

Mohamad Nusier M.D., Ph.D.

Professor of Biochemistry, Molecular Biology, Genetics and Laboratory Medicine

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### **Summary**

Distinguished Professor of Biochemistry, Molecular Biology, Genetics and Laboratory Medicine employing creative teaching strategies to engage students fully in the learning process. Driven to inspire students to achieve personal and academic success. Accomplished lecturer who effectively articulates information and responds honestly to questions from students.

### **Highlights**

Educational technology expertise	Diverse teaching modalities
Engaging public speaker	Committed to cultivating student leadership
Exceptional written and verbal communicator	
Assessment and evaluation	Curriculum development
Skilled academic advisor	
Online course instructor	Natural leader
Researcher	

### **Academic Experience**

- **Professor of Biochemistry (Sabbatical leave)** **Sept 2019 - August 2021**

Institute of Cardiovascular Sciences. St. Boniface Hospital Albrechtsen Research Centre

**University of Manitoba, Max Rady College of Medicine.** Winnipeg, Manitoba, Canada

Scientific deliberations on subcellular defects in  $\text{Ca}^{2+}$ -handling in cardiovascular disease. (See publications)

### **Research output during sabbatical leave 2019-2021:**

#### **A. In Journals:**

1. Nusier M, Shah AK, Dhalla NS. Structure-Function Relationships and Modifications of Cardiac Sarcoplasmic Reticulum  $\text{Ca}^{2+}$ -transport. *Physiol. Res.* 70: 443-470. [Doi.org/10.33549/physiolres.934805](https://doi.org/10.33549/physiolres.934805)
2. Nusier M, Ozcelikay AT, Shah AK, Dhalla NS. Role of Intracellular  $\text{Ca}^{2+}$ -overload in cardiac dysfunction in heart disease. *J Clin Cardiol Cardiovasc Interv.* 3(1); [Doi:10.31579/2641-0419/038](https://doi.org/10.31579/2641-0419/038), 2020
2. Nusier M, Alqudah M, Elimban V, Dhalla NS, Modification of ischemia-reperfusion induced infarct size by ischemic preconditioning in hypertrophied hearts. *Can J Physiol Pharmacol*, 99: 218–223, 2021.
3. Nusier M, Shah AK, Dhalla NS. Structure-Function Relationships and Modifications of Cardiac Sarcoplasmic Reticulum  $\text{Ca}^{2+}$ -transport. *Physiological Research – being submitted for publication.*

4. Dhalla NS, Elimban V, Shah AK, Nusier M. Mechanisms of cardiac dysfunction in heart failure due to myocardial infarction. J Integ Cardiol Open Access Doi:10.31487/J. JICOA.2019.04.12, 2019
5. Bhullar SK, Nusier M, Shah AK, Dhalla NS, Role of molecular and metabolic defects in impaired performance of dystrophic skeletal muscles, J Mol Clinic Med. In press, 2021

**B. In Books:**

1. Tappia PS, Shah AK, Nusier M and Dhalla NS. Sex differences in contractile function in cardiac hypertrophy and heart failure subsequent to volume overload. In: Sex Differences in Heart Disease, Advances in Biochemistry in Health and Disease, Vol. 20. Edited by B. Ostadal and NS Dhalla, Springer Nature, Switzerland AG, 111–127, 2020.
2. Dhalla NS, Elimban V, Shah AK and Nusier M. Sex-specific differences in  $\beta$ -adrenoceptor signal transduction in heart failure due to volume-overload. In: Sex Differences in Heart Disease, Advances in Biochemistry in Health and Disease, Vol. 20. Edited by B. Ostadal and NS Dhalla, Springer Nature, Switzerland AG, 147–158, 2020.
3. Dhalla NS, Nusier M, Shah AK, and Tappia PS. Characteristics of intracellular  $\text{Ca}^{2+}$  handling proteins in heart function in health and disease. In: Heart Rate and Rhythm - Molecular Basis, Pharmacological Modulation and Clinical Implications. Edited by Tripathi O, Ravens U, and Quinn TA, Springer Nature, Switzerland AG, 2021, Submitted for publication.

• **Professor of Biochemistry**

**Sept 1997 - Sept 2019**

**Jordan University of Science and Technology,**

**School of Medicine. Irbid, Jordan**

Main duties: teaching, research, supervising graduate students, curriculum development.

Courses or course sections taught: Problem based learning, Medical Biochemistry, Molecular Biology, Medical Genetics, Oral Biochemistry, Cell Biology, Biochemical Techniques, Advanced Biochemistry, Advanced Molecular Biology, Clinical Biochemistry, Medical Technology Instrumentation, Proteins and Enzymes, Advanced Topics in Biomedical and Clinical Research.

Served as **chairperson** for the department from Sep 2002 to Sep 2005. As a departmental chair, I was the academic and administrative leader of the department and served as a representative of the dean and medical school. I directed the faculty of the department in carrying out its missions of teaching, scholarly work, and professional activities.

Joint Appointment: Department of Medical Laboratory Sciences, Faculty of Applied Medical Sciences, Jordan University of Science and Technology.

Served as an advisor, a committee member and external examiner for over 30 graduate students.

• **Professor (Sabbatical leave)**

**Sept 2005 - Sept 2006**

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

Main duties: teaching, research, supervising graduate students, curriculum development.

Research Project: Prevalence of Factor V G1691A (Leiden) and Prothrombin G20210A Polymorphisms among Apparently Healthy Jordanians. Neuroendocrinology Letters. 2007; 28: 699-703

• **Professor, Vice President and Dean of Research (Sabbatical leave)**

**Oct 2013 - Sept 2014**

**Royal University for Medical Sciences. Amman, Jordan**

As a Vice President for Academic Affairs, I served as the chief academic officer of the University and I was responsible for educational policy and academic programs. This includes program review and improvement,

accreditation and self-evaluation, assessment of student learning and advancement of student success, academic personnel decisions, budget development, enrollment management, fiscal accountability, program and curriculum development, and the encouragement and improvement of teaching and learning. I also served as an advisor to the President in matters related to curriculum and instruction, faculty selection, assignment, development, and retention.

As a Dean of Research, I was responsible for establishing the repute of the University as a research university.

- **Post-Doctoral Fellow, Anti-infectives research** **Jul 1996 - Jun 1997**

**SmithKline Beecham Pharmaceuticals R & D. Collegeville, PA, USA**

I was involved in the identification of protein secretion components that might serve as potential targets for the development of new antibacterial agents. Responsible for assessing potential compounds for the ability to inhibit targeted enzymes in vitro and in vivo using HPLC, LC MS/MS and tissue culture techniques.

### **Medical Experience**

- **Medical Director** **Feb 2011 - Feb 2013**

United Laboratory Company. Kuwait

Directly heading Al Seef Hospital Laboratories and the Medical Genetic Laboratory. Responsible for providing comprehensive laboratory diagnostic services in newborn screening, diagnosis of metabolic and hereditary disorders, cancer genetics testing and birth defects affecting fetuses, newborns, children, adolescents and adults.

Ensuring the provision of efficient and effective laboratory services by managing operational activities of the clinical laboratories and pathology services.

- **Medical Director** **Feb 2009-Jan 2011**

MedLabs Medical Services. Kuwait

Directly managing Royale Hayat Hospital Laboratory. Setting up and managing company's standalone laboratories. Ensure the provision of efficient and effective laboratory services. Recruiting, training and evaluating managers and medical technologists.

- **Consultant of Laboratory Medicine**

Princess Basma Teaching Hospital, Irbid, Jordan **Sept 1998 - Sept 2008**

- **General practitioner**

University Clinic, Jordan University of Science and Technology

School of Medicine, Irbid, Jordan **Aug 1990 - Jul 1991**

- **General practitioner**

Ibn-Nafis Private Hospital, Irbid, Jordan **Sept 1989 - Jul 1990**

- **General practitioner**

Royal Health Center, Amman, Jordan, Armed Forces of Jordan **Sept 1987 - Sept 1989**

- **Internship** **Sept 1986-Aug 1987**

Princess Basma Teaching Hospital

Irbid, Jordan

**Education and Certification**

- **Ph.D. Biochemistry, Molecular Biology and Genetics**  
**1996**

**Wake Forest University School of Medicine**

**Winston–Salem, NC, USA**

Thesis title: Mechanistic and catalytic studies of microsomal signal peptidase

Supervisor: Professor Mark O. Lively

- **M.D.** **1986**

**Kiev Medical University,**

**Kiev, Former USSR**

- **Medical Counsel of Jordan** **since July 1986**

MCJ No. 7262

- **Medical Counsel of Canada** **since Sept 2007**

CAMD-0075-8398

- **Kuwait Medical Association** **since April 2009**

KMA 11307

**Honors and Awards**

- Jordan Ministry of Higher Education Scholarship to Medical School
- Jordan University of Science and Technology Scholarship to Wake Forest University School of Medicine
- Acknowledged Distinguished Professor, Abdel Hamid Shouman Association, Amman, Jordan

**Languages**

Fluent in: Arabic, English and Russian

**Computer Skills**

Proficient in MS office, online teaching applications and media

## Publications

1. **Nusier M**, Vijayan Elimban V, Prasad J, Shah AK and Dhalla NS. Regulatory Role of Some Protein Kinases in Signal Transduction Pathways in Heart Health and Disease. *Scripta Medica J*. Accepted
2. **Nusier M\***, Alqudah M, Elimban V, Dhalla NS, Modification of ischemia-reperfusion induced infarct size by ischemic preconditioning in hypertrophied hearts. *Can J Physiol Pharmacol*, 99: 218–223, 2021.
3. **Nusier M**, Ozcelikay AT, Shah AK, Dhalla NS. Role of Intracellular Ca<sup>2+</sup>-overload in cardiac dysfunction in heart disease. *J Clin Cardiol Cardiovasc Interv.* 3(1); Doi:10.31579/2641-0419/038, 2020
4. **Nusier M**, Shah AK, Dhalla NS. Structure-Function Relationships and Modifications of Cardiac Sarcoplasmic Reticulum Ca<sup>2+</sup>-transport. *Physiological Research* – being submitted for publication.
5. Dhalla NS, Elimban V, Shah AK, **Nusier M**. Mechanisms of cardiac dysfunction in heart failure due to myocardial infarction. *J Integ Cardiol Open Access* Doi:10.31487/J. JICOA.2019.04.12, 2019
6. Bhullar SK, **Nusier M**, Shah AK, Dhalla NS, Role of molecular and metabolic defects in impaired performance of dystrophic skeletal muscles, *J Mol Clinic Med*. In press, 2021
7. Tappia PS, Shah AK, **Nusier M** and Dhalla NS. Sex differences in contractile function in cardiac hypertrophy and heart failure subsequent to volume overload. In: Sex Differences in Heart Disease, Advances in Biochemistry in Health and Disease, Vol. 20. Edited by B. Ostadal and NS Dhalla, Springer Nature, Switzerland AG, 111–127, 2020.
8. Dhalla NS, Elimban V, Shah AK and **Nusier M**. Sex-specific differences in  $\beta$ -adrenoceptor signal transduction in heart failure due to volume-overload. In: Sex Differences in Heart Disease, Advances in Biochemistry in Health and Disease, Vol. 20. Edited by B. Ostadal and NS Dhalla, *Springer Nature*, Switzerland AG, 147–158, 2020.
9. Dhalla NS, **Nusier M**, Shah AK, and Tappia PS. Characteristics of intracellular Ca<sup>2+</sup> handling proteins in heart function in health and disease. In: Heart Rate and Rhythm - Molecular Basis, Pharmacological Modulation and Clinical Implications. Edited by Tripathi O, Ravens U, and Quinn TA, Springer Nature, Switzerland AG, 2021, Submitted for publication.
10. Radaideh A, Alkhalidi H, **Nusier M**, Alqudah M. Water clear cell parathyroid adenoma: a report of two cases: giant intrathyroid adenoma with atypical features and small negative scan adenoma. *Bahrain Medical Bulletin*. In Press
11. Dhalla NS, Elimban V, Shah A and **Nusier M**. Mechanisms of Cardiac Dysfunction in Heart Failure due to Myocardial Infarction. *J. INTEGRATIVE CARDIOLOGY OPEN ACCESS*. 2019; <http://dx.doi.org/10.31487/j.JICOA.2019.04.12>
12. Tappia P, Shah A, **Nusier M** and Dhalla NS. Sex differences in contractile function in cardiac hypertrophy and heart failure subsequent to volume overload. In *Advances in Biochemistry in health and diseases 2, Chapter 6*. Doi.org/10/1007/978-3-030-58677-5\_6
13. Alfaqih M., Khader Y., Bashir N., Nusair Z., Nuseir Q. and **Nusier M**. The attitude of Jordanian physicians toward Biochemistry and Genetics. *Biomed Res Int*. 2019 Nov 13;2019:3176951. doi: 10.1155/2019/3176951. eCollection 2019.
14. Radaideh A. and **Nusier M.\*** Postpartum Hypopituitarism and Empty Sella in Type 1 Diabetic Patient, Autoimmune Hypophysitis or Antepartum Pituitary Necrosis? *Psychological Health*. 2019; **2**: 80-88
15. Saadeh N., Alfaqih M, Mansour H., Khader Y., Saadeh R., Al-Dwairi A., **Nusier M**. Serum homocysteine is associated with polycystic ovarian syndrome in Jordan. *Biomed Rep*. 2018; **9**: 439-445
16. Awadallah S, Ramadan A, Nusier M. Haptoglobin polymorphism in relation to antioxidative enzymes activity in type 2 diabetes mellitus. *Diabetes Metab Syndr*. 2013; **7**:26-31
17. **Nusier M.\*** Brodtkorb H, Rein S, Radaideh M., Odeh A., Al Zoubi R., Atoom A. and Klungland H. Serological screening for celiac disease in schoolchildren in Irbid City, Jordan. Is height and weight affected when seropositive? *Ital. J. Ped*. 2010; **36**: 1-6

18. Radaideh A., Jaradat D., Abu-kalaf M., and **Nusier M.\*** Resolution of Severe Oncogenic Hypophosphatemic Osteomalacia after Resection of a Deeply Located Soft Tissue Tumor. *Current Oncology*. 2009; **16**: 87-90
19. Myhre R., Steinkjer S., Stormyr A., Nilsen G., Zayyad H., Horany K., **Nusier M.** and Klungland H. Significance of the parkin and PINK1 gene in Jordanian families with incidences of young-onset and juvenile parkinsonism. *BMC Neurology*. 2008; **8**:47. <http://www.biomedcentral.com/1471-2377/8/47>.
20. Akawi Z. Sawalha D. and **Nusier M.** Alpha-1 antitrypsin Genotypes in Breast Cancer Patients. *J. Health Sci*. 2008; **54**: 493-496
21. Abdul-Razzak K., Almomany E., **Nusier M.** Obediat A. and Salim A. Antioxidant vitamins and glucose-6-phosphate dehydrogenase deficiency in full-term neonates. *Ger. Med. Sci*. 2008; **6**:1-5
22. **Nusier M.\***, Radaideh A., Ababneh N., Qaqish B., AlZoubi R., Khader Y., Mersa J., Irshaid N. and Khateeb M.. Prevalence of Factor V G1691A (Leiden) and Prothrombin G20210A Polymorphisms among Apparently Healthy Jordanians. *Neuroendocrinology Letters*. 2007; **28**: 699-703
23. Abdul-Razzak K., **Nusier M.**, Obediat A., Salim A. Antioxidant vitamins and hyperbilirubinemia in neonates. *Ger. Med. Sci*. 2007; **5**: 1-5
24. **Nusier M.\***, Bataineh H., Bataineh Z. and Daradka H. Effect of Frankincense (*Boswellia thurifera*) on Reproductive System in Adult Male Rat. *J. Health Sci*. 2007; **53**: 365-370
25. **Nusier M.\***, Bataineh H. and Daradka H. Adverse effects of propranolol on reproductive function in adult male mice. *Pakistan J. Biol Sc*. 2007; **10**: 2728-2731.
26. Bataineh Z. and **Nusier M.** Expression of Ubiquitin in the Rat Kidney. *BIOGENIC AMINES*. 2007; **21**:207-214.
27. **Nusier M.\***, Bataineh H., Bataineh Z. and Daradka H. Effects of Ballota nigra on Blood Biochemical Parameters and Insulin in Albino Rats. *Neuroendocrinology Letters*. 2007; **28**: 473-476
28. **Nusier M.\***, Bataineh H., Bataineh Z. and Daradka H. Effects of Ballota nigra on glucose and insulin in alloxan-diabetic Albino Rats. *Neuroendocrinology Letters*. 2007; **28**: 470-472
29. **Nusier M.\***, Bataineh H., Bataineh Z. and Daradka H. Adverse Effects of Rosemary (*Rosmarinus Officinalis L*) on Reproductive Function in Adult Male Rats. *J. Experimental Biology and Medicine*. 2007; **232**: 809-813.
30. **Nusier M.\*** and El-Dwairi Q. Effect of vitamin B12 and folic acid on hyperhomocysteinemia in patients with acute myocardial infarction. *J. Health Sci.*, 2007; **53**: 16-22.
31. Bataineh H. and **Nusier M.\*** Impact of 12-week Ingestion of Sodium Fluoride on Aggression, Sexual Behavior and Fertility in Adult Male Rat. *Fluoride*. 2006; **39**: 293-301.
32. **Nusier M.\*** and Ababneh B. Diagnostic efficiency of CK, CKMB, Troponin I and Troponin T in Patients with Suspected Acute Myocardial Infarction. *J. Health Sci*. 2006; **52**: 180-185.
33. Akawi Z., **Nusier M.** and Fuad Zoughool. Relationship between alpha-1 antitrypsin deficient genotypes S and Z and lung cancer in Jordanian lung cancer patients. *Saudi Med. J*. 2006; **27**: 181-184.
34. Radaideh A., **Nusier M.\*** Akawi Z. and Jaradat D. Precocious Puberty with Congenital Hypothyroidism. *Neuroendocrinology Letters*. 2005; **26**: 253-256.
35. **Nusier M.\*** and Bataineh M. Effects of Boric acid on fertility, Aggressive behavior and Sex Behavior in male rats. *Asian J Chemistry*. 2005; **17**: 2579-2588.

36. Bataineh H. and **Nusier M.**\* Effect of cholesterol diet on reproductive functions in male albino rats. *Saudi med. J.* 2005; **26**: 398-404.
37. Radaideh A., **Nusier M.**, Amari F., Bateiha A., El-khateeb M., Naser A. and Ajlouni K. \* Thyroid dysfunction in patients with type-2 diabetes mellitus in Jordan. *Saudi med. J.*, 2004; **25**: 1046-50.
38. **Nusier M.**\* El-Akawi Z. and Ootom S. The association of blood biochemical parameters with myocardial infarction. *J. Health Sci.*, 2004; **50**: 666-669.
39. **Nusier M.**, Yassin O., Hart T., Samimi A., J. Wright T. Phenotypic diversity and revision of the nomenclature for autosomal recessive amelogenesis imperfecta. *J. Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontics*, 2004; **97**: 220-230.
40. **NusierM.**\* Shawakfeh, K., and Ootom S. Pysio-chemical properties of gallstones. *Asian J. Chemistry*. 2004; **16**: 213-219.
41. **Nusier M.**\* El-Akawi Z. and Bani hani I. Blood lead levels and  $\gamma$ -glutamyl transferase activity in battery factories workers in Jordan. *Saudi med. J.*, 2003; **24**: 941-944.
42. Ootom S., **Nusier M.**, Hasan M., Hadidi H., Samawi R., Younes A., Darweesh M., Boulatova N. The association of polycystic ovaries with the use of valproate in Jordanian epileptic patients. *Clinical Drug Investigation*. 2003; **23**: 527-532.
43. **Nusier M.**, Zhang Y., Yassin O., Hart T., Hart S. Demonstration of altered splicing with the ivs3-1g-a mutation of cathapsin C. *J. Molecular Genetics and Metabolism*, 2002; **75**: 280-283.
44. Bataineh Z. and **Nusier M.** Metallothionein expression in human prostate gland. *Saudi med. J.* 2003; **24**:1246-1249.
45. Ootom S. and **Nusier M.** Effect of lamotrigine on a novel model of epilepsy *Cytobios*, 2001; **106**: 75-83.
46. Hart T, Hart S, Michalec M, Zhang Y, Marazita M, Cooper M, Yassin O, **Nusier M**, Walker S. Localization of a gene for prepubertal periodontitis to chromosome 11q 14 and identification of a cathepsin c gene mutation. *J. Med. Genet.* 2000; **37**: 95-101.
47. **Nusier M.**\* El-Migdadi F. and Bashir N. Serum levels of glucose, lactate, insulin, adrenocorticotropin, cortisol, leutinizing hormone and testosterone in young and elderly people of the Jordan valley. *Molecular Steroidogenesis*. 2000; **29**: 351-352.
48. Amr Z. and **Nusier M.** Pediculosis capitis in northern jordan. *Int. J. Dermatology*. 2000; **37**: 1-3.
49. El-Migdadi F., **Nusier M.** and Bashir N. Seasonal pattern of leutinizing, follicle-stimulating hormone, testosterone and progesterone in adult population of both sexes in the Jordan valley. *J. Endocrin. Res.* 2000; **26**: 41-48.
50. Lively M., Newsome A. and **Nusier M.** Eukaryote microsomal signal peptidases. In: proteolytic enzymes: serine and cysteine peptidases (Barrett, A.J., ed.), Vol.244 in Methods in Enzymology (Abelson, J.N. and Simon, M.I., eds.), Academic Press, Inc., SanDiego, California, U.S.A. 301–314, 1994.

# **ABSTRACTS & CONFERENCES:**

1. The Association Between Serum Levels of Branched Chain Amino Acids and Type 2 Diabetes Mellitus in Jordan. The 6th Seoul International Congress of Endocrinology and Metabolism (SICEM 2018) Seoul, Korea. 19-22 April 2018.
2. The 8<sup>th</sup> International Scientific Conference of the Faculty of Medicine. Jordan University of Science and Technology. Integrated research session moderator. 15-17 April 2016.
3. The 9<sup>th</sup> Anniversary of JoHeart Journal. Amman, Jordan. Celiac Disease and Gluten Sensitivity. 31 March 2016. **Invited speaker.**
4. The Fourth International Conference of Medical Genetics in Kuwait. Newborn screening a 50 years Journey, Kuwait, April 2012. **Invited speaker.**
5. Human Genome Meeting (HUGO) and Arabpan meeting. Dubai, UAE. 15-17 March 2011.
6. Risk Markers for Acute Myocardial Infarction. United Congress on Laboratory Management & Medicine. Kuwait. 26-28 April 2010. **Invited speaker.**
7. Can the effect of sodium fluoride on aggression, sexual activity and fertility in rats be reversed by vitamin E?  
Fluoride Research (ISFR) 28th Conference (Aug 7 - 11) Aug 7 to Aug 11, 2008, UFT, Mississauga, ON. Toronto, Canada.
8. Alpha-1 antitrypsin genotypes in breast cancer patients. The Third International Symposium on the Molecular Biology of Breast Cancer Meeting. Molde, Norway. 22–26 June 2005. *Breast Cancer Research* 2005, 7(Suppl 2):P1.19 (17 June 2005)
9. The XVIII World Congress of the International Society for Heart Research. Australia The Role of P38 Mitogen Activated Protein Kinase Phosphorylation in Preconditioning in Hypertrophied Rabbit Heart. 7-11 August 2004.
10. Demonstration of Altered Splicing with the IVS3-1G-A mutation of Cathapsin C. *3<sup>rd</sup> International Conference on Cysteine proteinases and their inhibitors. Portoroz, Slovenia, 14-18 September 2002. Invited speaker.*
11. The Diagnostic Efficiency of Cardiac Troponin I(CTNI) in Patients with Acute Myocardial Infarction. 6<sup>th</sup> International Symposium on GLOBAL RISK OF CORONARY HEART DISEASE AND STROKE: Assessment, Prevention, and Treatment. Florence, June 2002.
12. The Diagnostic Efficiency of Cardiac Troponin T (CTNT) in Patients with Acute Myocardial Infarction. *The Third Jordanian Medical Congress. The 16<sup>th</sup> Annual Scientific Day of the Faculty of Medicine.* Jordan University of Science and Technology, School of Medicine. Irbid. Jordan. 17-18 April 2002.
13. Staphylococcus Aureus is the Major cause for Postoperative Wound Infection in Prince Rashid Ben Al-Hassan Hospital. *The Third Jordanian Medical Congress. The 16<sup>th</sup> Annual Scientific Day of the Faculty of Medicine.* Jordan University of Science and Technology, School of Medicine. Irbid. Jordan. 17-18 April 2002.
14. Risk Factors Associated with Coronary Heart Disease. *The First Jordanian Medical Congress. The 15<sup>th</sup> Annual Scientific Day of the Faculty of Medicine.* Jordan University of Science and Technology, School of Medicine. Irbid. Jordan. 10-12 April 2001.
15. Genotyping of Papillon–Lefèvre syndrome and Prepubertal Periodontitis. *The 14<sup>th</sup> Annual Scientific Day of the Faculty of Medicine.* Jordan University of Science and Technology, School of Medicine. Irbid. Jordan. 10-12 April 2000.
16. Serum Levels of Glucose, Lactose, Insulin, Adrenocorticotropin, Cortisol, Luteinizing Hormone and Testosterone in Young and Elderly People of the Jordan Valley. *The 52<sup>nd</sup> Yamada Conference, International Symposium on Molecular Steroidogenesis,* Nara Japan. 25-28 August 1999.



17. Seasonal Pattern of Luteinizing, Follicle-Stimulating Hormone, Testosterone and Progesterone in Adult Population of both Sexes in the Jordan Valley. *The 52<sup>nd</sup> Yamada Conference, International Symposium on Molecular Steroidogenesis*, Nara Japan. 25-28 August 1999.
18. Selective and specific Inhibitors of Bacterial Signal Peptidase, Potential Antibacterial Agents. *SmithKline Beecham Stanford University Symposium*. The Conference Center, SmithKline Beecham Pharmaceuticals, Upper Providence. Collegeville, PA, U.S.A. 16-17 December 1996
19. Inhibition of Microsomal Signal Peptidase by Site-Specific Serine Proteases Inhibitors. *Amer. Soc. Biochem. Mol. Biol.*, New Orleans, U.S.A. 1996.
20. Microsomal Signal Peptidase: Inhibition by Site-Specific Serine Proteases. *Protein Science*, Vol. **4**, Suppl. 1, p. 85 (1995).
21. Development of Quantitative Assay for Microsomal Signal Peptidase. *Protein Science*, Vol. **3**, Suppl. 1, p. 106 (1994).

References are available upon request