

## **CURRICULUM VITAE**

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### **YASSER KH. BUSTANJI, PH.D.**

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الأستاذ الدكتور ياسر البستاني  
أستاذ الكيمياء الحيوية الطبية  
كلية الصيدلة  
الجامعة الأردنية

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### **PERSONAL INFORMATION:**

- ❖ Date of Birth: June 14<sup>th</sup>, 1973
- ❖ Nationality: Jordanian
- ❖ Marital Status: Married

### **EDUCATION:**

- ❖ Ph.D. in Medical Biochemistry (Pharmaceutical Sciences), April 2002, University of Bologna, Bologna, Italy.
- ❖ B.Sc. Pharmacy, June, 1996, University of Jordan, Amman, Jordan

### **PROFESSIONAL EXPERIENCE AND TRAINING:**

<b>Jul 2011 - Current</b>	Professor, Department of Biopharmaceutics and Clinical Pharmacy
<b>Aug 2011-Current</b>	Vice Dean, Faculty of Pharmacy, University of Jordan
<b>Nov 2010 - 2011</b>	Chairman, Department of Biopharmaceutics and Clinical Pharmacy, Faculty of Pharmacy, Jordan University, Amman Jordan.
<b>2010- Current</b>	Member of the Faculty of Pharmacy Council.
<b>July 2008 – 2013</b>	Member of the Bioequivalence and Biowaiver Committee, Jordan Food and Drug Administration (JFDA), Amman, Jordan.
<b>2010-current</b>	Consultant with the Jordan Food and Drug Administration GMP Inspection teams.
<b>2008-Current</b>	Consultant, SANA Pharmaceutical Research
<b>2003/2004</b>	Member of the Faculty of Pharmacy Council.
<b>2005/2006</b>	Faculty Representative in the University Council.
<b>1996-1996</b>	The United Pharmaceutical Manufacturing Company, Research and Development Department, Sahab, Jordan

Yasser Bustanji, Ph.D.

<b>May 2007 - Jul 2011</b>	Associate Professor, Department of Biopharmaceutics and Clinical Pharmacy
<b>Sep 2007- Sep 2008</b>	Associate Professor, Faculty of Pharmacy, Applied Science University
<b>Apr2002- May2007</b>	Assistant Professor, Department of Biopharmaceutics and Clinical Pharmacy, Faculty of Pharmacy, Jordan University, Amman Jordan
<b>Nov 1998-Mar 2002</b>	Ph.D. candidate, Department of Pharmaceutical sciences, University of Bologna, Bologna, Italy.
<b>Sep 1996-Nov 1998</b>	Teaching assistant at the faculty of Pharmacy, Jordan University

**COMMITTEES MEMBERSHIPS:**

<b>1996-current.</b>	Jordan Pharmaceutical Association (Jordan).
<b>2000-2002</b>	Italian Chemical Society (Italy).
<b>2008 – Current</b>	Member in national centre of Biotechnology
<b>2011 – Current</b>	Member in Intel Price evaluation committee
<b>2003/2004</b>	Member of the Faculty of Pharmacy Council.
<b>2005/2006</b>	Faculty Representative in the University Council.
<b>2003-2004</b>	Member in Scientific Research Committee (Faculty of Pharmacy/ University of Jordan).
<b>2005/2006</b>	Chairman of Scientific Research Committee (Faculty of Pharmacy/ University of Jordan).
<b>2003-2004</b>	Chairman of the Public Safety Committee (Faculty of Pharmacy/ University of Jordan).
<b>2007-2008</b>	Chairman of jury committee (Faculty of Pharmacy/ University of Jordan).
<b>2009-2010</b>	Chairman of the Public Safety Committee (Faculty of Pharmacy/ University of Jordan).
<b>2009-2010</b>	Instruments and laboratories Committee (Faculty of Pharmacy/ University of Jordan).
<b>2010 – Current</b>	Comprehensive Exam Committee for master students (Faculty of Pharmacy/ University of Jordan).
<b>2014/2015</b>	Faculty Representative in the University Council.

**CONSULTATIONS AND INDUSTRIAL PROJECTS:**

1. Screening of drug-excipients incompatibility: Pre-formulation studies for development of new products: Development of Risperidone pharmaceutical product: pre-formulation studies. This project was co-sponsored by Jordan Sweden Medical Company (JOSWE) and Faculty For Factory program. Aug-Nov 2006.
2. Revision and updating the system of adopting the bioequivalence studies received from the contract research organization (CRO). This project was co-sponsored by RAM Pharma and Faculty For Factory program. Aug-Nov 2009.
3. Development of stable aqueous dosage form for diminazene aceturate. This project was co-sponsored by Arab veterinary industrial company (AVICO) and Faculty for Factory program. Aug-Nov 2005.
4. Comparative Pharmacodynamic Study: An Evaluation of the In-vitro Bioequivalence of Pharmaceutically Equivalent Products of Heparin; Hikma-Heparin<sup>®</sup> 5000 IU/ml, Hikma-Heparin<sup>®</sup> 25000 IU/ml and Heparin LEO<sup>®</sup>. This project was done for Hikma pharmaceuticals.
5. In-vivo comparative study: The effect of both Hikma-Heparin<sup>®</sup> 5000 IU/ml and Hikma-Heparin<sup>®</sup> 25000 IU/ml on blood coagulation compared to that of Heparin LEO<sup>®</sup> in rats using activated partial thromboplastin time. This project was done for Hikma pharmaceuticals.
6. Conducting Clinical/Nonclinical Expert Reports for several pharmaceutical companies.
7. Development of validation system for starting material management according to the good manufacture practice guide lines. This project was co-sponsored by Arab veterinary industrial company (AVICO) and Faculty For Factory program. Aug-Nov 2005.
8. Evaluation of Biochemical Factors Affecting the Brined Olive Process: Their Influence on Final Texture, Colour and Industrial losses. This project was co-sponsored by Al-Delil Pickles and Food Proc. Factory and Faculty For Factory program. Aug-Nov 2007
9. Characterization and Toxicity Evaluation of Some Herbal Pharmaceutical Products Using Animal Models. This project was co-sponsored by SANA pharmaceutical research and Faculty For Factory program. Aug-Nov 2008
10. A simple and rapid high-performance liquid chromatographic method for the determination of Umckalin, as an herbal marker, in the cough syrup of pelargonium extract. This project was done for SANA Pharmaceutical Research Co.
11. Potency determination and bioassay for different biological products available in Jordan (erythropoietin, streptokinase, Palivizumab, vaccines). A project sponsored by Jordan Drug and Food Administration (JFDA).
12. Acute Oral Toxicity Study of Thyme – Primulae Syrup in Albino Rats. A study required for registration of the product in JFDA. This project was sponsored by Sana Pharmaceutical Research Co.
13. Acute Oral and Topical Toxicity Study of Liale<sup>®</sup>. A study required for registration of the product in JFDA. This project was sponsored by Sana Pharmaceutical Research Co.

14. Acute Oral and Topical Toxicity Study of Dilamuc®. A study required for registration of the product in JFDA. This project was sponsored by Sana Pharmaceutical Research Co.
15. In Vivo Repeated Dose 28-Day Oral Toxicity studies of Ivy-Liquorice-Thyme syrup (Dilamuc®) in Albino Rats. A study required for registration of the product in JFDA. This project was sponsored by SANA Pharmaceutical Research Co.

#### **FIELD OF EXPERTISE & RESEARCH INTERESTS**

- ❖ Screening of new compounds and medicinal plants to identify novel inhibitors of key enzymes that dictate the pathophysiology of chronic human illnesses such as cancer and various endocrinologic abnormalities.
- ❖ Development and in vitro / in vivo evaluation of drug delivery platforms for medications used in the management of chronic diseases.
- ❖ Analysis of drug and herbal products: optimization of methods of analysis and standardization of natural and pharmaceutical products using various analytical techniques.
- ❖ Discovery of new plant-originated drugs based on the traditional use of the plants coupled with in vivo testing of promising compounds using select animal models including toxicity studies to insure safety for human us
- ❖ Application of computer-aided molecular design techniques and molecular modeling studies towards the discovery and design of new biologically active compounds. Special emphasis on developing new agents with hypoglycemic/hypolipidemic dual activities for the management of diabetes.

#### **AWARDS & SCHOLARSHIPS:**

1. Ali Mango Prize for Distinguished Researcher for the Academic Year 2014
2. University of Jordan Prize for Research Distinction during the Academic Year 2011/2012
3. University of Jordan Prize for Research Distinction during the Academic Year 2010/2011
4. University of Jordan Prize for Research Distinction during the Academic Year 2009/2010
5. AL-Najah University Research Award for the year 2009 for the paper entitled: "Combining Ligand-Based Pharmacophore Modeling, QSAR Analysis and In -Silico Screening for the Discovery of New Potent Hormone Sensitive Lipase Inhibitors".
6. The primer of Carla Milanase award for the best oral presentation at the 5th Multinational Congress on Electron Microscopy, September 20th-25th, 2001. Lecce, Italy.
7. Ph.D. Graduate Scholarship, 1998-2002, Ministry of Italian foreign Affairs and University of Jordan.
8. Scientific Achievement Scholarship, 1991-1996, Ministry of Higher Education Amman, Jordan

**PROFESSIONAL PUBLICATIONS:**

1. Shereen Aleidi, Ala Issa, Haidar Bustanji, Mohammad Khalil and Yasser Bustanji. Adiponectin Serum Levels Correlate with Insulin Resistance in Type 2 Diabetic Patients. **Saudi Pharmaceutical Journal**, accepted.
2. Mohammad Mohammad1, Hiba Zalloum, Violet Kasabri, Rabab Tayyem, Eman AbuRish, Yusuf Al-Hiari, Yasser Bustanji. Antilipolytic property of curcumin: Molecular docking and kinetic assessment. **Submitted**.
3. Eman Y. Abu-rish, Mohammad K. Mohammad, Mohammad M. Hudaib. Sundus Mashalla, Loay Mashallah, Violet Kasabri, Khaled Tawaha, Yasser K. Bustanji. In vitro evaluation of the antiproliferative activity of some medicinal plants from the Jordanian Flora. **Submitted**.
4. Violet Kasabri, Fatma U. Afifi, **Yasser Bustanji**, Sundus Mashallah, Randa Naffa. In vitro Enhancement of Pancreatic  $\beta$  cells MIN6 Proliferation by Insulinotropic *Gymnema sylvestre* Aqueous Extracts: Evidence-based Regenerative Therapeutic Capacity of a Medicinal Herb. **British Journal of Medicine & Medical Research. In press**
5. Violet Kasabi et al. In vitro modulatory effects of *Salvia* species from Jordan and selected volatile constituents of metabolic syndrome enzymes; pancreatic lipase,  $\alpha$ -amylase and  $\alpha$ -glucosidase and proliferation of obesity related-colorectal cancer cell line panel. **REVUE ROUMAINE DE CHIMIE. In press**
6. Yaseen Abdelrahman, Mohammad Fararjeh, Wesam Abdel-Razeqa, Mohammad K. Mohammad, Yasser Bustanji. Assessment of Possible Immunotoxicity of the Antipsychotic Drug Clozapine. **Journal of Pharmacy and Pharmacology**. 2014,66:378-86
7. Yusuf M. Al-Hiari, Violet Kasabri, Ashok K. Shakya, Muhammad H. Alzweiri, Fatma U. Afifi, Yasser K. Bustanji1, Ihab M. Al-masri. Fluoroquinolones: Novel class of gastrointestinal dietary lipid digestion and absorption inhibitors. **Medicinal Chemistry Research**. 2014, 23: 3336-3346
8. Tarek M. K. Motawi, Mohamed A. S. Al Ghussein, Shohda EL-Maraghy, Mutasem O. Taha and Yasser Bustanji. Evaluation of Naproxen and Cromolyn Activities against Cancer Cells Viability, Proliferation, Apoptosis, p53 and Gene Expression of Survivin and Caspase-3. **Journal of Enzyme Inhibition and Medicinal Chemistry**. 2014, 29:153-61.
9. Mohammad Hudaib, Khaled Tawaha, **Yasser Bustanji**, Chemical Profile of the Volatile Oil of Lemon verbena (*Aloysia citriodora* Paláu) Growing in Jordan. **Journal of Essential Oil Bearing Plants**. 2013, 16 568-574
10. E Entisar K. Al-Hallaq, Violet Kasabri, Shtaywy S. Abadalla, Yasser K. Bustanji, Fatma U. Afifi-Yaza. Anti-obesity and antihyperglycemic effects of *Crataegus aronia* extracts: In vitro and in vivo evaluations. **Food and Nutrition Sciences**, 2013, 4, 972-983
11. Tarek M. K. Motawi1, Mohamed A. S. Al Ghussein, Shohda EL-Maraghy, Mutasem Taha and Yasser Bustanji. Naproxen and Cromolyn as New Glycogen Synthase Kinase 3 $\beta$  Inhibitors: by Molecular Modeling Techniques and subsequent in vitro/in vivo Biochemical

- Evaluation to be used in the treatment of Diabetes and Obesity. **Journal of Biochemical and Molecular Toxicology**. 2013; 27:425-36.
12. Areej M. Assaf, Randa N. Hadaddin, Nedhal A. Aldouri, Reem Alabbassi, Sundus Mashallah, Mohammad Mohammad, Yasser Bustanji. Anti-cancer, Anti-inflammatory and Anti-microbial activities of plant extracts used against hematological tumors in traditional medicine of Jordan. **Journal of Ethnopharmacology**. 2013 145:728-36.
  13. Mohammad Mohammad, Ihab M. Al-masri, Ala Issa, Ayman Khdair, **Yasser Bustanji**. Inhibition of pancreatic lipase by berberine and dihydroberberine: an investigation by docking simulation and experimental validation. **Medicinal Chemistry Research**. 2013; 22:2273–2278.
  14. Mo'ez Al-Islam Ezzat Faris, Rand Nidal Hussein, Ref'at Ahmad Al-Kurd, Mohammed Ahmed Al-Fararjeh, **Yasser Bustanji**, and Mohammad Mohammad. Impact of Ramadan Intermittent Fasting on Oxidative Stress Measured by Urinary 15- Isoprostane. **Journal of Nutrition and Metabolism**. 2012, Article ID 802924, 9 pages
  15. Mohammad Mohammad, Ihab M. Al-Masri, Ala Issa, Mohamed A.S. Al-Ghussein, Mohammad Fararjeh, Hatim Alkhatib, Mutasem O. Taha, **Yasser Bustanji**. Famotidine inhibits glycogen synthase kinase-3 $\beta$ : An investigation by docking simulation and experimental validation. **Journal of Enzyme Inhibition and Medicinal Chemistry**. 2012. in press
  16. **Yasser Bustanji**, Nedhal AlDouri, Ala Issa, Sundus Mashallah, Areej Assaf, Talal Aburjai, Mohammad Mohammad. Cytotoxic effect of *Mercurialis annua* L. methanolic extract on six human solid cancer cell lines. **Scientific Research and Essays**. 2012, 7: 3218-3222.
  17. "Mo'ez Al-Islam" E. Faris, Safia Kacimi, Ref'at A. Al-Kurd, Mohammad A. Fararjeh, Yasser K. Bustanji, Mohammad K. Mohammad, Mohammad L. Salem. Intermittent Fasting during Ramadan Attenuates Proinflammatory Cytokines and Immune Cells in Healthy Subjects. **Nutrition Research**. 2012, 32: 947 – 955
  18. Mohammad A. Fararjeh, Abdulrahim AlJamal, "Mo'ez Al-Islam" E. Faris, Ref'at A. Al-Kurd, Mohammad Khalil, **Yasser Bustanji**. Effect of intermittent fasting on lipid profile and hematological parameters in healthy volunteers in Jordan. **Universal Journal of Medicine and Dentistry** 2012, 1: 5-9.
  19. Suhair Saleh, Mohammad Mohammad, Sundus H. Mashallah, Eman Elayeh, Ihab AlMasri, Hatim S. AlKhatib, Mohammad Fararjeh, **Yasser Bustanji** Inhibition of DPP IV is a suggested mechanism of the Immunomodulatory effects of Sparfloxacin. **Scientific Research and Essay**. 2012, 7: 310-317.
  20. Mohammad Hudaib, Khaled Tawaha, Mohammad Mohammad, Areej Assaf, Ala Issa, Feras Alali, Talal Aburjai and **Yasser Bustanji**. Screening of Xanthine Oxidase Inhibitory Activity of Methanolic Extracts of Selected Medicinal Plants. **Pharmacognosy Magazine**. 2011, 7:320-324.

21. Jameel Bzour, Sawsan Oran, Mohammad Mohammad, Sundus Mashallah, **Yasser Bustanji** Inhibitory effects of methanolic extract of *Salvia fruticosa* Mill. on pro-inflammatory cytokines production in RAW 264.7 *in vitro* cellular model and in Balb/c mice *in vivo* animal model. **Journal of Medicinal Plant Research. 2011, 5: 6662–6671.**
22. **Yasser Bustanji**, Ala Issa, Mohammad Hudaib, Ahlam Moulay, Khaled Tawaha, Mohammad Mohammad, Saja Hamed, Ihab Masri, Feras Q. Alali. Hormone Sensitive Lipase Inhibition by Selected Medicinal Plants. **Journal of Medicinal Plant Research. 2011, 5: 4405-4410.**
23. Ala Issa, Mohammad Mohammad, Mohammad Hudaib, Khalid Tawah, Talal Abu Rjai, Sawsan Oran, **Yasser Bustanji**. A potential role for *Lavandula angustifolia* in the management of diabetic dyslipidemia **Journal of Medicinal Plant research. 2011 5: 3876-3882.**
24. **Yasser Bustanji**, Ihab M. Al-Masri, Mohammad Hudaib, Khaled Tawaha, Mohammad Mohammad, Hatim S. Alkhatib. Pancreatic lipase inhibition activities of Trilactone Terpenes of *Ginkgo biloba*. **Journal of Enzyme Inhibition and Medicinal Chemistry. 2011, 26:453-459**
25. Rana Abu Farha, Mohammad Fararjah, Ala Issa, Mohammad Mohammad, Hatem AlKhatib, Suhair Saleh and **Yasser Bustanji**. Evaluation of the In-vitro and In-vivo therapeutic equivalence of two Pharmaceutically Equivalent Heparin Products. **Scientific Research and Essays 2011, 6: 388-393.**
26. Ala Issa, Khaled Aeidah, Samer Najjar, Raa'd Salah, Eman Abu-Gharbieh, **Yasser Bustanji**, Mohammad Mohammad. Acute oral safety study of Thyme – Primulae Syrup in Albino Rats. **Jordan Journal of Pharmaceutical Sciences. 2011 4: 166-172.**
27. Ayman Khdaire, Mohammad Mohammad, Khaled Tawaha, Eman Al-Hamarsheh, Hatim AlKhatib, Bashar Al-khalidi, **Yasser Bustanji**, Samer Najjar and Mohammad Hudaib. A Validated RP HPLC-PAD Method for the Determination of Hederacoside C in Ivy-Thyme Cough Syrup. **International Journal of Analytical Chemistry. 2010, Article ID 478143, 5 pages.**
28. Mohammad K. Mohammad, Rabab Tayym, Saja Hamed, Ihab M. Almasri, Hatim Alkhatib, Mohammad Hudaib & Yasser Bustanji. Development of a New Animal Model-Bioassay Procedure for the Evaluation of Xanthine Oxidase Inhibitors. **Scientific Research and Essays 2010, 5: 3750-3755.**
29. **Yasser Bustanji**, Ala Issa, Mohammad Mohammad, Mohammad Hudaib, Khalid Tawah, Hatim AlKhatib, Ihab AlMasri and Bashar Al-Khalidi. Inhibition of hormone sensitive lipase and pancreatic lipase by *Rosmarinus officinalis* extract and selected phenolic constituents. **Journal of Medicinal Plant research. 2010, 4: 2235-2242**
30. Mohammad Mohammad, Ihab M. Almasri, Khaled Tawaha, Ala Issa, Afaf Al-Nadaf, Mohammad Hudaib, Hatim S. AlKhatib, Eman Abu-Gharbieh, **Yasser Bustanji**. Antioxidant, antihyperuricemic and xanthine oxidase inhibitory activities of *Hyoscyamus reticulatus*. **Pharmaceutical Biology. 2010, 48: 1376-1383**

31. Eman Abu-Gharbieh, **Yasser Bustanji** and Mohammad K. Mohammad. In vitro effects of *Micromeria fruticosa* on human leukocyte myeloperoxidase activity. **Journal of Pharmacy Research** **2010**, 3: 2492-2493
32. Hatim AlKhatib, Saja Hamed, Samer Najjar, Mohammad Mohammad, **Yasser Bustanji**, Khaled Aiedeh, Bashar AlKhalidi. Effects of Thermal Curing Conditions on Drug Release from Polyvinyl Acetate – Polyvinyl Pyrrolidone Matrices. **AAPS PharmSciTech**, **2010**, **11**: 253-66.
33. Rima Abu-Khalaf, Ghassan abuShikha, **Yasser Bustanji**, Motassem Taha, Discovery of new cholesteryl ester transfer protein inhibitors via ligand-based pharmacophore modeling and QSAR analysis. **European Journal of Medicinal Chemistry**, **2010**, **45**:1598-1617
34. **Yasser Bustanji**, Ihab M. Al-masri, Amal Albakri, Ahmad Qasem, Mutasem O. Taha. In Silico Screening for Non-Nucleoside HIV-1 Reverse Transcriptase Using Physicochemical Filters and High Throughput Docking Followed by In Vitro Evaluation. **Chemical Biology and Drug Design**, **2009**; 74: 258–265
35. Mo'z Al-Islam" Faris, Hamed R. Takruri, Maha. S. Shomaf, **Yasser Bustanji**. Chemopreventive effect of raw and cooked lentils (*Lens culinaris* L) and soybeans (*Glycine max*) against Azoxymethane-induced aberrant crypt foci. **Nutrition Research**. **2009**; 29(5):355-62
36. **Yasser Bustanji**, Mutasem O. Taha, Ihab M. Almasri and Mohammad, K. Mohammad. Docking Simulations and In vitro Assay Unveil Potent Inhibitory action of Papaverine against Protein Tyrosine Phosphatase 1B **Biological & Pharmaceutical Bulletin**. **2009**; 32:640-645
37. **Yasser Bustanji**, Mutasem O. Taha, Ihab M. Almasri, Mohamed A.S. Al-Ghoussein, Mohammad, K. Mohammad, and Hatim S. AlKhatib. Inhibition of Glycogen Synthase Kinase by Curcumin: Investigation by Simulated Molecular Docking and Subsequent in vitro/in vivo evaluation. **Journal of Enzyme Inhibition and Medicinal Chemistry**. **2009**; 24(3): 771–778
38. Amal Bakri, A. Othman, **Yasser Bustanji**. The Assessment of the antibacterial and antifungal activities of aspirin, EDTA and aspirin-EDTA combination and their effectiveness as antibiofilm agents. **Journal of Applied Microbiology**. **2009**: 107, 280–286.
39. Mutasem O. Taha, Lina A. Dahabiyeh, **Yasser Bustanji**, Hiba Zalloum, Suheer Saleh. Combining Ligand-Based Pharmacophore Modeling, Quantitative Structure–Activity Relationship Analysis and in Silico Screening for the Discovery of New Potent Hormone Sensitive Lipase Inhibitors. **Journal of Medicinal Chemistry**. **2008**, 51, 6478-94
40. Hatim S. AlKhatib, Khaled M. Aiedeh, **Yasser Bustanji**, Saja Hamed, Mohammad K Mohammad, Bashar AlKhalidi, Samer Najjar. Modulation of Buspirone HCl Release from Hypromellose Matrices Using Chitosan Succinate: Implications for pH Independent Release. **European Journal of Pharmaceutics and Biopharmaceutics**, **2008**, 70, 804-812
41. Mohammad Hudaib, Mohammad Mohammad, **Yasser Bustanji**, Rabab Tayyem, Mohammed Yousef, Mustafa Abuirjeie, and Talal Aburjaie. Ethnopharmacological Survey of



- Medicinal Plants in Jordan, Mujib Nature Reserve and Surrounding Area. **Journal of Ethnopharmacology**. **2008**, 120, 63-71
42. Nizar Al-Zoubi, Hatim Alkhatib, **Yasser Bustanji**, Khaled Aiedeh, Malamataris, S. Sustained-release bupirone HCl microparticles produced by cospray-drying with aqueous polymeric dispersions. **European Journal of Pharmaceutics and Biopharmaceutics**, **2008**, 69, 735-742.
  43. Mutasem O. Taha, **Yasser Bustanji**, Mohamed A.S. Al-Ghusein, Mohammad Mohammad, Hiba Zalloum, Ihab M. Al-Masri and Naji Atallah. Pharmacophore Modeling, QSAR Analysis and In Silico Screening Reveal Potent GSK-3 $\beta$  Inhibitory Activities for Cimetidine, Hydroxychloroquine and Gemifloxacin. **Journal of Medicinal Chemistry**, **2008**, 51, 2062-2077.
  44. Mohammad K. Mohammad, Ihab M. Al-masri, Mutasem O. Taha, Mohamed A.S. Al-Ghusein, Hatim S. AlKhatib, Samer Najjar, **Yasser Bustanji**. Olanzapine Inhibits Glycogen Synthase Kinase-3 $\beta$ : An Investigation by Docking Simulation and Experimental Validation. **European Journal of Pharmacology**, **2008**, 584 185-191.
  45. Bashar A. Alkhalidi , Majed Shtaiwi, Hatim S. AlKhatib, Mohammad Mohammad, **Yasser Bustanji** A comparative study of First derivative Spectrophotometry and High-Performance Liquid Chromatography Applied to the determination of Repaglinide in Tablet and in Dissolution Testing. **Journal of AOAC International**. **2008**, 91, 530-535.
  46. Mohammad Fararjeh, Mohammad K. Mohammad, **Yasser Bustanji**, Hatim AlKhatib, Shtaywy Abdalla. Evaluation of immunosuppression induced by metronidazole in Balb/c mice and human peripheral blood lymphocytes. **International Immunopharmacology**. **2008**, 8, 341–350.
  47. Al-Motassem Yousef, Amal G. Al-Bakri, **Yasser Bustanji**, Mayyadah Al-Wazaify. Self Medication and Its Predictors among Jordanian Population. **Pharmacy World & Science**, **2008**, 30:24-30
  48. Nizar Al-Zoubi, Hatim Alkhatib, **Yasser Bustanji**, Khaled Aiedeh. Sustained-release bupirone HCl microparticles produced by cospray-drying with aqueous polymeric dispersions. **European Journal of Drug Metabolism and Pharmacokinetics**. **2007**; 32:79.
  49. Mutasem O. Taha, **Yasser Bustanji**, Amal Al-Bakri. Al-Mutasem Fahmi, Waleed A. Zalloum, Ihab Al-Masri, Naji Atallah. Discovery of New Potent Human Protein Tyrosine Phosphatase Inhibitors via Pharmacophore and QSAR Analysis Followed by In-Silico Screening. **Journal of Molecular Graphics and Modelling**. **2007**; 25 (5):870-884.
  50. Khaled M. Aiedeh, Mutasem O. Taha, Yusuf Al-Hiari, **Yasser Bustanji**, Hatim S. Alkhatib. Effect of Ionic Crosslinking on the Drug Release Properties of Chitosan Diacetate Matrices. **Journal of Pharmaceutical Sciences** **2007**;96:38-43.
  51. **Yasser Bustanji**, Mutasem O. Taha, Al-Motassem Yousef and Amal G. Al- Bakri. Berberine Potently Inhibits Protein Tyrosine Phosphatase 1B: Investigation by Docking

- Simulation and Experimental Validation. **Journal of Enzyme Inhibition and Medicinal Chemistry** 2006; 21:163-171.
52. Hatim Alkhatib, Mutasem Taha, Khaled Aiedeh, **Yasser Bustanji**, Bassam Sweileh. Synthesis and In Vitro Behavior of Iron-Crosslinked N-Methyl and N-Benzyl Hydroxamated Derivatives of Alginic Acid as Controlled Release Carriers. **European Polymer Journal** 2006; 42: 2464–2474.
53. **Yasser Bustanji**, Mutasem O. Taha, Al-Motassem Yousef Amal G. Al- Bakri. Protein Tyrosine Phosphatase 1B Inhibition by Berberine. **Saudi Pharmaceutical Journal** 2005; 13(4 S):78
54. Amal G. Al-Bakri, **Yasser Bustanji**, Al-Motassem Yousef. Common Consumption of Antibacterial Drugs within the Jordanian Population: Sources, Patterns and Appropriateness. **International Journal of Antimicrobial Agents** 2005; 26: 389–395.
55. **Yasser Bustanji**, Carla Renata Arciola, Matteo Conti, Enrico Mandello, Lucio Montanaro, Bruno Samorì. Dynamics of The Interaction between a Fibronectin Molecule and a Living Bacterium under Mechanical force. **Proceeding of the National Academy of Sciences USA (PNAS USA)** 2003; 100: 13292–13297.
56. Carla Renata Arciola, **Yasser Bustanji**, Matteo Conti, Davide Campoccia, Lucilla Baldassarri, Bruno Samorì, Lucio Montanaro. Staphylococcus epidermidis-Fibronectin Binding and Its Inhibition by Heparin. **Biomaterials** 2003; 24: 3019–3023 .
57. **Yasser Bustanji** and Bruno Samorì. The Mechanical Properties of Human Angiostatin Can Be Modulated by Means of Its Disulfide Bonds: a Single-Molecule force- Spectroscopy Study. **Angewandte Chemie International Edition** 2002; 41:1546- 1548.
58. Matteo Conti, **Yasser Bustanji**, Giuseppe Falini, Paolo Ferruti, Sergio Stefoni, Bruno Samorì. The Desorption Process of Macromolecules Adsorbed on Interfaces: The Force Spectroscopy Approach. **Chemphyschem** 2001; 2:610-613.
59. Ala Issa, Rana Abu Farha, Eman Elayeh, **Yasser Bustanji**. The impact of lack of pharmacist contributions on patterns and appropriateness of indications of NSAIDs, A cross-sectional study. **Journal of Pharmaceutical Sciences** 2013, 6:258-269.
60. Eman Abu-Gharbieh, Sahar Fahmy, Bazigha Abdul Rasool, Iman Basheti, Mohammad Mohammad and **Yasser Bustanji**. Prevalence of Aspirin use and its concurrent use with ibuprofen among two middle eastern countries; Jordan and the UAE - A cross sectional study. **Jordan Journal of Pharmaceutical Sciences** 2011, 4:155-165
61. **Yasser Bustanji**, Mohammad Mohammad, Mohammad Hudaib, Khaled Tawaha, Ihab M. Al-Masri, Hatim S. AlKhatib, Ala Issa, Feras Q. Alali. Screening of Some Medicinal Plants for their Pancreatic Lipase Inhibitory Potential. **Jordan Journal of Pharmaceutical Sciences**. 2011; 4:81-88.
62. **Yasser Bustanji**, Mohammad Hudaib, Khaled Tawaha, Mohammad Mohammad, Ihab Almasri, Saja Hamid and Sawsan Oran. In vitro Xanthine Oxidase inhibition by selected Jordanian medicinal plants. **Jordan Journal of Pharmaceutical Sciences**. 2011; 4:29-34

63. Ruba Tarawneh, Rana AbuFarha, Mohammad Hudaib, Khaled Tawaha, Khaled Aieda, **Yasser Bustanji**, Mohammad Mohammad. Acute oral toxicity study of Ivy-Thyme syrup in Albino Rats. *Jordan Journal of Pharmaceutical Sciences* 2011; 4:49-53.
64. Mohammad Mohammad, Khaled M. Aiedeh, Hatim S. AlKhatib, Khaled Tawaha, Bashar AlKhalidi, Ihab M. Al-Masri, Saja Hamed and **Yasser Bustanji**. A Comparative Enzymatic Inhibition Assay as a Surrogate Indicator of Pharmaceutical and Potency Equivalence of Two Orlistat Formulations. *Jordan Journal of Pharmaceutical Sciences* 2010; 3:69-74.
65. Mohammd Hudaib, Wahaf Aldahasi, Ayman Khdaib, Raed. Salah, Hatim AlKhatib, **Yasser Bustanji**, Mohammad K. Mohammad. A simple and rapid high-performance liquid chromatographic method for the determination of Umckalin, as an herbal marker, in the cough syrup of Pelargonium extract. *Jordan Journal of Pharmaceutical Sciences* 2010; 3:109-115.
66. Suha A. AlMuhaisen, Bashar AlKhalidi, **Yasser Bustanji**, Khaled Aiedeh, Mohammad K. Mohammad, Hatim S. AlKhatib. Evaluation of Binary Carrier System for the Dissolution Enhancement of a High Dose Poorly Soluble Drug. *Jordan Journal of Pharmaceutical Sciences* 2012; 5: 30-40

#### PATENTS

1. Hatim S. AlKhatib, Yasser Bustanji, Mohammad K Mohammad, Khaled M. Aiedeh, Ebtisam Hawamdah. Sustained release suspension of an antiepileptic for pediatric applications. Patent Pending
2. Mohammad K Mohammad, Hatim S. AlKhatib, Yasser Bustanji, Mohammad Khanfar. Preparation and Characterization of Organic Salts of Valporic Acid. Patent Pending.

#### GRANTS AND FUNDED PROJECTS:

1. Nanoparticle-mediated Combination of Photodynamic Therapy and Chemotherapy to Overcome Multidrug Resistant Tumors. Scientific Research Fund, Ministry of Higher Education and Scientific Research, Jordan. 2009, 150,000 \$.
2. Development of a Spray Congealing - Based Process/Formulation Platform for the Improvement of Pharmaceutical and Biopharmaceutical Properties of Poorly-Soluble Drugs. Scientific Research Fund, Ministry of Higher Education and Scientific Research, Jordan. 2009, 102,000 \$.
3. Discovery of New HER2 Inhibitors via Ligand-Based Pharmacophore Modeling and Hit Optimization for Potential Use in Cancer Disease. Hamdi Mango Center, Deanship of Academic Research, University of Jordan, 2012, 29000\$.
4. Antibiotic Resistance Surveillance in Jordan, Deanship of Academic Research, University of Jordan, 2003, 7350\$.
5. Testing of Protein Tyrosine Phosphatase (PTPase) inhibitors captured by *in-Silico* Screening as potential new hypoglycemic agents, Deanship of Academic Research, University of Jordan, 2003. 14400\$.

6. Testing of non-nucleoside compounds predicted by computer pharmacophore modeling of HIV type-1 reverse transcriptase inhibitors as novel anti-human immunodeficiency virus (AIDS), Deanship of Academic Research, University of Jordan, 2004, 24500\$.
7. Development of a novel fast acting dosage form of repaglinide for the management of type II diabetes. Deanship of Academic Research, University of Jordan, 2005, 15350\$.
8. Application of casein – drug interaction in the development of controlled release dosage forms. Deanship of Academic Research, University of Jordan, 2005, 11000\$.
9. Screening and Evaluation of new compounds/extracts for potential protective effects against diabetic complications. Deanship of Academic Research, University of Jordan, 2005, 30000\$.
10. Screening and Evaluation of new compounds/extracts as potential anti obesity agents. Deanship of Academic Research, University of Jordan. 2006, 24000\$.
11. Development and evaluation of new anti- inflammatory agents and exploration of their mechanisms of action, Deanship of Academic Research, University of Jordan, 2007, 20000\$.
12. Investigation of Olanzapine effects on glucose metabolism: attempts to develop new drugs. Deanship of Academic Research, University of Jordan), 2008, 19500\$.
13. Discovery of new dual inhibitors against cholesteryl ester transfer protein (CETP) and hormone sensitive lipase (HSL) via ligand-based pharmacophore modelling and QSAR Analysis and followed by hit optimization. Deanship of Academic Research, University of Jordan, 2008, 14000\$.
14. Screening and Assessment of the Effects of Melanin Synthesis Inhibitors from Plants Grown in Jordan on Cultured Normal Human Melanocytes for Use as New Skin Depigmenting Agents. Abdul Hameed Shoman Foundation, 2008, 21000 \$.
15. Evaluation of the immunomodulatory effects of compounds / plant extracts for potential use as anti Rheumatoid arthritis agents and exploration of their mechanisms of action. Applied Science University and Jordan University, 2009, 49,000\$.
16. Molecular, cellular and *in vivo* approaches toward the treatment of colon cancer, Jordan University, 2009, 14500 \$.
17. Enhanced Oral Bioavailability of Antibacterial Agents Using Aerosol – OT Micelles Technology. Deanship of Academic Research, University of Jordan, 2009, 29,600 \$.
18. Isolation and identification of new compounds from *Ginkgo biloba* extract as potential pancreatic lipase inhibitors for management of obesity. Deanship of Academic Research, University of Jordan, 2010, 23,000\$.
19. Comparative Evaluation of the Heparin Potency in some Pharmaceutically Equivalent Products using *In-vitro* and *In-vivo* studies. Deanship of Academic Research, University of Jordan, 2010, 11,100\$.
20. Effect of Ramadan Fasting on Immunomodulatory and Pro inflammatory Responses in Healthy Volunteers. Petra University 2009, 6700 \$.

21. Pharmaceutical Exploitation of Olive Oil Mill Waste (OMW) Water and Recovery of Natural Antioxidants in a Commercial Scale. Submitted to the Higher Council for Science and Technology (**submitted**)

#### **PROFESSIONAL PARTICIPATIONS:**

1. 7<sup>th</sup> International conference of the Royal Medical Services and 4<sup>th</sup> ICMM pan Arab regional working group congress on military medicine (moderator in pharmacy session). 4-7 Nov 2014, Dead Sea, Jordan.
2. Faculty of Pharmacy (Jordan University) Scientific Day, May 7<sup>th</sup>, 2009, Amman, Jordan.
3. Faculty of Pharmacy (Jordan University) Scientific Day, May 22<sup>nd</sup>, 2008, Amman, Jordan.
4. The 3<sup>rd</sup> International Conference of the Royal Medical Services (In collaboration with the Royal College of Physicians of London), April 5<sup>th</sup>-8<sup>th</sup> 2006, Amman, Jordan.
5. Faculty of Pharmacy (Jordan University) Scientific Day, June 2<sup>nd</sup>, 2005, Amman, Jordan.
6. 1<sup>st</sup> Pharmaceutical Scientific Day of the Royal Medical Services (RMS), December 23<sup>rd</sup>, 2004, Amman, Jordan.
7. Workshop "Assuring the Quality of Your bioequivalence Study" Sponsored by JPA and Al Zaytounah University, 29<sup>th</sup> March 2008.
8. Workshop "Clinical studies in Jordan: Current and future prospective; Sponsored by JFDA 23<sup>rd</sup> April, 2008.
9. The First JAPM Bioequivalence Conference: Regulations and Debates. 14-15 July 2008. Amman, Jordan.
10. The second JAPM Bioequivalence Conference: Regulations and Debates. 20-21 May 2009. Amman, Jordan
11. The third JAPM Bioequivalence Conference: Regulations and Debates. 13-14 April 2010. Amman, Jordan.
12. Institutional Review Board (IRB) Training, workshop organized by the Jordanian Association of Pharmaceutical Manufacturers (JAPM) and sponsored by USAID, July 31<sup>st</sup>, 2010, Amman, Jordan.

#### **POSTER PRESENTATIONS:**

1. Shereen Al-Eide, Mohammad Mohammad, **Yasser Bustanji**. Evaluation of adiponectin serum levels in Jordanian type 2 diabetic patients. The 15<sup>th</sup> scientific Congress of the Association of the Pharmacy Colleges in the Arab World The 3<sup>rd</sup> International Conference of the Faculty of Pharmacy / the University of Jordan. The University of Jordan. Amman – Jordan
2. Noor Barham, **Yasser Bustanji**, Mohammad Mohammad. Evaluation of lipoprotein (a) levels in type 2 diabetic Jordanian patients. The 15<sup>th</sup> scientific Congress of the Association of the Pharmacy Colleges in the Arab World The 3<sup>rd</sup> International Conference of the Faculty of

Pharmacy / the University of Jordan. 9-11 October 2012, The University of Jordan. Amman – Jordan

3. Eman Ribhi, Mohammad Mohammad & **Yasser Bustanji**. Aspirin resistance among Jordanian population. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, Jordan, May 6<sup>th</sup>, 2010.
4. Needa Zalloum, **Yasser Bustanji** & Mohammad Mohammad. Screening and evaluation of available hypoglycemic agents for their potential protective and treating effects of diabetic retinopathy. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, Jordan, May 6<sup>th</sup>, 2010.
5. Ibrahim Ramadan, **Yasser Bustanji** & Mohammad Mohammad. Bioassay and potency determination of enoxaparin products available in the Jordanian market. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, Jordan, May 6<sup>th</sup>, 2010.
6. Rund Al Fanek, **Yasser Bustanji**, & Hatim AlKhatib. Evaluation of The Effect of Triglycerides on The Physical & Controlled-Release Properties of Carbamazepine-Loaded Wax Microparticles. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, Jordan, May 6<sup>th</sup>, 2010.
7. Randa Mansour, **Yasser Bustanji**, and Hatim S. AlKhatib. Development of Carbamazepine – Loaded Wax Microparticles for Incorporation in Controlled Release Suspensions: Effect of Surfactant Type and Content. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, Jordan, May 6<sup>th</sup>, 2010.
8. Rania Hamam, **Yasser Bustanji**, & Hatim S. AlKhatib. Effect of Enzymatic Lipolysis on Drug Release from a Lipid – Based Drug Delivery System. Faculty of Pharmacy (University of Jordan) Scientific Day, Amman, Jordan, May 6<sup>th</sup>, 2010.
9. Ahlam Zaid Alkelani, Mohammad Mohammad, Hatim AlKhatib, **Yasser Bustanji**. Development and validation of HPLC method for the determination of  $\beta$ -sitosterol in pharmaceutical product (MEBO). Faculty of Pharmacy (Jordan University) Scientific Day, Amman, Jordan, May 7<sup>th</sup>, 2009.
10. Hadil Zaiat, Mohammad & **Yasser Bustanji**. The immunomodulatory effect of Gemifloxacin on human peripheral mononuclear blood cells. Faculty of Pharmacy (Jordan University) Scientific Day, Amman, Jordan, May 7<sup>th</sup>, 2009.
11. Nizar Al-Zoubi, Hatim Al Khatib, **Yasser Bustanji**, Khaled Aiedeh. Sustained release buspirone HCl microparticles prepared by cospray-drying with aqueous polymeric dispersions. Poster presentation, 13<sup>th</sup> Pan-Hellenic Pharmaceutical Congress, Athens, Greece, May 12-14, 2007.
12. Amal Al-Bakri, **Yasser Bustanji**, Al-Motassem Yousef. Community antibacterial consumption in Jordan: Prudent use or Misuse and Abuse. 4<sup>th</sup> Arab Symposium for Antimicrobial Agents, April 20<sup>th</sup>-25<sup>th</sup> 2006, Tunis.
13. Hatim AlKhatib, Suha Mohesin, Khaled Aiedeh and **Yasser Bustanji**. Effect of Formulation Variables on the Drug Release Stability of Polyvinyl Acetate / Povidone – Based Matrices. 8<sup>th</sup>

International Symposium on Pharmaceutical Sciences (ISOPS8), June 13<sup>th</sup>-16<sup>th</sup>, 2006, Ankara, Turkey.

14. **Yasser Bustanji**, Mutasem O. Taha, Al-Motassem Yousef Amal G. Al- Bakri. Protein Tyrosine Phosphatase 1B Inhibition by Berberine. The 9<sup>th</sup> International Pharmaceutical Sciences Conference and Exposition, December 17<sup>th</sup>-21<sup>st</sup>, 2005, Riyadh, Kingdom of Saudi Arabia.
15. **Yasser Bustanji**, Bruno Samorì. Force Spectroscopy of Single Molecules of Human Angiostatin Kringle Domains. 1<sup>o</sup> Sigma Aldrich Young Chemists Symposium, October 18<sup>th</sup>-19<sup>th</sup>, 2001, Riccione, Italy.
16. **Yasser Bustanji**, Matteo Conti, Carla Arciola, Lucio Montanaro, Bruno Samorì. Dynamical Strength of the Adhesion of Plasma Proteins to Living Cells: The Force Spectroscopy Approach. Proceedings of 5<sup>th</sup> Multinational Congress on Electron Microscopy, page 563-564, September 20<sup>th</sup>-25<sup>th</sup>, 2001, Lecce, Italy. (It was selected for oral presentation and awarded the primer of Carla Milanese).
17. **Yasser Bustanji**, Bruno Samorì. Single Molecule force Spectroscopy of Human Kringle Domains. Proceedings of 5<sup>th</sup> Multinational Congress on Electron Microscopy, page 56, September 20<sup>th</sup>-25<sup>th</sup>, 2001, Lecce, Italy.
18. Bruno Samorì, Anna Bergia, **Yasser Bustanji**, Matteo Conti, Laura Fiume, Giampaolo Zuccheri. In the World of Single Molecule with Scanning Force Microscope. Consorzio interuniversitario "Istituto Nazionale di Biostrutture e Biosistemi". September 6<sup>th</sup>-8<sup>th</sup>, 2001, Bressanone, Italy.
19. **Yasser Bustanji**. Protein Manipulation at a single Molecule Level with Scanning force Microscope. Corso Avanzato in Chimica Farmaceutica e Seminario Nazionale per Dottorandi. July 1<sup>st</sup>-5<sup>th</sup>, 2001, Urbino, Italy.
20. **Yasser Bustanji**, Matteo Conti, Enrico Mandello, Carla Arciola, Lucio Montanaro, Bruno Samorì. the interaction of Fibronectin with Staphylococcus epidermidis at Single Molecule level. XX Congresso Nazionale Delle Socita Chimica Italiana, June 4<sup>th</sup>-9<sup>th</sup>, 2000, Rimini, Italy.
21. **Yasser Bustanji**, Matteo Conti, Giuseppe Falini, Bruno Samorì. The Mechanical Stability of the Sulfur-Gold Bond (Poster). 4<sup>th</sup> Multinational Congress on Electron Microscopy, September 5<sup>th</sup>-8<sup>th</sup>, 1999, Veszprem, Hungary.

#### **PODIUM PRESENTATIONS:**

1. **Yasser Bustanji**, Role of pharmacist in interpretation of laboratory tests. 15<sup>th</sup> Jordan Pharmacists Association Conference, 3-5 April 2014. Amman Jordan.
2. **Yasser Bustanji**. How to evaluate Bioequivalence studies. 1<sup>st</sup> Bioequivalence symposium in Morocco. 6-7 Dec 2012. Rabat, Morocco.

3. Yasser Bustanji, **Ihab M. Al-Masri**, Mohammad Mohammad, Mohammad Hudaib, Khaled Tawaha, Hamada Tarazi, and Hatim S. AlKhatib. Pancreatic lipase inhibition activity of trilactone terpenes of *Ginkgo biloba*. The 15th scientific Congress of the Association of the Pharmacy Colleges in the Arab World The 3rd International Conference of the Faculty of Pharmacy / the University of Jordan. The University of Jordan. Amman – Jordan
4. Tarek M. K. Motawi1, **Mohamed A. S. Al Ghussein**, Shohda EL-Maraghy, Mutasem Taha and Yasser Bustanji. Naproxen and Cromolyn as New Glycogen Synthase Kinase 3 $\beta$  Inhibitors: by Molecular Modeling Techniques and subsequent in vitro/in vivo Biochemical Evaluation to be used in the treatment of Diabetes and Obesity.
5. **Yasser Bustanji**, Dyslipidemia: Classification and Clinical Implications. Jordan Phramceutical Association Scientific day. 15 April 2011. Amman, Jordan.
6. **Yasser Bustanji**. New approaches in the management of Diabetes Mellitus. The Sixth Palestinian Pharmaceutical & 2<sup>nd</sup> Clinical pharmacy Conference 7-9 Apr 2010. Betlehem, Palestine.
7. **Randa Mansour**, Hatim S. AlKhatib & **Yasser Bustanji**. Evaluation of the Effect of Surfactant Type and Content on the Physical and Controlled Release Properties of Carbamazepine Loaded Wax-Microparticles Prepared by Melt Emulsification Technique. The Second Graduate Studies Research Conference, October 27-29, 2009. Amman, Jordan.
8. **Mo'z Al-Islam" Faris**, Hamed R. Takruri, Maha. S. Shomaf & **Yasser Bustanji**. Chemopreventive effect of raw and cooked lentils (*Lens culinaris* L) and soybeans (*Glycine max*) against Azoxymethane-induced aberrant crypt foci. The 2<sup>nd</sup> Graduate Studies Research Conference, October 27-29, 2009. Amman, Jordan.
9. **Hatim S. AlKhatib**, **Yasser Bustanji**, Mahmoud Thawabtah, Khaled Aiedeh, & Mohammad Mohamm. Evaluation and Optimization of a Lipid Based Drug Delivery System. XXXI Conference of Pharmaceutical Sciences organized by the Egyptian Pharmaceutical Society, December 23-25, 2008, Cairo, Egypt.
10. **Hatim AlKhatib**, Khaled Aiedeh & **Yasser Bustanji**. Interaction of casein and Diltiazem HCl: Implications for Controlled Release Formulation. The 3<sup>rd</sup> International Conference of the Royal Medical Services (In collaboration with the Royal College of Physicians of London), April 5<sup>th</sup>-8<sup>th</sup> 2006, Amman, Jordan.
11. **Yasser Bustanji**, Mutasem Taha, Al-Motassem Yousef, Amal Al- Bakri. Protein Tyrosine Phosphatase 1B inhibitors as Potential New Hypoglycemic Agents. The 3<sup>rd</sup> International Conference of the Royal Jordanian Medical Services. April 5<sup>th</sup>- 8<sup>th</sup>, 2006, Amman, Jordan
12. **Hatim Alkatib**, Khaled Aiedeh, **Yasser Bustanji**. Interaction of Casein and Diltiazem HCl: Implications for Controlled Release Formulation. The 3<sup>rd</sup> International Conference of the Royal Jordanian Medical Services, April 5<sup>th</sup>-8<sup>th</sup>, 2006, Amman, Jordan.
13. **Amal Al-Bakri**, **Yasser Bustanji**, Al-Motassem Yousef. Antibacterial Drug Consumption among Jordanian Population: Current Situation and Future Plans. The 3<sup>rd</sup> International Conference of the Royal Jordanian Medical Services, April 5<sup>th</sup>-8<sup>th</sup>, 2006, Amman, Jordan.



14. **Yasser Bustanji**, Matteo Conti, Lucio Montanaro, Bruno Samorì. The Interaction between a Fibronectin Molecule and a Living Bacterium Using Scanning Force Microscope. The 2<sup>nd</sup> International Conference of the Royal Jordanian Medical Services, October 7<sup>th</sup>-10<sup>th</sup>, 2003, Amman, Jordan.
15. **Yasser Bustanji**, Matteo Conti, Carla Arciola, Lucio Montanaro, Bruno Samorì. Dynamical Strength of the Adhesion of Plasma Proteins to Living Cells: the force Spectroscopy Approach. Proceedings of 5<sup>th</sup> Multinational Congress on Electron Microscopy, page 563-564, September 20<sup>th</sup>-25<sup>th</sup>, 2001, Lecce, Italy.
16. **Yasser Bustanji**. Single Molecule force Spectroscopy. 3<sup>o</sup> Digital Instruments Italian Users Meeting. May 22<sup>nd</sup>, 2001, Roma, Italy.
17. **Yasser Bustanji**, Bruno Samorì. The force Spectroscopy with Atomic force Microscope. Da'll oggetto all'immagine giornate su microscopie, segnali, immagini e tecniche associate (presentaion in English). June 27<sup>th</sup>-28<sup>th</sup>, 2001, Piza, Italy

#### **GRADUATE STUDENTS SUPERVISION:**

1. **Rana Abu Farha**. Pharmacological screening of newly synthesized derivatives of nicotinic acid and isonicotinic acid as potential anti-hyperlipidemic, antioxidant and cytotoxic agents. **Ph.D** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2012.
2. **Amani Alhadid**. The role of putative anti glycating agents in inhibiting the formation of advanced glycaion endproducts(AGEs). **Ph.D** in Biological Sciences (Immunology). Faculty of Science / University of Jordan.
3. **Mais Neami**. Evaluation of the effects of oxytocin (OXT) plasma levels on metabolic syndrome (MS) biomarkers in type 2 diabetes (T2DM) patients in Jordan: a cross sectional study. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan.
4. **Amani Harb**. Effect of beta caryophyllene and Eugenol as antioxidant compounds on hypercholesterolemic rats. **M.Sc** in Biological Sciences (Immunology). Faculty of Science / University of Jordan.
5. **Ahmad Shtiawi**. Development of Polymeric Formulation for the Delivery of Chemopreventive Agents. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2013
6. **Eman Ghazi Shayeb**. Determination of insulin like growth factor-I level in Jordanian patients with non insulin dependent diabetes mellitus **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2013.
7. **Nadia Quqazeh**. Screening of some plants extracts for their lipoprotein lipase inhibition activity. **M.Sc** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2013.
8. **Sara Almadani**. The effect of smoking on serum prostate specific antigen (PSA) level in a sample of Jordanian population **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2013.

9. **Mohammad Matarnh.** Baseline characteristics and response to Ticagrelor in Jordanian patients with acute coronary syndrome: cross over study. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, **2013**.
10. **Shereen AL-Eide.** Evaluation of adiponectin serum level of Jordanian diabetic patients. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2012.
11. **Nadia Haidari.** Evaluation of High-sensitivity C-Reactive Protein baseline concentration as a screening test for Cardiovascular Risk in a healthy Jordanian Population. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2012.
12. **Noor Barham.** Determination of lipoprotein (a) level in general population and in patients with non insulin dependent diabetes mellitus. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2012.
13. **Nisreen Majeed.** A cross- sectional study of the prevalence of prediabetes phase in jordanian population. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2012.
14. **Amal Etair.** A Cross- sectional study of the effects of chronic use of metformin on the plasma levels of vitamin B12 in Jordanian patients with type 2 diabetes mellitus. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2012.
15. **Nessrin Salame.,** Antibiotic Prescribing Patterns in Community Acquired Pneumonia Patients requiring Hospitalization. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2012.
16. **Ala Rabah.** Investigation of some permeation enhancers effect on transdermal delivery of glucosamine. **MSc** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2012.
17. **Ala' Frihat.** Screening for antiviral activities of some plant extracts against Measles, Mumps and Rubella viruses. **MSc** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2012.
18. **Batol Azerbahi.** An observational Cross-Sectional study of the Prescription Patterns and Appropriateness of NSAIDs Therapy in Patients with High Cardiovascular Risk in Jordan University Hospital. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2011.
19. **Islam Gharze.** An Observational Cross-Sectional Study of the Prescription Patterns and Appropriateness of NSAIDS Therapy in Patients with Low Cardiovascular/ Moderate to High Gastrointestinal Risks in Jordan University Hospital. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2012.
20. **Luma Alatrash.** The evaluation of the cytotoxic effect of some plant extracts and their ability to inhibit the growth of aggressive human melanoma (A375.S2) through the evaluation of tyrosinase enzyme activity. **MSc** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2012.

21. **Jameel Al-Bzour.** Assessment of phosphatidy inositol 3-kinase gamma enzyme Inhibition by Salvia spp: molecular, cellular and in vivo studies. **Ph.D** in Biological Sciences (Immunology). Faculty of Science / University of Jordan. 2011.
22. **Rimal Mosa.** Evaluation of the development of anti-insulin neutralizing antibodies in diabetic patients treated with exogenous insulin. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2011.
23. **Ashraf Alrabiei.** Evaluation of plant *Salvia Triloba* extracts as potential anti obesity agents. **MSc** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2011.
24. **Ola Sallam.** Evaluation of Mannose Binding Lectin levels in Jordanian diabetic patients serum. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2011.
25. **Safia Qasimi.** Evaluation of prolonged intermittent fasting effect on immune system and some blood inflammatory cytokines in healthy volunteers. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2011.
26. **Ahlam Molay.** Use of herbs among Jordanian population for the management of chronic diseases with special emphasis on dyslipidemia. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2011.
27. **Dilia Omar.** Immunogenicity evaluation of an erythropoietin product in patients with chronic renal failure. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2010.
28. **Rand Nidal.** Evaluation of intermittent fasting effect on oxidative stress using isoprostane biomarker in the urine of human volunteers. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2010.
29. **Eman Ribhi.** Aspirin resistance among Jordanian population. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2010.
30. **Rund AlFanek.** Evaluation of effect of triglycerides carriers on the physical and controlled release properties of carbamazepine loaded wax microparticles prepared by high pressure homogenization technique. **MSc** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2010
31. **Ibraheem Ramadan.** Bioassay and potency determination of enoxaparin products available in Jordanian market. **MSc** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2010.
32. **Needa Zalloum.** Screening and Evaluation of available hypoglycemic agents for their potential protective and treating effects of diabetic retinopathy. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2010.
33. **Rania Hamam.** Effect of Enzymatic Lipolysis on Drug Release from a Lipid-Based Drug Delivery System. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy / University of Jordan, 2009

34. **Amani Hamad.** Dissolution of Enhancement of Tadalafil in tablets prepared by direct compression. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy / University of Jordan, 2009.
35. **Amal Mayaas.** Development and validation of an HPLC method for the quantification of Hydroxytyrasol in pharmaceutical and Natraceutical raw materials. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy / University of Jordan, 2009.
36. **Hadeel Alzaiat.** Immunomodulatory effect of Gemifloxacin on human peripheral mononuclear blood cells. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2009.
37. **Eman AbuRish.** Comparative study of the biological potency of recombinant human erythropoietin in pharmaceutical products in Jordan. Master Thesis. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2009.
38. **Reema AbuKhalaf.** Discovery Of New Cholesteryl Ester Transfer Protein (CETP) Inhibitors Via Ligand-Based Pharmacophore Modelling and QSAR Analysis And Subsequent Hit Optimization. **Ph.D** in Pharmaceutical Sciences, Faculty of Pharmacy / University of Jordan, 2009.
39. **Lina Thahabia.** Discovery of New Hormone Sensitive Lipase Inhibitors Via Lignd-Based Pharmacophore Modeling And QSAR Analysis Followed By Experimental Validation. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy / University of Jordan, 2008.
40. **Randa Mansore.** Evaluation of Effect of Surfactant Type and Content on the Physical and Controlled Release Properties of carbamazepine Loaded Wax Microparticles Prepared by Melt Emulsification Technique. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy / University of Jordan, 2008.
41. **Mahmoud Thawabteh,** Evaluation and optimization of a lipid-based drug delivery system with enhanced dissolution/solubility properties, **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy / University of Jordan, 2007.
42. **Mohamed A.S. Al-Ghussein.** Screening and Evaluation of New Glycogen Synthase Kinase 3 $\beta$  (GSK-3 $\beta$ ) Inhibitors as Potential New Hypoglycemic Agents Using Ligand-Based Pharmacophore Modeling and Experimental Validation. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy/ University of Jordan, 2007.
43. **Ibtisam Hawamdeh.** Development and evaluation of sustained release suspensions of an antiepileptic drug for pediatric applications. **M.Sc** in Pharmaceutical Sciences, Faculty of Pharmacy / University of Jordan, 2007.

**MEMBERSHIP IN GRADUATE EXAMINATION COMMITTEES (REPRESENTATIVE COMMITTEES:**

1. Amer Murtaja. A study of the impact of clinical pharmacist intervention on reducing intravenous medication preparation and administration error and the development of pharmacist intravenous admixture service in a neonatal intensive care unit at the Jordan university hospital. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2014.

2. **Mohammad AbuSini.** In vitro and In vivo evaluation of synthetic triazoloquinolone derivatives against helicobacter pylori. **Ph.D** in Biological Sciences. Faculty of Science / University of Jordan.
3. **Tareq Ghazawna.** Appropriateness of the preparation and administration of the intravenous medications in the pediatric intensive care unit at Palestine medical complex. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2014.
4. **Youssef Mousa.** Platinum antineoplastic agents-induced long term hearing impairment and its association with glutathione S-transferase P1 (GSTP1) genetic polymorphism at (RS1695) Among Jordanian people with cancer: case control study. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2014.
5. **Ghadeer Al-Absi.** The effect of smoking on the activity of aspirin as anti platelet agent among diabetic patients. an ex-vivo study. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2013.
6. **Soumya Bokreta.** A cross sectional study of prevalence of protein urea among individuals at high risk of kidney disease in Jordanian population. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2013.
7. **Rami Mustafa.** Establishment of reference intervals for liver and kidney function tests of healthy adult Jordanian volunteers. **M.Sc** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2012
8. **Mohammad Abuhadbah.** Patterns of Identification and management of Common Anti platelet Anticoagulants Drug interactions at the Jordan University Hospital. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2012.
9. **Leena Abdel Al.** Role of Clinical Pharmacist's intervention in the management of Metabolic Manifestation in Patients with Advanced Chronic Kidney Disease. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2012.
10. **Amina Yousef.** Genetic Polymorphism of Vitamin D receptors at RS7975232 Prevalence of Asthma among Jordanians: Cross sectional observational Study. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2011.
11. **Raja Dagash.** Genetic Polymorphism of NPPA gene RS5065 and prevalence of asthma among Jordanians: Case-Control study. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2010.
12. **Ahmad Masadeh.** Impact of Genetic polymorphism of ABCB1 (MDR1) 2677G>T-A in Kidney Donors on Tacrolimus levels in Jordanian kidney transplants recipients during the early transplantation period. **MSc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, 2010.
13. **Rasha Darweesh.** Development and response surface optimization of a matrix-type delivery system using hydrophilic and hydrophobic components. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2010.

14. **Saba Al Jasmi**. Patterns of prescription and drug dispensing. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, October 2010.
15. **Mahmoud Al-Sha'er**. Discovery and optimization of new anticancer agents based on dual inhibition of HSP90 and CDK-1 via ligand-based and structure-based modelling followed by in-silico screening, biological evaluation and chemical optimization. **Ph.D** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2010.
16. **Rana Said Hasan**, Development of in Vitro – in Vivo Correlations for Bioequivalence Prediction of Indapamide Sustained Release Tablets. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, Defended May, 2010.
17. **Farah Naser**. The effect of genetic polymorphism of CYP2C9 at position (430) on warfarin dose requirement among patients at Jordan university hospital. **M.Sc.** in Clinical Pharmacy, Faculty of Pharmacy / University of Jordan, June 2010
18. **Farah Zahran**. The effect of genetic polymorphism of VKORC1 at position -1639 on warfarin dose requirements among Jordanian patients at Jordan university hospital. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2009.
19. **Rawan Karaki**. Preparation of sulfated chitosan, its physical characterization and biological safety. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2009.
20. **Mohammad Fararjeh**. Evaluation of immunosuppression induced by metronidazole in Balb/c mice and human peripheral blood lymphocytes. **Ph.D** in Biological Sciences, Faculty of Science / University of Jordan, 2008.
21. **Rushdi Abu Hamdi**. Discovery of new tyrosinase inhibitors via ligand-based pharmacophore modeling and QSAR analysis followed by experimental validation. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2008.
22. **Ehab Alshamleh**. Investigation on Chitosan new derivatives as carriers for insulin delivery. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2008.
23. **Dalia Saleh**. Population pharmacokinetics of Repaglinide. **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2008.
24. **Ihab Almasri**. Discovery of dual dipeptidyl peptidase IV/GSK-3  $\beta$  and/or PTP1B inhibitors via pharmacophore and QSAR analysis followed by In-silico screening and experimental validation. **Ph.D** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2008.
25. **Somaiya Al-Omari**. The effect of thujone and myrcene on diabetes mellitus in albino rats. **M.Sc.** in Biological Sciences, Faculty of Science / University of Jordan, 2007.
26. **Eman Al-Hamarsheh**. Quantitative determination of Hederacoside C in (Hedera Helix-Thyme) cough preparation, **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2007.
27. **Tark Al Maayeh**. Screening of some medicinal plants of Jordan for  $\alpha$ -amylase inhibition activity, **M.Sc.** in Pharmaceutical Sciences, Faculty of Pharmacy, University of Jordan, 2005.

**JOURNAL EDITORIAL SHIP:**

- ❖ **Editorial board member:** International Journal of Life science and Pharma Reviews (IJLPR)
- ❖ **Associate editor:** Journal of Medicinal Plants Research (JMPR).
- ❖ **Editorial Board member: Journal of Pharmaceutical Technology and Drug Research (JPTDR).**
- ❖ **Editorial Board member:** DIRAST, (internationally refereed research journal published by the Deanship of Academic Research, University of Jordan, Amman).

**REVIEWER RESPONSIBILITIES:**

- ❖ Molecular Biology Reports
- ❖ African Journal of Biotechnology
- ❖ Journal of Food Biochemistry
- ❖ Journal of Enzyme Inhibition and Medicinal Chemistry
- ❖ Pharmaceutical Biology
- ❖ Journal of Medicinal Plants Research
- ❖ Applied Polymer Science
- ❖ Jordan Journal of Pharmaceutical Sciences
- ❖ Arabic Syrian Journal

**COURSES TAUGHT:**

- ❖ Biochemistry (I &II), for pharmacy students
- ❖ Biochemistry for paramedics students
- ❖ Practical Biochemistry.
- ❖ Clinical Biochemistry for Pharmacy students
- ❖ Clinical Biochemistry I & II for PharmD students.
- ❖ Advanced Clinical Biochemistry for master students (Faculty of Pharmacy).
- ❖ Advanced Clinical Biochemistry for master students (Faculty of Medicine University of Jordan).
- ❖ Pharmaceutical and Biostatistics
- ❖ Pharmacokinetics.
- ❖ Biopharmaceutics and Pharmacokinetics (Applied Science University).
- ❖ Selected Topics in Clinical Pharmacy.
- ❖ Practical Pharmacokinetics.

**COMPUTER SKILLS:**

- ❖ The University of Jordan Computer Driving License (UJCDL).
- ❖ Excellent command in the use of Microsoft Office applications and Endnote
- ❖ Good command of statistical software (SPSS, DATA Fit, Minitap)
- ❖ Excellent command Design Graphics software (Adobe Photoshop, Adobe Illustrator).