



## **Ala` Alhusban, PhD**

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### **Personal Information:**

- Name: Ala` Abdulkareem Ahmad Alhusban.
- Birth: 13<sup>th</sup> of November 1980 (ALMAFRAQ / JORDAN).
- Nationality: Jordanian.
- Gender: male.
- Marital status: married.

### **Education:**

- ❖ **PhD of Pharmaceutical Sciences/Pharmacy (20-May-2016),**
  - ◆ Thesis title: *Bioprocess Monitoring Using Sequential Injection Capillary Electrophoresis*
  - ◆ Specialization in Pharmaceutical Instrumental Analysis
  - ◆ GPA 7/7 (High Distinction/Honors First Class)
  - ◆ School of Medicine/Pharmacy, Faculty of Health Sciences, University of Tasmania, Hobart, Tasmania, Australia.
- ❖ **Graduate Certificate of Research (4-June-2016)**
  - ◆ High Distinction (HD)
  - ◆ Graduate Research Office, University of Tasmania, Hobart, Tasmania, Australia.
  - ◆ Units include: Introduction to Higher Degree by Research, Communicating Research, Advanced Analytical Techniques (Central Science Laboratory (CSL)), and Introduction to Commercialization.
- ❖ **Master Degree of Pharmaceutical Sciences in Pharmacy (15-June-2006),**
  - ◆ Thesis title: *An Investigation of Selected Heavy Metals in Different Drugs and Herbal Pharmaceutical Dosage Forms from Jordan Market*
  - ◆ Specialization in Medicinal Chemistry and Pharmacognosy
  - ◆ Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, Jordan.
  - ◆ Cumulative average of 80.2%.
  - ◆ Important courses include: Advanced Organic Pharmaceutical Chemistry, Natural Product Analysis, Stereochemistry, Advanced Physical Chemistry, Advanced Drug Metabolism, Advanced Organic Synthesis, Chromatographic Separation and Electro-analytical Methods, and Selective Topics in Analytical Analysis.



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### ❖ **Bachelor Degree of Science in Pharmacy, (24-February-2003),**

- ◆ Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, Jordan.
- ◆ Cumulative average of 70.7%

### ❖ **Secondary Education Certificate,**

- ◆ Almafraaq Secondary School 1998, Almafraaq, Jordan.
- ◆ Cumulative average of 91.9%

### **Languages:**

- ❖ English: reading, writing, and speaking fluently (TOEFL ibt 102/120).
- ❖ Arabic: mother language.

### **Experiences:**

- ❖ Experience of 3 years as a responsible pharmacist in two private pharmacies (2003-2006), and experience as a Pharmacy Manager in a private pharmacy (SEDAR PHARMACY/ALMAFRAQ), (2006-2011).
- ❖ Experience of scientific research including pharmaceutical instrumental analysis, pharmaceutical medicinal chemistry and pharmaceutical quality control. Also familiar with different analytical instruments including: Capillary Electrophoresis, Sequential-Injection Capillary Electrophoresis, Atomic Emission and Absorption Spectrophotometers, Chromatography, Electrophoresis, Nuclear Magnetic Resonance (NMR), Mass Spectroscopy (MS), and Infra-Red (IR) Spectrometry, (2003-2015).
- ❖ Experience of teaching includes participating in teaching of three laboratories: Pharmaceutical Medicinal Chemistry, Pharmacology and Instrumental Analysis, (2003-2007).
- ❖ Assistant Professor at Al-Zaytoonah University of Jordan, teaching responsibilities include: Instrumental Analysis, Phytochemistry, Medicinal Plants, Pharmaceutical Instrumental Analysis Laboratory and Pharmacology Laboratory, (20-May-2016 to now).



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### **Publications:**

- ❖ Alhusban, A. A., Breadmore, M. C.; Guijt, R. M. **Capillary Electrophoresis for Monitoring Bioprocesses**, *Electrophoresis*, 34, (2013) 1465-1482. DOI: 10.1002/elps.201200646.
- ❖ Alhusban, A. A., Gaudry, A. J., Breadmore, M. C., Gueven, N., Guijt, R. M. **On-line Sequential Injection-Capillary Electrophoresis for Near-real-time Monitoring of Extracellular Lactate in Cell Culture Flasks**, *Journal of Chromatography A*, 1323, (2013) 157-162. DOI: 10.1016/j.chroma.2013.11.006.
- ❖ Alhusban, A. A., Breadmore, M. C., Gueven, N., Guijt, R. M. **Capillary Electrophoresis for Automated On-line Monitoring of Suspension Cultures: Correlating Cell Density, Nutrients and Metabolites in Near-real-time**, *Analytica Chimica Acta*, ACA, 920, (2016) 94–101, DOI: 10.1016/j.aca.2016.03.034.
- ❖ Alhusban, A. A., Breadmore, M. C., Gueven, N., Guijt, R. M. **Parallel Monitoring of Pharmacological Assays using Sequential Injection Capillary Electrophoresis**, submitted.
- ❖ Breadmore M. C., Tubaon R. M., Shallan A.I., Phung S.C., Abdul Keyon A.S., Gstoettenmayr D., Prapatpong P., Alhusban A.A., Ranjbar L., See H.H., Dawod M., Quirino J.P. **Recent advances in enhancing the sensitivity of electrophoresis and electrochromatography in capillaries and microchips (2012-2014)**. *Electrophoresis*, 36(1), (2013) 36-61. DOI: 10.1002/elps.201400420.

### **Conferences:**

- ❖ Alhusban, A. A., Breadmore, M. C., Gueven, N., Guijt, R. M. **Online Organic Acids Characterisation and monitoring from Bioprocess Using Sequential Injection Capillary Electrophoresis**. *20<sup>th</sup> Research and Development Topics Conference*, Deakin University, Geelong, Australia, 11<sup>th</sup> to 14<sup>th</sup> of December 2012.
- ❖ Alhusban, A. A., Breadmore, M. C., Gueven, N., Guijt, R. M. **Sequential Injection Capillary Electrophoresis for Bioprocess Monitoring**. *UTAS Postgraduate Conference*, University of Tasmania, Hobart, Australia, 4<sup>th</sup> to 7<sup>th</sup> of September 2012.
- ❖ Alhusban, A. A., Breadmore, M. C., Gueven, N., Guijt, R. M. **On-line SI-CE for Near-real-time Monitoring of Extracellular Lactate in Cell Culture**. *Tasmanian Health Science HDR Student Conference*, University of Tasmania, Hobart, Australia, 5<sup>th</sup> and 6<sup>th</sup> of September 2013.



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- ❖ [Alhusban, A. A.](#), Breadmore, M. C., Gueven, N., Guijt, R. M. **Online Monitoring of Cell Culture by Sequential Injection Capillary Electrophoresis**. *40<sup>th</sup> International Symposium on High-Performance Liquid-Phase Separations and Related Techniques*, Hobart, Australia, 18<sup>th</sup> to 21<sup>th</sup> November 2013.
- ❖ [Alhusban, A. A.](#), Breadmore, M. C., Gueven, N., Guijt, R. M. **On-line Monitoring of Cell Cultures**. *The 3<sup>rd</sup> International Conference Implementation of Microreactor in Biotechnology (IMTB)*, Opatija, Croatia 10<sup>th</sup> to 13<sup>th</sup> May 2015.
- ❖ R.M. Guijt, [A. A. Alhusban](#), A. Shallan, U. Kalsoom, M. Boyce, M.C. Breadmore, **Alternative Approaches for Sample Preparation in Capillary Electrophoresis**, CECE 2015 – *International Interdisciplinary Meeting on Bio-analysis*, Brno, Czech Republic, 21<sup>th</sup> to 23<sup>th</sup> September 2015.

## **References:**

- ❖ **Professor Tareq Alqirim**,
  - ◆ Faculty of Pharmacy Dean, Professor of Biochemistry, *Al-Zaytoonah University of Jordan*, Amman, Jordan.
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- ❖ **Professor Ghassan Abu Sheikha**,
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- ❖ **Professor Michael C. Breadmore**,
  - ◆ Professor of Analytical Chemistry in the Chemistry School, Faculty of Science, Engineering & Technology, *University of Tasmania*, Hobart, Tasmania, Australia.
  - ◆ Australian Centre of Research on Separation Science (ACROSS).
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### ❖ **Doctor Rosanne M. Guijt,**

- ◆ Senior lecturer in the Pharmacy division in the School of Medicine, Faculty of Health Sciences, *University of Tasmania*, Hobart, Tasmania, Australia.
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