

**MOHAMMAD ZAHID ASHRAF, FNASc, FASc**

**PRESENT ADDRESS:** Professor  
Department of Biotechnology,  
Jamia Millia Islamia (Central University),  
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New Delhi 110025  
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Webpage: <http://jmi.ac.in/biotechnology/faculty-members>  
[https://en.wikipedia.org/wiki/Mohammad\\_Zahid\\_Ashraf](https://en.wikipedia.org/wiki/Mohammad_Zahid_Ashraf)

**AREA OF RESEARCH:**

High Altitude Biology, Translational Biology, Thrombosis, Cardiovascular Biology, Genomics, miRNA, Proteomics -post translational protein modification.

**EDUCATION: PH.D. BIOSCIENCES (2001)**

Title: Endothelial dysfunction during experimentally induced atherosclerosis in animals". Department of Biosciences, Jamia Millia Islamia, New Delhi 110025 and Department of Physiology, Vallabhbhai Patel Chest Institute, University of Delhi, Delhi 110 007 INDIA

**M.SC. BIOSCIENCES (1996)**

Department of Biosciences, Jamia Millia Islamia, New Delhi 110025 INDIA

**B.SC. BIOSCIENCES (1994)**

Department of Biosciences, Jamia Millia Islamia, New Delhi

**POST DOCTORAL TRAINING /EXPERIENCE:**

**Research Fellow**, Department of Molecular Cardiology, Lerner Research Institute of Cleveland Clinic, USA

**Post-doctoral Research Fellow**, Department of Cell Biology, Lerner Research Institute of Cleveland Clinic, USA

**PROFESSIONAL AND RESEARCH APPOINTMENTS/POSITIONS:**

April 2017---	<b>Professor</b> , Dept of Biotechnology, JMI, New Delhi
2014 --- March 2017	<b>Scientist –E</b> , Head, Genomics Div., DIPAS, Delhi
2009 --- 2014	<b>Scientist –D</b> , Genomics Div., DIPAS, Delhi

**HONORS:**

1. Fellow, National Academy of Sciences, Allahabad,
2. Fellow, Indian Academy of Science, Bangalore
3. Member, National Academy of Medical Sciences

**AWARDS:**

1. *Ramachandran National Bioscience Award*, Department of Biotechnology, 2018
2. *Basanti Devi Amir Chand Award*, Indian Council of Medical Research, 2018
3. *PA Kurup Oration*, Indian Society for Atherosclerosis Research, 2014
4. *Surg. Rear Admiral M. S. Malhotra Awards*, , DRDO, 2014
5. *Innovations Award*, Cleveland Clinic Foundation, USA, 2008

## **OTHER RECOGNITIONS**

1. Invited Judge (2008) for Basic Science Poster Competitions of the American Heart Association's Scientific Sessions New Orleans.
2. Research Investigator (2007) Center for Stem Cell and Regenerative Medicine, National Center for Regenerative Medicine group, Case Western Reserve University and Cleveland Clinic Foundation.
3. Investigator (2008), Vascular Biology Working Group, sponsored by University of Florida College of Medicine.
4. External Review, Distinguished Scientists Selection committee-2008, American Heart Association

## **ADMINISTRATIVE RESPONSIBILITIES:**

1. **Director (Academics)**, JMI, New Delhi
2. **Institutional Coordinator**, MHRD-SPARC.
3. **National coordinator** for SPARC partner country Portugal
4. **External Member**, Research Council, University of Kashmir, J&K
5. **Chairman**, Animal House Facility, JMI, New Delhi
6. **Chairman**, Article Processing Committee, JMI, New Delhi
7. **Member**, IPR and Patent Committee, JMI, New Delhi
8. **Member**, Board of Studies, South Bihar Central University, Patna (2103-2016)
9. **Member**, Board of Studies, Department of Biosciences, JMI, New Delhi
10. **Member**, Board of Studies, Department of Geography, JMI, New Delhi

## **MEMBERSHIP AND ACTIVITY IN SCIENTIFIC AND PROFESSIONAL SOCIETIES:**

1. **Invited Member** Pulmonary Vascular Research Institute, UK
2. **Executive Council**, Indian Society for Atherosclerosis Research,
3. **Life Member**, Indian Society for Atherosclerosis Research
4. **Life Member**, International Atherosclerotic Society
5. **Life Member**, International Society for Heart Research (India Chapter)
6. **Life Member**, International Academy of Cardiovascular Sciences
7. **Life Member**, Indian Society for Hematology & Transfusion Medicine
8. **Member**, Society for Vascular Medicine and Biology
9. **Member**, North American Vascular Biology Organization
10. **Member**, American Heart Association (2003-2009)

## **RESEARCH PROJECTS AND SCHEMES UNDERTAKEN:**

### ***Ongoing projects:***

1. Investigating the role of Hypoxia Inducible Factors-1a (HIF-1 $\alpha$ ) and NLRP3 Inflammasome axis in Pre-Eclampsia during Pregnancy. PI, National Bioscience Award-Grant, Department of Biotechnology, 2019-22. **15 Lakh- Principal Investigator**
2. Effect of Hypoxia on tissue factor mediated coagulation pathway and their function in hypoxia induced thromboembolism. PI in collaboration with National University Singapore, SPARC-MHRD, 2018-20. **57 Lakh- Principal Investigator**
3. Determination of antithrombotic potential of traditionally used unani formulations, PI, AYUSH, Govt of India, PI, 2018-2021. **58 lakhs- Principal Investigator**

4. Role of Poly(ADP-ribose) Polymerase-1 (PARP1) in Hypoxia-induced Thrombosis, PI in collaboration with Laval University, Canada, Shastri Institutional Indo-Canadian Collaborative Research Grant, 2018-2021. **10 Lakh- Principal Investigator**
5. Vitamin D level at HA is Attributable to Higher Incidence of Thrombosis at High Altitude and the Role of NLRP3 inflammasome, PI, Department of Biotechnology, 2019-2022. **60 lakhs- Principal Investigator**
6. The LONG NONCODING RNA (lncrna) Landscape of hypoxia induced thrombosis, PI, Science and Engineering research board, 2019-2022. **55 Lakhs-Principal Investigator**
7. Search for novel anti-platelet and anti-thrombin peptides from Indian viper venom (*Daboia russelii*): Purification, characterization and evaluation of its anti-thrombotic potential Co-PI, North Eastern Region- Biotechnology Programme, sanctioned, 2018-21 **64 lakhs-Co- Investigator**

**Completed projects:**

1. Identification of Biomarkers for High Altitude Induced Thromboembolic Disorders and screening of Natural Compounds for Antithrombotic Potential. Ministry of Defence, Govt. of India, **532 Lakh, Principal Investigator**
2. High Altitude induced thromboembolic disorders. Ministry of Defence, Govt. of India, **493 Lakh, Principal Investigator**
3. Platelet proteomic analysis in animals exposed to high altitude simulated conditions. Ministry of Defence, Govt. of India, **10 Lakh, Principal Investigator**

**INTERNATIONAL COLLABORATIONS:**

1. **Prof. Girish M Shah, Laval University, Canada.** Role of Poly(ADP-ribose) Polymerase-1 (PARP1) in Hypoxia-induced Thrombosis. Shastri Institutional Indo-Canadian Collaborative Research Grant.
2. **Dr Manavendra Singh, National University Singapore.** Effect of Hypoxia on tissue factor mediated coagulation pathway and their function in hypoxia induced thromboembolism. SPARC-MHRD.

**PATENTS & TECHNOLOGIES DEVELOPED**

*Patents*

1. A Novel Approach to Cardiovascular Disease Treatment and Diagnosis. US and world Patent Pending: Filed with Cleveland Clinic Innovations in Cardiovascular Medicine.
2. A Method of Risk Assessment of Clot Formation (733/DEL/2014)
3. Specific Small Single Stranded RNA Molecules With Antithrombotic Properties And Uses Thereof (1398/DEL/2015)

**SCIENTIFIC ACTIVITIES:**

**Editorial /Reviewer for Scientific Journals:**

1. International Journal of Hematology Research
2. Frontiers in Chemical Sciences
3. Journal Of Thrombosis & Haemostasis
4. Thrombosis Research
5. High Altitude Medicine & Biology
6. Scientific Reports
7. American Journal of Hypertension
8. Journal of Hypertension
9. PLoS ONE
10. International Journal of Biochemistry & Cell Biology

11. Pharmaceutical Biology
12. Human Toxicology
13. Microbes & Infection

**LIST OF RESEARCH PUBLICATIONS (SELECTED):**

1. Jha, P. K., A. Sahu, A. Prabhakar, T. Tyagi, T. Chatterjee, P. Arvind, J. Nair, **Mohammad Zahid Ashraf**. "Genome-Wide Expression Analysis Suggests Hypoxia-Triggered Hyper-Coagulation Leading to Venous Thrombosis at High Altitude." *Thromb Haemost* **2018**; 118, no. 7: 1279-95.  
**Impact Factor: 4.9**
2. Brij Bhushan, A.Prabhakar, A.P.Yadav, M.Z.Ashraf S.B.Sigh, L.Ganju, Activation of platelets and inflammatory cytokines in male participants of an Indian Antarctic expedition, *Polar Science*, **2019**, (19), 146-150  
**Impact Factor: 1.03**
3. Aatira Vijay, Prabhash Kumar Jha, Iti Garg, Manish Sharma, **Mohammad Zahid Ashraf** and Bhuvnesh Kumar. micro-RNAs dependent regulation of DNMT and HIF1 $\alpha$  gene expression in thrombotic disorders. *Scientific Reports* 2019;20;9(1):4815  
**Impact Factor: 4.1**
4. Anita Sahu, Prabhash Kumar Jha, Prabhakar A, Chatterjee T, Tyagi T, Kumari B, Khan N, Nair V, **Ashraf MZ**, MicroRNA-145 impedes thrombus formation via targeting tissue factor in venous thrombosis- *EBioMedicine*. 2017 Dec;26:175-186.  
**Impact Factor: 6.1**
5. Ahmad I, Sharma S, Gupta N, Rashid Q, AbidM, **Ashraf MZ**, Jairajpuri MA. Antithrombotic potential of esculin 7, -O-pentasulfate (EPS) for its role in thrombus reduction using rat thrombosis model. *International Journal of Biology of Macromolecules*. 2018;119:360-368. ISSN: 0141-8130  
**Impact factor ~3.91**
6. Lake Louise AMS Score Consensus Committee, Eric Achatz, Edi Albert, Jon S. Andrews, James D. Anholm, **Mohammad Zahid Ashraf**, Paul Auerbach, Buddha Basnyat, Beth A. .... The 2018 Lake Louise Acute Mountain Sickness Score. *High Altitude Medicine Biology* 2018 Mar;19(1):4-6.  
**Impact factor ~1.5**
7. Gupta N, Sahu A, Prabhakar A, Chatterjee T, Tyagi T, Kumari B, Khan N, Nair V, Bajaj N, Sharma M, Ashraf MZ. Activation of NLRP3 inflammasome complex potentiates venous thrombosis in response to hypoxia. *Proceedings of National Academy of Sciences – USA* 2017: 114(18):4763-4768.  
**Impact Factor: 10**
8. Yanamandra U, Singh SP, Yanamandra S, Mulajkar D, Grewal RS, Singh S, **Ashraf MZ**, Reddy P, Nair V. Endothelial markers in high altitude induced systemic hypertension (HASH) at moderate high altitude. *Med J Armed Forces India*. (2017) 73(4):363-369.
9. Jha PK, Vijay A, Sahu A, **Ashraf MZ**. Comprehensive Gene expression meta-analysis and integrated bioinformatic approaches reveal shared signatures between thrombosis and myeloproliferative disorders. *Scientific Reports* 2016 Nov 28;6:37099. doi: 10.1038/srep37099.  
**Impact Factor: 4.1**
10. Sharma S, Garg I, **Ashraf MZ**., TLR signalling and association of TLR polymorphism with cardiovascular diseases. *Vascul Pharmacol*. 2016 Dec;87:30-37.  
**Impact Factor: 3.6**

11. Kumari B, Prabhakar A, Sahu A, Chatterjee T, Tyagi T, Gupta N, Nair V, **Ashraf MZ**. Endothelin-1 Gene Polymorphism and Its Level Predict the Risk of Venous Thromboembolism in Male Indian Population. *Clin Appl Thromb Hemost*. 2016 Aug 1  
**Impact Factor: 1.8**
12. **Ashraf MZ**. Hypertension at high altitude: the interplay between genetic and biochemical factors in the setting of oxidative stress. *Hypertension Research*. 2016 Apr;39(4):199-200.  
**Impact Factor: 3.4**
13. Neha Gupta, Manish Sharma, Tathagata Chatterjee, Tarun Tyagi, Anita Sahu<sup>1</sup>, Amit Prabhakar, **Mohammad Zahid Ashraf**. Activation of NLRP3 Inflammasome Complex Regulates the Onset of Hypoxia Induced Thrombosis, *Arteriosclerosis, Thrombosis, and Vascular Biology*. 2015; 35, A605  
**Impact Factor: 6.0**
14. Tarun Tyagi, Amit Prabhakar, Shantanu Sengupta and **Mohammad Z Ashraf**. A Novel Role of Protein Disulfide Isomerase in Calpain Regulated Hypoxia Induced Prothrombotic Phenotype, 2014; *Blood*: 124 (21)  
**Impact Factor: 15.1**
15. Kumari B, Srivastava S, Chatterjee T, Vardhan R, Tyagi T, Gupta N, Sahu A, Chandra K, **Ashraf MZ**. Study of associated genetic variants in Indian subjects reveals the basis of ethnicity related differences in susceptibility to venous thromboembolism. *Thrombosis*., 182762. Epub 2014 Sep 30. 2014
16. Qudsia Rashid, Mohammad Abid, Neha Gupta, Tarun Tyagi, **M. Zahid Ashraf**, M. Aman Jairajpuri, Polysulfated Trehalose as a Novel Anticoagulant Agent with Dual Mode of Action, *BioMed Research International ID 630482*, Epub 28 August 2014  
**Impact Factor: 2.5**
17. Tarun Tyagi, Shadab Ahmad, Neha Gupta, Yasmin Ahmad, Shantanu Sengupta, **M. Zahid Ashraf**<sup>f</sup>. Altered expression of platelet proteins mediate hypoxia induced prothrombotic phenotype: Calpain playing a major role? *Blood*, 20;123(8):1250-60. 2014.  
**Impact Factor: 15.1**
18. Chatterjee T, Gupta N, Choudhry VP, Behari M, Saxena R, **Ashraf MZ**. Prediction of ischemic stroke in young Indians: is thrombophilia profiling a way out? *Blood Coagulation & Fibrinolysis*. 24(4):449-53. 2013  
**Impact Factor: 1.1**
19. **Ashraf MZ**, Anita Sahu, Implication of scavenger receptors in atherothrombotic disorders. *Biomolecular Concepts*, Volume 3, Issue 4, Pages 371–380, 2012 *Cover page article*  
**Impact Factor: NA**
20. Gupta N. **Ashraf MZ**, Exposure to High Altitude: A Risk Factor for Venous Thromboembolism? *Seminars in Thrombosis and Hemostasis*; 38(2):156-63. 2012,  
**Impact Factor: 3.3**
21. Swati Srivastava<sup>1\*</sup>, Shuchi Bhagi<sup>1</sup>, Babita Kumari<sup>1</sup>, Khem Chandra<sup>1</sup>, Soma Sarkar<sup>2</sup>, **Mohammad Z. Ashraf** Association of polymorphism in angiotensin and aldosterone synthase genes of renin-angiotensin-aldosterone (RAAS) system with HAPE. *J Renin Angiotensin Aldosterone Syst*. Mar;13(1):155-60. 2012  
**Impact Factor: 1.1**
22. **Ashraf MZ**, Gupta N., Scavenger Receptors: Implications in Atherothrombotic Disorders. *International Journal of Biochemistry & Cell Biology*. 43(5):697-700. 2011  
**Impact factor: 4.24**
23. Yi Ma, **Mohammad Z. Ashraf**, and Eugene A. Podrez Scavenger receptor BI plays a dual role in platelet reactivity and thrombosis, *Blood*. 16;116(11):1932-41. 2010  
**Impact factor: 15.1**

24. Jianzhong Shen, Unni M. Chandrasekharan, **Mohammad Z. Ashraf**, Eric Long, Richard E. Morton, Yusen Liu, Jonathan D. Smith, Paul E. DiCorleto, Lack of MAP Kinase Phosphatase-1 Protects ApoE-null Mice against Atherosclerosis. *Circulation Research*. 19;106(5):902-10. 2010

**Impact factor: 15.2**

25. **Mohammad Z. Ashraf\***, Detao Gao\*, De Lin, Lawrence M. Sayre, Eugene A. Podrez. Structural basis for the recognition of oxidized phospholipids in oxidized low density lipoproteins by class B scavenger receptors CD36 and SR-BI. \* equal contribution, *Journal of Biological Chemistry* 12;285(7):4447-54. 2010

**Impact factor: 4**

26. **Mohammad Z. Ashraf**, Niladri S. Kar, Eugene A. Podrez. Oxidized phospholipids: Biomarker for cardiovascular diseases, *International Journal of Biochemistry & Cell Biology*, 41(6):1241-4. 2009

**Impact factor: 4.24**

27. **Mohammad Z. Ashraf**, Niladri Kar, Robert G. Salomon, Maria Febbraio and Eugene A. Podrez Specific Oxidized Phospholipids Inhibit Scavenger Receptor BI SR-BI Mediated Specific Uptake of Cholesteryl Esters, *Journal of Biological Chemistry*. 18;283(16):10408-14, 2008

**Impact factor: 4**

28. Niladri S. Kar, **Mohammad Z Ashraf**, Manojkumar Valiyaveetil and Eugene A. Podrez Mapping and Characterization of Oxidized Low-Density Lipoprotein and OxPC<sub>CD36</sub> Binding Site of Scavenging Receptor CD36, *Journal of Biological Chemistry*. 28;283(13):8765-71, 2008

**Impact factor: 4**

29. Valiyaveetil M, **Ashraf MZ\***, Kar N\*, Byzova TV, Febbraio M, Podrez EA. Oxidized high-density lipoprotein inhibits platelet activation and aggregation via scavenger receptor BI. *Blood*. 15;111(4):1962-71. 2008 \* equal contribution

**Impact factor: 15.2**

30. Bandyopadhyay S, **Ashraf MZ**, Daher P, Howe PH, DiCorleto PE. HOXA9 participates in the transcriptional activation of E-selectin in endothelial cells. *Molecular and Cellular Biology*, 27(12): 4207-4216, 2007.

**Impact factor: 3.8**

31. **Ashraf MZ**, Hussain ME, Fahim M, Antiatherosclerotic effects of dietary supplementations of garlic and turmeric: restoration of endothelial function in rats. *Life Sciences*, 77: 837-857, 2005.

**Impact factor: 2.7**

32. **Ashraf M. Z.**, Hussian M.E. and Fahim M., Endothelium mediated vasorelaxant effect of garlic in isolated rat aorta: Role of nitric oxide. *Journal of Ethanopharmacology* 90(1):5-9, 2004.

**Impact factor: 3.1**

#### **BOOK CHAPTERS**

- Swati Srivastava, **Ashraf MZ**, Oxidized Phospholipids: Introduction & Biological Significance” in the forthcoming book “LIPOPROTEIN” ISBN 980-953-307-145-4 by Intech-International Publication Group, 2012
- Neha Gupta, **Mohammad Zahid Ashraf**. Hypoxia Signaling in Cardiovascular Diseases, “Hypoxia Signaling in Cardiovascular Diseases, Hypoxia and Anoxia”. DOI:10.5772/intechopen.80456. by Intech-International Publication Group, 2018.

#### **LIST OF INVITED TALKS (SELECTED)**

1. Thrombosis at Altitude: A new perspective. National Seminar on Genetics of Complex Diseases, Guru Nanak Dev University; Amritsar Punjab, 29 March, 2019.
2. Deconstructing Thrombosis at Altitudes: A Translational Story. International Conference on Advances in Zoological Research 9 -10 th March, 2019, Department of Zoology, A.M.U., Aligarh.
3. Chair- Session XVI, International Conference on Advanced Materials scheduled March 6 - 7, 2019 at Jamia Millia Islamia (Central University) New Delhi-India.
4. Chairman -session on Unani Medicine for Public Health” at National Conference on Unani Medicine, Central Council for Research in Unani Medicine (CCRUM), on 11 th & 12 th February 2019, Vigyan Bhawan, New Delhi
5. Micro-RNA Based Therapy: Opportunities & Challenges, 7 th International Conference on Current Trends in Drug Discovery Research (CTDDR-2019) organized from 20th to 23rd February 2019 at CSIR-Central Drug Research Institute, Lucknow, India.
6. Deconstructing thrombosis at altitudes: Hypoxia Research: Current Progress and Future Scope, 25 th Jan 2019 Centre for Medical Education & Technology (CMET), AIIMS, New Delhi
7. Pathogenesis of thrombosis at altitudes. National conference on “Chemistry for Human Health and Environment” (CHHE-2018) 15-16 December, 2018 at Conference Centre, University of Delhi,
8. Promises and Challenges of microRNA-based Therapy, Faculty Development program, Shyam Lal College, Delhi University, 10th Dec- 16th Dec 2018. JNU-Deconstructing thrombosis at altitudes: An Indian translational story. 23 rd Refresher Course in Life Sciences & Biotechnology beginning from 8th October - 2nd November, 2018 at the UGC-HRDC, JNU.
9. The Science behind Color, Pearl Academy, NOIDA, October 2018.
10. DU-Deconstructing thrombosis at altitudes: An Indian translational story, Refresher Course, Department of Botany, University of Delhi, 24 July, 2018.
11. Mirnas: A Novel Therapeutic Diagnostic Tool Against Cardiovascular Diseases, Faculty Development Program On Genomics; Human Health (July 2– 7, 2018) Organized By Department Of Biotechnology, Jaypee Institute Of Information Technology, Sector-62, NOIDA.
12. The NLRP3 Inflammasome: A sensor for Vascular Perturbance? 11 th Symposium, ‘Frontiers in Biomedical Research’. This year, the symposium will be held from February 19 th to 21 st , 2018 , University of Delhi, Delhi-7.
13. AMU-Protein Biomarker: A Translational Research Success Story I am happy to bring to your kind notice that the UGC human resource development centre (HRDC), Aligarh Muslim University, Aligarh is organizing a Subject Refresher Course in Food and Biotechnology for Teachers in the Faculty of Science/Life Sciences/ Medicine/Biology and Allied Sciences from 31 January 2018 to 20 February 2018.
14. The NLRP3 Inflammasome, A Sensor for Vascular Perturbance? 11th symposium, ‘Frontiers in Biomedical Research, Ambedkar Centre for Biomedical Research, University of Delhi, 19-21 Feb, 2018
15. MicroRNAs in Cardiovascular System: From Physiology to Pathology, VII Congress of Federation of Indian Physiological Societies (FIPS) & XXIX Annual Conference of Physiological Society of India (PSI), Defence Institute of Physiology & Allied Sciences, DRDO, Delhi, India, 5<sup>th</sup>- 7th November 2017
16. The NLRP3 inflammasome: implications in the pathophysiology of vascular diseases: Molecular Medicines for Lifestyle Diseases: Emerging Targets and Approaches" CSIR-Central Drug Research Institute, Lucknow, UP-India November 20-21, 2017

17. miRNA: A novel therapeutic & diagnostic tool. Annual meeting Society for Biochemical Sciences, Jawaharlal Nehru University, New Delhi. 17 Nov, 2017.
18. Inflammasome : A new paradigm in Cardiovascular Diseases, International Conference on Recent Advances in Cardiovascular Research: Impact on Health and Disease VP Chest Instt, Univ. of Delhi, Delhi 10 Feb, 2017
19. MicroRNA Therapeutics: An Emerging Concept, National Seminar on Recent Advances in nvironmental Toxicology, Dept of Biosciences, JMI, Delhi, 13 Feb, 2017
20. MicroRNAs: A promising option against Cardiovascular Diseases. Annual Conf. Of International Society for Heart Research, IIT Madras, Chennai , 23 Jan, 2016
21. MicroRNAs: A Novel Therapeutic & Diagnostic Tool against Cardiovascular Diseases. Annual Conf – ACBICON, PGIMER, Chandigarh, Nov. 30, 2015
22. Inflammasome Complex Regulates the onset of Hypoxia Induced Thrombosis” 28<sup>th</sup> Annual Conference of Indian Society for Atherosclerosis Research, 30<sup>th</sup>, October 2015, Hamdard Institute of Medical Sciences & Research, Delhi.
23. “miRNA and Diseases” in 10<sup>th</sup> Aug, 2015, in 1<sup>st</sup> Refresher Course in Life Sciences & Biotechnology organized by Jawaharlal Nehru University, New Delhi.
24. MicroRNAs: A Novel Therapeutic & Diagnostic Tool against Cardiovascular Diseases. Annual Conf – ACBICON, PGIMER, Chandigarh, Nov. 30, 2015
25. Altered Platelet Proteins and Thrombosis: A Translational Research Success Story, 11 April 2015, Bio-Epoch 205, JNU
26. Developing micoRNA Based Therapeutic Against Thrombotic Disorders, March 14 2015, International Society for Heart Research, JNU
27. Calpain: A Novel Biomarker for Thrombosis and its Translational Application, Mar 10, 2015, Extension Lecture Series, Dept of Biosciences, JMI, Delhi
28. Altered Expression of Platelet Mediated Hypoxia induced prothrombotic phenotype & Their Translational Application, 26 Nov., 2014, 27<sup>th</sup> Annual Indian Society of Atherosclerosis Research, KJMU, Lucknow,
29. The Therapeutic Potential of miRNA: Opportunities and Obstacles” 16<sup>th</sup> Refresher Course in Biotechnology organized by Jawaharlal Nehru University, New Delhi 110067, on 13<sup>th</sup> Aug, 2014.
30. MicroRNA: Emerging Therapeutic Targets in Cardiovascular Diseases, 27<sup>th</sup> Annual
31. National Conference and International CME on Innovations in Atherosclerosis and Cardiac Diseases of Indian Society of Atherosclerosis Research, India, KJMC, Lucknow, 26 Nov., 2014
32. Chemotactic Mechanisms underlying Inflammation, National Symposium on Molecular & Ayurvedic Biology of Inflammation, BHU, Varansi, Feb7-9, 2014
33. Identification of Novel Biomarker for Venous Thromboembolism and its Translational Application, 40<sup>th</sup> National Conference of Association of Clinical Biochemists of India, Dec 2013, New Delhi
34. Clot Thickens: an altitude mystery, Global Hypoxia Summit, Aug 2012, Delhi.
35. Platelet Proteome and Receptors: Relevance in Thrombosis, International Conference on Angiogenesis: Basics and Applications to be held on 1-3<sup>rd</sup> Mar, 2012 at Anna University-KBC Research Centre, Chennai.
36. Coagulation beyond thrombosis, CEP on Haematology & Thrombosis, Delhi, 2012
37. Cardiovascular Diseases: An Indian Prospective, Keynote Address at NATIONAL WORKSHOP ON MOLECULAR BIOLOGY ON 18<sup>th</sup> to 19<sup>th</sup> FEB, at Jodhpur.
38. Oxidized phospholipids as biomarkers for diagnosis and prognosis of cardiovascular diseases. International Symposium on Atherosclerosis – From Bench to Bedside, Delhi
39. Pulmonary Embolism & deep vein thrombosis: A new dimension of high altitude disorder, International Leh Symposium 2010, Leh,

40. Oxidative Stress and Cardiovascular Diseases, CEP on Oxidative Stress, Delhi, 2009
41. Platelet Function and Assays, CEP on Basic techniques on Hematology, , Delhi, 2009.
42. High Altitude Induced Thrombotic Disorders: A Molecular Insight, Leh, Sept.,-2009
43. Fibrinolytic Pathways, CEP on Basic techniques on Hematology, Delhi, Dec., 2009.
44. Irwin Page Lecture Workshop Lecture 2008, Cleveland Clinic, Cleveland, OH, USA.
45. Recent developments in Molecular Cardiology & stem cell research, March, 2006. JMI, Delhi.
46. Molecular Mechanism of Endothelial Dysfunction, VP Chest Instt., Univ. of Delhi, Mar 2005

#### ABSTRACTS PRESENTED IN SYMPOSIA (*SELECTED*)

1. Hussain M.E., **Ashraf M.Z.**, Singh M. and Fahim M. Airway smooth muscle response to adenosine and isoproterenol in virus infected guinea pigs. *Proceedings of International Symposium on Sensory function of nervous system, 1997, INDIA.*
2. **Ashraf M. Z.**, Khan M.S.Y., Hakeem. A. H., Hussain M.E. and Fahim M., Effect of lipotab on vascular smooth muscle of rat. *Proceedings of National Symposium on Hyperlipidemias, 1997, INDIA,*
3. **Ashraf M. Z.**, Hussain M.E. and Fahim M., Endothelium mediated vasorelaxant effect of garlic is not mediated through nitric oxide. *Proceedings of International Congress on frontiers in Pharmacology and Therapeutics in 21<sup>st</sup> century, Delhi, 1999, INDIA*
4. **Ashraf MZ**, Hussain ME, Fahim M, Role of nitric oxide in reversible change in endothelial responses of hypercholesteremic animals. *Proceedings of 11<sup>th</sup> Annual Conference of Physiological Society of India, Delhi, 1999, INDIA*
5. Reddy MPK, **Ashraf MZ**, Fahim M, Hemodynamic responses of graded lower body negative pressure anaesthetized dogs. *Proceedings of 11<sup>th</sup> Annual Conference of Physiological Society of India, Delhi, 1999, INDIA*
6. Masood N, **Ashraf MZ**, Fahim M, Hussain ME, fatigue in skeletal muscles: effect of methylxanthine derivatives. *Proceedings of 11<sup>th</sup> Annual Conference of Physiological Society of India, Delhi, 1999, INDIA*
7. Bandyopadhyay S, Yang L, **Ashraf MZ**, DiCorleto PE, HOXA9 transcriptionally activates the endothelial cell-leukocyte adhesion molecule E-selectin. *FASEB JOURNAL* Volume: **19** Issue: **5** Pages: **A1060-A1060** Part: **Part 2 Suppl. S** Supplement: **Part 2 Suppl. S** Published: **MAR 7 2005**
8. **Mohammad Z. Ashraf**, Nil adri Kar, Robert G. Salomon, **Maria Febbraio** and Eugene A. Specific Oxidized Phospholipids Bind to Scavenger Receptor BI and Inhibit Selective Uptake of Cholesteryl Esters in Hepatocytes. *Arteriosclerosis Thrombosis And Vascular Biology* Volume: **28** Issue: **6** Pages: **E92-E92** Meeting Abstract: **P324** Published: **JUN 2008**
9. Niladri S. Kar, **Mohammad Z. Ashraf**, Manojkumar Valiyaveetil and Eugene A. Podrez Mapping of the Oxidized Low-Density Lipoprotein Binding Site of the Scavenger Receptor CD36. *Arteriosclerosis Thrombosis And Vascular Biology* Volume: **28** Issue: **6** Pages: **E95-E95** Meeting Abstract: **P340** Published: **JUN 2008**
10. Podrez EA, **Ashraf MZ**, Kar N, Byzova TV, **Febbraio M**, Valiyaveetil M. Oxidized high-density lipoprotein inhibits platelet activation and aggregation via scavenger receptor BI. *FASEB JOURNAL* Volume: **22** Issue: **5** Pages: **924.5** Published: **2008**
11. Podrez E.A., Kar N.S., Salomon R.G., **Febbraio M**, **Ashraf M.Z**, Specific Oxidized Phospholipids Bind to Scavenger Receptor BI and Inhibit Reverse Cholesterol Transport. *Proceedings of 15<sup>th</sup> International Vascular Biology Meeting, Sydney, Australia 2008*
12. **Mohammad Z. Ashraf**, Niladri S. Kar, Detao Gao, Maria Febbraio, Lawrence M. Sayre, Eugene A. Podrez, Specific Oxidized Phospholipids Induced Inhibition of HDL Mediated Cholesterol Efflux. *Arteriosclerosis Thrombosis And Vascular Biology Meeting 2009, Washington DC.*
13. Oxidized Phospholipids and Cardiovascular Diseases **M. Zahid Ashraf**, Div. of Cellular Biochemistry, Defence Institute of Physiology & Allied Sciences, Delhi, *International Conference on Natural Products and Biomedical Technology (ICNPBT-2011), Annamalai University, Chidambaram, Tamil Nadu, January 10 – 12, 2011.*

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