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**QUALIFICATIONS**

- Postdoctoral Fellowship, in Lipoproteins Pathophysiology and modeling, Division of Endocrinology, Emory University School of Medicine, GA USA, July 2005 to August 2006
- Postdoctoral Fellowship in Cardiovascular Research, Department of Obstetrics and Gynecology and Division of Cardiology, Emory University School of Medicine, GA USA, September 2001 to July 2005
- Doctor of Philosophy (Ph.D.), in Clinical Biochemistry, M.A. Medical College & G.B.Pant Hospital, University of Delhi, India, August 2001.
- Master of Science (M.Sc.), in Clinical Biochemistry, Grant Medical College & J.J. Group of Hospitals, University of Bombay, India, April 1994.
- Diploma in Nutrition & Dietetics DND, Institute of Health Care Administration, Madras (India), 1993.
- Diploma in Medical Laboratory Technology (MLT). The Bombay School of Medical Laboratory Technology Bombay (India), 1990.
- Bachelor of Science and Education (B.Sc.), in Biology, Faculty of Education, University of Khartoum, Sudan, May 1987.

**Certifications**

- Registered for AACC: Clinical Laboratory Leadership & Management Certificate Program - Fall 2009
- Point of Care Testing; certificate # 901457030, American Association for Clinical Chemistry, 2009

**AWARDS AND HONORS**

- Junior Investigator Travel Award, North America Vascular Biology Organization (NAVBO), USA , 2005
- Senior Research Fellowship Award, University Grants Commission (UGC), India, 2000-2001
- Junior Research Fellowship Award, University Grants Commission (UGC), India, 1997-1999

**MEMBERSHIP OF THE SCIENTIFIC BODIES**

- Member of the North American Vascular Biology Organization 2005
- Member of the American Association for Clinical Chemistry, USA 2004
- Member of the International Society of Fibrinogen, USA 2004
- Member of the American Heart Association, Council of the Atherosclerosis, Thrombosis and Vascular Biology 2004.
- Life Member of the Indian Society of Hematology and Transfusion Medicine (ISHTM) since 1998.
- Life Member of the Association of Clinical Biochemists of India (ACBI) since 1996.

**PROFESSIONAL EXPERIENCE**

- **Senior Clinical Scientist: May, 2008 to August 2009, Siemens Healthcare Diagnostics Inc,**  
Responsible for ensuring that analytical clinical chemistry/ Immunoassay methods are specific enough to meet the stated purpose and comply with the standard procedures

of CLSI, FDA and other regulatory bodies. I was involved in selecting trial sites, negotiate site payments, interact with investigators, gather and analyze data, perform pre launch studies and analysis. This is also involve good understanding of Quality Management System and integrates the knowledge of the quality policy and business objectives into work practices to augment the business gains and integrity ensuring the compliance with the FDA, ISO and IVDD standards to meet the clinical objectives of the methods.

- **Appointed as an observer for the Clinical and Laboratory Standards Institute subcommittee on Method Comparison and Bias Estimation Using Patient Samples, March, 2009.**
- **Junior Faculty (Research Scientist) and Lab Manager, September 2006 to May 2008, Ohio State University,** Division of Cardiothoracic Surgery, Ohio State University School of Medicine, Columbus, OH.  
My research was focused on Lipoproteins, antioxidants/oxidative stress and cardiovascular disease. This was involving spectrum of experiments designs, performance and supervision, employing in-vivo and in-vitro animal experiments, cell culture and biochemical models.  
Co-ordinate and manage the LCMS core facility located at Davis Heart and Lung Institute, Ohio State University, and manage Dr Parthasarathy research laboratories in the division of Cardiothoracic Surgery, Ohio state University Medical center.
- Participated on the OSU medical center division of Endocrinology academic activities, and the division research projects. Attended the division seminar series, and grant writing critics meetings. Mentored (1) Endocrinology fellow during his research project.
- **Senior Research fellow and Lab Manager, July 2005 TO August 2006**
- Emory Lipid Research Laboratory, Department of Medicine, Co-investigator in lipid disorder projects, and a clinical trial on the Effect of Rosuvastatin (Crestor) on Lipoprotein Metabolism in Humans.
- Coordinated, Lipid Research education program.
- Coordinated and Managed Emory Lipids Research Laboratory.
- Oversaw Laboratory compliance, Safety and adherence to the local and Federal regulations.
- Designed and executed experiments, and conducted validation studies.

#### **POSTDOCTORAL FELLOWSHIP, SEPTEMBER 2001 TO July 2005:**

- CO-investigator and coordinator for an NIH clinical trial on exercise at the Department of Obstetrics and Gynecology and later at the Division of Cardiology, Department of Medicine, Emory University School of Medicine, Mentor(s) Sampath Partasarathy, Ph.D., Biochemist with special expertise in antioxidants, macrophage biology, and lipid/lipoprotein metabolism and William S. Weintraub, M.D a Cardiology Epidemiologist.
- Oversaw general operation of the exercise study, participating in recruitment, testing, and follow-up. The study investigated the effect of diet, antioxidant supplementation and exercise on the oxidative stress markers in healthy human. Various markers like lipids, fatty acid components (PUFA and MUFA), MPO, sVCAM, OxLDL, Isoprostane and several other antioxidant and inflammatory respondents were studied.

- CO-investigator and a collaborator in The Early Correction of Anemia on the Progression of Chronic Kidney Disease Study, French based Clinical Trial with Emory University collaboration. The study investigated the possible relationship between Oxidative stress and Anemia in patient suffering from Kidney Disease (March 2004 to June 2006)
- CO-investigator in a project studied the effect of MUFA and PUFA diet, antioxidant and exercise in liver scavenger receptors gene expression and oxidative stress in mice.
- Worked Par time at the Division of Reproductive Endocrinology and Infertility, Crawford Long Hospital and Emory Health Care, Atlanta, GA, assisted the center director, and performed the clinic reproductive hormone analysis, June 2004 to February 2005.

### **Research Scholar (Ph.D., student) 1997-2001)**

- Department of Biochemistry, G.B. Pant Hospital & M.A. Medical College, and Delhi University. Research project titled: Effect of Nitric Oxide on Ca<sup>2+</sup> Influx and Platelet Behavior in Ischemic Heart Disease. The project primarily focused on platelet function, and platelet enzymes i.e. nitric oxide synthase and free radicals scavenging enzymes, investigating the interrelationship between oxidative stress and platelet NO signal transduction system in patients with ischemic heart disease (Supervisor: Jayashree Battacharjee MD, Professor and Head of the Department of Biochemistry, Lady Hardinge Medical College, New Delhi.
- Developed atherosclerotic rabbit models, and studied the hemodynamic responses of normal and atherosclerotic rabbits using nitric oxide donor (SNP), and inhibitor (L-NMMA).
- Performed experiments on platelet function, coagulation and Therapeutic Drug Monitoring Assays for G.B.Pant Hospital (February 1997 – April 2001).

### **Medical Laboratory Technician (April 1990 – October 1990)**

- Department of Pathology, G.T. Hospital, Bombay- India, worked in all divisions of laboratory medicine including: Hematology, Biochemistry, Serology, Blood Bank and Microbiology.

### **TECHNIQUES AND INSTRUMENTATION**

- Worked and developed animal models (Rabbits) for atherosclerosis, harvested organs and isolated and cannulated central ear artery for Hemodynamic studies using TDS 420A, Tektronix, also used Rabbits for raising antibodies.
- Worked extensively with mice models (C57BL WT and LDL -/-, atherosclerosis developing models, C3HeJ (atherosclerosis resistant mice). Fed various diets or drugs, exercised mice, isolated peritoneal macrophages, isolated entire aorta for microscopic and histochemistry studies.
- Great experience in fatty acids analysis and identifications.
- Good experience in cell culture and basic molecular biology, PCR, RTPCR, and immuno-blotting (Western Blot, South and Northern blot). Experience in blood cells isolation including platelets, lymphocytes and red blood cells, and related gene and enzymatic studies.
- Great working experience in lipoproteins isolation and oxidation techniques.

- Hands on experience in various instruments: ultra sensitive spectrophotometers, Atomic Absorption Spectrophotometer, ICP, fluorophotometer, Beckman ultra centrifuges, Gas Chromatography, FPLC, HPLC, LCMS, RIA, and ELISA Gamma and Beta counters, Dimension® RXL, Dimension® Vista, Coagulometer, Immulite/ Immulite® 1000(Siemens DX)for reproductive hormone assay, Ionized Calcium analyzer, Blood and Platelet Aggregometer, semi and full clinical Biochemistry auto analyzers (Hitachi, Olympus, and Beckman CX systems ), Luminex 2000 system and most of the routinely used instruments in Clinical Biochemistry, and molecular biology.
- Cell culture Techniques and Methods, Department of Gynecology and Obstetrics, Emory University, Atlanta, GA, USA

### **Computer Skills**

- Window Programs, Microsoft office and related applications, Adobe Photoshop(Advance Level), and SAS and S+ (entry Level), software associated with Applied Biosystems LCMS, Star, Varian GC, Shimadzu HPLC, and BioRad RTPCR iQ5

### **WORKSHOP & SYMPOSIUMS**

- Workshop on Prevention and Control of AIDS in General Hospitals held at Bombay, India, December 1992.
- Workshop on current trends in immunoassays, Hyderabad, India, January 1993.
- Workshop on the organization of clinical laboratory, 1993, Hyderabad, India January 1993.
- Workshop on Molecular Biology Techniques in Clinical Biochemistry and Medicine, Kottayam, India, December 1996.
- Workshop on the quality control programs in clinical biochemistry, Kottayam, India, December 1996.
- The 3<sup>rd</sup> Annual Research Retreat of the Department of Obstetrics and Gynecology, Emory University School of Medicine, Atlanta, GA, USA, September 2001
- The 4<sup>th</sup> Annual Research Retreat of the Department of Obstetrics and Gynecology, Emory University School of Medicine, Atlanta, GA, USA, October 2002.
- Symposium on: Inflammation and Cardiovascular Disease: From Theory to Clinic, HSC, Chicago, IL, USA, November 2002.
- Symposium on the 2<sup>nd</sup> Annual Diabetes Summit: Linking Science to Medicine, Chicago, IL, USA, November 2002.
- Symposium on the 3<sup>rd</sup> Annual Diabetes Summit: Linking Science to Medicine, Orlando, FL, USA, November 2003.
- Meeting on PPARs: Altering Clinical Responses in Type 2 Diabetes and Atherosclerosis, Orlando, FL, USA, November 2003
- Meeting on New Frontiers in Cardiovascular Disease Prevention and Risk Assessment, Orlando, FL, USA, November 2003

- Seminar on Bio-analytical Application in Mass Spectrometry, Sponsored by Thermo-Electronic Cooperation, Emory University and University of Florida. Atlanta, GA, USA March 2004
- Workshop on Management of Lipoprotein Disorders, Callaway Gardens, GA, USA April 23-25, 2004
- Workshop on Metabolic Syndrome: An Obesity-Related National Epidemic, Mechanisms, Clinical care and Future Direction, Atlanta, GA, USA May 21-22, 2004
- Symposium on: Atherogenic Dyslipidemia and Vascular Inflammation: The Role of PPAR $\alpha$  Activation, New Orleans Louisiana, USA, November 2004.
- Siemens Health Care Diagnostics Training on Dimension  $\text{\textcircled{R}}$  Vista, September 2008
- Building Clinical Diagnostics Business Acumen training, March 2009

### **CONFERENCES**

- Attended the 19<sup>th</sup> Annual Conference of the Association of Clinical Biochemists of India, Hyderabad, India, January 1993.
- Attended the 23<sup>rd</sup> Annual Conference of the Association of Clinical Biochemists of India, Kottayam, December 1996.
- Attended the 3<sup>rd</sup> International Symposium on Atherosclerosis, Thrombosis, & Transfusion Medicine Delhi, October 1998.
- Attended the 11<sup>th</sup> Annual Conference of the Indian Society for Atherosclerosis Research, Delhi, India, November 1998.
- 25<sup>th</sup> Annual National Conference of the Association of Clinical Biochemists of India, Pune, India, December 1998.
- 11<sup>th</sup> Annual Conference of the Physiological Society of India, Delhi India, November 1999.
- 40<sup>th</sup> Annual Conference of Indian Society of Hematology and Transfusion Medicine. Pune, India, December 1999.
- 1<sup>st</sup> National Conference of Laboratory Medicine Delhi, India, January 2000.
- 9<sup>th</sup> National Conference of the Association of Medical Biochemists of India, Delhi, India, December 2000.
- Worked with the organizing secretariat of the AMBI 9<sup>th</sup> Conference conducted by the Department of Biochemistry, G.B. Pant Hospital, Delhi, December 2000.
- Attended the Scientific Sessions 2002 of the American Heart Association, Chicago, Illinois, USA, November 2002.
- Attended the Scientific Sessions 2003 of the American Heart Association, Orlando, Florida, USA, November 2003.

- Attended the 5<sup>th</sup> Annual conference on Atherosclerosis, Thrombosis and Vascular Biology, Sponsored by AHA, San Francisco, USA May 2004
- Attended the XVIIIth International Fibrinogen Workshop, Chapel Hill, USA July 2004
- Attended the Scientific Sessions 2003 of the American Heart Association, New Orleans Louisiana, USA, November 2004.
- Attended the 6<sup>th</sup> Annual conference on Atherosclerosis, Thrombosis and Vascular Biology, Sponsored by AHA, Washington DC, USA April 2005
- Attended the Annual Scientific Sessions of the Vascular Biology and Medicine organization, Chicago, June 2005
- Attended the IFCC-AACC international conference, Orlando, Florida, USA, July 2005.
- Attended the 7<sup>th</sup> Annual conference on Atherosclerosis, Thrombosis and Vascular Biology, Sponsored by AHA, Denver, CO, USA April 2006
- Attended the AACC international conference, Chicago, IL, USA, July 2006.
- Attended the 8<sup>th</sup> Annual conference on Atherosclerosis, Thrombosis and Vascular Biology, Sponsored by AHA, Chicago, IL, USA April 2007
- Attended the 14<sup>th</sup> Annual conference of SFRBM, Washington, DC, USA November, 2007
- Attended the AACC international conference, Washington, DC, USA, July 2008.

**Lectures and Presentations:**

- Women Exercise, and cardiovascular diseases: Presented in the Klassan Research day, Ohio State University Medical center April 2007
- Formation of High Density Lipoproteins Containing Both Apolipoprotein A-I and A-II in the Rabbit, presented to Emory lipid Research group, Division of Endocrinology, March 2006
- Proteomics science and its application in Cardiovascular disease, Department of Laboratory Sciences, North Michigan University, June 2005
- Effect of Oxidation on the Platelet-Activating Properties of Low-Density Lipoprotein, , presented to Emory lipid Research group, Division of Endocrinology, July 2006
- Antioxidant Availability and Low Density Lipoprotein Oxidation in Chronic Exercisers, department of Laboratory Medicine, Vanderbilt University School of Medicine November 2005
- Exercise and Oxidative Stress: Any Role for Vitamin E?, Division of Endocrinology, Emory University school of Medicine, July 2005
- Exercise as an Oxidative stress, what are the benefits, Department of Laboratory Medicine, Louisville University School of Medicine, April 2005

- Dietary oxidized linoleic acid lowers triglycerides via APOA5/APOCIII dependent mechanisms: SFRBM, Washington, DC, November, 2007
- Atherosclerosis and Cardiovascular disease, novel markers and new fronts; Alimam Almahdi University, College of Medicine, Sudan April 2008

### **BROADCASTED RADIO SCIENTIFIC TALKS**

Presented to All India Radio, and broadcasted under the health program the following talks:

- Risk Factors in Coronary Heart Disease, Broadcasted on April 24, 2001
- Cholesterol and Human Body, Broadcasted on November 28, 2000
- Medicine and related sciences, Broadcasted on June 27, 2000.

### **Reviewer for Peer reviewed journals:**

- Arteriosclerosis Thrombosis and vascular Biology (ATVB)
- Journal of Physical Activity and Health
- Clinical Biochemistry
- Archives of Medical Science
- The Open Cardiovascular Medicine Journal

### **Committees and scientific activities**

- Observer for the CLSI subcommittee on Method Comparison and Estimation of Bias using patient sample

### **PUBLISHED ABSTRACTS AND PAPERS**

1. **Mahdi Garelnabi** and Pushpa Pradhan: Glutathione metabolism in  $\beta$  thalassaemia, proceeding of the Association of Clinical Biochemist of India, annual meeting, **1996**.
2. **Mahdi Garelnabi** and Pushpa Pradhan: Levels of trace elements in  $\beta$  thalassaemia major, proceeding of the Association of Clinical Biochemist of India, annual meeting December **1996**.
3. **Mahdi Garelnabi**, Jayashree Bhattacharjee and Medha Jain Platelet function in patients of chronic renal failure undergoing ambulatory peritoneal dialysis. Proceeding of the Association of Clinical Biochemist of India, annual meeting December **1998**.
4. **Mahdi Garelnabi**, Vinod Gupta, Jayashree Bhattacharjee and V Mallika, Platelet function in ischemic heart diseases: Effect of Nitric Oxide, Proceeding of 11<sup>th</sup> Annual Conference of the Physiological Society of India, Delhi India, November **1999**.
5. **Mahdi Garelnabi** and Jayashree Bhattacharjee, Study of Coagulation Cascade in Children with Congenital Heart Disease, Proceeding of 40<sup>th</sup> Annual Conference of Indian Society of Hematology and Transfusion Medicine. Pune, India, December **1999**.
6. **Mahdi, O.H.** and Pardhan, P.S: Study of trace elements status in splenectomized beta thalassaemia major children. **Ind. J. Hemat. Blood Trans. 17: 92-94. 1999**
7. **Mahdi O Garelnabi**, Medha, G., Bhattacharjee, J., Khalil, A., Shome, D., Mallika, V. Study of coagulation cascade in children with congenital heart disease, **Ind. J. Hemat. Blood Trns. 17(1): 12; 1999**
8. **Mahdi Garelnabi.**, Bhattacharjee, J., Kaul, U.A., Narendra, K., Gupta, V.K. Mallika, V., Effect of nitric oxide and ionized  $Ca^{2+}$  on platelet function in MI, **J. Lab. Med. 1: 46, 2000**

9. **Mahdi Garelnabi**, Vinod Gupta, U A Kaul, Jayashree Bhattacharjee and V Mallika Platelet nitric oxide – cGMP signal transduction in ischemic heart disease, Proceeding of the 9<sup>th</sup> National Conference of the Association of Medical Biochemists of India, Delhi, India, December **2000**.
10. **Mahdi O Garelnabi**, Jill White-Welkley, Emir Veledar, Jerome Abramson, Katherine Alexander, Brandon Petro, Nancy Murrah, William Weintraub, and Sampath Parthasarathy, Linolenic Acid is associated with Oxidative stress in Healthy women, **Arterioscler Thromb Vasc Biol. 24 (5): E67, 95, May 2004**.
11. **Mahdi Garelnabi**, Jayashree B, Vinod VK, Kaul U, Mallika V, Enhanced Platelet Activity and Nitric Oxide-cGMP System in Ischemic Heart Diseases, **Arterioscler Thromb Vasc Biol. 24 (5) : E117, 381, May 2004**.
12. **Mahdi Garelnabi**, Jayashree B, Vinod VK, Anita K, Usha U, Kaul U, Mallika V, Enhanced Platelet Activity and Disrupted NO Release in Hypercholesterolemia-Induced Atherosclerosis in Rabbits, **Proceeding of the XVIIIth International Fibrinogen Workshop, USA July 2004**
13. **Mahdi Garelnabi**, Jayashree B, Vinod VK, Kaul U, Mallika V Platelet cGMP and Ionized Calcium In patients with Ischemic Heart Disease, **Proceeding of the XVIIIth International Fibrinogen Workshop, USA July 2004**
14. Claudine Jurkovitz, **Mahdi Garelnabi**, Jerome Rossert, Dieter Frei, and William McClellan, Is There an Association between Kidney Function and Oxidative Stress? Results from the Early Correction of Anemia on the Progression of Chronic Kidney Disease Study. **J Am Soc Nephrol 15: 584A, 2004**
15. **Mahdi O Garelnabi**, Jayashree Bhattacharjee, Vinod Gupta, V Mallika, Platelet antioxidant activity and Nitric Oxide signaling system in Ischemic Heart Disease. **Circulation 110: (17) , III-217, 2004**
16. Emir Veledar, **Mahdi Garelnabi**, Jerome Abramson, Drex Earle, Jill White-Welkley, Sampath Parthasarathy, William Weintraub, Effect of Vitamin E and Gender on Change in Levels of HDL and LDL among Healthy Exercisers: A Randomized Trial, **Circulation Vol 111: (4), E-62 -P66, 2005**
17. **Mahdi O Garelnabi**, Pushpa S Pardhan, Splenectomy may not influence Glutathione Metabolism in Children with  $\beta$  Thalassaemia Major, **Turk J Haematol 2005;22(1),25-30**
18. **Mahdi O Garelnabi**, Emir Veledar, Jerome Abramson, Drex Earle, Abdelmoniem Younis, Brandon Petro, Jill White-Welkley, William Weintraub, and Sampath Parthasarathy, Effect of Sex Hormones and Vitamin E on Exercising women Oxidative Stress Status A Randomized Clinical Trial **Arterioscler Thromb Vasc Biol. Biol. 25 (5): E100, May 2005**
19. **Mahdi O Garelnabi**, Emir Veledar, Jerome Abramson, Drex Earle, Brandon Petro, Jill White-Welkley, William Weintraub, and Sampath Parthasarathy, Effect of Exercise Induced Oxidative Stress and Vitamin E on Levels of LDL and HDL **Arterioscler Thromb Vasc Biol. Biol. 25 (5): E99-E100, May 2005**
20. **Mahdi Garelnabi**, Jayashree B, Vinod VK, Anita K, Usha U, Kaul U, Mallika V, Study Of Platelet Signaling System And Hemodynamic Response In Hypercholesterolemia-induced Atherosclerosis In Rabbits **Arterioscler Thromb Vasc Biol. 25 (5): E84, 2005**

21. Wei C, Penumetcha M, Santanam N, Liu YG, **Garelnabi Mahdi**, Parthasarathy S., Exercise might favor reverse cholesterol transport and lipoprotein clearance: Potential mechanism for its anti-atherosclerotic effects, **Biochimica et Biophysica Acta** **1723** 124– 127, (2005)
22. **Mahdi O Garelnabi**, Emir Veledar, Jerome Abramson, Drex Earle, Brandon Petro, Jill White-Welkley, William Weintraub, and Sampath Parthasarathy,, Changes in Plasma sVCAM Associate With Levels of Fitness in Women, **Vascular Medicine** **10:155**, 2005
23. **Mahdi O Garelnabi**, Emir Veledar, Jerome Abramson, Drex Earle, Brandon Petro, Jill White-Welkley, William Weintraub, and Sampath Parthasarathy,, Effect of Vitamin E supplementation and Exercise on plasma CRP and MCP-1 levels, **Vascular Medicine** **10:155-156**, 2005
24. **Mahdi Garelnabi**, Jayashree Bhattachrjee, Effect of Nitric Oxide Donor and inhibitor Agents on Platelet Function in Atherosclerotic rabbits, **Vascular Medicine** **10:150**, 2005
25. **Mahdi Garelnabi** and Sampath Parthasarathy, Improvement in Plasma lipid is Associated with decreased TNF Alpha Levels, **Vascular Medicine** **10:138**, 2005
26. **Mahdi O Garelnabi**, Emir Veledar, Jerome Abramson, Abdelmoniem Younis, Drex Earle, Brandon Petro, Jill White-Welkley, William Weintraub, and Sampath Parthasarathy, Sex Hormones and Oxidative Stress Markers in Exercising Women: A Randomized Clinical Trial., **Clinical Chemistry**, **51 (6) A4**, 2005
27. **Mahdi O Garelnabi**, Jayashree Bhattacharjee, Vinod Gupta, V Mallika, Impact of Nitric Oxide and Lipid Peroxidation in Patients of Ischemic Heart Disease, **Clinical Chemistry**, **51 (6) A6**, 2005
28. **Mahdi O Garelnabi**, Jill White-Welkley, Jerome Abramson, Emir Veledar, William Weintraub, Sampath Parthasarathy, Impact of Diet, Antioxidant, and Exercise-Induced Oxidative Stress on Lipids: A Randomized Double-Blind Trial; **Circulation** **Vol 113, No 8 (2) E362**, 2006
29. **Mahdi O Garelnabi**, Emir Veledar, Jerome Abramson, Jill Welkely, William Weintraub, Sampath Parthasarathy, Reduced Level of Fitness Contribute Towards the Development of Metabolic Syndrome. **Arterioscler Thromb Vasc Biol. Biol.** **26 (5) E 83**, May 2006
30. **Mahdi O Garelnabi**, Abdelmoniem Younis, Emir Veledar, Jerome Abramson, Jill White-Welkley, William Weintraub, Sampath Parthasarathy, Higher Estrogen Levels Protect Against Oxidative Stress Induced by Exercise, **Arterioscler Thromb Vasc Biol. Biol.** **26 (5) E 100**, May 2006
31. **Mahdi Garelnabi**, D. Earle, S. Parthasarathy Effect of Antioxidant Supplementation on Exercising Men and Women Lipids. **Clinical Chemistry**, **52 (6) A113**, 2006
32. **Mahdi Garelnabi**, A. Matthew, M. Walter, P. Fu, W. Davis, A. Le, V. W. Brown Colorimetric Assay for Free Oxygen Radicals as Marker of Oxidative Stress. **Clinical Chemistry**, **52 (6) A127**, 2006
33. **Mahdi O Garelnabi**, Priscilla Jaichander, Nadya Khan-Merchant, Sampath Parthasarathy Diet enriched with oxidized fatty acids lower triglycerides levels in mice , **Arterioscler Thromb Vasc Biol. Biol.**,**P313:111**, April 2007

34. **Mahdi Garelnabi**, Priscilla Jaichander and Sampath Parthasarathy, Dietary oxidized fatty acid decreases TG levels in WT mice, **Proceeding of the DHRLI annual meeting, Ohio State University, P56: April 2007**
35. **Mahdi Garelnabi** and Sampath Parthasarathy, Effects of fitness levels on lipids and inflammatory markers in healthy individuals: Gender differences, **Proceeding of the DHRLI annual meeting, Ohio State University, P 57: April 2007**
36. Priscilla Jaichander, Krithika Selvarajan, Dimitri Litvinov, **Mahdi Garelnabi** and Sampath Parthasarathy. Novel Mechanism(S) by Which Asprine Might Inhibit Atherosclerosis, **Proceeding of the DHRLI annual meeting, Ohio State University , P58, April 2007**
37. Chen Wei, Meera Penumetcha, **Mahdi Garelnabi**, Ya-Guang Liu, Nalini Santanam, and Sampath Parthasarathy, Could exercise influence cardiovascular diseases via the generation of natural PPAR ligands? **Frontiers in Bioscience, 12: 8, MAY 1, 2007**
38. **Mahdi Garelnabi**, Krithika Selvarajan, Dmitry Litvinov<sup>1</sup>, Nalini Santanam, and Sampath Parthasarathy, Dietary supplementation of oxidized linoleic acid lowers triglycerides in mice through ApoCIII/ApoA5 dependent mechanism, **Free Rad Biol Med, 43, 108-109, 2007**
39. **Mahdi Garelnabi**, Dmitry Litvinov, and Sampath Parthasarathy, Gas Chromatographic determination of azelaic acid in selected samples preparations **Free Rad Biol Med, 43, 176, 2007**
40. Sampath Parthasarathy, **Mahdi Garelnabi**, Krithika Selvarajan, Dmitry Litvinov, Alex Aldrich, Dietary oxidized lipids and atherosclerosis: Is there a silver lining around a dark cloud? **Polish J. of atherosclerosis, 10, 12-2007**
41. Susan D. Moffatt-Bruce, M.D. Ph.D., **Mahdi Garelnabi**, Ph.D., David Nunley, M.D., Karen Wood, M.D., Patrick Ross, M.D., Ph.D. Onset of Brochiolitis Obliterans Syndrome Predicted by Elevated Plasma IL-6 and IFN $\gamma$  levels, **International Heart and Lung transplant, Vol. 27, 2, S218, 2008**
42. Sampath Parthasarathy, Dmytri Litvinov, Krithika Selvarajan, **Mahdi Garelnabi**, Lipid peroxidation and decomposition – Conflicting roles in plaque vulnerability and stability, **Biochimica et Biophysica Acta 1781, 221–231, 2008**
43. Priscilla Jaichander, Shik Wisel, Krithika Selvarajan, **Mahdi Garelnabi**, and Sampath Parthasarathy, Induction of Paraoxnase 1 by Asprine in cultured liver cells. **Arterioscler Thromb Vasc Biol. Biol. 28 (4) P 150, April 2008**
44. Shik Wisel, Priscilla Jaichander, Krithika Selvarajan, Dmitry Litvinov, Larissa Brophy, Sainath babu, **Mahdi Garelnabi**, Sai Sudhakar, Pawel Kwiatkowski, Benjamin Sun, and Sampath Parthasarathy, BNP Gene and protein expression in the heart of sheep: A preclinical congestive heart failure model **Arterioscler Thromb Vasc Biol. Biol. 28 (4) P 200, April 2008**
45. Dmitry Litvinov, **Mahdi Garelnabi**, Sampath Parthasarathy, Lipid peroxide decomposition product azelaic acid may promote calcification in atherosclerosis **Arterioscler Thromb Vasc Biol. Biol. 28 (4) P 276, April 2008**
46. Priscilla Jaichander, Shik Wisel, Krithika Selvarajan, **Mahdi Garelnabi**, and Sampath Parthasarathy, Induction of Apolipoprotein A1 gene expression by Aspirin and salicylate. **Arterioscler Thromb Vasc Biol. Biol. 28 (4) P338, April 2008**

47. Susan Moffatt-Bruce, John Cannon, **Mahdi Garelnabi**, Zinc Supplementation Promotes the Prevention of Allograft Rejection by Decreasing IFN $\gamma$  and IL-6 Levels, **11th ANNUAL BRITISH TRANSPLANTATION SOCIETY, P36: April 2008**
48. **Mahdi Garelnabi**, Krithika Selvarajan, Dmitry Litvinov, Nalini Santanam, Sampath Parthasarathy, Dietary oxidized linoleic acid lowers triglycerides via APOA5/APOCIII dependent mechanisms: **Atherosclerosis, 199:304–309, 2008**
49. Constantine Kroustos, Sampath Parthasarathy, **Mahdi Garelnabi**, Dara Schuster, Ethnic Differences of Oxidized LDL in Type 2 Diabetes Prior to and After Chronic Exercise, **DIABETES ,57, A 651-A652, 2008**
50. Jaichander Pricilla, Selvarajan Krithika, **Garelnabi Mahdi**, Parthasarathy Sampath. Induction of paraoxonase 1 and apolipoprotein A1 gene expression by aspirin. **J. Lipid Res. 49: 2142–2148, 2008**
51. **Mahdi Garelnabi**, Virgil Brown, Ngoc-Anh Le, PhD, Evaluation of a novel colorimetric assay for free oxygen radicals as marker of oxidative stress, **Clin Biochem. 41, 1250-1254, 2008**
52. Achuthan Raghavamenon, **Mahdi Garelnabi**, Sainath Babu, Alex Aldrich, Dmitry Litvinov, and Sampath Parthasarathy  $\alpha$ -Tocopherol Is Ineffective in Preventing the Decomposition of Preformed Lipid Peroxides and May Promote the Accumulation of Toxic Aldehydes: A Potential Explanation for the Failure of Antioxidants to Affect Human Atherosclerosis: **Antioxid. Redox Signal. 11, 1237–1248, 2009**

#### **Submitted Papers:**

**The following papers are currently under review in peer reviewed journals**

1. **Mahdi Garelnabi**, Emir Veledar, Jerome Abramson, Nalini Santanam , Jill White-Welkley, William Weintraub, and Sampath Parthasarathy, Physical inactivity and cardiovascular risk: Baseline observations from men and pre-menopausal women.
2. **Mahdi Garelnabi**, Dmitry Litvinov, Sampath Parthasarathy, Gas Chromatography simultaneous determination of azelaic acid in selected samples preparations
3. **Mahdi Garelnabi**, Vinod Gupta, Venkatesan Mallika, Jayashree Bhattacharjee, Platelets oxidative stress in Indian patients with ischemic heart disease.
4. **Mahdi Garelnabi**, Vinod Gupta, Venkatesan Mallika, Jayashree Bhattacharjee, Enhanced platelet activity and nitric oxide-cGMP system in Indian patients with **coronary artery disease**
5. Dmitry Litvinov, Krithika Selvarajan, **Mahdi Garelnabi**, Larissa Brophy, Sampath Parthasarathy; Anti-atherogenic actions of azelaic acid, an end product of fatty acid peroxidation.
6. **Mahdi Garelnabi**, Emir Veledar, Jerome Abramson, Nalini Santanam , Jill White-Welkley, William Weintraub, and Sampath Parthasarathy Vitamin E differentially affects the short term exercise induced changes in oxidative Stress, lipids, and inflammatory markers: A double blind randomized controlled trial

7. Mahdi Garelnabi and Emir Veledar, Beside inflammation and oxidative stress, what else we know that can influence atherosclerosis pathophysiology, **Review under consideration**

#### **Papers in preparation**

1. **Mahdi Garelnabi**, Vinod Gupta, Venkatesan Mallika, Jayashree Bhattacharjee, Effect of hypercholesterolemia-induced atherosclerosis on nitric oxide role on platelets function and hemodynamic response in rabbits.
2. **Mahdi O Garelnabi**, Emir Veledar, Jerome Abramson, Drex Earle, Brandon Petro, Jill White-Welkley, William Weintraub, and Sampath Parthasarathy, Role of female's hormones on lipid changes induced by exercise (Paper in preparation).
3. **Mahdi Garelnabi**, Vinod Gupta, Venkatesan Mallika, Jayashree Bhattacharjee, Studies on the effect of nitric oxide on platelets and hemodynamic in hypercholesterolemic rabbits.

#### **BOOK CHAPTERS**

- Sampath Parthasarathy, Meera Penumetcha, **Mahdi Garelnabi**, Nalini Santanam. The Oxidation Paradox in Atherosclerosis, In: Coronary Artery Disease: Risk Promoters, Pathophysiology and Prevention, Jaypee Brothers (P) LTD, New Delhi, ISBN: 81-8061-450-6, 2005
- Sampath Parthasarathy, Achuthan C. Raghavamenon, **Mahdi Garelnabi**, and Nalini Santanam, Oxidized Low Density Lipoprotein, **Free Radicals and Antioxidant Protocols**; Series: Methods in Molecular Biology, Vol. 610 Uppu, R.M.; Murthy, S.N.; Pryor, W.A.; Parinandi, N.L. ISBN: 978-1-58829-710-5, 2009