**Ahmad Bani-Jaber, Ph.D.**

**Professor of Pharmaceutics**

**Department of Pharmaceutics and Pharmaceutical Technology**

**School of Pharmacy/University of Jordan**

**Queen Rania St.**

**Amman, 11942 Jordan0798998589**

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| **Personal Information** |

Name: Ahmad Khaled Bani-Jaber

Date of Birth: 6, August, 1969

Nationality: Jordanian

Current Address: Department of Pharmaceutics and Pharmaceutical Technology

Faculty of Pharmacy, University of Jordan

Amman, 11942 Jordan

Tel: 0798998589

Fax: +962 5 339649

Email: abjaber@ju.edu.jo

[www.ju.edu.jo/sites/academic/abjaber](http://www.ju.edu.jo/sites/academic/abjaber)

#### Pertinent skills

Strong knowledge background and experience in the area of product formulation and development with particular emphasis on oral solid dosage formulation design, both rapid and sustained release, and dispersed systems including emulsion and suspension formulation, microencapsulation and liposome preparation. Proficient in the use of HPLC, automated *in vitro* dissolution testing, BIO-DIS extended release tester, IR, and UV spectrophotometer, tablet equipment (Carver, Single and Rotary tablet presses) and Fluid-bed coating and drying. Knowledge of Pharmacokinetic software (R-STRIP, PC-DCON and WIN-NONLIN) and statistical software package such as, Statographic and SAS.

Excellent problem solving, planning, organizing, written/verbal communication and computer skills. Strong interpersonal skills to work effectively with people at all levels of the organization.

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| **Training and Working Experience** |
| 1992(6-10)1992-1995 | Pharmacist involved in formulation of several drugs as conventional, chewable, and sustained release tablets, suspensions, liquids and topical creams. Research and Development Department . DAR-al-Dawa, Naor, Jordan. Teaching Assistant. Faculty of Pharmacy, University of Jordan, Amman, Jordan. Labs of Pharmacognosy, Photochemistry, Pharmaceutical analytical Chemistry and Instrumental Analysis |
| 1995-1999 | Ph.D. student. Department of Pharmaceutics, Oregon State University, USA. |
| (1/98-7/98) | Intern, Sugen Inc., Southern San Francisco, California, USA. Formulator involved in the formulation of highly hydrophobic and unstable new class of anticancer drugs for IV administration. Exposed to all aspects of IV preformulation and formulation such as, solubility studies, pH solubility and stability studies, incompatibility among ingredients, stability studies for IV formulation and development of HPLC methods for stability analysis. |
| 7-98-1/99 | Intern, OREAD, Palo-Alto, California, USA. Formulator involved in formulation of oral immediate release tablet formulation for a new anticancer drug. Exposed to Roller-Compaction, wet granulation and direct compression methods, evaluation of granulation for compressibility, lubrication, and flow properties, ingredient incompatibilities and dissolution testing. |
| 1999-2007 | Assistant Professor. Department of Pharmaceutics and Pharmaceutical Technology, School of Pharmacy, University of Jordan, Amman, Jordan. |
| 2007-2013 | Associate Professor. Department of Pharmaceutics and Pharmaceutical Technology, School of Pharmacy, University of Jordan, Amman, Jordan. |
| 2013-present | Professor. Department of Pharmaceutics and Pharmaceutical Technology, School of Pharmacy, University of Jordan, Amman, Jordan. |

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| **Publications** |
| 1. Multiple layer compression coated tablets: formulation and humidity studies of novel chewable amoxicillin/clavulanic acid tablet formulations. Jacqueline Wardrop, **Ahmad Bani-Jaber**, James Ayres. Drug Development and Industrial Pharmacy, 24(8), 729- 739 (1998).
 |
| 1. Efficacy of the antimicrobial peptide in emulsifying oil in water. **Ahmad Bani-Jaber**, J. McGuire, J. Ayres, and M, Daeschel. Journal of Food Science, 65 (3), 502-506 (2000).
 |
| 1. Surface tension kinetics of β-casein and nisin at oil-water interface. Woo-Kul lee, **Ahmad Bani-Jaber**, J. McGuire, M, Daeschel, Hyun Jung. K. J. Chem. Eng., 17(2), 179-183 (2000).
 |
| 1. Sustained release characteristics of tablets prepared with mixed matrix of sodium carrageenan and chitosan: Effect of polymer weight ratio, dissolution medium, and drug type. **Ahmad Bani-Jaber**, Mutasem Al-Ghazawi. Drug Development and Industrial Pharmacy, 31(3), 241-247 (2005).
 |
| 1. Physicochemical studies on ciclopirox olamine complexes with divalent metal ions. Ruba T. Tarawneh, Imad I. Hamdan, **Ahmad Bani-Jaber**, Rula Darwish. International Journal of Pharmaceutics, 289, 179-187 (2004).
 |
| 1. Improvement of the solubility and dissolution rate of the steroidal drug, mesterolone, using cyclodextrin complexation. Samer Odeh, Hassan Muti, **Ahmad Bani-Jaber**. Jordan Medical Journal, 39 (2), 117-129 (2005).
 |
| 1. Sodium mefenamate as a solution for the formulation and dissolution problems of mefenamic acid. **Ahmad Bani-Jaber**, Imad Hamdan, Bashar Al-Khalidi. Chemical and Pharmaceutical Bulletin, 55(8), 1136-1140 (2007).
 |
| 1. The manufacture and characterization of casein films as novel tablet coatings. Abu Diak O, **Bani-Jaber A**, Amro B, Jones D, Andrews G.P. Food and Bioproducts Processing, 85(C3), 284-285 (2007).
 |
| 1. Diclofenac-bismuth complex: synthesis, physicochemical, and biological evaluation. Abuznaid Mohammed, Sallam Al-Sayed, Hamdan Imad, Al-Hussaini Mayssa, **BaniJaber Ahmad**. Drug development and industrial pharmacy, 34(4), 434-444 (2008).
 |
| 1. Investigation of Drug Polymer Interaction: Evaluation of Diclofenac-Chitosan Coprecipitate. **Ahmad Bani-Jaber**, Deema Anani, Imad Hamdan, Bashar Al-Khalidi. Jordan Journal of Pharmaceutical Sciences, 2(2), 140-149 (2009).
 |
| 1. Drug-Loaded Casein Beads: Influence of Different Metal-Types as Cross-Linkers and Oleic Acid as a Plasticizer on Some Properties of the Beads. **Ahmad Bani-Jaber**, Khaled Aideh, Imad Hamdan, Riyam Maraqa. Journal of Drug Delivery Science and Technology, 19(2), 125-131 (2009).
 |
| 1. Development and Validation of a Stability Indicating Capillary Electrophoresis Method for the Determination of Metformin Hydrochloride in Tablets. Hamdan II, **Bani-Jaber** AK, Abushoffa AM. Journal of Pharmaceutical and Biomedical Analysis, 53 (5), 1254-7 (2010)
 |
| 1. Pharmaceutical Evaluation of some Metformin HCl products Available in the Jordanian Market. Imad Hamdan, **Ahmed Bani-Jaber**. Jordan Journal of Pharmaceutical Sciences, 3 (1), 1-7 (2010).
 |
| 1. Prolonged Intragastric Drug Delivery Mediated by Eudragit E-Carrageenan Polyelectrolyte Matrix Tablets. **Ahmad Bani-Jaber**, Leena Al-Aani, Hatim AlKhatib and Bashar Al-Khalidi. AAPS PharmSciTech, 12(1), 354-61 (2011).
 |
| 1. Floating and Sustained-Release Characteristics of Effervescent Tablets Prepared with a Mixed Matrix of Eudragit L-100-55 and Eudragit E PO. **Ahmad Bani-Jaber**, Mahmoud Y Alkawareek, Jozef Al-Gousous and Ahmad Abu Helwa. Chemical & Pharmaceutical Bulletin, 59 (2), 155-160 (2011).
 |
| 1. The Synthesis and Characterization of Fatty Acid Salts of Chitosan as Novel Matrices for Prolonged Intragastric Drug-Delivery. **Ahmad Bani-Jaber**, Imad Hamdan, Mahmoud Alkawareek Archives of Pharmacal Research, 35 (7), 1159-68 (2012).
 |
| 1. Effect of Licorice Extract on the Pharmacokinetics of Ciprofloxacin in Rabbits after Oral Administration Using an Improved High-performance Liquid Chromatography Assay. M. Al-Ghazawi, T. Aburjai, N. Shraim, **A. Bani-Jaber**, S. AbuRuz. Jordan Journal of Pharmaceutical Sciences, 5 (2), 120-130 (2012)
 |
| 1. A newly developed lubricant, chitosan laurate, in the manufacture of acetaminophen tablets. **Bani-Jaber A**, Kobayashi A, Yamada K, Haj-Ali D, Uchimoto T, Iwao Y, Noguchi S, Itai S. Int J Pharm. 483(1-2), 49-56 (215).
2. Preparation and Evaluation of Newly Developed Chitosan Salt Coating Dispersions for Colon Delivery without Requiring Overcoating‏. SI Kyohei Yamada, Yasunori Iwao, **Ahmad Bani-Jaber**, Shuji Noguchi‏. CHEMICAL & PHARMACEUTICAL BULLETIN 63 (10), 799-806, 2015.
3. In Vitro and In Vivo Evaluation of Casein as a Drug Carrier for Enzymatically Triggered Dissolution Enhancement from Solid Dispersions‏. **A Bani-Jaber**, I Alshawabkeh, S Abdullah, I Hamdan, A Ardakani,. AAPS PharmSciTech, 1-10, 2017. ‏
4. Evaluation of mixed matrices of chitosan and fatty-acids filled into hard gelatin capsules as sustained-release hydrodynamically balanced systems. Bilal Alrimawia, **Ahmad Bani-Jaber**, Muhammad Al-Zweiri. Journal of Drug Delivery Science and Technology, 53, 2019, 101175.
5. Bani-Jaber A, Abdullah S. Development and characterization of novel ambroxol sustained-release oral suspensions based on drug-polymeric complexation and polymeric raft formation. **Bani-Jaber A**, Abdullah S. Pharm Dev Technol. 2020 Jul;25(6):666-675.
 |
| **Supervision: M.Sc. Projects** |
| 1. Investigation of transdermal delivery of some diclofenac metal complexes.

Fawzi Al-Hindi, May, 2002. |
| 1. Improvement of the solubility and dissolution rate of the steroidal drug, mesterolone, using cyclodextrin complexation.

Samer Odeh, May 2003. |
| 1. Characterization of Diclofenac – Chitosan complex and its evaluation for sustained drug release.

Deema Al Anani, Dec. 2003. |
| 1. Use of Casein as a Potential Film Former for Tablet Coating: Effect of Plasticizer Type and Concentration, and Coating Level.

 Osama Abu-Diak, may 2005 |
| 1. Investigation of diclofenac-bismuth complex as an oral suspension preparation.

Mohammed Hussein Abuznaid, August 2005. |
| 1. Casein as a film former for drug microencapsulation: Effect of metal cross-linking and plasticization on casein-paracetamole bead properties.

Riyam Kefah Maraqa, Dec. 2006. |
| 1. Characterization of Eudragit E: Carrageenan complex and its evaluation for sustained drug release.

Leena Al-aani, May, 2007. |
| 1. Aginate-Eudragit E beads: preparation, characterization and drug release.

Yazan Al Thaher, July, 2014.  |
| 1. Evaluation of mixed matrices of chitosan and fatty acids filled into hard gelatin capsules as sustained release hydrodynamically balanced systems.

Belal Al-Ermawi, August 2015. |
| 1. Oral Protein Delivery Using Polyelectrolyte Eudragit E- Carrageenan Complexes and Chitosan Fatty acid salts.

Manal Badarine, August 2015. |
| 1. Development of novel hydrophobic chitosan-alginate beads.

Abullatif Oirra, August 20151. Drug dissolution enhancement using binary system of casein and cyclodextrin or polyethylene glycol

Malak Malkawi, November 20191. Assessment of betaine as salt former and/or carrier for drug dissolution enhancement

Ghada Kamal, December, 2019.1. Preparation, characterization and formulation potential of berberine-carrageenan complex

Rana Al-Sukon, May 2021.  |

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| **Referee for manuscripts submitted to or published within** |
| 1. Jordan Journal of Pharmaceutical Sciences
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| 1. Drug Development and Industrial Pharmacy
 |
| 1. Journal of Drug Delivery Science and Technology
 |
| 1. AAPS PharmSciTech
 |
| **Teaching Experience** |
| 1. Industrial Pharmacy
2. Pharmaceutical Technology
 |
| 1. Selected topics in Pharmaceutical Technology
 |
| 1. Prescription Compounding
 |
| 1. Physical Pharmacy
2. Drug Formulation and Delivery Systems
 |
| 1. Drug delivery and Dosage Form Formulation
 |
| 1. Seminar in Pharmaceutics and Pharmaceutical Technology
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