



**CURRICULUM VITAE**  
**MUNIR NASER GHARAIBEH**  
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**PERSONAL:**

**Title : MD, PhD, MHPE**

**Permanent Address: Department of Pharmacology**

**Faculty of Medicine  
University of Jordan.  
Amman, Jordan**

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**Nationality : Jordanian**  
**Date of birth : May 1952**  
**Place of birth : Karak, Jordan**  
**Marital status : Married, 6 children.**

**PRESENT POSITIONS:**

**Professor, Department of Pharmacology.  
Faculty of Medicine, University of Jordan.**

**CERTIFICATES :**

**M.B. Ch. B., College of Medicine, 1976.  
University of Baghdad, Baghdad, Iraq.**

**ECFMG, # 266 - 413 - 4, 1976.**

**Ph.D., Department of Pharmacology and Toxicology, 1983  
Medical College of Wisconsin  
Milwaukee, Wisconsin, USA.**

**Advisor: Garrett J. Gross. Ph.D.**

***DOCTORAL DISSERTATION:* Comparative Studies on the Mechanisms of Action of Nitroglycerin and Diltiazem in Vascular Smooth Muscle.**

**MHPE, Master of Health Profession Education, 1991  
Department of Medical Education, College of Medicine, University of Illinois. Chicago,  
Illinois, USA.**

***MASTER PROJECT:*** An Integrated Course for Senior Medical Students in Clinical Pharmacology.

Board of Basic Medical Sciences, Jordan Medical Council, 1996.

### **EXPERIENCES:**

Rotating Internship  
Al- Basheer Hospital, Amman  
September 1976 - August 1977.

Resident, Internal Medicine Department  
Jordan University Hospital  
August 1977 - January 1979.

Lecturer, Department of Pharmacology  
College of Medical Sciences  
University of Jordan  
January 1979-August 1979.

Graduate Student, Cardiovascular Pharmacology Laboratory  
Sponsored by Jordan University Scholarship  
Department of Pharmacology  
Medical College of Wisconsin.  
Advisor : Prof. Garrett J. Gross, Ph.D.  
August 1979 - April 1983.

Faculty Member, Department of Pharmacology  
Faculty of Medicine, University of Jordan  
Amman, Jordan.  
The job involves research, consultations and teaching of graduate and undergraduate courses for medical, dental, nursing and pharmacy students.  
August 1983-Present.

Graduate Student, Department of Medical Education  
College of Medicine, University of Illinois  
Chicago, Illinois, USA  
August 1990 – August 1991.

Fellow, Clinical Pharmacology  
Sponsored by the Educational Commission for Foreign Medical  
Graduates Fellowship under the International Medical Scholar Program  
Division of Clinical Pharmacology, Department of Internal Medicine  
Jefferson Medical School, Thomas Jefferson University  
September 1996- August 1997.

Director, Center for Educational Development(CED).  
University of Jordan  
July 1992-August 1996.  
May 2001 – November 2003.

**General Director, Islamic Hospital,  
Amman, Jordan.**

**This is the largest private, charity and teaching hospital in the country.  
December 2003 – September 2004.**

**Chairman, National Committee on Continuous Medical Education  
Jordan Medical Board.  
2001- 2010.**

**Treasurer, Federation of Islamic Medical Associations.  
2005-2011**

**Chairman, Department of Pharmacology  
Faculty of Medicine, University of Jordan.  
1998- 2006, 2012-2014.**

**Visiting Professor.  
University of California/ San Diego/ Hill Crest Medical Center.  
Department of Medicine  
September 2011-August 2012.**

**Visiting Professor  
Tabuk University, Saudia Arabia.  
May 2014 and February 2015.**

#### **MEMBERSHIPS :**

- **Jordan Medical Association, 1976**
- **American College of Clinical Pharmacology (ACCP), 1986.**
- **International Association of Medical Science Educators,1999.**
- **Islamic Center Charity Society, 1996**
- **Institutional Review Board, International Pharmaceutical Research Center (2002- 2006).**

#### **WORKSHOPS ATTENDED:**

- 1. The Fifth Workshop on Educational Planning,  
CED, University of Jordan.  
September 3-16.1983**
- 2. Workshop on Constructing Examination Questions for Medical  
Students.  
CED, University of Jordan.  
January 14-16-1985**
- 3. Curriculum Development Workshop.  
CED, University of Jordan.  
April 20-25.1985**
- 4. Workshop on Planning and Leading a Group Discussion.  
CED, University of Jordan.  
October 19-20.1985**

5. WHO National Conference on Medical Education.  
CED, University of Jordan.  
November 6. 1986
6. Workshop on Analysis of Examination Questions.  
CED, University of Jordan.  
February 17.1987
7. Methods in Medical Research and Use of Biostatistics.  
CED, University of Jordan.  
March 28 - April 6.1988
8. WHO Intercountry Workshop on "Human Resources for Health Research".  
CED, University of Jordan.  
November 25-28, 1991.
9. WHO Subregional Workshop on the "Introduction of Essential Drugs and Rational Prescribing Concepts into University Curricula".  
Beirut, Lebanon  
October 18 - 20.1992
10. "Problem Solving For Better Health". Sponsored By The Health Foundation, New York.  
Trivandrum, India.  
March 5-7, 1993.
11. WHO Intercountry Workshop on "Job Descriptions for Health Personnel".  
Beirut, Lebanon.  
June 8-11, 1993
12. WHO Intercountry Workshop on "Problem-Based Learning for Medical and Allied Health Personnel Education"  
Irbid, Jordan.  
December 18 - 22 1994.
12. WHO/AMEEMR Consultation Workshop (Association of Medical Education of the Eastern Mediterranean) Consultation Workshop on Medical Education in the 3<sup>rd</sup> Millenium: Issues, Challenges and Strategies.  
Jordan University of Science and Technology;  
Irbid-Jordan.  
June 11-13,2000.
14. Approaches to Learning and Teaching in Integrated Curriculum.  
The Jordan University of Science and Technology and University of Jordan in Collaboration with The Arabian Gulf University, College of Medicine  
Irbid, Jordan  
February 28-March 1, 2001

15. Ethical Issues in International Health Research. Preconference course.  
Ministry of Health/United Arab Emirates and Harvard School of Public Health,  
Abu Dhabi UAE. March 9-10, 2002.
16. Expanding Horizons in Problem-Based Learning in Medicine.  
Maastricht, University, Netherlands. June 22-27, 2003.
17. Pharmaceutical Logistics management, a training course organized by Cairo Technical Office of Partners(CTO) and Ford Foundation.  
Cairo, Egypt.  
October 11-22, 2003.
18. Problem Based Learning, WHO workshop in cooperation with Arabian Gulf University and University of Jordan.  
CED, University of Jordan.  
April 26-27, 2011.

#### **CONFERENCES and SCIENTIFIC MEETINGS:**

1. Joint Meeting, American Society for Pharmacology and Experimental Therapeutics and Society of Toxicology.  
Louisville, Kentucky.  
August 15-19, 1982.
2. 55<sup>th</sup> Annual Scientific Sessions of the American Heart Association.  
Dallas, Texas, 1982.
3. Annual Scientific Meeting, American Academy of Clinical Toxicology, American Association of Poison Control Centers, American Board of Medical Toxicology and Canadian Association of Poison Control Centers.  
Kansas City, Missouri  
August 4 - 9, 1985.
4. Joint Meeting, American Society for Pharmacology and Experimental Therapeutics and Society of Toxicology.  
Boston, Massachusetts  
August 18 - 22, 1985.
5. Joint Meeting, American Society for Pharmacology and Experimental Therapeutics and Society of Toxicology.  
Baltimore, Maryland  
August 17 - 21, 1986.
6. 101<sup>th</sup> Annual Meeting of Association of American Medical Colleges(AAAMC): A Changing Reality for Biomedical Research?.  
San Francisco, California.  
October 19-25, 1990.

- 7. Conference on "Mediterranean Cooperation in Education, Training, Research", Technological Educational Institute of Patras.  
Patras, Greece.  
September 26-27, 1994.**
- 8. 23<sup>rd</sup> Annual Meeting, American College of Clinical Pharmacology,  
Orlando, Florida.  
October 6-8, 1994.**
- 9. The 7th International Congress of the World Federation of Public Health Associations. "Health, Economics and Development. Working Together for Change".  
Bali, Indonesia.  
December 4-8, 1994.**
- 10. The Fourth Royal College of Surgeons in Ireland Overseas Scientific Meeting  
Bahrain.  
March 14 - 15 1995.**
- 11. WHO Intercountry Meeting for the National Directors and Managers of the Educational Development Centers  
Tunisia.  
May 22 – 25, 1995.**
- 12. International Conference on MRCP (UK), Royal College of Physicians  
London. UK.  
May 31 - June 1, 1995.**
- 13. 98<sup>th</sup> Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics.  
San Diego, California.  
March, 1997.**
- 14. WHO Sponsored First Meeting of Eastern Mediterranean Chapter of Community Oriented Schools.  
Fayed-Ismailia, Egypt.  
February 28-March 1, 1998.**
- 15. Competing Constituencies of Medical Education: Meeting Accountability with Innovation. A conference celebrating the 40<sup>th</sup> anniversary of the Department of Medical Education at the University of Illinois at Chicago, College of Medicine.  
Chicago, Illinois.  
July 15-18, 1999.**

- 16. Fourth Biennial Conference of the International Association of Medical Science Educators.  
Georgetown University Conference Center.  
Washington, DC.  
July 17-20, 1999.**
- 17. 29<sup>th</sup> Annual Meeting, American College of Clinical Pharmacology  
Chicago, Illinois  
September 17-19, 2000**
- 18. Dreyfus Health Foundation: Global Health Conference.  
Coventry, United Kingdom  
March 13-16, 2001.**
- 19. International Conference on Health Care Ethics: Abu Dhabi, United Arab Emirates, March 10-13, 2002.**
- 20. The 19<sup>th</sup> Council Meeting of the Federation of Islamic Medical Associations. Shah Alam, Malaysia,  
July 4 – 7, 2002**
- 21. Approaches to Better Teaching. Annual International Conference of the Association for Medical Education in Europe (AMEE)  
Lisbon. Portugal.  
August 29 – September 1, 2002.**
- 22. Annual International Conference of the Association for Medical Education in Europe (AMEE)  
Amsterdam, Netherland.  
August 30-September 3, 2005.**
- 23. Annual Scientific Convention of the Federation of Islamic Medical Associations,  
Yogyakarta, Indonesia,  
July 19-22, 2006.**
- 24. Annual Scientific Convention of the Federation of Islamic Medical Associations, “Sexually Transmitted Diseases and HIV/AIDS and Bioethics”.  
Istanbul, Turkey,  
July 13-16, 2007.**
- 25. Annual Scientific Convention of the Federation of Islamic Medical Associations and 9<sup>th</sup> International Scientific Assembly of the Islamic Medical Association of North America, “Global Health: A Holistic Approach”.  
Marrakech, Morocco,  
July 31- August 2, 2008**

**26. Annual Scientific Convention of the Federation of Islamic Medical Associations, "Health Problems in Relation to Displacement and Disasters".**

**Khartoum, Sudan,  
August, 2009.**

**27. Annual Scientific Convention of the Federation of Islamic Medical Associations, "Health Care for People with Special Needs".**

**Beirut, Lebanon,  
September 19-23, 2010.**

**28. 12<sup>th</sup> Annual Meeting of Association of American Medical Colleges (AAAMC): Shaping the Physician of the Future. A Century after the Flexner Report.**

**Washington, DC., USA.  
November 3-10, 2010.**

**29. 124<sup>th</sup> Annual Meeting of Association of American Medical Colleges (AAAMC): Learn.Serve. Lead: the Change Imperative.**

**Philadelphia. PA, USA.  
November 1- 6, 2013.**

**30. 126<sup>th</sup> Annual Meeting of Association of American Medical Colleges (AAAMC): Learn.Serve. Lead: Tomorrows Doctors, Tomorrows Cures.**

**Baltimore, MD. USA.  
November 6-10, 2015.**

**WORKSHOPS DESIGNED, IMPLEMENTED OR FACILITATED:**

**1. Four workshops on the "Objective Structured Clinical Examination (OSCE)", for faculty members of Faculty of Medicine, CED, University of Jordan.**

**February 8. - March . 8,1992.**

**2. Three workshops on "Family Health and Birth Spacing". CED, University of Jordan. In cooperation with Family Health International. North Carolina**

**September 26 - Oct. 1, 1992.**

**3. A three- week course on Library and Information Management. CED, University.**

**January 2 - 21,1993.**

**4. Three workshops on Curriculum Design and Development for Faculty members of Faculty of Medicine, University of Jordan. CED, University of Jordan.**

**January 23 - Feb.10, 1993.**



5. **A workshop on: "Review & Development of Dental Curriculum" for Staff Members at Schools of Dentistry, University of Jordan and Damascus University. CED, University of Jordan. July 6-8, 1993.**
6. **A one week course on: Design and Production of Teaching / Learning Materials. CED, University of Jordan. October 23- 28, 1993.**
7. **WHO Intercountry Workshop on Human Resources for Health Projection Models. CED, University of Jordan. October 1-8, 1995.**
8. **Jordan University Workshops of Faculty Development. CED. May - December, 2000.**
9. **Workshops on Problem Solving for Better Health. Sponsored by The Dreyfus Health Foundation, New York.**
  - Amman, Jordan. September 18-20, 1993.**
  - Amman, Jordan. September 21-23, 1993.**
  - Karak, Jordan. December 2-4, 1995**
  - Amman, Jordan. December 5-7, 1995**
  - Orshak, Bulgaria. June 4-7, 1996.**
  - Swieradow Zdroji, Poland. June 9-12, 1996.**
  - Amman, Jordan. June 15-17, 1996.**
  - Tafileh, Jordan. September 21-23,1997.**
  - Banska Bystrica, Slovakia. April 22-25, 1998**
  - Zarqa, Jordan. June 2-4, 1998.**
  - Karak and Tafileh, Jordan. June 5-7, 1998.**
  - Karak, Jordan. October 13-15, 1999.**
  - Ghor Safi, Jordan. October 17-19, 1999.**
  - Warsaw, Poland. November 4-6 1999.**
  - Bali, Indonesia. October 2-4, 2000.**
  - Karak, Jordan. April 26-28, 2001**
  - Szkarska, Poland, May 30-June 2, 2001**
  - Zarqa, Jordan, August 16-18, 2001**
  - Maan, Jordan, June 8-10, 2002**
  - Amman, Jordan, August 10-12, 2002**
  - Karak, Jordan, December 18-20, 2003**
10. **WHO sponsored workshop on Basics of Medical Education for faculty from Jordan's Medical Schools, Center for Educational Development/University of Jordan. Amman, Decebmer 22-27, 2001.**
11. **WHO sponsored workshop on Basics of Medical Education for faculty from Jordan's Medical Schools, Jordan University of Science and Technology. Irbid, March 3-7, 2002**

12. WHO sponsored workshop on Basics of Medical Education for faculty from Jordan's Medical Schools, Mutah University. Karak, Jordan July 7 – 11, 2002

**SPECIAL CONSULTATIONS:**

- Honorary Consultant-British Medical Journal (BMJ), Middle East Edition.
- WHO Short Term Consultant (STC) to evaluate the educational system of Ministry of Health Colleges and Institutes, Saudi Arabia November-December 1993.
- Member, Scientific Committee on Basic Sciences, Jordan Medical Council
- Member, Consultant Committee, Jordan Health Digest. Published by CED, University of Jordan in collaboration with The Dreyfus Health Foundation, New York
- Ministry of Education, Supervisory and Guidance Committee for the Authorship of High School textbooks.

**ACTIVITIES COORDINATED:**

- National Coordinator for Professional Specialty Examinations in Jordan: MRCP, MRCOG, FRCSI. 1992-1996.
- National Coordinator for Projects on "Problem Solving for Better Health" Sponsored by The Health Foundation, New York. 1993 - 1996
- Coordinator and active participant in the preparation of IEC material for the project "A Collaborative Study to Determine the Acceptability of Long-Acting Progestin Methods for Jordan" Sponsored by FHI, AVSC and USAID, 1995.

**PUBLICATIONS:**

1. G.J. Gross, M.N. Gharaibeh. Effect of Molsidomine on Coronary Collateral Blood Flow in Acute Myocardial Ischemia. European Journal of Pharmacology, 67: 111-114 (1980).
2. M. Mullet, M. Gharaibeh, D.C. Warltier, and G.J. Gross. The effect of Diltiazem, a Calcium Channel Blocking Agent on Vasoconstrictor Responses to Norepinephrine, Serotonin and Potassium Depolarization in Canine Coronary & Femoral Arteries. General Pharmacology, 14: 259 - 264 (1983).

3. M. N. Gharaibeh and G. J. Gross Comparative. Relaxant effects of Nitroglycerine in Isolated Rings from Various Canine Vascular Beds. *General Pharmacology* 15: 217 - 221 (1984).
  
4. G. J. Gross and M. N. Gharaibeh. Evidence for the Site of Action of Glycerol Trinitrate and Diltiazem in Inhibiting Vasoconstrictor Responses to Norepinephrine in Isolated Renal Arteries. *Pharmacology* 32: 1 - 10 (1986).
  
- A. S. Salhab, H. H. Elayan, M. N. Gharaibeh and S. Amr. The Acute Toxicity of the Juice of *Ecbalium elatrium* (L.) A. Rich. *Dirasat*, 13: 91 - 99 (1986).
  
5. M. N. Gharaibeh, H. H. Elayan, and A.S. Salhab. Hypoglycemic effects of *Teucrium polium*. *Journal of Ethnopharmacology* ; 24: 93 - 99 (1988).
  
6. A. Disi, M. Gharaibeh and A. Salhab. Comparative Potency of Two Polyvalent Antivenins in Mice and Recent Incidents of Snakebites in Jordan. *The Snake*, 20: 144 - 150 (1988).
  
7. M. N. Gharaibeh, H. H. Elayan, and A. S. Salhab. Anorexic effects of *Teucrium polium*. L. in Rats. *International Journal of Crude Drug Research*, 27: 201 - 210 (1989).
  
8. H. H. Elayan, M. N. Gharaibeh, S. M. Zmeili and A. S. Salhab. Effects of *Ecbalium elatrium* L. A. Rich Juice on Serum Bilirubin Concentration in Male Rats. *International Journal of Crude Drug Research*, 27: 227 - 234 (1989).
  
9. M.B. Aqel, M. N. Gharaibeh and A. S. Salhab. Effect of Volatile Oil of *Teucrium polium* (Al-Ja'adeh) on Vascular Smooth Muscle. *Dirasat*, 16: 130 - 137 (1989).
  
- H. H. Elayan and M. N. Gharaibeh. Effect of Bilateral Adrenalectomy on Catecholamine Synthesis in the Rat Heart. *Dirasat*, 16 : 115 - 129 (1989).
  
10. M. Saket, T. Arafat, R. Awad, H. Ibrahim, M. Saleh, E. Sallam, M. Shubair, S. Zmeili and M. Gharaibeh. A Bioequivalence study of two products of Ranitidine Tablets. *Current Therapeutic Research*, 46: 924-932 (1989).
  
11. T. Arafat, M. Saket, R. Awad, H. Ibrahim, M. Saleh, M. N. Gharaibeh, E. Sallam and M. Shubair. A Bioequivalence Study of two Dipyridamole Products. *International Journal of Clinical Pharmacology, Therapy and Toxicology*, 27: 564 - 567 (1989).
  
12. M. B. Aqel, M. N. Gharaibeh and A. S. Salhab. The Calcium Antagonistic Effect of the Volatile Oil of *Teucrium polium*, *International Journal of Crude Drug Research*, 28:201-207 (1990).

13. M. B. Aqel, M. N. Gharaibeh and A. S. Salhab. Effects of Volatile Oil of *Teucrium polium* (Al-Ja'adeh) on Tracheal Smooth Muscle. *Jordan Medical Journal*, 25: 99-107 (1991).
14. M. Aqel, M. N. Gharaibeh and A. Salhab. Direct relaxant effect of Garlic Juice on Smooth and Cardiac Muscles. *Journal of Ethnopharmacology*, 33: 13 - 19 (1991).
15. R. Awad, T. Arafat, M. Saket, M. Saleh, M. Gharaibeh, S. Zmeili, E. Sallam, M. Shubair and S. Qobrosi. A Bioequivalence Study of two Products of Furosemide Tablets. *International Journal of Clinical Pharmacology, Therapy and Toxicology*, 30: 18 - 23. (1992).
16. M. Saket, A. Qaisi, M. Abdel Razzak, B. Amro, M. Tutunji, M. Gharaibeh, S. Zmeili and H. Muti. A Bioequivalence Study of Two Brands of Doxycycline Capsules. *Current Therapeutic Research*, 54 : 15-22 (1993).
17. M. Gharaibeh. S. Zmeili, M. Saket, T. Arafat, M. Saleh, E. Sallam, M. Shubair and S. Al Deleq. Ibuprofen Sustained-Release Dosage Forms. Single - and Multiple - dose Studies of Tablets and Spansules in Normal Volunteers, *Clinical Drug Investigation*, 11: 174-183, (1996).
18. S. Zmeili, M. Saket, A. Qaisi, M. Gharaibeh, B. Amro, M. Tutunji, M. Abdel Razak and H. Muti. A Comparative Single-Dose Bioequivalence Study of Two Brands of Glipizide. *Current Therapeutic Research* 56: 38-46, (1995).
19. A. S. Salhab, M. Gharaibeh, S. Zmeili, Salah Tamimi and A. Issa. Detection of Nicotine and Cotinine in Maternal and Cord Blood and Induction of 7-ethoxycoumarin O-Deethylase in Placenta. *Dirasat*. 23: 88-94, (1996).
20. Salah.O. Tamimi, Suheil M. Zmeili, Munir N. Gharaibeh, Mohammad S, Shubair and Abdulazim S. Salhab. Toxicity of a new Antismoking Mouthwash 881010 in Rats and Rabbits. *Journal of Toxicology and Environmental Health*. 52:47-60, (1998).
21. Munir N. Gharaibeh, Howard E. Greenberg and Scott A. Waldman. Adverse Drug Reactions: A Review. *Drug Information Journal*. 32:323-338,(1998).
22. Munir N. Gharaibeh, Lisa P Gillen, Barbara Osborne, Scott A. Waldman and Jules Schwartz. The Effect of Multiple Doses of Rifampin on the [<sup>14</sup>C N- methyl] Erythromycin Breath Test in Healthy Male Volunteers. *Journal of Clinical Pharmacology*. 38:492-495,(1998).

**23. Book: "Modern Toxicology" in Arabic, with others, First edition, 1990. Second edition 1996**

علم السموم الحديث" منير غرايبه ، عبد العظيم سلهب ، ماضي الجغبير ، منيب الساكت . الطبعة الثانية (١٩٩٦) المركز العربي للخدمات الطلابية الطبعة الأولى (١٩٩٠) (نشر بدعم من مجمع اللغة العربية الأردني). دار المستقبل - عمان ،

**24. M Gharaibeh, S. Zmeili, A. Abu-Rajab and Z. Daoud. Drug Induced Admissions to Medical Wards at Jordan university Hospital. International Journal of Clinical Pharmacology and Therapeutics. 36;478-482, (1998).**

**25. Salhab AS, Al-Tamimi SO, Gharaibeh MN, Shomaf MS. The abortifacient effects of castor bean extract and ricin A-chain in rabbits. Contraception. 58: 193-197, (1998).**

**26. S.Zmeili, A.Salhab, K. Shubair, M. Gharaibeh, N.Suliman, A. Al-Kayed, M.Shubair, N. Abu Hijleh and M.Abu Jbara. Clinical evaluation of a new A.S. mouth wash 881010 as an antismoking agent: a placebo-controlled double-blind trial. International Journal of Clinical Pharmacology and Therapeutics. 37:41-50,(1999).**

**27. Abdulazim S Salhab, Suhail M Zmeili, Munir N Gharaibeh, Hamzeh H Elayan, Elsayyed Sallam and Suleiman Al Deleq. The bioequivalence of Folifer-Z: a new formulation of sustained release iron and zinc. International Journal of Pharmaceutics. 187:171-181,(1999).**

**28. A.S. Salhab, M.S. Shomaf, M.N. Gharaibeh, N.A. Amer. Effects of castor bean extract and ricin A-chain on ovulation and implantation in rabbits. Contraception .59: 395-399, (1999).**

**29. A.S. Salhab, M.N. Gharaibeh, M.S. Shomaf, B. E Amer. Meloxicam inhibits rabbit ovulation. Contraception. 63: 329-333, (2001).**

**30. M.S. Bata, M. Al-Ramahi, A.S. Salhab, M.N. Gharaibeh and Jill Schwartz. Delay of Ovulation by Meloxicam in Healthy Cycling Volunteers: A Placebo- Controlled, Double-blind, Crossover Study. Journal of Clinical Pharmacology. 46: 925-932, (2006).**

**31. S. M. Aqel, Y. M. Irshid, M. N. Gharaibeh, T. A. Arafat. The effect of Acetate extract of Pomelo Mix on Systemic Exposure of Verapamil in Rabbits. Drug Metabolism Letters. 5: 92-98, (2011).**

**32. M.G Ziegler, H. Elayan, M.Milc, P. Sun, M. Gharaibeh. Epinephrine and the Metabolic Syndrome. Current Hypertension Reports. 14:1-7, (2011).**

33. H. Elayan, M. Milic, P. Sun, M Gharaibeh, M.G Ziegler. Chronic  $\beta$ 2 adrenergic agonist, but not exercise, improves glucose handling in older type 2 diabetic mice. Cellular and Molecular Neurobiology. 32:871-877, (2012).

34. Munir Gharaibeh, Ping Sun, Milos Milic and Michael G. Ziegler. The Relationship of Norepinephrine to Stress Induced Hypertension. Page 202. Catecholamine Research in the 21st Century Abstracts and Graphical Abstracts, 10th International Catecholamine Symposium, Ed: Lee E. Eiden, (2012).

35. Alia Shatanawi, Munir N. Gharaibeh, Ruth B. Caldwell, R. William Caldwell. High glucose upregulates arginase1 and decrease nitric oxide production through ATF-2 and jun transcription factor. Life Science Journal. 11:374-379, ( 2014).

### **References:**

1. Dr. Garrett J. Gross,  
Professor of Pharmacology Department of Pharmacology and  
Toxicology, Medical College of Wisconsin.  
8701 Watertown Plank Rd, Milwaukee, Wisconsin, 53226, U.S.A.  
Tel: (414) 257 8267  
Fax: (414) 778 4289  
Email: [ggross@mcw.edu](mailto:ggross@mcw.edu)
2. Dr. Barry H. Smith,  
Director, The Dreyfus Health Foundation  
205 East 64<sup>th</sup> Street, Suite 404  
New York, New York 10021, U.S.A.  
Tel.: (212) 750-5075  
Fax: (212) 371-2776  
Email: [postmaster@dhfglobal.org](mailto:postmaster@dhfglobal.org)
3. Dr. Ala Din Alwan  
WHO Regional Director, EMRO  
Cairo, Egypt  
Email: [alawan@who.int](mailto:alawan@who.int)
4. Dr. Azmi Mahafza  
Vice President  
University of Jordan  
Tel: (9626) 5355000 # 2400  
Fax: (9626) 5356746  
E-mail: [mahafzam@ju.edu.jo](mailto:mahafzam@ju.edu.jo).