

NAME: Dr SEEMI FARHAT BASIR

Professor & Former Head, Department of Biosciences.

CORRESPONDENCE: Department of Biosciences

Jamia Millia Islamia, New Delhi – 110025

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Permanent Address: B-4, Kohli Vihar, Sector 49, NOIDA (UP)

Father's Name: Mohammad Shabbir Khan

Date of Birth: 24.11.1959

TEACHING EXPERIENCE (29 YEARS)

Postgraduate: Enzymology, Immunology and Clinical Biochemistry

Undergraduate: Biochemistry

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

EDUCATIONAL QULIFICATIONS

Ph.D. Biochemistry 1983- 1987 Aligarh Muslim University (AMU)

Topic: "Studies on Immobilized Pepsin."

M.Phil. Biochemistry 1981 - 1983 AMU

1st division with distinction

M.Sc. Biochemistry 1979 - 1981 AMU

1st division with distinction

B.Sc. (Hons) Chemistry 1977 - 1979 AMU

1st division

Pre- Medical Course 1976 - 1977 AMU
1st division

Higher Secondary Examination 1976 Central Board of Secondary Education
1st division

SCHOLARSHIPS/FELLOWSHIPS AND AWARDS

“All Round Excellence” award by AMU in 1979.

Faculty Merit Scholarship (M.Sc)

CSIR Junior Research Fellowship (M. Phil)

CSIR Senior Research Fellowship (Ph. D)

Rashtriya Ekta Award 1999.

ACADEMIC POSITIONS

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

Professor : 2001 to date

Reader : 1993-2001

Lecturer : 1985-1993

MEMBER OF BOARDS/COMMITTEES IN JMI

- Head, Department of Biosciences, Jamia Millia Islamia, April 2007- April 2010.
- Member of Hostel committee for Girls Hostels, JMI, 2010-2014.
- Coordinator, MSc Biochemistry program since 2006.
- Students’ advisor, Department of Biosciences, Jamia Millia Islamia, New Delhi, 1999 till 2004, and from 2005 to 2007.
- Secretary Jamia Teachers’ Association, Jamia Millia Islamia, New Delhi. 1999-2000.
- Provost of Girl students Hostels & working women Hostels of Jamia Millia Islamia, New Delhi, 1996.
- Executive committee Jamia Teachers’ Association, Jamia Millia Islamia. Delhi. 1992-1993.
- Faculty Committee, Faculty of Natural sciences,
- University Court, Jamia Millia Islamia, 17.2.2009 -7.4.2010.
- Academic Council of Jamia Millia Islamia . 8.4.2007 – 7.4.2010
- Board of Studies, D/O Biosciences

- Central Admission and Monitoring Committee
- Committee for Credit Transfer System 2014
- Committee to help in the functioning of Arjun Singh Center for Distance and Open Learning. 2014

MEMBER OF BOARDS/COMMITTEES OUTSIDE JMI

- The first elected Vice-President Federation of Central University Teacher's Association (FEDCUTA). 1999-2000.
- UGC Expert Committee for assessment of Himachal Pradesh University, Shimla, for the X plan and evaluate its requirements for XI plan. (May 2008)
- Expert Committee of UGC to evaluate research projects. 2006.
- Board of Studies of the Department of Biochemistry, University of Kashmir, Srinagar, Kashmir. 2008-2011.
- Board of Studies of the Department of Biotechnology, Aligarh Muslim University, Aligarh. 2009-2011.
- Expert Committee for PhD Biochemistry Program, IGNOU
- Technical Committee, Institute of Cytology and Preventive Oncology
- Technical Committee, National Institute of Communicable Diseases
- Expert Committee for opening Postgraduate course in Biochemistry in Maulana Mohammad Ali Jauhar University, Rampur.

SELECTION COMMITTEES

- Union Public Service Commission, Govt of India
- University of Kashmir, Srinagar
- Jamia Millia Islamia
- Staff Selection Board, Govt of India
- Institute of Cytology and Preventive Oncology, ICMR
- Dev Samaj School, New Delhi

PhD/ PG EXAMINER

- Banaras Hindu University, Varanasi
- D/O Biochemistry, AMU Aligarh
- D/O Biotechnology, AMU Aligarh
- Jamia Hamdard, New Delhi
- University of Delhi
- Banasthali Vidyapeeth
- Sardar Patel University, Gujarat

- Integral University, Lucknow
- Amity University, Noida.
- Indira Gandhi National Open University, Delhi

CONFERENCES / LECTURES ORGANIZED

- Organizing Secretary, UGC-DRS sponsored National Seminar on Metal Toxicity and Oxidative Stress, JMI, New Delhi, September-2014.
- Extension Lectures during 2007-2010 in D/O Biosciences, JMI
- Co-Convenor, Biotechnology Research Committee, 32nd Social Science Congress-2008.
- Member, Organizing Committee, National Symposium on Intellectual Property rights and Indian germplasm resources, Jamia Millia Islamia, New Delhi, 2000.
- Member, Organizing Committee, National Symposium on Frontiers in Modern Biology, Jamia Millia Islamia, Delhi, 1990.

WORKSHOPS / REFRESHER COURSES / TRAINING PROGRAMMES

1. International Conference on Agri Biotech 2006, Hyderabad, 9-11 March, 2006.
2. International Symposium at National Brain Research Center, Manesar Haryana. 15th-17th Dec 2003.
3. Recent Trends in Biosciences, Jamia Millia Islamia, New Delhi, Feb 2002
4. CME: Molecular Medicine, Lady Hardinge Medical College, N. Delhi, 10 Aug 2002.
5. Workshop on Development of Quality Question Papers. 2002.
6. National workshop on IT For All, Jamia Millia Islamia , October2000.
7. Workshop on Patent Awareness, Jamia Millia Islamia & DBT. Oct.2000.
8. Indo-French Symposium on Immune Modulation; NII, New Delhi, 8th-13th Dec. 1995.
9. Merieux Course on Molecular Understanding of Immune Diversity, Immune Regulation and Auto immunity. Madurai Kamaraj University, 14-28 November 1994
10. A DBT sponsored training program on "Recent Advances in Protein Chemistry Relevant to Biotechnology" in March 1991
11. UGC sponsored Four week orientation programme, JMI, New Delhi.
12. International workshop on Enzyme Engineering held in Calcutta, Oct.-Nov. 1984.

REVIEWER (REFEREE) OF JOURNALS

1. Biological Trace Element Research
2. Human and Experimental Toxicology.
3. African Journal of Biotechnology

PROJECTS

Completed

Developing photobioreactors by Stabilizing photosynthetic cell systems. Funded by UGC.

Ongoing

Cardiovascular cell signalling and environmental pollution. Funded under UGC's DRS- SAP

PhD SUPERVISION

A. Guiding research since 1988. Following of my research students have been awarded Ph.D.

1. Perna Chaudhary (2014). Transgenic *Brassica juncea* expressing mutated adenylate cyclase gene for the development of vaccine against anthrax.
2. Sweta Shailey (2013). Role of *Azadiracta indica* extracts on reversal of antioxidant status in experimental diabetes.
3. Abhishak Chandra Gupta (2012). Identification of Differentially Expressed proteins foe Nonalcoholic Fatty Liver Disease (NAFLD) – A Proteomic and Genomic Approach to Understand the Disease Pathogenesis and Progression.
4. Preetida J Bhetariya (2012). Studies on polyketide synthases of *Aspergillus fumigatus* and *Aspergillus flavus* for the development of diagnostics.
5. Harish Chandra (2012) Role of extracellular M. bovis Glutamine synthetase in the survival of M. bovis in host macrophages.
6. Shirish Shukla (2010) Role of Signal Transducers and Activators of Transcription 3 (STAT3) in Human Papillomavirus 16 (HPV16) - Induced Cervical Carcinogenesis.
7. G Tharun (2010) Prevalence and Molecular characterization of Occult HBV infection in chronic liver disease patients.
8. Pragya Sharma (2010) Preparation of Activated Polymer Surfaces for Covalent binding of ligands and their applications in diagnostics.
9. Santosh Kumar Upadhyay (2010) Studies on Molecular Mechanisms of Host-Pathogen Interactions in Aspergillosis.
10. Showket Hussain (2009) Cellular and Viral Interaction and Their Regulation during Development of Esophageal Cancer.

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

B. Following of my research students **have submitted** their thesis for Ph.D.

1.Nisha Thakur.(2014). Genetic alterations in cell cycle regulatory genes during the development of cervical cancer.

1.

C. The following scholars are **about to submit** their thesis for PhD

1. Shamama Nishat. Adenosine A3 receptor mediated vasoconstriction in diabetic mouse.
2. Hiba Shabir. (Continuing)/Co-Supervisor) Ameliorative potential of some natural compounds on Lead and Cadmium altered aortic and tracheal contractility.
3. Deepa Anil Kumar. (continuing)/Co-Supervisor) Spectrum of *Candida* species in health and oral lesions.

BOOKS AUTHORED

“Textbook Of Immunology” 2009. Prentice Hall of India.

“Textbook Of Immunology” Second Edition 2012. PHI.

CHAPTER IN BOOK

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.

UNITS AUTHORED FOR IGNOU STUDY MATERIAL

1. Cellular and Humoral Immunity
2. Antigen and Antibody
3. Immunological Tolerance and Transplantation

RESEARCH PUBLICATIONS

- 1 Kumar DA, Muralidhar S, Banerjee U, **Basir SF** and Khan LA. (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.
2. Nishat S, Klinke A, Baldus S, Khan LA, **Basir SF**. (.2014) Increased A3AR-dependent vasoconstriction in diabetic mice is promoted by Myeloperoxidase. *Journal of Cardiovascular Pharmacology*. doi: 10.1097/FJC.139.
3. Upreti J, Ali S, **Basir SF**. (2014) 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. *World Journal of Pharmacy and Pharmaceutical Sciences*. , 3 (6): 2176 – 87.
4. Kumar DA, Muralidhar S, Biswas K, Banerjee U, **Basir SF** and Khan LA. (2014) Species diversity, Antifungal susceptibility, and Virulence Attributes of *Candida* colonizing

the Oral Cavities of Adult Diabetic Patients *Journal of Mycology* . Doi:
10.1155/2014/395041.

5. Shabir H, Kundu S, **Basir SF** and Khan LA. (2014) Amelioration of lead- and cadmium-induced rat tracheal hypercontraction by linalool and eugenol,: *Toxicological & Environmental Chemistry* , 96 (2), 307-317

6. Shabir H, Kundu S, **Basir SF** and Khan LA. (2014) Modulation of Pb(II) Caused Aortal Constriction by Eugenol and Carvacrol. *Biological Trace Element Research* ,161, 116-122..

7. Shukla S, Mahata S, Shishodia G, Pande S, Verma G, Hedau S, Bhambani S, Kumari A, Batra S, **Basir SF**, Das BC, Bharti AC. (2014) Physical State and Copy Number of High Risk Human Papillomavirus Type 16 DNA in progression of Cervical Cancer. *Indian Journal of Medical Research* , 139(4): 531-43.

8. Upreti J, Ali S, **Basir SF** (2013) Effect of Lower Doses of Vanadate in Combination with *Azadirachta indica* Leaf Extract on Hepatic and Renal Antioxidant Enzymes in Streptozotocin- Induced Diabetic Rats. *Biological Trace Element Research.*, 156 (1-3): 202-9.

9. Mahata S S, Shishodia G, Pandey A, Tyagi A, Vishnoi K, **Basir SF**, Das BC, Bharti AC. (2013) Functional regulatory role of STAT3 in HPV16-mediated cervical carcinogenesis. *PLoS One* , 8(7): e67849.doi: 10.1371/journal.pone.0067849.

10. Sinha R, Hussain S, Mehrotra R, Kumar RS, Kumar K , Pande P, Doval DC, **Basir SF** and Bharadwaj M (2013) 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 *PLoS One*. 8(4):e60142. doi: 10.1371/journal.pone.0060142.

11. . Shailey S and **Basir SF**. (2012) Strengthening of Antioxidant Defence by *Azadirachta indica* in alloxan-diabetic rat tissue *Journal of Ayurveda and Integrative Medicine*; 3 (3): 130-135.

12. Shailey S and **Basir SF**. (2012) Protective role of *Azadirachta indica* against oxidative damage in skeletal and cardiac muscle of alloxan diabetic rats. *International Journal of Pharmacy and Pharmaceutical Science.*; 4(1): 471-77.

13. Sinha R, Kumar SR, Kumar K, Pande P, Doval DC, **Basir SF**, and Bharadwaj M (2012)Role of Epigenetic Modification in MGMT gene and genetic mutation in kRASA gene in colorectal cancer in Indian Population.. *Hepatology International*, 6:67-309, PP27-002.

14. Sinha R, Hussain S, Kumar SR, Kumar K, Pande P, Singh S, Doval DC, **Basir SF**, and Bharadwaj M. (2012) MT and RASSF1A gene promote 3r hypermethylation in sporadic colorectal cancer in Indian population.. *Journal of Carcinogenesis*. vol 11, supplement 1, S42.

15. Thakur N, Shrivastava R, Hussain S, **Basir SF**, Bharadwaj M. (2012) Evaluation of functional relevance of rare variant of Cyclic D1 (CCND1) in cervical carcinogenesis.. *Journal of Carcinogenesis*. vol 11, supplement 1, S46.

16. Gupta AC, Misra R, Sakhuja P, Singh Y, **Basir SF**, Sarin SK. (2012) Association of adiponectin gene functional polymorphisms (- 11377C/G and + 45T/G) with non-alcoholic fatty liver disease. *Gene.*; 496 (1): 63-7.

17. Bhatia R, Shreaz S, Khan N, Muralidhar S **Basir SF**, Manzoor N, Khan LA. (2012) Proton pumping ATPase mediated fungicidal activity of two essential oil components. *Journal of Basic Microbiology*, 52 (5), 504-512.

18. Shreaz S, Bhatia R, Khan N, Muralidhar S **Basir SF**, Manzoor N, Khan LA (2011). Spice oil cinnamaldehyde exhibits potent anticandidal activity against fluconazole resistant clinical isolates. *Fitoterapia*; 82(7):1012-20.

19. Upadhyay SK, Gautam P, Pandit H, Singh Y, **Basir SF**, Madan T.(2012). Identification of Fibrinogen-Binding Proteins of *Aspergillus fumigatus* using Proteomic Approach. *Mycopathologia*. 173(2-3): 73-82.

20. Thakur N, Hussain S, Nasare V, Das BC, **Basir SF**, Bharadwaj M.(2012). Association analysis of p16 (CDKN24) and RB1 polymorphisms with susceptibility to cervical cancer in Indian population. *Mol Biol Rep*. 39(1):407-14.

21. Shailey S and **Basir SF** (2011). Evaluation of *Azadirachta indica* seed extract for *in-vivo* potential and protective effective against diabetes-induced oxidative damage. *International Journal of Chemical and Analytical Science*. 2(9), 1202-1207.

22. Shreaz S, Bhatia R, Khan N, Muralidhar S, **Basir SF**, Manzoor N, Khan LA. (2011) Exposure of *Candida* to p-anisaldehyde inhibits its growth and ergosterol biosynthesis. *J. Gen Appl. Microbiol*; 57, 129-136 .

23. Gautam P, Upadhyay SK, Hassan W, Mada T, Sirdeshmukh R, Sunderam CS, Gade WN, **Basir SF**, Singh Y, Sarma PU (2011). Transcriptomic and Proteomic Profile of *Aspergillus fumigatus* on exposure to Artemisenin. *Mycopathology*. 172(5):331-46. .

24. Shreaz S, Bhatia R, Khan N, Muralidhar S, **Basir SF**, Manzoor N, Khan LA (2011) Interesting anticandidal effects of anisic aldehydes on growth and proton-pumping- ATPase-targeted activity.. *Microb Pathog.*; 51(4):277-84.

25. Bhetariya PJ, Madan T, **Basir SF**, Varma A, Sarma PU. (2011). Allergens/ Antigens, Toxins and Polyketides of important *Aspergillus* species *Indian Journal of Clinical Biochemistry*. 26(2): 104-119.

26. Shreaz S, Sheikh RA, Bhatia R, Neelofar K, Imran S, Hashmi AA, Manzoor N, **Basir SF**, Khan LA. (2011) Antifungal activity of α -methyl trans cinnamaldehyde, its ligands and metal complexes: promising growth and ergosterol inhibitors. *Biometals*. 24(5): 923-33.

27. Shailey S, **Basir SF**. (2011). Long term Effect of *Azadirachta indica* on hypoglycemia, associated hyperlipidemia and tissue glycogen content in alloxane induced diabetic rats. *Journal of Pharmacy Research*. 4(3): 810-812.

28. Sharma P, Kannoujia DK, **Basir SF**, Nahar P. (2011) . Rapid immobilization of enzymes onto solid supports by ultrasound waves. *Artificial cells, blood substitutes and immobilization biotechnology*. 39(5):289-92.

29. Gupta AC, Chaudhory AK, Sukriti, Pande C, Sakhiya P, Singh Y, **Basir SF**, Sarin SK (2011). Peroxisome proliferators-activated receptor γ 2 Pro12 Ala variant is associated with body mass index in non-alcoholic fatty liver disease patients. *Hepato Int*. 5: 575-80.

30. Chandra H, **Basir SF**, Gupta M, Banerjee N. (2010) . Glutamine synthetase encoded by *glnA-1* is necessary for cell wall resistance and pathogenicity of *Mycobacterium bovis*. *Microbiology*. (Pt 12): 3669-77.

31. Shukla S, Shishodia G, Mahata S, Hedau S, Pandey A, Bhambhani S, Batra S, **Basir SF**, Das BC, Bharti AC. (2010). Aberrant expression and constitutive activation of STAT3 in cervical carcinogenesis: implications in high-risk human papillomavirus infection. *Mol Cancer* 27; 9: 282.

32. Sharma P, **Basir SF**, Nahar P. (2010). Photoimmobilization of Unmodified Carbohydrates on Activated Surface. *J Colloid Interface Science*. 342 (1): 202-204.

33. Hussain S, Bharti AC, Salam I, Bhat MA, Mir MM, Hedau S, Siddiqui MA, **Basir SF**, Das BC. (2009). Transcription factor AP-1 in esophageal squamous cell carcinoma: Alterations in activity and expression during Human Papillomavirus infection. *BMC cancer*. 16; 9(1): 329.

34. Bhetariya P., Shankar J, Singh Y, Madan T, **Basir SF**, Sarma PU. (2009). Multiplex PCR for Detection of *Aspergillus fumigatus*, *Aspergillus flavus* and *Aspergillus niger*. *The Journal of Allergy and Clinical Immunology*. 123(2): 160.

35. Salam I, Hussain S, Mir MM, Dar NA, Abdullah S, Siddiqui MA, Lone RA, Zargar SA, Sharma S, Hedau S, **Basir SF**, Bharti AC, Das BC (2009). Aberrant promoter methylation and reduced expression of p16 gene in esophageal squamous cell carcinoma from Kashmir valley: a high risk area. *Mol Cell Biochem*; 332(1-2):51-8.

36. Thakur N, Hussain S, Kohaar I, Tabassum R, Nasare V, Tiwari P, Batra S, Bhambhani S, Das BC, **Basir SF**, Bharadwaj D, Bharadwaj M. (2009). Genetic Variant of CCMD1: Association with HPV-mediated cervical cancer in Indian Population. *Biomarkers*; 14(4): 219-25.

37. Upadhyay SK, Mahajan L, Ramjee S, Singh Y, **Basir SF** and Madan T (2009). Identification and characterization of a laminin-binding protein of *Aspergillus fumigatus*: extracellular thaumatin domain protein (AfCalAp). *J Med Microbiol*; 58 (6): 714-22.

38. Kumar GT, Kazim SN, Kumar M, Hissar S, Chauhan R, **Basir SF** and Sarin SK. (2009). Hepatitis B virus genotypes and hepatitis B surface antigen mutations in family contacts of hepatitis B virus infected patients with occult hepatitis B virus infection. *J. Gastroenterol Hepatol.*, 24(4): 588-598.

39. Upadhyay SK, Shankar J, Singh Y, **Basir SF**, Madan T, and Sarma PU (2009). Expressed sequence tags of *Aspergillus fumigatus* : Extension of Catalogue and their evaluation as Putative Drug Targets and/or Diagnostic Markers. . *Indian J Clinical Biochemistry*. 24(2), 131-136.

40. Gautam P, Shankar J, Madan T, Sirdeshmukh R, Sundaran CS, Gade WN, **Basir SF** and Sarma PU. (2008). Proteomic and Transcriptomic analysis of *Aspergillus fumigatus* on exposure to amphotericin B. *Antimicrob Agents Chemother*. 52(12): 4220-4227.

41. Naqvi RA, Hussain A, Raish M, Noor A, Shahid M, Sarin R, Kukreti H, Khan NJ, Ahmad S, VS Deo S, Husain Sa, Pasha ST, **Basir SF**, Shukla NK (2008). Specific 5' CpG Island

Methylation Signatures of FHIT and p16 genes and their Potential Diagnostic Relevance in Indian Breast Cancer Patients. *DNA Cell Biology*; 27 (9): 517-525.

42. Naqvi RA, Hussain A, Deo SSV, Kukreti H, Chauhan M, Sarin R, Saxena A, Asim M, Shukla NK, Husain SA, Pasha ST and **Basir SF**. (2008). Hypermethylation analysis of mismatch repair genes (hmlh1 and hmsh2) in locally advanced breast cancers in Indian women. *Human Pathology*; 39 (5): 672-80.

43. Shankar J, Upadhyay SK, Gupta S, **Basir SF**, SarmaPU, Madan T.. (2008) Global expression profile of *Aspergillus fumigatus* Conidia during interaction with Murine Macrophage. *J Allergy Clin Immunol*. Abstract no. 521, S 134.

44. Upadhyay SK, **Basir SF**, Madan T.. (2008). Characterization of Cell Wall Galactomannoprotein (Mp1) as a Potential Adhesin of *Aspergillus fumigatus*. *J Allergy Clin Immunol.*, 121(2-1): S14.

45. Sharma P, Gupta B, **Basir SF**, Rani Das H and Nahar P. (2008). Rapid and sensitive Detection of Autoantibody in Rheumatoid Arthritis Patients by heat-mediated ELISA. *Clin. Biochem.* 41 (1-2): 97-102.

46. Negi SS, Anand R, Pasha ST, Gupta S, **Basir SF**, Khare S and Lal S. (2007). Diagnostic potential of IS6110, 38kDa, 65kDa and 85B sequence based polymerase chain reaction in the diagnosis of Mycobacterium tuberculosis in clinical samples *Indian Journal of Medical Microbiology.* 25 (1): 43-9.

47. Negi SS, Anand R, Pasha ST, **Basir SF**, Gupta S, Khare S and Lal S. (2006). Detection of M tuberculosis in clinical samples of diversified nature by IS6110 based PCR. *Journal Commun. Dis.*, 38 (4): 325-32.

48. Negi SS, Anand R, **Basir SF**, Pasha ST, Gupta S, Khare S and Lal S. (2006). Protein antigen b (Pab) based PCR test in diagnosis of pulmonary and extra-pulmonary tuberculosis *Indian Journal of Medical Research.*; 124 (1):81-8.

49. Negi, SS Anand R, Pasha S T, Gupta S, **Basir SF**, Shashi Khare S and Lal S. (2006). Molecular characterization of mutation associated with rifampicin and isoniazid resistance in *Mycobacterium tuberculosis* isolates. *Indian Journal of Experimental Biology.* 44(7):547-53.

50. Parvez MK, Sehgal D, Sarin SK, **Basir SF** and Jameel S (2006). Inhibition of hepatitis B virus DNA replicative intermediate forms by recombinant interferon- γ . *World Journal of Gastroenterology*, 12 (19): 3006-14.

51. Bansal SK, Kathayat R, Tyagi M, Taneja KK and **Basir SF** (2005). Phospholipid metabolism and protein kinase C mediated protein phosphorylation in dietary protein deficiency in rat lung.. *Indian Journal of Experimental Biology.* 43(7): 606-613.

52. Negi SS, **Basir SF**, Gupta S, Pasha ST, Khare S, Lal S. (2005). Comparative study of PCR, smear examination and culture for diagnosis of cutaneous tuberculosis. *Journal of Communicable Diseases.* 37(2): 83-92.

53. Moorthy K, Yadav UC, Siddiqui MR, Mantha AK, **Basir SF**, Sharma D, Cowsik SM and Baquer NZ. (2005). Effect of hormone replacement therapy in normalizing age related neuronal markers in different age groups of naturally menopausal rats. *Biogerontology*, 6 (5): 345-356.

54. Haque MM, Pooja, Manzoor N, Khan L A and **Basir S F**. (2005). Effect of sodium nitroprusside on H⁺-ATPase activity and ATP concentration in *Candida albicans*. *Indian Journal of Experimental Biology*, 43 (10): 873- 879.

55. Siddiqui, MR, Taha A., Moorthy K., Hussain, ME, **Basir SF**. and Baquer NZ. (2005). Amelioration of altered antioxidant status and membrane linked functions by vanadium and Trigonella in alloxan diabetic rat brains. *Journal of Biosciences*; 30 (4): 483-490.
56. Shankar J, Madan T, **Basir SF** and Sarma PU. (2005).. Identification and Characterization of Polyubiquitin Gene from cDNA Library of *Aspergillus fumigatus*. *Indian Journal of Clinical Biochemistry*, 20 (1) 208-212.
57. Moorthy K, Sharma D, **Basir SF** and Baquer NZ (2005). Administration of estradiol and progesterone modulate the activities of antioxidant enzyme and aminotransferases in naturally menopausal rats.. *Experimental Gerontology*; 40(4):295-302.
58. Negi SS, **Basir SF**, Gupta S, Pasha ST, Khare S, Lal S. (2005). Comparison of the Conventional Diagnostic Modalities BACTEC culture and Polymerase Chain Reaction Test for Diagnosis of Tuberculosis. *Indian Journal of Medical Microbiology*, 23 (1):29-33.
59. Ahmad SM, Ganaie MM., Qazi, PH Verma V, **Basir SF** and . Qazi GN. (2004) Rapid DNA Isolation Protocol for Angiospermic Plants. *Bulg. J. Plant Physiology*, 30 (1-2), 25-33.
60. Moorthy K, Yadav UCS, Mantha AK, Cowsik SM, D Sharma, **Basir SF** and Baquer NZ (2004). Estradiol and Progesterone treatments change the lipid profile in naturally menopausal rats from different age groups. *Biogerontology*, 5 (6): 411-419.
61. Moorthy K, Yadav UC, Siddiqui MR, Sharma D, **Basir SF**, Baquer NZ. (2004). Effect of estradiol and progesterone treatment on carbohydrate metabolizing enzymes in tissues of ageing female rats. *Biogerontology*: 5(4): 249-259.
62. Nahar P, Naqvi A, **Basir SF**. (2004). Sunlight-mediated activation of an inert polymer surface for covalent immobilization of a protein. *Anal Biochem*. 327 (2): 162-4.
63. Mohamad S., Taha, A., Bamezai RN, **Basir SF**, Baquer NZ. (2004). Lower doses of vanadate in combination with trigonella restore altered carbohydrate metabolism and antioxidant status in alloxan-diabetic rats. *Clin Chim Acta*. 342 (1-2): 105-14.
64. Shankar, J., Kamal, N., Madan, T., **Basir SF**, and Sarma, P.U. (2003). *Aspergillus fumigatus* nucleoside diphosphate kinase (NDK) gene, complete cds. PubMed NCBI Accession version AY324230.1 GI:32492045
65. Thakur V, Guptan RC, Malhotra V, **Basir SF**, Sarin SK.. (2002). Prevalence of Hepatitis B infection within family contacts of chronic liver disease patients-- does HBeAg positivity really matter? *J Assoc Physicians India.*; 50: 1389-94.
66. Thakur V., Guptan R.C., Parvez K. **Basir SF**, Sarin S.K. (2001). Enhanced immunogenicity of recombinant hepatitis B vaccine in exposed family contacts of chronic liver disease patients.. *Scand J Inf Dis.* 33;618-621.
67. Bansal SK, Kathayat R, Jaiswal AS, Taneja KK, Malhotra P, **Basir SF**. (2000) Effect of feeding protein deficient diet on phospholipid turnover and protein kinase C mediated protein phosphorylation in rat brain. *Indian Journal of Experimental Biology*; 38(4):323-31.
68. Raj Raghupathy, **SF Basir Khan**, PV Syam Sunder, P Bansal & Azizieh. (1999) A placenta derived suppressor factor with a T-cell bias. *American Journal of Reproductive Immunology* ; 42, 205-218.
69. Kathayat R, Jaiswal A.S., **Basir S.F** and Bansal S.K., (1997). Dietary Protein deficiency induced changes in protein kinase C activity and phospholipids metabolism in rat hepatocytes.. *Indian Journal of Experimental Biology*; 35 (9), 972-976.

70. Dhar R, Dawar H, Garg S, **Basir SF** and Talwar GP. (1996) Effect of Volatiles from Neem and other Natural Products on Gonodotrophic Cycle and Oviposition of *Anopheles stephensi* and *Anopheles Culicifacies* (Diptera: Culicidae). *J. Med. Entomology*. 33(2), 195-201.
71. Bansal S.K., Jaiswal A.S, Kathayat R, **Basir SF** and Misra UK. (1996). Effect of dietary protein manipulation on translocation of protein kinase C activity in various tissues of rats.. *Indian Journal of Experimental Biology*, .34, 197-200 .
72. **Khan SS** and Siddiqui AM (1985) Studies on Chemically aggregated Pepsin using Glutaraldehyde. . *Biotechnology and Bioengineering*, ; 27, 415-419.

ABSTRACTS IN JOURNALS

2. Shankar, SK Upadhayay, S Gupta, **SF Basir**, PU Sarma, T Madan. (2008). *J Allergy Clin Immunol*. Abstract no. 521,: S 134.
3. Bhetariya P., Shankar J, Singh, Madan T, **Basir SF**, Sarma PU. (2009) Multiplex PCR for Detection of *Aspergillus fumigatus*, *Aspergillus flvus* and *Aspergillus niger*. *The Journal of Allergy and Clinical Immunology*., 123(2): S160.

ABSTRACTS IN CONFERENCES/SEMINARS

1. Jaya Upreti, Shakir Ali, Seemi F Basir. (2014) .Restoration of altered antioxidant status by sodium-orthovanadate and *Azadiracta indica* leaf extract on cardiac and skeletal muscles antioxidant defence system in streptozotocin-induced diabetic rats . National Seminar on Metal Toxicity and Oxidative Stress. Sept 23-24,. Jamia Millia Islamia, New Delhi. Abstract No OP-30, page 73
2. Sweta Shailey and Seemi Farhat Basir (2014) Evaluation of *Azadiracta indica* seed extract for *in-vivo* antioxidant potential and protective effect against diabetes-induced oxidative damage.. National Seminar on Metal Toxicity and Oxidative Stress. Sept 23-24,. Jamia Millia Islamia, New Delhi. Abstract No.PP-19, page 98.
3. Swati Kundu, Seemi Farhat Basir, Luqman Ahmad 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. Sept 23-24,. Jamia Millia Islamia, New Delhi. Abstract No. OP-20, page 59.
4. Shamama Nishat, Luqman A Khan, Seemi Farhat Basir . (2014). CI-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. Sept 23-24,. Jamia Millia Islamia, New Delhi. Abstract No. PP-17, page 96.
5. 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).

6. Nishat Shamama, Khan LA, Basir SF. Overexpression of A3AR is responsible for increased constriction response via ROS signalling in diabetic mice aorta.(2014). National Conference on Chronic Inflammatory Disorders. Feb 13-15, Dept of Biochemistry, Jamia Hamdard, New Delhi. **Best poster award.**
7. Wani Shah Nawaz, Srivastava Kamna, Basir SF (2014) Nitric Oxide as biomarker for essential hypertension.. National Conference on Chronic Inflammatory Disorders. Feb 13-15, Dept of Biochemistry, Jamia Hamdard, New Delhi.
8. Kundu S, Shabir H, Basir SF, Khan LA. (2014) Attenuation of As (III) altered contractility of rat trachea by Eugenol and Thymol. National Conference on Chronic Inflammatory Disorders. Feb 13-15, Dept of Biochemistry, Jamia Hamdard, New Delhi.
9. Shabir H, Kundu S, Basir SF, Khan LA. (2014) Amelioration of Cd(II) mediated tracheal hypercontraction by Linalool and Curcumin. National Conference on Chronic Inflammatory Disorders. Feb 13-15, Dept of Biochemistry, Jamia Hamdard, New Delhi.
10. Kundu S, Shabir H, Basir SF, Khan LA. (2013) Amelioration of As induced aortal hypercontraction by carvacrol and thymol. 3rd Annual Meeting and Symposium on Modern Trends in Human Disease. Dec 14-15, Dept of Biochemistry, JN Medical College, AMU, Aligarh. **Best poster award.**
11. Shabir Hiba, Kundu S, Basir SF, Khan LA. (2013) Altered vasoconstriction of rat aorta by lead and its attenuation by some natural compounds. 3rd Annual Meeting and Symposium on Modern Trends in Human Disease. Dec 14-15, Dept of Biochemistry, JN Medical College, AMU, Aligarh
12. Upreti J, Ali S, Basir SF. (2012) Effects of *Azadirachta indica* leaf extract and vanadate on hepatic antioxidant enzymes in streptozotocin induced diabetes in rats. **International** Interdisciplinary Science Conference on Protein Folding and Diseases. Dec 8 -10, Jamia Millia Islamia, New Delhi.
13. Gupta R, Gaiind R, Deb M, Wain J, Basir SF, Singh L. (2012) Determination of genetic variance in quinolone resistance *Salmonella typhi* in QRDR region of *gyrA*, *gyrB*, *par C* and *parE* by denatured high performance liquid chromatography (DHPLC). 3rd ASM (American Society for Microbiology) Conference on Antimicrobial Resistance in Zootonic Bacteria and Food borne pathogens in Animals, Humans, and the Environment. June 26-29, Aix-en-Provence, **France.**
14. Gupta R, Gaiind R, Singh L., Deb M, Wain J, Basir SF (2012), Fluroquinolone resistance in *Salmonella typhi* : Mechanism of resistance and therapeutic options. 3rd ASM (American Society for Microbiology) Conference on Antimicrobial Resistance in Zootonic Bacteria and Food borne pathogens in Animals, Humans, and the Environment. June 26-29, , Aix-en-Provence, **France**
15. Deepa Anil Kumar, Sumathi Muralidhar, Malini Capoor, Purva Mathur, Uma Banerjee, Seemi F Basir and Luqman Ahmad 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 Feb).
16. Bhetariya P, Bhaduri A, Singh Y, Madan T, Basir SF, Varma A Sarma PU (2010) Diversity of Polyketide synthases in Aspergilli and Development of Diagnostics. 4th Advances against Aspergillogis Feb 4-6, **Rome.**

17. Sweta Shailly and Seemi Farhat Basir. (2010) Antioxidant status in alloxane diabetic rat liver: Reversal by Azadirachta indica seed extract. 37th Annual Conference of Association of Clinical Biochemists of India, 13-15 Dec, Mumbai. Indian Journal of Clinical Biochemistry. Vol 25, supplement 2010. pg 118
18. Sweta Shailly and Seemi Farhat Basir. (2010) . Alterations in Key Enzymes of antioxidant defense mechanism in alloxane diabetic rat liver: Reversal by Azadirachta indica bark extract. **International Conference** on Multidisciplinary Approaches to Diabetes Research and Health. Jaipur. 14-16 Nov., P-64, pg 133.
19. Gupta R, Bianca P, Deb M, Basir SF, Rubino S and Gaind R. (2010) Epidemiology, Trends of Antibiotic Resistance and Molecular Characteristics of *Salmonella enterica* serotype Paratyphi A in India – Reappraisal of Therapeutic and Vaccination Policy. 6th Conference on New Frontiers in Microbiology and Infection “ *Salmonella*: from Basic Science to Clinical Issues” Villars-sur-Ollon, **Switzerland**. 3-7 Oct.,
20. Gupta R, Mohanty S, Deb M, Basir SF, Gaind R. (2010). A Novel Quinolone resistance phenomenon in *Salmonella enterica serovar* typhi: Nalidixic acid susceptible isolates with reduced susceptibility to Fluoroquinolones. 2nd Annual Conference of Indian Association of Medical Microbiologists. New Delhi. 12-13th March , page 31. **1st prize** in oral presentation.
21. 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, 34th Conference Indian Association of Medical Microbiologists, (MICROCON 2010), Kolkata, India. (26th to 28th November).
22. Gupta R, Gaind R, Mohanty S, Deb M, Basir SF. (2009) . Re-evaluation of nalidixic acid screening for detection of reduced fluoroquinolone susceptibility in *Salmonella enterica* serotype Typhi: a report from India. 44th Annual Joint Panel Meeting of **United States- Japan Cooperative Medical Science Program** on “Cholera and Other Bacterial Enteric Infections” Hilton, San Diego Mission Valley, **USA**. 12th-14th Oct, pg 288.
23. Hussain S, Bharti AC, Salam I, Bhat MA, Hedau S, Basir SF, Das BC. (2009). Transcription Factor AP-1 in esophageal squamous cell carcinoma: Alterations in activity and expression during human papillomavirus infection. 8th **International conference** on Lung and Esophageal Cancers. Rajiv Gandhi Cancer Institute and Research Center, New Delhi. 27th -29th March.
24. BharadwajM, Hussain S, Thakur N, Salam I, Bhat MA, Mir MM, Siddiqui MA, **Basir SF**, Das BC. (2009). Analysis of Single Nucleotide Polymorphism G870A of Cyclin D1 Gene in Esophageal Squamous Cell Carcinoma. 8th **International conference** on Lung and Esophageal Cancers. Rajiv Gandhi Cancer Institute and Research Center, New Delhi. 27th -29th March.
25. Thakur N, Hussain S, Kohaar I, Nasare V, Tiwari P, Bhambhani S, **Basir SF**, Das BC, Bharadwaj M. (2009). Association of SNP at G870A of CCND1 with HPV Mediated Cervical Cancer in Indian Population. 28th annual convention of Indian Association for Cancer Research and **International Symposium** on Emerging Challenges and approaches in Cancer Biology. Feb 21-24, , IISc Bangalore.
26. Preetida J., Jata Shankar, Yogendra Singh, Taruna Madan, Anupam Varma, **Seemi Farhat Basir**, P. Usha Sarma (2009). Multiplex PCR for detection of *Aspergillus*

fumigatus, *Aspergillus flavus* and *Aspergillus niger*. **American Academy of Allergy Asthma and Immunology** Annual Meeting. March 13 -17, 2009, Washington, DC. Abstract published in The Journal of Allergy and Clinical Immunology. Vol 123, Issue 2 page S160.

27. Hussain S, Salam I, Hedau S, Bhat MA, Mir MM, Siddiqui MA, **Basir SF**, Bharti AC, Bas BC. (2008). The Role of Activator Protein (AP-1) in the Pathogenesis of Esophageal Cancer. 28th annual convention of Indian Association for Cancer Research and International Symposium on Frontiers in Functional Genomics. Feb 6-9, Bangalore.
28. Hussain S, Salam I, Hedau S, Gaur K, Bhat MA, Mir MM, Siddiqui MA, Basir SF, Bharti AC, Bas BC. (2008). Analysis of Promoter Methylation of E-Cadherin Gene in Esophageal Squamous Cell Carcinoma. HUGO08, Sep 26-29, , Hyderabad.
29. Santosh Kumar Upadhyay, Seemi Farhat Basir, P Usha Sarma , Taruna Madan Gupta. (2007). Characterisation of extracellular thaumatin domain protein a potential adhesion of *Aspergillus fumigatus*. 13th International Congress of Immunology, Rio de Janeiro, Brazil. August 21-25,.
30. Showket Hussain, Shirish Shukla, Rakesh Kumar, Umesh Kumar, Irfana Salam, Shakeel-ul-Rehman, Seemi Farhat Basir, Alok C. Bharti, Mohd. Akbar Bhat, Mushtaq A. Siddiqi , Bhudev C. Das (2007) The Role of c-Fos and Fos Related Antigen-1 (Fra-1) in the Pathogenesis of Esophageal Carcinoma. International Symposium on Genomic Instability and Cancer. July 22-26, , at SKICC, Srinagar Kashmir (J&K), India.
31. Jata Shankar, Taruna Madan, Seemi Farhat Basir, P Usha Sarma. (2006). Identification of differentially expressed genes of *Aspergillus fumigatus* during conidia- macrophage interaction. 2nd Advances Against Aspergillosis, Athens, Greece; February 22nd-25th.
32. Jata Shankar, Taruna Madan, Seemi Farhat Basir, P Usha Sarma. (2005). Genome wide expression profiling of *Aspergillus fumigatus* against Amphotericin B using DNA Microarray Technology. 13th Annual International Conference on Intelligence Systems for Molecular Biology (ISMB), Michigan, USA, June 25th- 29th ,.
33. S M Ahmad, Q P Hassan, I S Fazli, V Verma, S F Basir and G N Qazi. (2005). Cloning and Characterization of Ribosomal RNA Genes from *Tinospora* species in India. International Conference on "Plant Genomics and Biotechnology: Challenges and Opportunities" held at Raipur, India, October 26-28, Abstract no. P-116, page 140.
34. S M Ahmad, P H Qazi, V Verma, S F Basir and G N Qazi. (2005). Genetic relationship among Indian *Tinospora* species by PCR-RELP analysis of the rDNA internal transcribed spacer (ITS). 1st J and K State Science Congress, Feb, 7-9. Abstract No. CP-175, page 131.
35. Jata Shankar, Taruna Madan, Seemi Farhat Basir, P Usha Sarma.(2004). Identification and Assignment of Function to the Genes of *Aspergillus fumigatus* Expressed at 37°C. 7th Annual Conference on Computational Genomics, held at Hyatt Regency Reston, Reston, Virginia, US; Oct 21-24; Abstract No. P-39.
36. Deepak Sehgal, Seemi F Basir. Shiv K Sarin and Shahid Jameel. (2005). Effect of Recombinant Interferon- γ on Hepatitis B Virus (HBV) DNA Replication . Md Khalid

Parvez, Presented at the The Sixth Sir Dorabji Tata Symposium at Indian Institute of Science Campus, Bangalore on 10–11 March.

37. Jata Shankar, Santosh Kumar Upadhyay, Taruna Madan, Seemi Farhat Basir, P Usha Sarma. (2004). A Novel Antigen of *Aspergillus fumigatus*, showing homology with Thiamin Biosynthesis Protein. Presented at 2nd National Conference of Biotechnology Society of India held at IGIB, New Delhi. 13th–15th October.
38. Thakur V, Kazim SN, Guptan RC, Basir SF, Sarin SK. (2001). Horizontal transmission of G145 R mutant of HBV. Presented in the mid term INASL (Indian society for the study of liver) conference held in Goa, India. March .
39. Seemi Farhat Basir. (2000). Inflammation—the inside story. Presented at the 4th International onference on Recent Trends in Life Sciences at Trivandrum 7th-9th February 2000.
40. V.Thakur, S.N.Kazim, R.C.Guptan, S.F.Basir and S.K.Sarin (1999). Conclusive evidence of intrafamilial mode of HBV transmission using sequence analysis of S gene in contacts of chronic liver disease patients. Presented at The Congress on Viral Hepatitis in Dec. at Singapore.
41. P.V.Shyamsunder, S.Karamakaran, S.Farhat and Raj Ragupathy. (1993). Partial characterization of a mouse placental immunosuppressant. Presented at the Indian Immunology Congress in Dec. at Bhopal.
42. P.V. Shyamasunder, S.F.B. Khan and Raj Ragupathy. (1993). Immunosuppressive capabilities of Mouse Placental Supernatants. Presented at the 19th Annual Conference of Indian Immunology Society,. Abstract No. P-VIII-9.
43. M.S. Alam, K. Chaudhary, M.M. Bajaj and S. Farhat. (1992). Study of vander Waal's interactions in Bacterial, Viral, Genetic and Renal Disorders. Bull. American Physical Society, 22-24 April.
44. M.S. Alam, M.M. Bajaj and Seemi Farhat. (1992). A study of the role of nephrotoxins in female patients having chronic renal failure using UV absorption technique. Bull. American Physical Society., 16-20 March. Indianapolis. Paper no.87.
45. M.S. Alam, R. Malhotra, M.M. Bajaj, S. Farhat and S.N.A. Rizvi. (1991). Laser Raman studies on chronic renal failure and search for possible nephrotoxins. National Seminar on Raman Spectroscopy and Entropy Applications
46. M.S.Alam M.M. Bajaj, S. Farhat Basir, H.S. Yadav and S.N.A. Rizvi. (1991), Trace elemental studies of zinc, copper and iron in chronic renal failure using atomic absorption spectroscopy. International Symposium on Current Trends in Chemical Research (Royal Society of Chemistry, London) Paper No. 41.
47. Seemi Farhat Basir. (1990). Preparation of F(ab)₂ with immobilized pepsin. National Symposium on Frontiers in Modern Biology, New Delhi Abstract No. 539, page 51.
48. Khan S Seemi and Siddiqi AM (1985) Immobilization of Pepsin on cotton. 54th National Meeting of Meeting of Society of Biological Chemists ,held at Pantnagar,
49. Khan S Seemi and Siddiqi AM (1984). Kinetic properties and stability and characteristics of pepsin coupled to Sephadex -200. 53rd National Meeting of Meeting of Society of Biological Chemists ,held New Delhi .Abstract No. 344. Page 103.

50. Khan S Seemi and Siddiqi AM (1983) Immobilization of pepsin by intermolecular cross-linking. 52nd National Meeting of Society of Biological Chemists ,held at Pune. Abstract No. 371 page 118.

TALKS DELIVERED

- Inflammation. Refresher Course in Biology, Academic Staff College, Jamia Millia Islamia. 2006
- Immobilization of enzymes and Cells. Dept of Biochemistry, University of Kashmir, Srinagar.2013
- Immune system. Refresher Course for School Teachers, Teachers Training Institute, Jamia Millia Islamia. 2014
- Immune Tolerance. Refresher Course for School Teachers, Teachers Training Institute, Jamia Millia Islamia 2014.

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TELEVISION PROGRAMS

Interview of Prof SM Hadi, on National TV

Lectures for **countrywide interactive classroom program of UGC** on

1. Enzymes
2. Immune Molecules.