

Personal

Name : Luqman Ahmad Khan

Correspondence : Department of Biosciences, Jamia Millia Islamia (Central University),
New Delhi-25, India, Ph: 0091-9871011198

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: (24 years)

Undergraduate: Organic Chemistry, Biochemistry

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

Research Area:

Muscle Physiology, 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)

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

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, 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.

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

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 germplasm 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

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.

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.

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).

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 (Continuing)/Supervisor/ Molecular characterization of quasispecies of Hepatitis B virus
26. Farah Afreen (Continuing)/Supervisor/ Copper (II) and Smooth muscle contraction.
27. Venkatesh Saibabu (Continuing)/Supervisor/Effect of vanillin and octyl-gallate on growth and pathogenicity of *Candida spp*.

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 *Bacillus circulans* 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) (phthayl) 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 pathogenicity 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 metheugenol 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.
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Luqman A Khan
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