# **Curriculum Vita**

### <u>Shadi Faiz Gharaibeh</u>

Jerash University Faculty of Pharmacy Department of Pharmaceutical Sciences Jerash, Jordan Tel: 0796302889 <u>shadi.gharaibeh@jpu.edu.jo</u>

#### **Education:**

- Ph.D. in Pharmacy (Pharmaceutics), the University of Iowa, Iowa City, Iowa 52242, USA, Degree requirements fulfilled in December 2004. Thesis work and research experience involve aspects important in the field of Industrial Pharmacy. Major advisor: Professor Dale Eric Wurster. Awarded the College of Pharmacy Graduate Student Excellence Award for the years 1999, 2000, 2001, and 2003.
- **B.Sc. in pharmacy**, Jordan University of Science and Technology, Irbid, Jordan, 1995. Graduated with an excellent average, GPA = 86%, ranked second among the 79 students who were graduated in the same class.
- **High school degree**, Altawjeehy, Prince Hassan High School, Irbid, Jordan, 1990. GPA= 92%.

#### **Research Experience:**

- Supervised a master's thesis with the title "THE MECHANICAL ENERGIES (WORK) ASSOCIATED WITH THE COMPACTION OF BOTH THE MONOCLINIC AND THE ORTHORHOMBIC FORMS OF PARACETAMOL POWDER"
- The use of the Compression Calorimeter for the estimation of energies associated with the compaction of binary powder mixtures (thesis project). This work involved instrument upgrade efforts, which included the development of data acquisition computer programs in the Labview® format. The work also involved fundamental studies. The estimated energies were correlated with the composition fractions for each mixture. Trends in these correlations were noticed and explained according to the predominant deformation mechanism of the mixture components.
- Comparison between the powders of different drug salts in their punch stickiness properties (spring of 2003), the University of Iowa. This work

involved the use of a multi-station tableting machine. In addition, solubility and dissolution profiles of these salts were characterized.

- Effect of particle size and shape on the dissolution profiles of drug compounds (summer of 2001), <u>Pfizer Inc.</u>, Groton, Connecticut. Aspirin was chosen as a model compound for its needle-shaped particles. It was sieved into different size fractions. Dissolution profiles were obtained and compared to computer simulations.
- **The compaction properties of heparin oral delivery agents** (summer of 1999), the University of Iowa. These agents were stored at different relative humidity conditions. Compaction properties were then determined and compared.

# **Research Skills:**

- Skilled in the use of the following instruments: TGA, DSC, Quantasorb® Surface Area Analyzer, Quantachrom® Helium Micropycnometer, HPLC, U.V. and IR Spectrometers, Gas Chromatography, and Atomic Absorption.
- Skilled in programming with Labview®.
- Expert in using Microsoft Word, Excel, and PowerPoint.

# **Teaching Experience:**

- Associate professor at Jerash University, faculty of pharmacy, Jerash, Jordan. Acting Dean of the Faculty of Pharmacy and the Faculty of Nursing, January 2017- current.
- Assistant professor at Jordan University of Science and Technology, Irbid, Jordan, between 2005 and 2012. During that period I lectured in the following courses: advanced physical pharmacy, research methods for master's students, physical pharmacy, pharmaceutics I, pharmaceutics II, industrial pharmacy, industrial pharmacy technology, and biopharmaceutics and pharmacokinetics. In addition I have established pharmacy practice labs I, II, and III.
- At the University of Iowa, for 6 semesters as Teaching Assistant for Pharmacy Practice Labs for PharmD. students in the academic levels 2, 3, and 4. These labs are involved in pharmaceutical compounding, use of sterile hoods for injectable and ophthalmic preparations, use of literature references, patient counseling, and other activities.
- At the University of Iowa, for l semester as Teaching Assistant for Quantitative Research Methods of Analysis Lab for graduate students. This lab is designed for teaching the students how to run experiments on different instruments. Ten different methods of analysis were discussed in this lab.

## **Other Experiences:**

- **Medical representative** for 3 years between the years 1996 and 1999, Novartis, Riyadh, Saudi Arabia.
- **Participated in community pharmacy work** during the period from 1990 to 1995, Al-Shifa pharmacy, Irbid, Jordan.

# **Other Achievements and Memberships:**

- From the University of Iowa, College of Pharmacy Graduate Students Excellence Award for the years: 1999, 2000, 2001, and 2003.
- Listed on the College of Pharmacy Honor List at Jordan University of Science and Technology for 5 times.
- Chair and Vice chair of the AAPS Student Chapter at the University of Iowa during the years 2001 and 2000, respectively.
- Member in the American Association of Pharmaceutical Scientists since 2000.
- Member in the Jordanian Pharmacist Association since 1995.

## **Publications:**

- "Mechanical energies associated with compaction of form I and form II paracetamol powder " *Powder Technology*, 2011, Volume 214(1) pp 161-168, Shadi F. Gharaibeh, Iba'a N. Chick Al-Ard.
- "Tablet Splitting and Weight Uniformity of Half-Tablets of 4 Medications in Pharmacy Practice " Journal of Pharmacy Practice, 2012 Volume 25 ( 4) pp471-476, Linda M. Tahaineh, Shadi F. Gharaibeh.
- "Use of First Derivative of Displacement vs. Force Profiles to Determine Deformation Behavior of Compressed Powders". AAPS PharmSciTech, 2013, volume 14(1) pp 398-401, Shadi F. Gharaibeh, Aktham Aburub.
- "Antimicrobial Activity of Common Mouthwash Solutions on Multidrug-Resistance Bacterial Biofilms". *Journal of Clinical Medicine Research, 2013 volume 5(5) pp 389-394, Majed M. Masadeh, Shadi F. Gharaibeh, Karem H.* Alzoubi, Sayer I. Al-azzam, Wasfi M. Obeidat.
- "Compaction behavior of metformin HCl powders obtained by combined cooling anti-solvent crystallization". *Jordan Journal of Applied Science, 2014, volume 12(1) pp 39-46, Nizar Al-Zoubi, Shadi Gharaibeh.*

### Other scientific presentations:

- "Deformation Behavior and Mechanical Properties of the Oral Heparin Delivery Agents SNAC and SNAD." Poster presentation, AAPS Annual Meeting and Exposition, New Orleans, LA, 1999.
- "Determination of Internal Energy Changes Induced by Compression and Decompression of Pharmaceutical Powders." Poster presentation, Pharmaceutical Graduate Students Research Meeting, University of Illinois at Chicago, IL 2003.
- "Determination of Internal Energy Changes Induced by Compression and Decompression of Pharmaceutical Powders." Poster presentation, AAPS Annual Meeting and Exposition, Salt Lake City, UT 2003.
- "Design and Development of the Compression Calorimeter". Podium presentation, Pharmaceutical Graduate Students Research Meeting, University of Illinois at Chicago, Chicago, IL 2003.
- "Application of the Noyes-whitney Equation to Predict Dissolution of Rod Shaped Crystalline Particles." Poster presentation, AAPS Annual Meeting and Exposition, Salt Lake City, UT 2003.
- "Thermodynamics of the Compaction of Binary Powder Mixtures." Poster presentation, Pharmaceutical Graduate Students Research Meeting, The University of Iowa, Iowa City, IA, 2004.