

Dr Seemi Farhat Basir

Professor

Department of Biosciences

Jamia Millia Islamia

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Education

PhD Biochemistry (1987), AMU, Aligarh.

MPhil Biochemistry (1983), AMU, Aligarh

MSc Biochemistry (1981), AMU, Aligarh

BSc (H) Chemistry (1979), AMU, Aligarh

Pre-Medical Course (1977), AMU, Aligarh

Higher Secondary (1976), CBSE, Delhi.

Academic Positions

(D/o Biosciences, Jamia Millia islamia, New Delhi)

Lecturer 1985-1993

Reader 1993-2001

Professor 2001- to date (Nov-2023)

Teaching Experience (38 years)

Post graduate : Enzymology, Metabolism, Immunology & Clinical Biochemistry

Undergraduate: Biochemistry

Research Area

Applied Biochemistry & Immunology

Research Collaborations

All India Institute of Medical Sciences (Delhi).

G.B.Pant Hospital (Maulana Azad MedicalCollege), Delhi.

V.P.ChestInstitute, Delhi University,

National Institute of Immunology, Delhi.

Institute of Cancer and Preventive Oncology, NOIDA, UP.

Research Supervision (PhDs awarded)

1. **Mohammad T A Mohsen. (2023)**, Study on Single Nucleotide polymorphisms in Micro RNAs and their correlation with susceptibility to Colorectal cancer in Indian population.
2. **Ishita Malhotra (2021)**, Immobilization of Invertase and its Application
3. **Naureen Khan (2019)**, Immobilization, Characterization and Application of Industrially Important Enzyme Lipase.

4. **Shahnawaz Ahmad Wani (2019)**, Effects of Metal Pollutants on Cardiovascular System
5. **Mohsin Maseet (2019)**. Fungus Mediated Synthesis of silver nanoparticles and their effect on growth and pathogenicity of *Candida* spp.
6. **JayaUpreti (2017)**, Role of *Azadiracta indica* leaf extract and vanadate on reversal of antioxidant status in experimental diabetes.
7. **Ruchi Gupta (2016)**, Molecular Mechanisms to Resistance to Fluoroquinolones in Enteric Fever Pathogens.
8. **Rupal Sinha (2016)**, Role of Genetic and Epigenetic Factors in the Development of Colorectal Cancer.
9. **Shamama Nishat (2015)**, Adenosine A3 Receptor Mediated Vasoconstriction in Diabetic Mouse.
10. **Nisha Thakur (2015)**, Genetic Alterations in Cell cycle Regulatory Genes During the Development of Cervical Cancer.
11. **Prerna Chaudhary (2014)**, Transgenic *Brassica juncea* expressing mutated adenylate cyclase gene for the development of vaccine against anthrax.
12. **Sweta Shailey (2013)**, Role of *Azadiracta indica* extracts on reversal of antioxidant status in experimental diabetes.
13. **Abhishak Chandra Gupta (2012)**, Identification of Differentially Expressed proteins for Nonalcoholic Fatty Liver Disease (NAFLD) – A Proteomic and Genomic Approach to Understand the Disease Pathogenesis and Progression.
14. **Preetida J Bhetariya (2012)**, Studies on polyketide synthases of *Aspergillus fumigates* and *Aspergillus flavus* for the development of diagnostics.
15. **Harish Chandra (2012)**, Role of extracellular *M. bovis* Glutamine synthetase in the survival of *M. bovis* in host macrophages.
16. **Shirish Shukla (2010)**, Role of Signal Transducers and Activators of Transcription3 (STAT3) in Human Papilloma virus 16 (HPV16) - Induced Cervical Carcinogenesis
17. **G Tharun (2010)**, Prevalence and Molecular characterization of Occult HBV infection in chronic liver disease patients.
18. **Pragya Sharma (2010)**, Preparation of Activated Polymer Surfaces for Covalent binding of ligands and their applications in diagnostics.
19. **Santosh Kumar Upadhyay (2010)**, Studies on Molecular Mechanisms of Host-Pathogen Interactions in Aspergillosis.
20. **Showket Hussain (2009)**, Cellular and Viral Interaction and Their Regulation during Development of Esophageal Cancer.

21. **Asia Taha: (2007)**, Role of Vanadium and Trigonella Foenum Graecumin in the reversal of Antioxidant status in Experimental diabetes.
22. **Jata Shankar (2006)**, Identification and Molecular Characterization of Functionally Important Genes of *Aspergillus fumigatus*.
23. **Sanjay Singh Negi (2006)**, Molecular Characterization of Mycobacterial isolates obtained from pulmonary and extrapulmonary tuberculosis.
24. **Azmi Naqvi (2006)**, Immobilization of Biomolecules on Photolinker Activated Polymer Surface and Their Application.
25. **Md. Khalid Parvez Khalid (2006)**, Gene expression and replication of hepatitis B Virus (HBV): In vitro model for antiviral drug therapy.
26. **Syed Mudasir Ahmad (2006)**, Molecular and Biochemical Studies on *Tinospora* species in India.
27. **K. Moorthy (2005)**, Long Term Effect of Estrogen and Progesterone on Metabolic Pathways in Aging Female Rats.
28. **Varsha Thakur (2001)**, Prevalence, Profile & Molecular pattern of Hepatitis B Virus (HBV) mutants in the close contacts of HBV related chronic liver disease patients.
29. **Hema Dawer (1998)**, Exogenous and endogenous regulation of oviposition especially in Anopheles of India and their implication in vector control.
30. **P.V.Shyamsunder (1998)**, Immunosuppression at the murine feto-maternal interphase.
31. **Abdul Jaleel (1998)**, Mycobacterium Tuberculosis Antigen Quantitation by Immunoassay and its application in Tuberculosis.
32. **Rachna Kathayat (1996)**, Effect of dietary protein manipulation in rats.
33. **Sadre Alam (1992)**, Spectroscopic Studies on nephrotoxins and renal failure.

Scholarships & Awards

1. Teacher Excellence Award (2021)

Shikshak Kalyan Foundation (Regd) by Dr Subhash Sarkar, Union Minister of State, Ministry of Education, GOI and Prof S.P. Singh Baghel, Union Minister of State, Ministry of Law and Justice, GOI.

2. Rashtriya Ekta Award (1999)

Govt of India by Dr Arjun Singh, HRD Minister.

3. Research Fellowship (1982-1985)

Council of Scientific and Industrial Research, India.

4. **Research Fellowship (1979-81)**
University Grants Commission, India.
5. **All Round Excellence Award (1979)**
Aligarh Muslim University, ALigarh.

Workshops & Training Programs

1. International E-Conclave on Tobacco Cessation 2021, ICanCaRe Foundation.
2. National workshop on “Recent advances in physiological techniques”, Hamdard Institute of Medical Sciences and Research, New Delhi, 20th Sep 2016.
3. International Conference on Agri Biotech 2006, Hyderabad, 9-11 March, 2006.
4. International Symposium at National Brain Research Center, Manesar Haryana. 15th-17th Dec 2003.
5. Recent Trends in Biosciences, JamiaMilliaIslamia, NewDelhi, Feb2002.
6. CME: Molecular Medicine, Lady Hardinge Medical College, New Delhi, 10 Aug 2002.
7. National workshop on IT ForAll, JamiaMilliaIslamia,October2000.
8. Workshop On PatentAwareness, Jamia Millia Islamia & DBT, Oct-2000.
9. Indo-French Symposium on Immune Modulation; NII, New Delhi, 8th-13thDec.1995.
10. Merieux Course on Molecular Understanding of Immune Diversity, Immune Regulation and Auto immunity. Madurai Kamaraj University, 14-28 November1994.
11. A DBT sponsored training program on "Recent Advances in Protein Chemistry Relevant to Biotechnology" in March 1991.
12. International workshop on Enzyme Engineering held in Calcutta,Oct.-Nov. 1984.

Corporate Life/Member of Board/Committees of JMI and outside

Dean, Faculty of Natural Sciences, March2020-Feb 2023, and 1.6.23- 15.9.23.

Dean of Students' Welfare, Jamia Millia Islamia, June2019-Feb2020, and 15.9.23 to date

Head, Department of Biosciences, Jamia Millia Islamia, April2007-April2010.

Founder Coordinator, MSc Biochemistry program, JMI, 2006-2016.

Nodal Person for GATI (Gender Advancement for Transforming Institutions; A GOI pilot project) at JMI. 2021- till date.

Founder Director (Honorary), Alumni, Jamia Millia Islamia, 2015-2016.

Chairperson, Committee for Curbing Cybercrime and providing a safe environment in the university, 2021-to date 2023

Member, Institutional Academic Integrity Panel of JMI, 2020 till date.

Member, Institutional Ethics Committee, 13.7.2021for 3years.

Chairperson, Committee to suggest appropriate Faculties for attachment of all centers of the University.

Member, Committee for suggesting Modifications/ amendments in the existing Statutes and Ordinances of JMI.

Chairman, Faculty Committee, Faculty of Natural Sciences, JMI,since1.3.2020-28.2.2023, and 1.6.2023-15.9.2023.

Internal member of Faculty Committee, Faculty of Social Sciences, for 3 years (from 9.2.2021)

Member, CUET, Committee for Implementation of Admission in JMI through Central Universities Common Entrance Test (from academic session 2022-2023). (07.10.2021)

Member, Academic Bank of Credit, Committee for Adoption and implementation of UGC regulations on "Establishment and Operation of Academic Bank of Credits in Higher Education" inJMI. (22.12.2021)

Observer for Outside Delhi Test Center (Admission test for Residential Coaching Academy 2021-2022) (19.10.2021)

Member, Committee for creation of Departments Faculty of Dentistry.17.7.2021

Member, Committee Bharat ka Amrit Mahotsav, for suggesting modalities for Commemorating 75 years of India's Independence as "Bharat ka Amrit Mahotsav" (5.4.2021) till 15.8.2023.

Member, Board of Management, Center for Physiotherapy and Rehabilitation, 6.4.2021- for three years

Member, Committee of Studies, Sarojini Naidu Centerfor Women Studies, JMI, 12.8.2021-for 3 years

Member, Central Purchase Committee, JMI.2021- to date 2023

Member of hostel committee for Girls Hostels, JMI,2010-2014.

Member, Academic Council, JamiaMilliaIslamia,1999;2007-2010;2019- to date 2023

Member, Executive Council, Jamia Millia Islamia, 2019-2020

Member, University Court, Jamia Millia Islamia, 2009-2010, 2019-todate

Member, Committee for developing an Integrated Jamia Library System, 2020-

Member, DST-PURSE, WellWisher Committee (WWC) for implementation and review of DST- PURSE program in Jamia Millia Islamia. 2020- 2023

Students' advisor, Department of Biosciences, Jamia Millia Islamia, New Delhi, 1999 till 2004, and from 2005 to 2007.

Vice-President (FEDCUTA) Federation of Central University Teacher's Association, 1999-2000.

Secretary, Jamia Teachers' Association, Jamia Millia Islamia,NewDelhi.1999-2000.

Provost of Girl Hostels & workingwomen Hostels of Jamia Millia Islamia, New Delhi, 1996.

Member, Executive Committee Jamia Teachers' Association, Jamia Millia Islamia. Delhi. 1992-1993.

Secretary, Science Society, Aligarh Muslim University, 1978-79.

Member, UGC Expert Committee for assessment of Himachal Pradesh University, Shimla, for the X plan and evaluate its requirements for XI plan. (May 2008)

Member, School Board, School of Sciences, IGNOU

Member, Board of Studies, Department of Biochemistry, University of Kashmir, Srinagar, Kashmir. 2008-2011.

Member, Board of Studies, Department of Biotechnology, Aligarh Muslim University, Aligarh. 2009- 2011.

Member, Technical Committee, Institute of cytology and preventive oncology, ICMR, NOIDA.

Member, Technical Committee, National Institute of Communicable Disease, Delhi.

Member, NAAC expert team to various universities.

Selection Committees

Union Public Service Commission, Govt. of India.

Staff Selection Board, Govt. of India.

University of Kashmir

Institute of cytology and preventive oncology, ICMR.

Jamia Millia Islamia

Dev Samaj School

PhD Examiner

Banaras Hindu University

Aligarh Muslim University

University of Delhi

Banasthali Vidyapeeth

Sardar Patel University

Jamia Hamdard

Curriculum Development

MSc (Biochemistry), JMI course curriculum and syllabi, JMI-2006.

M.Sc. Biochemistry curriculum for Jamia Hamdard. This included theory, laboratory exercises and suggested textbooks.

Developed course structure for Biochemistry and Immunology papers for M.Sc. Bio-sciences, Jamia Millia Islamia.

Developed Course structure of MSc and PhD in Biochemistry at IGNOU

Written following courses for IGNOU Reading Material

- i) Cellular and Humoral Immunity
- ii) Immunological Tolerance and Transplantation
- iii) Antigen and Antibody

Science popularization

Regularly broadcasting science popularization programs on National Channel of Television (Doordarshan) and All India Radio (National channel & External Services Division)

Anchor person and interviewer for U.G.C. country wide classroom TV program.

Counsellor for Indira Gandhi National Open University, deliver practical training and counselling for science degree program in distance learning.

Countrywide interactive classroom program of UGC on Enzymes and on Immune Molecules

Invited Talks

Inflammation. **Refresher Course in Biology**, Academic Staff College, Jamia Millia Islamia.

Immobilization of enzymes and Cells. **Dept of Biochemistry, University of Kashmir**, Srinagar.

Immune system, **Refresher Course** for School Teachers, Teachers Training Institute, JMI.

Immune Tolerance, **Refresher Course** for School Teachers, Teachers Training Institute, JMI.

Inflammation, the inside story at the 4th International Conference on **Recent Trends in Life Sciences at Trivandrum** 7th-9th February 2000.

Chaired/Organized Conference

1. Chaired one session in “National Symposium on Biophysics and Golden Jubilee Meeting of the Indian Biophysical Society”; JMI, Feb 15, 2015.

2. Chaired a session at International Conference on Recent Trends in Life Sciences at Trivandrum 7th-9th February 2000.

3. Organized a National Seminar on Metal Toxicity and Oxidative Stress. Sept 23-24, 2014. Jamia Millia Islamia, New Delhi.

4. Organized a National Seminar on Recent Advances in Environmental Toxicology Feb 13-14, 2017. Jamia Millia Islamia, New Delhi.

Reviewer for Journals

1. Biological Trace Element Research
2. Human and Experimental Toxicology.
3. African Journal of Biotechnology
4. Saudi Journal of Biological Sciences
5. EC Pharmacology and Toxicology
6. Applied Catalysis A: General. Elsevier
7. Preparative Biochemistry and Biotechnology
8. Journal of Biological Inorganic Chemistry

Publications (Books and chapters)

1. **Textbook of Immunology**, 2009. Prentice Hall of India.
2. **Textbook of Immunology**, Second Edition, 2012. Prentice Hall of India.
3. **Interferons Horizon Therapeutics**. Ayesha Aiman, Seemi Farhat Basir and Asimul Islam. In “Basic and Clinical Aspects of Interferon Gamma” ed. Prof. Hridayesh Prakash. Publisher Intech Open, (London) 2022, pp 21-36.
4. **Ribosomal Genes in Plants**---- Phylogenetic Importance. Vijeshver Verma, Syed Mudasir Ahmad, Masood Majaz Ganaie, Seemi Farhat Basir, Zafar Reshi and Ghulam Nabi Qazi in “Advances in Biotechnology” ed Prof. P C Trivedi Publisher Agrobios (India) 2005, pp 241-254.
5. **IGNOU Study Material**: Cellular and Humoral Immunity, Antigen and Antibody, Immunological Tolerance and Transplantation.

Publications (Research Journals)

1. Impact of SNPs in microRNAs and their correlation to colorectal cancer susceptibility in north Indian population. MT Mohsen, M Bharadwaj, SF Basir. *International Journal of Innovative Research in Science and Engineering*. 2022. 8 (5), pg 94-127. ISSN: 2347-3207. IF: 0.998
2. Elucidation of Mechanisms in Cu(II) caused Hypercontraction of Rat Tracheal Rings. Afrin, F., Basir, S.F. & Khan, L.A. *Biol Trace Elem Res* (2021). 1-8.
3. Role of Vascular Inflammation in Induction of Hypertension and Therapeutic Role of Plant Derived Terpenes. S A Wani, A Aiman, SF Basir, *World Journal of Pharmacy and Pharmaceutical Sciences* (1st Sep 2021), 10 (9), 1910-1935. ISSN, 2278-4357. IF 7.632
4. Application of Invertase Immobilized on Chitosan using Glutaraldehyde or Tris (hydroxymethyl) Phosphine as Cross-linking agent to produce Bioethanol. Ishita Malhotra and Seemi Farhat Basir. *Applied Biochemistry and Biotechnology*. 2020. 1-14. ISSN: 1470-8744. IF 1.429
5. Immobilization of Invertase in Calcium Alginate and Calcium alginate-kappa-carrageenan beads and its Application in Bioethanol Production. Ishita Malhotra and Seemi Farhat Basir. *Preparative Biochemistry and Biotechnology*. 2020. 1-10. ISSN, 1532-2297 IF 1.415
6. Synthesis and Characterization of Biodiesel from waste Cooking oil by Lipase immobilized on Genipin Cross linked Chitosan Beads: A Green Approach. Naureen Khan, Mohsin Maseet and Seemi Farhat Basir. *International Journal of Green Energy*. 2020. 17(1), 84-93. ISSN, 15435075. IF 1.302
7. Cobalt-Induced Hypercontraction is Mediated by Generation of Reactive Oxygen Species and Influx of Calcium in Isolated Rat Aorta Shahnawaz Ahmad Wani & Luqman Ahmad Khan & Seemi Farhat Basir. *Biological Trace Element Research* 2019. 1-9. ISSN 0163-4984 (print) 1559-0720 (web) IF 2.43
8. Level of phospho-STAT3 (Tyr705) correlates with copy number and physical state of human papillomavirus 16 genome in cervical precancer and cancer lesions. Shukla S, Jadli M, Thakur K, Shishodia G, Mahata S, Basir SF, Das BC and Bharti AC. *PLoS One*. 2019, 14(9):e0222089:doi10.1371/journal.pone.0222089. eCollection 2019. ISSN: 1935-6203. IF 2.776
9. Production of Bioethanol from Invertase Immobilized on Chitosan using Glutaraldehyde or Tris(hydroxymethyl)phosphine as Cross-linking Agent'. Ishita Malhotra and Seemi Farhat Basir. *Asian Journal of Pharmaceutical and Clinical Research*. 2019; 12(2): 79. ISSN: 09742441. IF 0.48
10. Role of Calcium Channels and endothelial factors in Nickle induced Aorta hypercontraction in Wistar rats. Shahnawaz Wani, Luqman Ahmad Khan and Seemi Farhat Basir. *J Smooth Muscle Res*. 2018; 54(0):71-82. ISSN: 1884-8796. IF: 1.07
11. Fungus mediated synthesis of silver nanoparticles and their effect on pathogenicity of *Candida albicans*. H Fatima, M Maseet, N Khan, LA Khan, SF Basir. *F1000Research* 2018. 7

12. Analysis of antioxidant activity, total phenolic and total flavonoid contents of *Allium sativum*, *Mentha arvensis* and *Murraya koenigii*. Shahnawaz Wani, Seemi Farhat Basir. International Journal of Advance Research in Science and Engineering. 2018, 7 (4):2632-2646. ISSN: 23198354. IF 2.83.
13. Mechanism of Flavonoids Action in Smooth Muscle Relaxation. Shahnawaz Ahmad Wani, Haris Iqbal and Seemi Farhat Basir. World Journal of Pharmacy and Pharmaceutical Sciences. 2017, 6 (9):514-550. ISSN: 2278-4357. IF 6.647
14. Computational prediction of novel human miRNAs / miRNA target sites in correlation with SNP (rs78653) at 3' UTR of cyclin D1 gene. Nisha Thakur, Seemi Farhat Basir, Mausumi Bharadwaj and Ravi Mehrotra *Integr Mol Med*, 2017 doi: 10.15761/IMM.1000280 Volume 4(2): 1-5 . Online ISSN: 2056-6360
15. A Review on Beneficial Nutraceuticals for Arthritis. Basir SF and Priyam. IJRSET (International Journal of Innovative Research in Science, Engineering and Technology). 2017, 6(4):5207-5224. ISSN:2319-8754(online). ISSN:2347-6710 (print). IF 6.209
16. Ergosterol Biosynthesis and Pathogenicity Markers Inhibition of *Candida albicans* by Fungus Mediated Silver Nanoparticles. Maseet M, Khan N and Basir SF. World Journal of Pharmacy and Pharmaceutical Sciences. 2017, 6(2):600-618. ISSN:2278-4357. IF 6.647
17. Enhanced Biocatalytic Esterification with Lipase- Immobilized Glutaraldehyde Crosslinked Chitosan Beads. Khan N, Maseet M and Basir SF. World Journal of Pharmacy and Pharmaceutical Sciences. 2017, 6(1):1268-1282. ISSN:2278-4357. IF 6.041
18. Detection of mutations in *gyrB* using denaturing high performance liquid chromatography (DHPLC) among *Salmonella enterica* serovar Typhi and Paratyphi A. Ruchi Gupta, Rajni Gaiind, Laishram Chandreshwor Singh, Bianca Paglietti, Monorama Deb, Salvatore Rubino, John Wain, Seemi Farhat Basir . Transactions of the Royal Society of Tropical Medicine and Hygiene. 2017, 110(12): 684-689. ISSN 0035-9203
19. Adenosine A₃ Receptor: A promising therapeutic target in cardiovascular disease. Nishat S, Khan LA, Ansari ZM, Basir SF. **Curr Cardiol Rev.** 2016 ; 12(1):18-26. ISSN: 1875-6557(online) ISSN: 1573-403X (Print). IF 2.05.
20. Thymol tempers As (III) and Hg (II) caused hypercontractility by similar pathways in isolated aortic and tracheal rings Kundu S, Shabir H, Basir SF, Khan LA. Int. J. Pharm. Pharmaceut. Sci 8, 404-407.
21. Effect of *Azadirachta indica* on Hyperglycemia induced Oxidative stress in Alloxan Diabetic rat brain. S. F. Basir and S. Shailey, International Journal of Pharmaceutical Sciences and Research **Impact Factor**(2012):3.72;(2013):2.61;(2014):1.54, ICV 2012:5.50.2015; Vol6(12): 5227-5234.
22. Lifestyle and Sporadic Colorectal Cancer in India. Sinha R, Doval DC, Hussain S, Kumar K, Singh S, Basir SF, Bharadwaj M. **Asian Pac J Cancer Prev.** 2015;16(17):7683-8. ISSN,

15137368 Impact Factor: 2.514

23. 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. Kumar DA, Muralidhar S, Banerjee U, Basir SF, Mathur P, Khan LA. Indian J Sex Transm Dis. 2015 Jan-Jun;36(1):53-8. ISSN: Print - 02537184, Online - 1998-3816

24. Eugenol and carvone as relaxants of arsenic and mercury hypercontracted rat trachea. Kundu S, Shabir H, Basir SF, Khan LA. Toxicol Ind Health. 2015 Sep 17. pii: 0748233715598266.[Epub ahead of print]ISSN:0748-2337(print)1477-0393(web)

Impact Factor: 1.859.

25. CI-IBMECA Activated Adenosine A3 Receptor Elevates mRNA Levels of eNOS and NOX 4 in Diabetic Mice Aorta. Shamama Nishat, Luqman A Khan, Seemi F Basir. Indo American Journal of Pharmaceutical Research, 2015;5(1):253-262. **ISSN:2231-6876** IF 1.023

26. Lower Doses of Vanadate in Combination with *Azadiracta indica* Leaf Extract Restore Altered Antioxidant Status in the Brain of Streptozotocin Induced Diabetic Rats. Upreti J, Ali S, Basir SF. World Journal of Pharmacy and Pharmaceutical Sciences. 2015, 4 (1): 1347-1358. ISSN: 2278-4357. IF 6.041.

27. Inhibition of As(III) and Hg(II) caused aortic hypercontraction by eugenol, linalool and carvone. Swati Kundu, Hiba Shabir, Seemi Farhat Basir and Luqman Ahmad Khan . J. Smooth Muscle Res. 2014; 50: 93–102. ONLINE ISSN: 1884-8796 PRINT ISSN: 0916-8737. IF 1.73

28. Antifungal Resistance Patterns, Virulence Attributes and Spectrum of Oral *Candida* Species in Patients with Periodontal Disease. Deepa Anil Kumar, Sumathi Muralidhar, Uma Banerjee, Seemi Farhat Basir and Luqman Ahmad Khan. British Microbiology Research Journal. 2015. 5(1): 68-75.

29. Characterization of non-classical quinolone resistance in *Salmonella enterica* serovar Typhi: Report of a novel mutation in *gyrB* gene and diagnostic challenges. Ruchi Gupta, Rajni Gaiand, John Wain, Monorama Deb, Laishram Chandreshwor Singh, Seemi Farhat Basir. Biomolecular Detection and Quantification. 2014 (2): 30–34. ISSN: 2214-7535. IF 1.074

30. Species diversity, Antifungal susceptibility, and Virulence Attributes of *Candida* colonizing the Oral Cavities of Adult Diabetic Patients. Deepa Anil Kumar, Sumathi Muralidhar, Krishna Biswas, Uma Banerjee, Seemi Farhat Basir and Luqman Ahmad Khan. Journal of Mycology . 2014. Doi: 10.1155/2014/395041.

31. Modulation of Pb(II) Caused Aortal Constriction by Eugenol and Carvacrol. Hiba Shabir, Swati Kundu, Seemi Farhat Basir & Luqman A. Khan. Biological Trace Element Research (2014); 161(1):116-22. ISSN: 0163-4984(print); ISSN: 1559-0720(web) IF 1.307

32. Increased A3AR-dependent vasoconstriction in diabetic mice is promoted by Myeloperoxidase. Nishat S, Klinke A, Baldus S, Khan LA, Basir SF. Journal of Cardiovascular Pharmacology. 2014, 64 (5):465-472. ISSN: 0160-2446 Online ISSN: 1533-4023. IF 2.462.

33. Amelioration of lead- and cadmium-induced rat tracheal hypercontraction by linalool and eugenol, Hiba Shabir, Swati Kundu, Seemi Farhat Basir & Luqman A. Khan: *Toxicological & Environmental Chemistry* (2014) 96:2, 307-317, DOI: [10.1080/02772248.2014.931520](https://doi.org/10.1080/02772248.2014.931520)
34. Amelioration of Altered Antioxidant Status by Sodium- orthovanadate and *Azadirachta indica* Leaf Extract on Cardiac and Skeletal Muscles Antioxidant Defence System in Streptozotocin - induced Diabetic Rats. Upreti J, Ali S, Basir SF. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2014, 3 (6): 2176 –87. . ISSN 0975 -1491 SJIF **Impact Factor:**6.041
35. Physical State and Copy Number of High Risk Human Papillomavirus Type 16 DNA in progression of Cervical Cancer. Shukla S, Mahata S, Shishodia G, Pande S, Verma G, Hedau S, Bhambani S, Kumari A, Batra S, Basir SF, Das BC, Bharti AC. *Indian Journal of Medical Research* 2014, April, 139(4): 531-43. ISSN 0971-5916
36. Effect of Lower Doses of Vanadate in Combination with *Azadirachta indica* Leaf Extract on Hepatic and Renal Antioxidant Enzymes in Streptozotocin- Induced Diabetic Rats. Upreti J, Ali S, Basir SF. *Biological Trace Element Research*. 2013 Dec, 156 (1-3): 202-9. ISSN: 01634984 (print); 1559-0720 (web) IF 1.307
37. Functional regulatory role of STAT3 in HPV16-mediated cervical carcinogenesis. Shukla S, Mahata S, Shishodia G, Pandey A, Tyagi A, Vishnoi K, Basir SF, Das BC, Bharti AC. *PLoS One* 2013 July 18, 8(7): e67849. doi: 10.1371/journal.pone.0067849. . ISSN:1935-6203. IF 3.234
38. Kras Gene Mutation and RASSF1A, FHIT and MGMT Gene Promoter Hypermethylation: Indicators of Tumor Staging and Metastasis in Adenocarcinomatous Sporadic Colorectal Cancer in Indian Population. Rupal Sinha, Showket Hussain, Ravi Mehrotra, R Suresh Kumar, Kapil Kumar, Pankaj Pande, Dinesh Chandra Doval, Seemi Farhat Basir and Mausumi Bharadwaj **PLoS One**. 2013;8(4):e60142. doi: 10.1371/journal.pone.0060142. Epub 2013 Apr 3 IF 3.234
39. Strengthening of Antioxidant Defence by *Azadirachta indica* in alloxan-diabetic rat tissue. Shailey S and Basir SF. *Journal of Ayurveda and Integrative Medicine*. 2012;3 (3):130-135. ISSN:0975-9476 IF 0.793
40. Protective role of *Azadirachta indica* against oxidative damage in skeletal and cardiac muscle of alloxan diabetic rats. Shailey S and Basir SF. *International Journal of Pharmacy and Pharmaceutical Science*. 2012; 4(1): 471-77. ISSN 0975 – 1491 IF 0.49
40. Role of Epigenetic Modification in MGMT gene and genetic mutation in KRAS gene in colorectal cancer in Indian Population. Sinha R, Kumar SR, Kumar K, Pande P, Doval DC, Basir SF, and Bharadwaj M. *Hepatology International* 2012, 6:67-309, PP 27-002. ISSN:19360533 (Print) 1936-0541 (Online). IF 1.125
41. MGMT and RASSF1A gene promote 3' hypermethylation in sporadic colorectal cancer in Indian population. Sinha R, Hussain S, Kumar SR, Kumar K, Pande P, Singh S, Doval DC, Basir SF, and Bharadwaj M. *Journal of Carcinogenesis*. 2012 vol 11, supplement 1, S42. ISSN 1477-3163 IF 3.81
42. Evaluation of functional relevance of rare variant of Cyclic D1 (CCND1) in cervical carcinogenesis. Thakur N, Shrivastava R, Hussain S, Basir SF, Bharadwaj M. *Journal of*

Carcinogenesis. 2012 vol 11, supplement 1, S46. . ISSN 1477-3163 IF 3.81

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4. “Association of microRNA-196a2 rs11614913 and miR-499 rs3746444 with Susceptibility to Colorectal Cancer in Indian Population”. Mohammad Mohsen, Mausumi Bharadwaj, Seemi Farhat Basir. International Conference on Genomics and Proteomics Pertaining to Biological Sciences, Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, India. November 05-07, 2019.
5. Comparative Analysis of Glutaraldehyde and Tris(hydroxymethyl)phosphine as Cross-linking Agents for Immobilization of Invertase. Ishita Malhotra and Seemi Farhat Basir. March 11-12, 2019. JMI. Abstract on page 12.
6. Production of Bioethanol from Invertase Immobilized on Chitosan using Glutaraldehyde or Tris(hydroxymethyl)phosphine as Cross-linking Agent. Ishita Malhotra and Seemi Farhat Basir. International Conference on Advances in Biosciences and Biotechnology January 31-February 2, 2019. The Department of Biotechnology, Jaypee Institute of Information Technology, Noida, India. 1st prize in Oral Presentations.
7. Study of cell death mode in the presence of Anise and its major component trans-Anethole by analyzing generation of oxidative stress in *Candida albicans* through ROS generation. Linika Tayenjam, Mohsin Maseet, Naureen Khan, Luqman A. Khan, Seemi Farhat Basir. National Conference on Biotechnology and Environment. 10 and 11 April 2017, Jamia Millia Islamia, New Delhi.
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10. Enhanced biocatalytic Esterification with Lipase-Immobilized Glutaraldehyde crosslinked chitosan beads. Naureen Khan, Mohsin Maseet, Seemi Farhat Basir. National Seminar on Recent Advances in Environmental Toxicology. Feb 13-14, 2017. Jamia Millia Islamia, New Delhi. Abstract no PP 29, page 90.
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