochimica et Biophysica Sinica*, 39 (8), 583-590.
21. Bushra R, Manzoor N and **Luqman A. Khan** (2007), Kinetic Analysis of Nutrient stimulated H⁺ efflux by PM-ATPase of *Candida albicans*. *Revista Latinoamericana de Microbiologia*, 49 (3-4), 55-59.
22. Nikhat M, Haque MM and **Luqman A. Khan** (2009), Pre-steady state kinetics of ATP hydrolysis by Na,K-ATPase, *Cell Biochemistry and Function*, 27 (3), 135-141.
23. Sharma GS, Sheikh RA, Shreaz S, Hashmi AA and **Luqman A. Khan** (2009), Synthesis, characterization and antimicrobial activity of Potassium Hydro (benzoyl) (phthyl) borate and its cobalt (II) Nickel (II) and Copper (II) complexes, *Chinese journal of chemistry*, 27, 1300-1306.

24. Ojha R, Manzoor N and **Luqman A. Khan** (2009), Ascorbic acid modulates pathogenecity markers of *Candida albicans*, International Journal of Microbiology Research, 1 (1), 19-24.
25. Aijaz Ahmad Amber Khan, Nikhat Manzoor and **Luqman A. Khan** (2010), Evolution of ergosterol biosynthesis inhibitors as fungicidal against Candida, Microbial Pathogenesis. 48(1), 35-41.
26. Amber Khan, Aijaz Ahmad, Nikhat Manzoor and **Luqman A. Khan** (2010), Antifungal activities of Ocimum sanctum essential oil and its lead molecules, Natural Products Communications, 5(2), 345-349.
27. Asim M, Malik A, Sarma MP, SK Polipalli, Nargis Begum, Ahmad I, **Luqman A. Khan**, Husain SA, Akhtar N, L. Thayumanavan, Rajiv Singla, P. Kar. (2010), "Hepatitis B Virus BCP, Precore/core, X gene Mutations/Genotypes and the Risk of Hepatocellular Carcinoma in India", Journal of Medical Virology, 82(7), 1115-1125.
28. Asim M, **Luqman A. Khan**, Husain SA, Husain S, Sarma MP, Ahmad I, Sharma JK, Sharma A, Sharma S, L. Thayumanavan, and P. Kar. (2010), Genetic polymorphism of glutathione S-transferases M1 and T1 in Indian patients with hepatocellular carcinoma, Disease Markers, 28 (6), 369-376.
29. Ojha R, Prasad R, Manzoor N and **Luqman A. Khan** (2010), Vitamin-C modulates oxidative stress related enzyme activities in Candida albicans, Turkish Journal of Biochemistry, 35 (1), 35-40.
30. Sheikh RA, Shreaz S, **Luqman A. Khan** and Hashmi AA (2010), Development and characterization of bioactive macrocyclic metal complexes: use as a potential drug, J. Chemical and Pharmaceutical Research, 2(2), 172-185.
31. Prasad R, Ali S and **Luqman A. Khan** (2010), Orange peel extract can attenuate the hepatic response to oxidative stress, Ethnopharmacology, Inventi:Med Chem/104/10.
32. K Amber; A Aijaz; X Immaculata, **Luqman A. Khan** and M Nikhat (2010), Anticandidal effect of Ocimum sanctum essential oil and its synergy with fluconazole and ketoconazole, Phytomedicine, 17 (12), 921-925.
33. Sheikh Shreaz, Rayees A Sheikh, Bhatia Rimple, Athar Adil Hashmi, Manzoor Nikhat, **Luqman A. Khan** (2010), Anticandidal activity of cinnamaldehyde, its ligand and Ni(II) complex: Effect of increase in ring and side chain, Microbial pathogenesis, 49 (3), 75-82.
34. Aijaz Ahmad, Amber Khan, **Luqman A. Khan** and Nikhat Manzoor (2010), In vitro synergy of eugenol and methueugenol with fluconazole against Candida isolates, J. Medical Microbiology, 59 (10), 1178-1184.

35. Aijaz Ahmad, Amber Khan, Snowber Yousuf, **Luqman A. Khan** and Nikhat Manzoor (2010), Proton translocating ATPase mediated fungicidal activity of eugenol and thymol, *Fitoterapia*, 81 (8), 1157-62.
36. Snowber Yousuf, Aijaz Ahmad, Amber Khan, Nikhat Manzoor and **Luqman A. Khan** (2010), Effect of diallyldisulphide on antioxidant enzyme system in *Candida* Species, *Canadian Journal of Microbiology*, 56 (10), 816-821.
37. Sheikh RA, Shreaz S, Malik MA, **Luqman A. Khan** and Hashmi AA (2010), Spectroscopic elucidation of new metal hetroscorpionates: A novel class of antifungal and antibacterial agents, *J. Chemical and Pharmaceutical Research*, 2(3), 133-146.
38. Sheikh RA, Shreaz S, **Luqman A. Khan** and Hashmi AA (2010), Synthesis, characterization and antifungal activity of transition metal complexes derived from a novel macrocyclic compartmental ligand, *J. Chemical and Pharmaceutical Research*, 2(3), 274-286.
39. Asim M, Ali R, **Luqman A. Khan**, Husain SA, Singla R and P Kar (2010), Significance of anti-HBc screening of blood donors & its association with occult hepatitis B virus infection: implications for blood transfusion, *Indian J. Medical Research*, 132, 312-317.
40. Prasad R, S.Ali and **Luqman A. Khan** (2010), Hepatoprotective effect of *Syzygium aromaticum* extract on acute liver injury induced by thioacetamide, *Intl. journal of Pharmaceutical and clinical Research*, 2(2), 68-71.
41. Amber Khan, Aijaz Ahmad, Feroz Akhtar, Snowber Yousuf, Immaculata Xess, **Luqman A. Khan**, Nikhat Manzoor. (2010) *Ocimum sanctum* essential oil and its active principles exert their antifungal activity by disrupting ergosterol biosynthesis and membrane integrity. *Research in Microbiology*. 161(10), 816-823.
42. Bose S, Sakhuja P, Bezawada L, Agarwal AK, Kazim SN, **Luqman A. Khan**, Sarin SK and Gayatri Ramakrishna(2011), Hepatocellular carcinoma with persistent hepatitis B virus infection shows unusual down regulation of Ras expression and differential response to Ras mediated signaling, *Journal of Gastroenterology and Hepatology*, 26 (1), 135-144.
43. Aijaz Ahmad, Amber Khan, Feroz Akhtar, Snowber Yousuf, Immaculata Xess, **Luqman A. Khan**, Nikhat Manzoor (2011) Fungicidal activity of thymol and carvacrol by disrupting ergosterol biosynthesis and membrane integrity against *Candida*. *European Journal of Clinical Microbiology & Infectious diseases*. 30 (1), 41-50.
44. Aijaz Ahmad, Amber Khan, Bharathi N.P., Athar Adil Hashmi, **Luqman A. Khan**, Nikhat Manzoor (2011). Impaired Ergosterol Biosynthesis Mediated Fungicidal Activity of Oil Based Tin Polymer. *Medicinal Chemistry Research*. 20 (8), 1141-1146.
45. Amber Khan, Aijaz Ahmad, Feroz Akhtar, Snowber Yousuf, Immaculata Xess, **Luqman A. Khan**, Nikhat Manzoor (2011), Induction of Oxidative Stress as a Possible Mechanism of Antifungal Action of Three Phenyl Propanoids. *FEMS Yeast Research*. 11 (1), 114-122.

46. Snowber Yousuf, Aijaz Ahmad, Amber Khan, Nikhat Manzoor, **Luqman A. Khan** (2011), Effect of garlic derived allylsulphides on morphogenesis and hydrolytic enzyme secretion in *Candida albicans*. Medical Mycology. 49 (4), 444-448.
47. Neelofar Khan, Sheikh Shreaz, Bhatia Rimple, S. Muralidhar, Manzoor Nikhat, **Luqman A. Khan** (2011), Curcumin as a promising anticandidal of clinical interest, Canadian Journal of Microbiology, 57(3), 204-210.
48. Sheikh S, Rayees A S, Bhatia R, A A Hashmi, Manzoor N, Basir SF and **Luqman A. Khan** (2011), Antifungal activity of alpha-methyl trans cinnamaldehyde, its ligand and metal complexes: promising growth and ergosterol inhibitors, Biometals, 24(5), 923-933.
49. Md Irshad, Sheikh S, Nikhat M, **Luqman A. Khan** and M M A. Rizvi (2011), Anticandidal activity of *Cassia fistula* and its effect on ergosterol biosynthesis, Pharmaceutical Biology, 49 (7), 727-733.
50. S Shreaz, R Bhatia, N Khan, S Muralidhar, S F. Basir, N Manzoor, **Luqman A. Khan** (2011), Exposure of *Candida* to p-anisaldehyde inhibits its growth and ergosterol biosynthesis, The Journal of general and applied microbiology 57 (3), 129-136.
51. S Shreaz, R Bhatia, N Khan, S Muralidhar, SF Basir, N Manzoor and **Luqman A. Khan** (2011), Spice oil cinnamaldehyde exhibits potent anticandidal activity against fluconazole resistant clinical isolates, Fitoterapia 82 (7), 1012-1020
52. S Shreaz, R Bhatia, N Khan, S Imran Ahmad, S Muralidhar, SF Basir, Nikhat Manzoor and **Luqman A. Khan** (2011), Interesting anticandidal effects of anisic aldehydes on growth and proton pumping-ATPase targeted activity, Microbial Pathogenesis, 51 (4), 277-284
53. S Yousuf, N Manzoor and **Luqman A. Khan** (2011), Fungicidal activity of allyl alcohol by disrupting ergosterol biosynthesis and membrane integrity against *Candida albicans*, Journal of Natural Science, Biology and Medicine, 2 (3), 153
54. H Shabir, **Luqman A. Khan**, HR Ansari and S Nishat (2011), A-1 Adenosine receptor signaling and therapeutic target in diabetes, International Journal of Pharmaceutical & Biological Archives, 2 (4): 1168-1177.
55. S Shreaz, R Bhatia, N Khan, IK Maurya, SI Ahmad, S Muralidhar, Nikhat M and **Luqman A. Khan** (2012), Cinnamic aldehydes affect hydrolytic enzyme secretion and morphogenesis in oral *Candida* isolates, Microbial pathogenesis, 52 (5), 251-258.
56. N Khan, S Shreaz, R Bhatia, SI Ahmad, S Muralidhar, N Manzoor and **Luqman A. Khan** (2012), Anticandidal activity of curcumin and methyl cinnamaldehyde, Fitoterapia, 83(3), 434-440.

57. T Singh, S Shreaz, **Luqman A. Khan**, AA Hashmi (2012), High potential bioactive oil based bimetallic polymer: anticandidal effect is via inhibition of ergosterol biosynthesis, *Materials Research Innovations*, 16 (3), 204-212.
58. RA Sheikh, S Shreaz, GS Sharma, **Luqman A. Khan**, AA Hashmi (2012), Synthesis, characterization and antimicrobial screening of a novel organylborate ligand, potassium hydro (phthalyl)(salicylyl) borate and its Co (II), Ni (II), and Cu (II) complexes, *Journal of Saudi Chemical Society*, 16 (4), 353-361
59. R Bhatia, S Shreaz, N Khan, S Muralidhar, SF Basir, N Manzoor and **Luqman A. Khan** (2012), Proton pumping ATPase mediated fungicidal activity of two essential oil components, *Journal of Basic Microbiology*, 52 (5), 504-512.
60. S Shreaz, R Bhatia, N Khan, S Muralidhar, N Manzoor, **Luqman A. Khan** (2013), Influences of cinnamic aldehydes on H⁺ extrusion activity and ultrastructure of *Candida*, *Journal of Medical Microbiology* 62 (2), 232-240
61. A Khan, A Ahmad, I Xess, **Luqman A. Khan** and N Manzoor (2014), *Ocimum sanctum* essential oil inhibits virulence attributes in *Candida albicans*, *Phytomedicine* 21 (4), 448-452.
62. H Shabir, S Kundu, SF Basir and **Luqman A. Khan** (2014), Amelioration of lead and cadmium induced rat tracheal hyper-contraction by linalool and eugenol, *Toxicological & Environmental Chemistry*, 96 (2), 307-317.
63. A Khan, A Ahmad, **Luqman A. Khan** and N Manzoor (2014), *Ocimum sanctum* (L.) essential oil and its lead molecules induce apoptosis in *Candida albicans*, *Research in microbiology*, 165 (6), 411-419.
64. H Shabir, S Kundu, SF Basir and **Luqman A. Khan** (2014), Modulation of Pb (II) caused aortal constriction by eugenol and carvacrol, *Biological Trace Element Research*, 161, 116-122.
65. S. Nishat, A Klinke, S. Baldus, **Luqman A. Khan** and Basir SF (2014), Increased A3AR-dependent vasoconstriction in diabetic mice is promoted by myeloperoxidase, *Journal of Cardiovascular Pharmacology*, 64 (5), 465-472.
66. Deepa Anil Kumar, Sumathi Muralidhar, Krishna Biswas, Uma Banerjee, Seemi Farhat Basir and **Luqman A. Khan** (2014), Species Diversity, Antifungal Susceptibility, and Virulence Attributes of *Candida* Colonising the Oral Cavities of Adult Diabetic Patients, *Journal of Mycology*, Article ID 395041, <http://dx.doi.org/10.1155/2014/395041>.
67. S Kundu, H Shabir, SF Basir and **Luqman A. Khan** (2014), Inhibition of As (III) and Hg (II) caused aortic hypercontraction by eugenol, linalool and carvone. *Journal of smooth muscle research*, 50, 93-102.

68. Deepa Anil Kumar, Sumathi Muralidhar, Uma Banerjee, Seemi Farhat Basir and **Luqman A. Khan** (2015), Antifungal Resistance Patterns, Virulence Attributes and Spectrum of Oral Candida Species in Patients with Periodontal Disease, British Microbiology Research Journal, 5 (1), 68-75.
69. DA Kumar, S Muralidhar, U Banerjee, SF Basir, P Mathur and **Luqman A. Khan** (2015), Diversity and antifungal resistance patterns of prevalent opportunistic pathogenic yeasts colonizing the oral cavities of asymptomatic human immunodeficiency virus-infected individuals, and their relation to CD4+ counts, Indian Journal of Sexually Transmitted Diseases and AIDS 36 (1), 53-58.
70. A Khan, A Ahmad, **Luqman A. Khan**, CJ Padoa, S van Vuuren, N Manzoor (2015), Effect of two monoterpene phenols on antioxidant defense system in Candida albicans, Microbial pathogenesis, 80, 50-56 (ISSN: 0882-4010)
71. Shamama S, **Luqman A. Khan** and Basir SF (2015), CL-IBMECA activated adenosine A3 receptor elevates mRNA levels of eNOS and NOX4 in diabetic mouse aorta, Indo-American Journal of Pharmaceutical Research, 5 (1), 253-262.
72. S Kundu, H Shabir, SF Basir and **Luqman A. Khan** (2015), Eugenol and carvone as relaxants of arsenic and mercury hypercontracted rat trachea, Toxicology and Industrial Health, DOI: 10.1177/0748233715598266.
73. Saibabu V, Fatima Z, **Luqman A. Khan** and Hameed F (2015), Therapeutic potential of dietary phenolic acids, Advances in Pharmacological Sciences, Article ID 823539, <http://dx.doi.org/10.1155/2015/823539>.
74. S Kundu, H Shabir, SF Basir and **Luqman A. Khan** (2016), Thymol tempers As(III) and Hg(II) caused Hypercontractility by similar pathways in isolated aortal and tracheal rings, International Journal of Pharmacy and Pharmaceutical Sciences, Vol: 8(1).
75. Shamama S, **Luqman A. Khan**, Ansari Z and Basir SF (2016), Adenosine A3 Receptor: a promising therapeutic target in cardiovascular disease, Current Cardiology Reviews, 12 (1), 18-26.
76. Y Sharma, **Luqman A. Khan** and N Manzoor (2016), Anti-Candida activity of geraniol involves disruption of cell membrane integrity and function, Journal of Medical Mycology, 26 (3), 244-254.
77. A WANI, **Luqman A. Khan**, Basir SF (2018), Role of calcium channels and endothelial factors in nickelinduced aortic hypercontraction in Wistar rats, Journal of Smooth Muscle Research, 54, 71-82
78. Saibabu V, Zeeshan Fatima, Ahmad K, **Luqman A. Khan**, Hameed S (2019) Octyl gallate triggers dysfunctional mitochondria leading to ROS driven membrane damage and metabolic

inflexibility along with attenuated virulence in *Candida albicans*, *Medical Mycology*.<https://doi.org/10.1093/mmy/myz054>.

79. F Naz, H Anis, Z Hasan, AI Slam, **Luqman A. Khan** (2019) Exploration of fungal lipase as direct target of eugenol through spectroscopic techniques. *Protein and peptide letters*. 26 (12), 919-929
80. Fatima A, Zaheenul I S, Sabihur R F, Ayesha A, Saniya K, Md I A, Mahboubah M, Ravins D, **Luqman A. Khan** and Kazim S N (2019), Impact of length of replication competent genome of hepatitis B virus over the differential antigenic secretion, *J. Cellular Biochemistry*.<https://doi.org/10.1002/jcb.29362>, volume 120 (10)
81. SA Wani, **Luqman A. Khan** and SFBasir(2020), Cobalt-Induced Hypercontraction is Mediated by Generation of Reactive Oxygen Species and Influx of Calcium in Isolated Rat Aorta, *Biological trace element research*, 196, pages 110–118.
82. S Venkata, F Zeeshan, A Kamal, **Luqman A. Khan** and H Saif (2020), Efficiency of vanillin in impeding metabolic adaptability and virulence of *Candida albicans* by inhibiting glyoxylate cycle, morphogenesis, and biofilm formation, *Current Medical Mycology* 6 (1), 1-8.
83. V Saibabu, Z Fatima, S Singh, **Luqman A. Khan** and S Hameed (2020), Vanillin confers antifungal drug synergism in *Candida albicans* by impeding CaCdr2p driven efflux, *Journal de Mycologie Médicale*, <https://doi.org/10.1016/j.mycmed.2019.100921>, Volume 30 (1).
84. R Verma, D Pradhan, M Maseet, H Singh, AK Jain and **L.A. Khan** (2020), Genome-wide screening and in silico gene knockout to predict potential candidates for drug designing against *Candida albicans*, *Infection, Genetics and Evolution*, <https://doi.org/10.1016/j.meegid.2020.104196>, Volume 80.
85. V Saibabu, Z Fatima, **Luqman A. Khan** and S Hameed (2020), Mechanistic insights into the anticandidal action of Vanillin reveal disruption of cell surface integrity and mitochondrial functioning. *Infectious Disorders Drug Targets*. <https://doi.org/10.2174/1871526520666200702134110>.
86. F Afrin, SF Basir and **Luqman A. Khan** (2021), Elucidation of Mechanisms in Cu (II) Caused Hypercontraction of Rat Tracheal Rings, *Biological Trace Element Research*, DOI: <https://doi.org/10.1007/s12011-021-02718-x>.
87. R Verma, D Pradhan, Z Hasan, H Singh, AK Jain, Luqman A Khan (2021), A systematic review on distribution and antifungal resistance pattern of *Candida* species in the Indian population, *Medical Mycology* 59 (12), 1145-1165
88. R Verma, D Pradhan, A Nayek, H Singh, AK Jain, Luqman A Khan (2021), Target-based drug repurposing against *Candida albicans*—A computational modeling, docking, and molecular dynamic simulations study, *Journal of Cellular Biochemistry*, 123(2), 289-305.

89. A Rais, S Kulanthaivel, P Mishra, Luqman A Khan and T Prasad (2022), Facile Synthesis of Nitrogen-Doped Carbon Quantum Dots as Multifunctional Nanotracking Agent, ECS Transactions 107 (1), 7953-.
90. SA Wani, LA Khan and SF Basir (2022), Quercetin and resveratrol ameliorate nickel-mediated hypercontraction in isolated Wistar rat aorta, Journal of Smooth Muscle Research 58, 89-105.
91. F Naz, I Khan, A Islam and Luqman A Khan (2022), Interaction of Fungal lipase with potential phytotherapeutics, PLoS ONE, 17 (5) e0264460.
92. Rashmi Verma, Arun Kumar Jain and Luqman A Khan (2022), Indian Prevalence of Antifungal Resistant Species of Candida, Fungal Genomics and Biology, 12, 204-205.
93. Z Hasan, A Islam and Luqman A Khan (2023), Spectroscopic investigations on fungal aspartic protease as target of gallic acid, International Journal of Biological Macromolecules, 228, 333-345.
94. Natasha K, Anjuma B, Chandana R D, Ratul D, Mohit K Verma, Anita D, S A Husain, Luqman A Khan, Purabi D Bose (2023), Aberrations in the progesterone pathway and the Th1/Th2 cytokine dichotomy – An evaluation of RPL predisposition in the northeast Indian population, American Journal of Reproductive Immunology, <https://doi.org/10.1111/aji.13745>.
95. Z Hasan, A Islam, Luqman A Khan (2023), Signature Garlic Phytochemical as a Potential Anti-Candidal Candidate Targeting Virulence Factors in Candida albicans, Medical Sciences Forum.
96. Anam Rais, Shubham Sharma, Prashant Mishra, Luqman Ahmad Khan & Tulika Prasad (2024), Biocompatible Carbon Quantum Dots as Versatile Imaging Nanotrackers of Fungal Pathogen – Candida Albicans, Nanomedicine, 19, Pages: 671-688.

Book Chapter

1. Bushra Rashid and **Luqman A. Khan** (2001) Transport ATPases and Regulation of Transmembrane Proton Motive Force, pp 149-170, in Biophysical Processes in Living Systems (Ed. PP Saradhi), Science Pub. Inc. (USA).
2. R Verma, D Pradhan, H Singh, AK Jain and **Luqman A. Khan** (2021), Metabolic Network Modeling for Rational Drug Design against Candida albicans in Candida albicans, DOI:10.5772/intechopen.96749, Intechopen, England.

Abstracts in Symposia/Conferences/Seminars

1. **Luqman A. Khan** and Amin M (1990) Fast reaction kinetics of myosin ATPase, Nat. Symp. On Frontiers in modern biology, JMI University Delhi.
2. **Luqman A. Khan** and Amin M (1994) Pre-steadystate phase of actomyosin ATPase and the problem of unexplained energy, Nat. Symp. On Cellular and molecular biophysics, Punjab University, Chandigarh.
3. Pal. PK, **Luqman A. Khan** and Amin M (1994) Synchronization of activities of creatine kinase and myosin ATPase, Nat. Symp. On Cellular and molecular biophysics, Panjab University Chandigarh.
4. **Luqman A. Khan** and Amin M (1994) Actin activation of creatine kinase and its role in muscle contraction, Intl. Congress of Biochemistry and Molecular biology, New Delhi.
5. Qureshy A, **Luqman A. Khan** and Khanna S (1997), Hemicellulose degradation by *Bacillus cilrculans*, 38 th Annual meet of association of microbiologists of India, New Delhi.
6. Bushra Rashid and LuqmanA Khan (1998) Pre-steady state kinetic of cellular and mycelial forms of PM-ATPase of *Candida albicans*, Annual meet of Society of Biological Chemist, JNU, New Delhi.
7. Qureshy A, **Luqman A. Khan** and Khanna S (1998), 39 th Annual meet of microbiologists of India, Mangalore.
8. Nikhat M, Amin M and LuqmanA Khan (1999) Effectof Phosphocreatine on PM-ATPase mediated events in *Candida albicans*, 11 th Annual Conference of the Physiological society of India, New Delhi.
9. Bushra R Amin M and LuqmanA Khan (1999) Effect of Nutrients/analogues on Pre-steady state kinetics of ATP hydrolysis by PM-ATPase of *Candida albicans*, 11 th Annual Conference of the Physiological Society of India, New Delhi.
10. SN Kazim, SM Wakil, V Thakur, **Luqman A. Khan**, Gupta RC, Hasnain SE & Sarin SK (2000), Prevalence and profile of Lamivudine induced mutations in the surface and Polymerase genes of Hepatitis B virus among Indian population, Association of Medical Biochemists of India, New Delhi.
11. Qazi P, Verma V, **Luqman A. Khan** & Qazi GN (2000), Isolation, cloning and sequencingof Permease gene of Sorbitol Metabolism pathway in *Erwinia herbicola* (ATCC 21998),Microbiotech-2000, Association of microbiologists of India, Jaipur, India.
12. Achila, **Luqman A. Khan** and Hussain E (2003), Effect of Nitric oxide on Apoptosis in *Candida*, International Conference on Chest Diseases, New Delhi.
13. Nikhat M and LuqmanA Khan (2004), Inhibition of H⁺ extrusion by PCr in *Candida albicans*, 45 th Annual Conference of Association of Microbiologists of India, Karnal.

14. Nikhat M and LuqmanA Khan (2004), Effect of Nitric oxide on H⁺ efflux in presence of various nutrients in Candida albicans, 45 th Annual Conference of Association of Microbiologists of India, Karnal
15. Prasad R, Pawa S, Agarwal J, Farooqi R, Ahmad T, Khan A, **Luqman A. Khan**, Agarwal ML and Ali S (2005). NardostachysJatamansi can reverse the biochemical changes associated with Liver cirrohsis, 4 th International Colloque: Trace elements, vitamins and polyphenol antioxidants, Monastir, Tunisia.
16. Nikhat M and **Luqman A. Khan** (2006), Effect of different nutrients on H⁺ flux in Blastocnidia and spheroplasts of Candida albicans, Symposium on Emerging trends in Biochemistry, Panjab University, Chandigarh, India.
17. Achila R, Nikhat M, **Luqman A. Khan** and Hussain ME (2006), Fresh Garlic extract and acetic acid mediated growth and viability of Candida albicans, Symposium on Emerging trends in Biochemistry, Panjab University, Chandigarh, India.
18. Aijaz A, Nikhat M and **Luqman A. Khan** (2007), Effect of m-Anisaldehyde on Growth and H⁺ -Extrusion of Candida albicans, Interdisciplinary Science Conference- 2007 on “Recent Trends in Research in Biological Sciences”, Jamia Millia Islamia, New Delhi.
19. 19. Shreaz S, Aijaz A, Nikhat M and **Luqman A. Khan** (2008), In vitro Antifungal activity of Azoles and Polyenes against Candida albicans, Natural Science Info fest March 4-6, 2008, Jamia Millia Islamia, New Delhi.
20. Shreaz S, Nikhat M and **Luqman A. Khan** (2008), Effect of trans-Cinnamaldehyde on growth of Candida and its viability under oxidative stress, Natural Science Info fest, November 01, 2008, Jamia Millia Islamia, New Delhi.
21. Shreaz S, Nikhat M and **Luqman A. Khan** (2008), In vitro Antifungal activity of Azole (Amp-B) and Selected Polyenes against Candida albicans, Natural Science Info fest November 1, 2008, Jamia Millia Islamia, New Delhi.
22. Shreaz S, Amber K, Rimple B, Nikhat M and LuqmanA Khan (2008), In vitro effect of p-Anisaldehyde on Proteinase secretion by different species of Candida, UPACBICON, J.N Medical College, A.M.U, Aligarh.
23. Shreaz S, Nikhat M and LuqmanA Khan (2008), In vitro Antifungal activity of Azoles and Polyenes against Candida albicans, SFRR-Satellite Meeting India-2008, on “Free Radicals and Antioxidants in Human Health, Gene Regulation and Signal Transduction” held at AIIMS, New Delhi.
24. Aijaz A, Nikhat M and **Luqman A. Khan** (2008), Eugenol and Cinnamaldehyde as New Anticandidal: Growth ,Viability and H⁺ extrusion studies, SFRR-Satellite Meeting India-

2008, on “Free Radicals and Antioxidants in Human Health, Gene Regulation and Signal Transduction” , AIIMS, New Delhi.

25. Amber K, Aijaz A, Nikhat M and **Luqman A. Khan** (2008), Evaluation of essential oil of Tulsi and its two lead molecules as cytotoxic antifungals against Candida, Natural Science Info fest, November 01, 2008, Jamia Millia Islamia. New Delhi.
26. Aijaz A, Nikhat M and **Luqman A. Khan** (2008), Inhibitory effect of Eugenol on Proteinase Secretion and Sterol Biosynthesis in Candida, UPACBICON, J.N Medical College, A.M.U, Aligarh.
27. Amber K, **Luqman A. Khan** and Nikhat M (2008), Evaluation of four Indian medicinal plants for Anticandidal activity and effect on PM-ATPase mediated H⁺ efflux, UPACBICON, J.N Medical College, A.M.U, Aligarh.
28. Rashmi O, ShearzS ,Nikhat M and **Luqman A. Khan** (2008), Resistance to Oxidative stress and Quantitation of ergosterol in presence of Vitamin C, UPACBICON, J.N. Medical College, A.M.U, Aligarh.
29. Aijaz A, Amber K, Nikhat M and **Luqman A. Khan** (2009), Effect of Eugenol on proteinase secretion and viability under oxidative stress in Candida, National Seminar on Recent Advances in Pharmaceutical Education and Research , Kashmir University, Srinagar.
30. Aijaz A, Amber K, Nikhat M and **Luqman A. Khan** (2009), Effect of Eugenol and its derivatives on pathogenicity modulation in Candida, MICROCON, Punjab University, Chandigarh, India.
31. Amber K, Aijaz A, Nikhat M and **Luqman A. Khan** (2009), Effect of Eugenol on Candidal Growth and viability under oxidative stress, International Conference on Advances in Free Radical Research, CSM, King George University, Lucknow.
32. Ahmad Aijaz, Khan Amber, Manzoor N and **Luqman A. Khan**, (2009) Effect of Eugenol and its Derivatives on Pathogenicity Modulations of Candida, MICROBIAL BIOTECHNOLOGY, MICROCON 2009, Chandigarh, India.
33. Yousuf Snowber, Ahmad Aijaz, Manzoor Nikhat, and **Luqman A. Khan**, (2009), Effect of Thymol on Viability of Candida under Oxidative Stress, SFRR 2009, Lucknow.
34. Shreaz S, Nikhat Manzoor and **Luqman A. Khan**, (2009) Effect of α -methyl trans cinnamaldehyde on growth and PM-ATPase of Candida glabrata and Candida albicans”, Interdisciplinary Science Conference- 2009 on Interface between Chemistry and Biology held in Jamia Millia Islamia, India, Oct, 8 2009.
35. Shreaz S, Nikhat Manzoor and **Luqman A. Khan**, (2009) “In vitro effect of para Anisaldehyde on growth and % Ergosterol inhibition in Candida albicans”, National Seminar

on Recent Advances in Pharmaceutical Education and Research. July 15-16, 2009. University of Kashmir, Srinagar, India.

36. Aijaz Ahmad, Amber Khan, **Luqman A. Khan**, Nikhat Manzoor (2010), Effect of Eugenol and Methyl Eugenol on Morphogenesis and Proteinase and Phospholipases production in *Candida albicans*, BIOSPARKS 2010, JNU, New Delhi.
37. Amber Khan, **Luqman A. Khan**, Nikhat Manzoor (17th -18th April, 2010), Effect of methyl-chavicol and linalool on membrane integrity and ergosterol biosynthesis of *Candida*, 3rd National Conference on Infectious Diseases, A.I.I.M.S.
38. Aijaz Ahmad, Snowber Yousuf, **Luqman A. Khan**, Nikhat Manzoor (17th -18th April, 2010), Fungicidal activity of Clove essential oil and its active principles by disrupting ergosterol biosynthesis and membrane integrity, 3rd National Conference on Infectious Diseases, A.I.I.M.S, New Delhi.
39. Sheikh Shreaz, RA Sheikh, Bhatia Rimple, Neelofar, Sweta Shailey, Manzoor Nikhat and **Luqman A. Khan** (17th -18th April, 2010), Anticandial effect of methylated cinnamaldehyde, its ligand and metal complex: promising growth and ergosterol inhibitors, 3rd National Conference on Infectious Diseases, A.I.I.M.S, New Delhi.
40. Neelofar, Shreaz S, Bhatia Rimple, , Manzoor Nikhat and **Luqman A. Khan** (17th -18th April, 2010), Biological effect of Curcumin on H⁺ extrusion and proteinase activity in *Candida*, 3rd National Conference on Infectious Diseases, A.I.I.M.S, New Delhi.
41. Sheikh RA, Shreaz S, **Luqman A. Khan** and Hashmi AA (17th -18th April, 2010), Tetradentate Schiff base macrocyclic ligand based transition metal complexes: Antifungal and Antiamoebic studies. 3rd National Conference on Infectious Diseases, A.I.I.M.S, New Delhi.
42. Yousuf Snowber, Ahmad Aijaz, Manzoor Nikhat, and **Luqman A. Khan**, (2010) Impact of allyl alcohol on growth and virulence in *Candida albicans*” presented at Microbial Diversity and Bio-Propecting (Indian Society of Mycology and Plant Pathology) 29-30, 2010; at University of Jammu, Jammu-India.
43. Aijaz Ahmad, Amber Khan, **Luqman A. Khan**, Nikhat Manzoor (2010), Assessment of in-vitro antimicrobial activity of leaf and stem essential oils of *Randia spinosa*” presented a Microbial Diversity and Bio-Propecting (Indian Society of Mycology and Plant Pathology) 29-30, 2010; at University of Jammu, Jammu-India.
44. Ahmad Aijaz, Khan Amber, **Luqman A. Khan** and Manzoor N (2010), Effect of L-Carvone on Growth and Plasma Membrane ATPase activity of *Candida* species” presented at MAASCON-1 ‘Frontiers in Life Sciences: Basic and Applied’, 23-24 October, 2010; at Aligarh Muslim University, Aligarh-India.

45. Yousuf Snowber, Ahmad Aijaz, Manzoor Nikhat, and **Luqman A. Khan** (2010), Impact of diallyl disulphide on growth and virulence in *Candida albicans*” presented at MAASCON-1 ‘Frontiers in Life Sciences: Basic and Applied’, 23-24 October, 2010; at Aligarh Muslim University, Aligarh-India.
46. Deepa Anil Kumar, Sumathi Muralidhar Uma Banerjee, SF Basir and **Luqman A. Khan** (2010), Study of Enzymatic Virulence Factors in Non albicans *Candida* species Isolated from Women with Vulvo Vaginal Candidiasis, 34 th National Conference India Association of Medical Microbiologists, (MICROCON 2010), Kolkata, India. (26th to 28 th November 2010).
47. Deepa Anil Kumar, Sumathi Muralidhar, Malini Capoor, Purva Mathur, Uma Banerjee, Seemi F Basir and **Luqman A. Khan** (2012), A pool of Diverse Opportunistic Pathogenic Yeasts in the Oral cavity of a HIV positive Person, Annual conference of IAMM Delhi Chapter, AIIMS, New Delhi (25th February 2012).
48. Hiba Shabir, S Kundu, SF Basir and **Luqman A. Khan** (2013), Altered vasoconstriction of rat aorta by Pb (II) and its attenuation by some natural compounds, 3 rd Annual meeting of Indian Academy of Biomedical Sciences and symposium on modern trends in human diseases, December 14 & 15, 2013, AMU, Aligarh.
49. Swati Kundu, Hiba Shabir, , SF Basir and **Luqman A. Khan** (2013), Amelioration of As (III) induced aortal hypercontraction by carvacrol and thymol, 3 rd Annual meeting of Indian Academy of Biomedical Sciences and symposium on modern trends in human diseases, December 14 & 15, 2013, AMU, Aligarh.
50. Swati Kundu, Hiba Shabir, , SF Basir and **Luqman A. Khan** (2014), Attenuation of As (III) altered contractility of rat trachea by eugenol and thymol, National Conference on Chronic Inflammatory Disorders, Jamia Hamdard, New Delhi, India (February 13-15, 2014)
51. Hiba Shabir, S Kundu, SF Basir and **Luqman A. Khan** (2014), Amelioration of Cd (II) mediated tracheal hypercontraction by linalool and curcumin, National Conference on Chronic Inflammatory Disorders, Jamia Hamdard, New Delhi, India (February 13-15, 2014)
52. Shamama Nishat, **Luqman A. Khan** and SF Basir (2014), Overexpression of A3AR is responsible for increased constriction response via ROS signaling in diabetic mice aorta, National Conference on Chronic Inflammatory Disorders, Jamia Hamdard, New Delhi, India (February 13-15, 2014).
53. Swati Kundu, Seemi Farhat Basir and **Luqman A. Khan** (2014), Antioxidant action of eugenol and carvacrol against Hg(II) caused hypercontraction in isolated rat aorta, National Seminar on Metal Toxicity and Oxidative Stress, D/o Biosciences, Jamia Millia Islamia, New Delhi-25, India (23-24 September 2014).
54. Hiba Shabir, Seemi Farhat Basir and **Luqman A. Khan** (2014), Cd (II) caused hypercontraction and its amelioration by eugenol, carvacrol, carvone and linalool in rat aorta

National Seminar on Metal Toxicity and Oxidative Stress, D/o Biosciences, Jamia Millia Islamia, New Delhi-25, India (23-24 September 2014).

55. Deepa Anil Kumar and **Luqman A. Khan** (2014), High oral Candida carriage in diabetic patients- role of oxidative Stress. National Seminar on Metal Toxicity and Oxidative Stress, D/o Biosciences, Jamia Millia Islamia, New Delhi-25, India (23-24 September 2014).
56. Shamama Nishat, **Luqman A. Khan** and Seemi F Basir (2014), Cl-IBMECA Activated Adenosine A3 Receptor Elevates mRNA Levels of eNOS and Nox 4 in Diabetic Mice Aorta, National Seminar on Metal Toxicity and Oxidative Stress, D/o Biosciences, Jamia Millia Islamia, New Delhi-25, India (23-24 September 2014).
57. Neelofar Khan and **Luqman A. Khan** (2014), Curcumin as a modulator of oxidative stress related enzyme activity in Candida species, National Seminar on Metal Toxicity and Oxidative Stress, D/o Biosciences, Jamia Millia Islamia, New Delhi-25, India (23-24 September 2014).
58. Swati Kundu and **Luqman A. Khan** (2014), Eugenol and Linalool Ameliorate Hg(II)-Induced Elevated Constriction of Isolated Rat Aorta. - National Research Scholar's Meet (NRSM-2014), Tata Memorial Centre, Mumbai. (18-19 Dec, 2014).
59. Deepa Anil Kumar, Sumathi Muralidhar, Uma Banerjee, Seemi Farhat Basir, and **Luqman A. Khan**. What A Surprise!- Discordance in the Enzyme Secretion and Biofilm Production Among Candida species. Presented at IAMM Delhi Chapter, V.M. M.C & Safdarjang Hospital, New Delhi (25.04.2015).
60. Bhatia Rimple and **Luqman A. Khan** (2015), Phenylpropanoids elicit oxidative stress to Candida albicans, 23 rd International Congress of IUBMB and 44 th Annual meeting of Brazilian Society for Biochemistry and Molecular Biology, Foz do Iguacu, Parana, Brazil (August 24-28, 2015).
61. Swati Kundu, **Luqman A. Khan** (2015). Thymol reduces arsenic-induced hypercontraction in isolated aorta and trachea. M. P. Council of Science and Technology, Bhopal, India.
62. Swati Kundu and **Luqman A. Khan** (2016). Vasorelaxant response of carvacrol and its isomer on pre-induced contraction of unexposed and As(III)-exposed rat aorta. 16th World Cardiology Congress, Dubai, UAE.
63. Hasan Z, Ahmad S, Zubair S and **Luqman A. Khan** (2017), FBD-DB: Food borne disease database, UGC-SAP National Seminar on Recent Advances in Environmental Toxicology, Deptt. Of Biosciences, Jamia Millia Islamia, New Delhi-25, February 13-14, 2017.
64. Farah Afrin and **Luqman A. Khan** (2017), Effect of Copper (II) on Aortic and Tracheal Smooth Muscle Contraction, UGC-SAP National Seminar on Recent Advances in Environmental Toxicology, Deptt. Of Biosciences, Jamia Millia Islamia, New Delhi-25, February 13-14, 2017.

65. Huma F, Maseet M, **Luqman A. Khan** and Basir SF (2017), Ergosterol biosynthesis inhibition of *Candida albicans* by fungus mediated silver nanoparticles, UGC-SAP National Seminar on Recent Advances in Environmental Toxicology, Deptt. Of Biosciences, Jamia Millia Islamia, New Delhi-25, February 13-14, 2017.
66. Linika T, Maseet M, **Luqman A. Khan** and Basir SF (2017), Effect of *Carica Papaya* seed extract on plasma membrane H⁺ATPase mediated H⁺efflux in *Candida albicans*, UGC- SAP National Seminar on Recent Advances in Environmental Toxicology, Deptt. Of Biosciences, Jamia Millia Islamia, New Delhi-25, February 13-14, 2017.
67. Swati Kundu, Seemi FB and **Luqman A. Khan** (2017), Eugenol caused relaxation of Hg (II)-induced aortic and tracheal hypercontraction, UGC-SAP National Seminar on Recent Advances in Environmental Toxicology, Deptt. Of Biosciences, Jamia Millia Islamia, New Delhi-25, February 13-14, 2017.
68. Saibabu V, Zeeshan F, **Luqman A. Khan** and Saif Hameed (2017), Anticandidal mechanisms of vanillin involve disruption of cell surface integrity, virulence attributes, mitochondrial dysfunction and iron homeostasis, UGC-SAP National Seminar on Recent Advances in Environmental Toxicology, Deptt. Of Biosciences, Jamia Millia Islamia, New Delhi-25, February 13-14, 2017.
69. Farheen Naz, AsimulIslami and **Luqman A. Khan** (2017), Interaction of Eugenol with fungal lipase, UGC-SAP National Seminar on Recent Advances in Environmental Toxicology, Deptt. Of Biosciences, Jamia Millia Islamia, New Delhi-25, February 13-14, 2017.
70. Interaction of carvacrol with lipase and BSA, Farheen Naz, Asimul Islam and **Luqman A. Khan**, Biotechnology & Environment, April 10-11, 2017. Venue: Department of Biotechnology, Jamia Millia Islamia, New Delhi.
71. Interaction of eugenol with lipase and lysozyme”, Farheen Naz, Asimul Islam and **Luqman A. Khan**, Biotechnology in healthcare: challenges and opportunities March, 18-19, 2017.Venue: Jamia Hamdard, New Delhi.
72. Fatima Amir, Ayesha Anwer, Md Iqbal Azmi, Saniya Khan, Sana Mehtab, **Luqman A. Khan**, Syed Naqui Kazim. “Varyinglength of replication competent Hepatitis B virus (HBV) genome has differential effects on secretory antigens”: Poster, NationalConference In Biotechnology and Environment (Grand NCOBE-2017) at Jamia Millia Islamia, New Delhi.
73. Rashi Verma, Dibyabhaba Pradhan, Saumya Chaudhary, Arun Kumar Jain, **Luqman A. Khan** (2017). Identification of Putative Drug Targets in *Candida albicans* through Subtractive Genomics, Metabolic Pathway and Gene Network Analysis, at IIT-Delhi, New Delhi.
74. Fatima Amir, Zaheenul Islam Siddiqui, Ayesha Anwer, Saniya Khan, Md Iqbal Azmi, Sajad Ahmad Bhat, Syed Kazim Hasan, **Luqman A. Khan**, Syed Naqui Kazim. “Comparison of different replication competent constructs of Hepatitis B Virus for in vitrostudy of viral life

cycle”. Poster, International Symposium on Infectious Diseases, 2018, Regional Centre for Biotechnology, New Delhi.

75. Swati Kundu and **Luqman A. Khan** (2018). Inhibition of As(III) caused Aortic Muscle Hypercontraction by Carvacrol and Thymol. Cardiovascular Research Convergence 2018, International Centre For Genetic Engineering And Biotechnology, New Delhi, India.
76. Swati Kundu and **Luqman A. Khan** (2019). Eugenol Mitigates As(III)-Induced Hypercontraction in Rat Aorta through Quenching of ROS and Increase of Nitric oxide bioavailability, 6th Meeting of European Section and 7th Meeting of North American Section of the International Academy of Cardiovascular Sciences (IACS), Vrnjacka Banja, Serbia (Date: September 11th – 14th, 2019).
77. Swati Kundu and **Luqman A. Khan** (2019). Inorganic toxic metals cause vasoconstriction through ROS generation in aortic smooth muscle, Cardiovascular Research Convergence 2019, AIIMS, New Delhi, India.
78. Swati Kundu and **Luqman A. Khan** (2019). Effect of carvacrol and its isomer on arsenic caused vasoconstriction, 17th WCIRDC, Los Angeles CA, USA.
79. Rashi Verma, Dibyabhaba Pradhan, Mohsin Maseet, Harpreet Singh, Arun Kumar Jain, **Luqman A. Khan** (2019). In silico genome screening and gene knockdown to identify FAS2 as a potent drug target against *Candida albicans* at SGRF NextGen Genomics, Biology, BioInformatics and Technologies (NGBT), Mumbai
80. Rashi Verma, Dibyabhaba Pradhan, Arun Kumar Jain, **Luqman A. Khan** (2020). Transcriptome analysis and pathway enrichment to identify potent drug targets against resistant strains of *Candida albicans*, at NCRABS 2020 Biosciences, Jamia Millia Islamia, New Delhi.
81. Anam Rais, Luqman A Khan, K Rawat and Tulika Prasad (2020), “Biocompatible fluorescent carbon dots for in vitro bioimaging” in 1st International Conference on Innovations in Biotechnology and Life Sciences (ICIBLS) between 18-20 December organised by Department of Biotechnology, Delhi Technological University, New Delhi, India.
82. Anam Rais, Luqman A Khan, K Rawat and Tulika Prasad (2020), “Green synthesis of fluorescent, biocompatible carbon dots using microwave method for bioimaging” in National Conference on Recent Advances in biological sciences (NCRABS) on 5 March organized by Department of Biosciences, Jamia Millia Islamia, New Delhi, India.
83. Remedy of Diabetes: α –amylase Binding and Inhibition by four Indian Medicinal Plant”, Farheen Naz, Asimul Islam and **Luqman A. Khan**, 2nd virtual conference international conference on naturopathy, nanotechnology, nutraceuticals and immunotherapy in cancer research, June 11-12, 2021

84. An interaction of Rosmarinic Acid with fungal lipase: Rosmarinic Acid as potential phytotherapeutic for diminishing microbial virulence” Farheen Naz, Asimul Islam and **Luqman A. Khan**, SLAS 2021 Digital International Conference & Exhibition, Jan23-27, 2021.
85. Spectroscopic studies of carrier protein with eugenol”, Farheen Naz, Asimul Islam and **Luqman A. Khan**, National Conference on Protein Structure and Dynamics, Oct 16-17, 2021 Venue: Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi.
86. Hasan Z, Naz F, Islam A, Khan LA, “Deciphering potential of eugenol derivative as a natural protease inhibitor in fungal pathogenesis through spectroscopic and molecular docking techniques” National Conference on Recent Advances In Biological Sciences (NCRABS-2020), at Jamia Millia Islamia, New Delhi.
87. Hasan Z, Islam A, Khan LA, “Gallic Acid as a natural protease inhibitor in fungal pathogenesis” International Turkic World Congress on Science and Engineering 14-15 June 2021, Niğde – Turkey.
88. Hasan Z, Islam A, Khan LA, “Methyl Eugenol: A natural propanoid with promising anti-fungal potential targeting membrane disruption and virulence” as an On-Demand Poster at the FEMS Conference on Microbiology 2022 held from 30 June to 2 July in Belgrade.

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January 2025.