

# Mohammad Reza Safari

*Free Radicals - Antioxidants - Protein Purification -  
Biochemical Factors in Cardiovascular Diseases*

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**37 Articles. 2 Books. 75 Conferences. 29 Research projects. 4 Theses supervision.**

## **I) Articles:**

- 1-Antioxidant Effects Of Lycopene And Ubiquinol-10 On The Oxidative Stress In Rat Hepatocytes Induced By Tert-Buthyl Hydroperoxide .** The Journal of the International Federation of Clinical Chemistry and Laboratory Medicines (eJIFCC). 2010;21(1-5).
- 2-The Effects of Volatile Oils on Low Density Lipoprotein Glycation by Model System In Vitro .** Advances in Pharmacological Sciences. 2010.
- 3-The Study Of Hemodialysis Effectiveness On The Change Rate Of Lipid Peroxidation And L-Carnitine Level In Hemodialysis Patients.** The Journal of the International Federation of Clinical Chemistry and Laboratory Medicines (eJIFCC). 2010;21(1).
- 4-Changes in Sialation of Low-density Lipoprotein in Coronary Artery Diseases .** European Journal of Lipid Sciences and Technology. 2008;110(4):302-306.
- 5-Inhibitory Activity of Vitamins on the Susceptibility of Albumin to Glycation Reaction .** Jundishapur Journal of Natural Pharmaceutical Products. 2008;4(1):13-17.
- 6-Effect of Ubiquinol-10 on the Affinity of LDL to its Receptor: A Model for Prevention of Atherosclerosis .** Iranian Journal of Pharmaceutical Research. 2007;6(4):259-264.
- 7-Effects of Lycopene on the Susceptibility of Low-Density Lipoprotein to Oxidative Modification.** Iranian Journal of Pharmaceutical Research. 2007;6(3):173-177.
- 8-L-Carnitine Level in Seminal Plasma of Fertile and Infertile Men .** Journal of Research in Health Sciences. 2007;7(1):43-48.
- 9-Study of the Effect of Hemodialysis on Lipid Peroxidation Changes .** Journal of Sabzevar of Medical Sciences. 2007;14(2):89-94.
- 10- The Effect of Alpha-tocopherol on Copper Binding to Low Density Lipoprotein .** Iranian Journal of Pharmaceutical Research. 2006;5(3):209-214.
- 11-Cytotoxic Effect of Glycated Albumin-Transition Metal Ion on Rat Hepatocyte**

- Suspension** . *Iranian Biomedical Journal*. 2006;10(3):139-144.
- 12- Development of a Method for Measuring Reactive Oxygen Radicals Levels In Vitro and Study the Effects of Vitamins C and E on Radical Production Reaction.** *Yaft-e: Quarterly Research Journal Of Lorestan University of Medical Sciences & Health Services*. 2006;7(25):23-30.
- 13- Effects of Fructose on Plasma Lipids in Male Rats** . *Armaghane-Danesh(Quarterly Journal of Yasuj University of Medical Sciences)*. 2006;11(1):9-16.
- 14- Inhibitory Action of Vitamin C and Manitol on Induced Cytotoxic Effect of Glycated Protein-Metal Ion on Rat Hepatocyte.** *International Journal of Pharmacology*. 2006;2(2):201-204.
- 15- Inhibitory Activity of Flavonoids on the Lens Aldose Reductase of Healthy and Diabetic Rats** . *Acta Medica Iranica*. 2006;44(1):41-45.
- 16- Study of Plasma Malondialdehyde, Troponin I and C-Reactive Protein in Acute Coronary Syndromes Patients** . *Scientific Journal of Hamedan University of Medical Sciences & Health Services*. 2006;13(1):61-65.
- 17- Study on the Effect of Vitamin C on the In Vitro Albumin Glycation Reaction** . *Iranian Journal of Pharmaceutical Research*. 2006;5(4):275-279.
- 18- Advanced Glycation Products and TBARS in Gingival Tissue of Diabetic and Non-diabetic Patients with Periodontitis.** *Medical Journal of the Islamic Republic of Iran*. 2005;19(2):139-144.
- 19- Effects of UQ-10 and B-carotene on the in vitro susceptibility of LDL to Cu-induced oxidation** . *Medical Journal of the Islamic Republic of Iran*. 2005;19(2):167-172.
- 20- Monitoring of Serum NO in Patients with Acute Leukemia.** *Iranian Journal of Pharmaceutical Research*. 2005;4(4):233-238.
- 21- Effect of Some Volatile Oils on the Affinity of Intact and Oxidized Low-Density Lipoproteins for Adrenal Cell Surface Receptors** . *Molecular Cell Biochemistry*. 2004;267:59-66.
- ۲۲- The Effects of Garlic Extract on Albumin Glycation In Vitro** . *Iranian Acta Medical*. 2004;2(1):16-18.
- 23- The Effects of Tumeric, Cardamon & Ginger on Albumin Glycation In Vitro** . *Scientific Journal of Hamedan University of Medical Sciences & Health Services*. 2004;10(3):47-50.
- 24- Effect of Some Flavonols on the Susceptibility of LDL to Oxidative Modification** . *Indian Journal of Biochemistry & Biophysics*. 2003;40(1):358-362.
- 25- Effects of Somac, Cinnamum & Black Pepper on Albumin Glycation In Vitro** . *Journal of Medical Plants*. 2003;2(7):11-17.
- 26- Effects of Vitamin E and Volatile Oils on the Susceptibility of LDL to Oxidative Modification** . *Iranian Biomedical Journal*. 2003;7(2):79-84.
- 27- The Effect of Flavonoids on the Susceptibility of LDL to Oxidative Modification** . *Prostaglandins, Leukotrienes and Essential Fatty Acids*. 2003;69(1):73-77.
- 28- Comparison of Lipid Peroxidation Plasma Levels in NIDDM and Non-diabetic Subjects** . *Pajuhan*. 2002;7:5-9.
- ۲۹- Effect of Some Essential Oils on Albumin Glycation In Vitro** . *Journal of Medical Plants*. 2002;1(3):79-84.
- 30- Study on the Effect of Some Pure Plant Volatile Oils on the Affinity of Native and Oxidized-LDL to its Receptor on the Adrenal Cells.** *Journal of Medical Plants*. 2002;1(1):11-18.

- 31- The Effect of Flavonoids on the Affinity of Oxidized-LDL to its Receptor** . *Medicine Journal of Uromia University of Medical Sciences*. 2002;13(1):51-58.
- 32- The Effect of Volatile Oils and Vitamin C on the Affinity of LDL to its Receptor: A Model for Prevention of Atherosclerosis** . *Medicine Journal of Hamedan University of Medical Sciences*. 2002;8(4):32-36.
- 33- The Effects of Lipophilic Antioxidants on the Affinity of LDL to its Receptor : A Model for Prevention of Atherogenesis** . *Iranian Biomedical Journal*. 2002;6(4):115-119.
- 34- A simple and rapid method for determining the affinity of LDL to it's receptor** . *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*. 2001;33(6).
- 35- Have flavonoids effect on the affinity on native LDL to its receptor?** . *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*. 2001;33(6).
- 36- Oxidized-LDL affinity for LDL receptor is increased in the presence of flavonoids** . *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*. 2001;33(6).
- 37- Changes in sialylation of low density lipoprotein in coronary artery disease** . *European Journal of Lipid Science and Technology*.

## **II) Books:**

- 1- Molecular Mechanism of Alzheimer Disease** . *Hamedan University of Medical Sciences and Health Services*. 2004.
- 2- Free Radicals in Biological Systems** . *Hamedan University of Medical Sciences and Health Services*. 2002.

### III) Conferences:

1- Antioxidant Effects of Quercetin on the Oxidative Stress in Rat Hepatocytes Induced by t-Buthyl Hydroperoxide . *11th Iranian National Congress of Biochemistry. 2011; Iran – Qazvin.*

2- CYTOTOXIC EFFECTS OF "INDOLE-3-ACETIC ACID AND TURNIP PEROXIDASE" AND "INDOLE-3-ACETIC ACID AND HORSERADISH PEROXIDASE" SYSTEMS ON HUMAN COLON CANCER HT2G CELLS . *21st International Congress of Clinical Chemistry and Laboratory Medicine. 2011; Germany , Berlin.*

3- Plasma Total Antioxidant Capacity Levels in Smokers & Non-smokers in Hamedan University of Medical Sciences Workers. *11th Iranian National Congress of Biochemistry. 2011; Iran – Qazvin.*

4- Result of educational evaluation concerning laboratory medicine department in Hamedan University of Medical Sciences and Health Services. *The 4th International & 9th National Congress on Quality Improvement in Clinical Laboratories. 2011; Iran – Tehran.*

5- Role of the Laboratory in Diabetes Mellitus . *The 4th International & 9th National Congress on Quality Improvement in Clinical Laboratories. 2011; Iran – Tehran.*

6- Strategic development and SWOTs analysis at the Paramedicine Faculty in Hamedan University of Medical Sciences and Health Services.

*The 4th International & 9th National Congress on Quality Improvement in Clinical Laboratories. 2011; Iran -Tehran*

7- THE COMPARISON OF "INDOLE-3-ACETIC ACID/TURNIP PEROXIDASE" AND "INDOLE-3-ACETIC ACID/ HORSERADISH PEROXIDASE" SYSTEMS ON HUMAN COLON CANCER HT2G CELLS VIABILITY. *21st International Congress of Clinical Chemistry and Laboratory Medicine. 2011; Germany , Berlin.*

8- The Effects of Theaflavins on Low Density Lipoprotein Glycation by Model System In Vitro . *21st International Congress of Clinical Chemistry and Laboratory Medicine. 2011; Germany – Berlin.*

9- Antioxidant Effects of Aspirin on the Oxidative Stress in Rat Hepatocytes Induced by t-Buthyl Hydroperoxide L

*12th Iranian Pharmaceutical Sciences Congrress. 2010; Iran, Zanjan*

11- Antioxidant Effects of Flavonoids on the Oxidative Stress in Rat Hepatocytes Induced by t-Buthyl Hydroperoxide L

*The 12th Asian-Pacific Congress of Clinical Biochemistry. 2010; Korae, Seoul.*

12- Comparison of Plasma Total Antioxidant Capacity Levels in Laboratorists &

**Radiologists in Hamedan Hospitals.**

*National Congress on Safety and Health in Medical and Educational Centers. 2010; Iran – Hamedan.*

**13- Effects of Aspirin on Susceptibility of Albumin Glycation Reaction L**

*11th Iranian Nutrition Congress. 2010; Iran – Shiraz.*

**14- Effects of Aspirin Susceptibility of Low Density Lipoprotein to Oxidative Modification .**

*The 12th Asian-Pacific Congress of Clinical Biochemistry. 2010; Korea, Seoul.*

**15- Effects of Beta-Carotene on the Oxidative Stress in Rat Hepatocytes Induced by t-Buthyl Hydroperoxide L**

*11th Iranian Nutrition Congress. 2010; Iran – Shiraz.*

**16- The comparison of Plasma Antioxidant Capacity and Lipid Peroxidation Products Levels in Smokers & Non-smokers L**

17th Iranian Pharmaceutical Sciences Congress. 2010; Iran, Zanjan.

**17-The Comparison of Plasma Homocysteine and C-Reactive Protein Levels in Smokers and Non-Smokers L**

National Congress on Safety and Health in Medical and Educational Centers. 2010; Iran – Hamedan.

**18- The Comparison of Plasma Malondialdehyde and Cardiac Troponin I Levels in Smokers and Non-Smokers.**

National Congress on Safety and Health in Medical and Educational Centers. 2010; Iran – Hamedan.

**19- The Comparison of Plasma Malondialdehyde and Cardiac Troponin I Levels in Smokers and Non-Smokers.**

National Congress on Safety and Health in Medical and Educational Centers. 2010; Iran – Hamedan.

**20- Antioxidant Effects of Lycopene and Ubiquinol-10 on the Oxidative Stress in Rat Hepatocytes Induced by t-Buthyl Hydroperoxide.**

18th IFCC - EFCC European Congress of Clinical Chemistry and Laboratory Medicine. 2009; Innsbruck , Austria,

**21- Comparison of Plasma Nitric Oxide Levels in Radiologists and Laboratorists.**

10th Iranian Cobgress of Biochemistry & 3th International Congress of Biochemistry. 2009; Tehran, Iran.

**22- Comparison of the degree of fulfillment of educational goals in daily and nightly laboratory medicine students .**

2th International and 7th National Congress Quality Improvement in Clinical Laboratories. 2009; Tehran – Iran,

**23- Determination of plasma malondialdehyde levels as lipid peroxidation laboratory factor in gestational diabetic patients and comparison with non-diabetic subjects.**

10th Iranian Cobgress of Biochemistry & 3th International Congress of Biochemistry. 2009; Tehran, Iran.

**24- Determination of Plasma Total Antioxidant Capacity Levels in**

**Laboratories and Non-laboratories in Hamedan Hospitals.**

*2th International and 7th National Congress on Quality Improvement in Clinical Laboratories. 2009; Tehran, Iran.*

**25- Effects of Aspirin on In Vitro Glycation Low-density Lipoprotein Reaction .**

*1th Iranian Congress of Toxicology and Poisoning. 2009; Iran, Tehran, Shahid-Beheshti University of Medical Sciences and Health Services.*

**27- Effects of Quercetin on the Susceptibility of Albumin to Glycation .**

*10th Iranian Cobgress of Biochemistry & 3th International Congress of Biochemistry and Molecular Biology. 2009; Tehran, Iran*

**28- Effects of Vitamin E on in vitro Oxidation and Glycation Low-density Lipoprotein Reactions L**

*10th Iranian Cobgress of Biochemistry & 3th International Congress of Biochemistry. 2009; Tehran, Iran*

**29- Study of the degree fulfillmet of educational goals in 1385-86 in laboratory medicine students L**

*2th International and 7th National Congress on Quality Improvement in Clinical Laboratories. 2009; Tehran – Iran*

**30-Antioxidant Effects of Vitamins C and E on the Oxidative Stress in Rat Hepatocytes Induced by t-Buthyl Hydroperoxide L**

*1th Iranian Nutrition Congress. 2008; Iran, Tehran, Olympic Hotel*

**31- Determination of plasma nitric oxide levels in laboratorists and non-laboratorist in Hamedan hospitals laboratories L**

*Yth Laboratory and Medicine Congress. 2008; Iran, Tehran*

**32- Effects of Morphine on the Susceptibility of Albumin to Glycation L**

*1th International Symposium on Quality & Accreditation in Labaratory Medicine. 2008; Turkey, Istanbul*

**33- Comparison of Plasma Total Antioxidant Capacity Levels in Patients with Breast Cancer and Normal Subjects L**

*7th International Congress of Gynecology Oncology. 2007; Isfahan University of Medical Sciences and Health Services, Isfahan, Iran*

**34- Comparison of Plasma Total Antioxidant Capacity Levels in Radiologists and Non-radiologists L**

*7th Iranian Congress of Radiology. 2007; Tehran-Iran*

**35- Effect of L-Carnitine on the Serum Lipoproteins and HDL-C Subclasses in Hemodialysis Patients L**

*17th IFCC-FESCC European Congress of Clinical Chemistry and Laboratory Medicine. 2007; Amsterdam, The Netherlands*

**36- Levels of Plasma Malondialdehyde in Workers Exposed to Ionizing Radiation L**

*7th Iranian Congress of Medical Physics. 2007; Ahvaz Jundishapur University of Medical Sciences*

**37- Serum Paraoxonase-1 activity and gene polymorphisms detection in patients of hyperlipidemic diabetic L**

*9th Iranian Congress of Biochemistry & 2th Internal Congress of Biochemistry and Molecular Biology. 2007; Iran – Shiraz*

**38- Serum Paraoxonase-1 activity, Lipid Profile, Malondialdehyde and Total Antioxidant Status Determination and Its Correlation in Hyperlipidemic Diabetic Patients L**

*9th Iranian Congress of Biochemistry & 2th Internal Congress of Biochemistry and Molecular Biology. 2007;*



*Iran- Shiraz*

**39- Study of the Effects Vitamin E, Lycopene, Quercetin and Naringin on the Low Density Lipoprotein Oxidation L**

*9th Iranian Congress of Biochemistry & 2th Internal Congress of Biochemistry and Medical Biology. 2007; Iran- Shiraz*

**40- The Comparison of Lipid Peroxidation Levels in Laboratorist and Non-laboratorist Subjects L**

*Laboratory & Internal Medicine Congress. 2007; Tehran-Iran*

**41- The Comparison of Plasma Homocysteine and C-Reactive Protein Levels in Smokers and Non-Smokers L**

*9th Iranian Congress of Biochemistry & 2th Internal Congress of Biochemistry and Molecular Biology. 2007; Iran-Shiraz*

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#### **IV) Research Projects:**

- 1- Comparison of "Turnip Peroxidase-Oxine" and "Horseradish Peroxidase-Oxine" Systems on the Viability of Carcinogenic Cells.**
- 2- Determination of Plasma Nitric Oxide Levels in Gestational Diabetic Patients and Comprised with Non-diabetic Subjects.**
- 3- Determination of Plasma Malondialdehyde as Laboratory Index of Lipid Peroxidation Reaction in Gestational Diabetes Patients.**
- 4- Study on Evaluation of Educational Programs in Laboratory Medicine, Radiology, Anesthetic, Library and Information Students.**
- 5- Determination of Plasma Total Antioxidant Capacity Levels in Radiologists Working at Hamedan Hospitals and Comparison of Its with Non-radiologists .**
- 6- Effects of Volatile Oils on LDL Oxidation and Glycation In Vitro.**
- 7- Effects of Folic Acid and Zinc Sulphate on the Spermatogenesis in Men.**
- 8- Study of Nitric Oxide and Peroxidation Lipid Products Levels in Hamedan University of Medical Sciences Students in During Fasting.**
- 9- Determination of Nitric Oxide Levels in Breast Cancer and Non-cancer Subjects.**
- 10- Determination of Reactive Oxygen Species Plasma Levels in Radiologists Working at Hamedan Hospitals and Comparison of Its with Non-radiologists .**
- 11- The Comparison of Homo-cysteine, Fibrinogen, Cardiac Troponin and C-reactive Protein in Cigarettes and Non-Cigarettes Subjects.**
- 12- Determination of Nitric Oxide Levels in Favism and Non-Favism Subjects .**
- 13- Effects of Aluminium on Neurous Systems by AgNO<sub>3</sub> Method in Rat .**
- 14- Study of Free Radicals Levels in Seminal Plasma Men.**
- 15- Study the Influence of Some Food Additives on Oxidative Stress of t-Buthyl Hydroperoxide in Rat Hepatocytes .**
- 16- Estimation of Erythrocyte Glutathione Levels in Favism Patients and Comparison with Non-Favism Subjects.**
- 17- Determination of Nitric Oxide Levels in Leukemia and Non-leukemia Subjects .**
- 18- Effects of Vitamin E in Prevention of Morphological Defects of Developing External Organs and Central Nervous System in Diabetic Rat Embryos.**
- 19- Study of Carnitine in Seminal Plasma Men .**
- 20- Study of Total Antioxidant Capacity and Vitamin C Levels in Plasma Mother and Baby and Different Between Normal and Hypoxia Babies .**
- 21- The Comparison of Nitric Oxide Levels in Diabetic and Non-diabetic Subjects Plasma.**
- 22- The Effect of Fructose on Plasma Lipid Pattern in Rat.**
- 23- Effect of Ascorbic Acid & Flavonoids on Aldose Reductase Activity and Cataract Formation in Diabetic Rats.**
- 24- Study of Oxidative Damage to Hepatocytes by "Glycated Protein-Metal Ions" System In Vitro .**
- 25- The Comparison of Basal and Excited Peroxidation Lipid Levels in Diabetic and Non-diabetic Subjects Plasma .**
- 26- Study the Influence of Some Food Additives Extracts on In Vitro Glycation of Albumin.**
- 27- Introduction of the Measurement of Plasma Malondialdehyde as a Marker for Acute Coronary Syndrome .**

**28- Development of the Deoxyribose Method and Study Effects of Biochemical Compounds on Oxidative Reaction as a Model for Study Oxidative Stress in DNA.**

**29- Study on Volatile Oils, Flavonoids & Vitamin C as Antioxidants on the Affinity of LDL to its Receptor.**

### **V)Theses supervision:**

**1- Study of the Hemodialysis Effect on the Serum L-Carnitine and Lipid Peroxidation.**

**2- Study of Sialiation of Low Density Lipoprotein (LDL) in Coronary Artery Disease by Lectin-Blotting Test .**

**3- Study of the Effect Vitamin E, Lycopene, Quercetin and Narengin on the Binding Copper to Low Density Lipoprotein (LDL).**

**4- Effects of Carnosine on Rats Health and Study of Active Site and Prabably Mechanisms .**