Dina El-Sabawi Ph.D.

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EDUCATION

2001 – 2005: University of Bath, Department of Pharmacy and Pharmacology, Claverton Down, BA2 7AY, Bath, United Kingdom.

Course: Doctor of Philosophy in Pharmacy (Major in Pharmaceutical Technology and Physical Pharmacy).

Title of Thesis: Novel Surface Engineering of Carrier Particles for Dry Powder Inhalation Formulations.

Theme: My Ph.D investigated the influence of the surface characteristics of commercial grade excipient particles on the inter-particulate interactions of drug-carrier particles in dry powder inhalation formulations. A novel temperature controlled surface etching process was developed and is now patented in the UK to controllably modify the physicochemical properties of commercial α-lactose monohydrate particles. A direct correlation was established between the qualitative characterisation of the surface morphology of treated lactose excipient particles and the quantitative *in vitro* deposition profile of the respirable fraction of the model drug that was employed throughout the study.

1994 – 1999: University Of Petra, Faculty of Pharmacy, Amman, Jordan.

Course: Bachelor of Science in Pharmacy.

EMPLOYMENT

2006: University of Jordan, Faculty of Pharmacy, Amman, 11942, Jordan.

Description: Assistant Professor of Pharmaceutical Technology at the Department of Pharmaceutics and Pharmaceutical Technology.

2002 – 2004: University of Bath, Department of Pharmacy and Pharmacology, Claverton Down, BA2 7AY, Bath, United Kingdom.

Description: Teaching assistant, research assistant and laboratory demonstrator at various courses such as Physicochemical Properties of Drugs, Medicines Design, Pharmaceutics and Physical Pharmacy.

1999 – 2001: University of Isra, Faculty of Pharmacy, Amman, Jordan.

Description: Teaching and research assistant at various courses such as Pharmaceutical Organic Chemistry, Pharmaceutics, Industrial and Physical Pharmacy.

SCIENTIFIC PUBLICATIONS

Journal Publications

El-Sabawi, D., Price, R., Edge, S., Young, P.M. (2006). Novel temperature controlled surface dissolution of excipient particles for carrier based dry powder inhaler formulations. *Drug Development and Industrial Pharmacy.* **32**, 243-251.

Young, P. M., Edge, S., Traini, D., Jones, M.D., Price, R., El-Sabawi, D., Urry, C., Smith, C. (2005). The influence of dose on the performance of dry powder inhalation systems. *International Journal of Pharmaceutics.* **296**, 26-33.

El-Sabawi, D., Edge, S., Price, R., Young, P.M. (2006). Continued investigations into the influence of loaded dose on the performance of dry powder inhalers: Surface smoothing effects. *Drug Development and Industrial Pharmacy*. **32**, 1135-1138.

Conference Proceedings

Dina El-Sabawi, Robert Price. Investigation into the Influence of Storage Conditions on Particulate Interactions in Carrier-Based Dry Powder Inhaler Formulations. The 4th International Conference of the Royal Medical Services. Amman, Jordan. 2008. (Speaker).

Dina El-Sabawi, Bashar T'aani. Bioequivalence of Grandfather Products, Combination Products and OTC Products. The First JAPM Bioequivalence Conference, *Regulations and Debates*. Amman, Jordan. 2008. (Speaker).

D. El-Sabawi, P.M. Young, S. Edge, R. Price. Investigation into the influence of storage conditions on the inhalation properties of novel surface etched lactose carriers for DPI formulations. AAPS (American Association of Pharmaceutical Scientists) Annual Meeting and Exposition. Nashville, Tennessee. USA. AAPS, 2005. (Poster Presentation).

D. El-Sabawi, P.M. Young, S. Edge and R. Price. Novel temperature controlled surface etching of excipient particles: Investigation into the influence of storage conditions on inhalation properties of surface etched DPI formulations. ISAM (International Society for Aerosols in Medicine). Perth, Australia. ISAM, 2005. (Poster Presentation).

D. El-Sabawi, P.M. Young, S. Edge, R. Price. Modification of the Morphology of Lactose Carriers for DPI Formulations: A Novel Temperature Controlled Surface Etching Process. DDL (Drug Delivery to the Lungs 15). London, UK. The Aerosol Society: DDL, 2004. (Speaker).

D. El-Sabawi, P.M. Young, S. Edge, R. Price. Modification of lactose carriers for dry powder inhalers using novel temperature controlled surface etching. RDD (Respiratory Drug Delivery IX). Palm Springs, California. USA. RDD 2004. (Poster Presentation).

D. El-Sabawi, P.M. Young, S.Edge, R.Price. Novel Temperature Controlled Surface Etching of Excipient Particles for Carrier Based DPI Formulations. DDL (Drug Delivery to the Lungs 14). London, UK. The Aerosol Society: DDL, 2003. (Poster Presentation).

D. El-Sabawi, P.M. Young, S.Edge, R.Price. Novel Temperature Controlled Surface Etching of Excipient Particles for Carrier Based DPI Formulations. AAPS (American Association of Pharmaceutical Scientists) Annual Meeting and Exposition. Salt Lake City, Utah. USA. AAPS, 2003. (Poster Presentation).

MEMBER OF

- Bioequivalence studies committee at Jordan Food and Drug Administration (July, 2007 – February, 2010).
- The Aerosol Society. North Somerset, United Kingdom.
- Jordan Pharmaceutical Association. Amman, Jordan.