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Personal Information:

- Name: Ala` Abdulkareem Ahmad Alhusban.
- Birth: 13th 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/Honours 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 Science 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: Chromatographic Separation and Electro-Analytical Methods, Advanced Organic Pharmaceutical Chemistry, Natural
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Product Analysis, Stereochemistry, Advanced Physical Chemistry, Advanced Drug Metabolism, Advanced Organic Synthesis and Selective Topics in Analytical Analysis.

- ❖ **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,**
 - ◆ *Almafraq Secondary School* 1998, Almafraq, Jordan.
 - ◆ Cumulative average of 91.9%

Languages:

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

Experiences:

- ❖ Assistant Professor at *Al-Zaytoonah University of Jordan* (20-May-2016 to now), teaching responsibilities include:
 1. Pharmaceutical Instrumental Analysis
 2. Pharmaceutical Instrumental Analysis Laboratory
 3. Phytochemistry
 4. Medicinal Plants
 5. Pharmacology Laboratory

 - ❖ Australian Centre for Research on Separation Science (ACROSS) member, Hobart, Tasmania, Australia (6-July-2012 to now)

 - ❖ Pharmaceutical Quality Control Committee member at JFDA (30-April-2017 to now)

 - ❖ Pharmaceutical Laboratories Affairs Committee member at JFDA (23-October to now)

 - ❖ University Council member as Representative of the Faculty of Pharmacy, *Al-Zaytoonah University* (10-October-2016 to now)

 - ❖ Academic Equation and Advising Committee member at Pharmacy Department, *Al-Zaytoonah University* (10-October-2016 to now)

 - ❖ Laboratories Affairs Committee member at Pharmacy Department, *Al-Zaytoonah University* (10-October-2016 to 18-October-2017)
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- ❖ Scientific Research Committee member at Pharmacy Department, *Al-Zaytoonah University* (10-October-2016 to now)
- ❖ Study Plan Committee member at Pharmacy Department, *Al-Zaytoonah University* (10-October-2016 to now)
- ❖ Quality Assurance activist at Pharmacy Department, *Al-Zaytoonah University* (10-October-2016 to now)
- ❖ Reviewer at peer reviewed journals.
- ❖ Moderator in scientific conferences.
- ❖ Experience 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).
- ❖ Scientific research experience 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, Liquid Chromatography (LC), Gas Chromatography (GC), Nuclear Magnetic Resonance (NMR), Mass Spectroscopy (MS), and Infra-Red (IR) Spectrometry, (2003-2017).
- ❖ Teaching assistant experience including Pharmaceutical Medicinal Chemistry, Pharmacology and Instrumental Analysis, (2003-2007).

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. and Guijt, R.M. **Time-Resolved Pharmacological Studies using Automated, On-line Monitoring of Five Parallel Suspension Cultures**. *Scientific Reports*, 7(1), (2017) p.10337, DOI:10.1038/s41598-

017-10472-1.

- ❖ 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.** *20th Research and Development Topics Conference*, Deakin University, Geelong, Australia, 11th to 14th 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, 4th to 7th 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, 5th and 6th of September 2013.
- ❖ Alhusban, A. A., Breadmore, M. C., Gueven, N., Guijt, R. M. **Online Monitoring of Cell Culture by Sequential Injection Capillary Electrophoresis.** *40th International Symposium on High-Performance Liquid-Phase Separations and Related Techniques*, Hobart, Australia, 18th to 21th November 2013.
- ❖ Alhusban, A. A., Breadmore, M. C., Gueven, N., Guijt, R. M. **On-line Monitoring of Cell Cultures.** *The 3rd International Conference Implementation of Microreactor in Biotechnology (IMTB)*, Opatija, Croatia 10th to 13th 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, 21th to 23th September 2015.

References:

- ❖ **Professor Tariq M. Alqirim**,
 - ◆ College of Pharmacy Dean,
 - ◆ Professor of Clinical Biochemistry, *Al-Zaytoonah University of Jordan*, Amman, Jordan.
 - ◆ pharmacy@alzaytoonah.edu.jo
 - ◆ Tariq.Alqirim@yahoo.com
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❖ **Professor Rosanne M. Guijt,**

- ◆ Senior lecturer in the Pharmacy division in the School of Medicine, Faculty of Health Sciences, *University of Tasmania*, Hobart, Tasmania, Australia.
- ◆ Australian Centre of Research on Separation Science (ACROSS)
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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)
- ◆ Michael.breadmore@utas.edu.au

❖ **Associate Professor Nuri Guven,**

- ◆ Acting Deputy Associate Head Pharmacy and Associate Professor in the Pharmacy division in the School of Medicine, Faculty of Health Sciences, *University of Tasmania*, Hobart, Tasmania, Australia.
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