

Dr Mais Majed Urabi Saleh

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Research Resume

My research focus on understanding how the physiochemical properties of actives influencing the barrier penetration, assessing the potential antioxidant activity and photoprotection of the actives from ultraviolet (UV) damage, and the applications of nanotechnology such as solid lipid nanoparticles and liposomes in cosmetic formulations. Indeed, translating of the active into skincare cosmetic product.

Education & Degrees

- **PhD in Pharmaceutical Science, 2014-2019**

Institute of Pharmaceutical Sciences, King's College London, University of London – London, England

Thesis title: Delivery of tocopherol phosphate nanomaterials into the skin to protect against ultraviolet radiation



- **MSc in Pharmacology, 2010-2012, (3.75 – Distinction)**

Faculty of Medicine, University of Jordan – Amman, Jordan

Thesis title: Methylene Tetrahydrofolate Reductase Genotype Correlation with the Toxicity of and Response to Methotrexate in Rheumatoid Arthritis Patients at Jordan University Hospital.



- **BSc in Pharmacy, 2005-2010, (3.4 – Very Good)**

Faculty of Pharmacy, University of Jordan – Amman, Jordan



Work experience

University of Jordan – Amman, Jordan

2019 – Present

✓ Current post(s): **Assistant professor**, Department of Pharmaceutics and Pharmaceutical Technology, Faculty of Pharmacy, University of Jordan (Accreditation Council for Pharmacy Education (ACPE)).

I have been teaching these modules: Cosmetics science, Seminar in Pharmaceutics and Pharmaceutical Technology, Pharmaceutical Calculations and Compounding of Dosage Forms, Physicochemical Principles of Pharmacy.

King's College London – London, UK

2017-2018

✓ Previous position: **Visiting PhD student**, St John's Institute of Dermatology, Guy's Hospital, King's College London, London, UK.

During my Ph.D. I worked independently for 12- months in St John Institute of Dermatology at Guy's Hospital to complete the photobiology experimental part of my PhD thesis.

2015-2017

✓ Previous position: **Postgraduate teaching & research assistant**, Institute of Pharmaceutical science, School of life science & medicine, King's College London

I have been demonstrating in "Physical Pharmacy Practice". I have been Supervising MSc students during my PhD research, training & supporting them in managing and designing their project.

University of Jordan – Amman, Jordan

2012 – 2014

✓ Previous position: **Teaching assistant**, Faculty of Pharmacy, University of Jordan.

I have been demonstrating in Phyto-chemical analysis practical, Pharmaceutical organic chemistry practical, and Pharmaceutical technology practical.

German Jordanian University – Amman, Jordan

2011-2012

✓ Previous position: **Teaching & research assistant**, Department of Pharmaceutical & Chemical Engineering, German Jordanian University.

I have been demonstrating in General chemistry, Biochemistry, Biotechnology practical, and Pharmaceutical technology practical.

Community services

- **ACPE standard committee.** I am taking part in preparing of detailed the self-study report and organization and administrative document how the pharmacy degree program is addressing ACPE's International Quality Criteria to renew the ACPE certificate from International Commission and Board of Directors. I helped in collecting the documents, data and descriptive text that will need to be provided by the school for evaluation during the on-site visit in order to determine how the program is addressing each of the Quality Criteria. (25.03.2021- till now).
- **Faculty committee:** Faculty Symposium Committee and Website Committee (20.10.2020-till now).
- **Accreditation and quality assurance commission.** I have been assigned by the Accreditation and quality assurance commission for higher education institutes for the different tasks, such as review process and commission decision in accreditation as well as to establish the learning outcomes, competences, and cognitive areas for cosmetic science bachelor program at Al-Ahlyya Amman University during the period of August 29 till September 23, 2019.

Research funding & Collaboration

<u>Type of collaboration</u>	<u>Project title</u>	<u>Funders</u>	<u>Achievements</u>
Funding, professional & experimental aspects	Tocopherol phosphate: characterizing its permeation into human skin layers <i>ex vivo</i>. (April 2020) <u>M. M. Saleh</u> , M. Amarin, Gh Isaifan	The dean of scientific research University of Jordan, Amman, Jordan	In progress
Professional, data analysis aspects	Correlation of skin cancer and actinic keratosis-related knowledge, and sun protection behaviors. (April 2020) <u>M. M. Saleh</u> , O. Awwad	The dean of scientific research University of Jordan, Amman, Jordan	In progress

Scholarship & Awards

Travel grant from Athena SWAN at King's College London-London, UK

✓ Covers all the cost to attend the Perspective of Percutaneous Penetration (PPP 2018) conference in France la Grande Motte.
April 03-06, 2018

Travel grant from Athena SWAN at King's College London-London, UK

✓ Covers all the cost to attend the 6th FIP Pharmaceutical Sciences World Congress (PSWC 2017) in Sweden Stockholm.
May 21– 24, 2017

PhD Full Scholarship granted by the University of Jordan -Amman, Jordan

2014-2018

✓ Covers tuition fees, bench fees, health insurance, and monthly salary.

Scientific Achievement Scholarship for Outstanding Postgraduate Students granted by Ministry of Higher Education - Amman, Jordan

2010-2012

✓ Covers tuition fees, and monthly salary.

Membership

- Jordan Association of Pharmacists.
- Society of cosmetic science (SCS).

Research Skills

- Biological skills: Tissue culture, Cell viability assay (Alamar blue, MTT, and Neutral red assay), DNA extraction, RNA extraction, PCR, RFLP, Real time- PCR, Agarose gel electrophoresis, skin cryo-sectioning, H&E staining, Western blotting and Immunohistochemistry.
- Pharmaceutical and biophysical skills: Release studies, Skin deposition studies, HPLC- UV, and HPLC- Fluorescence, Franz Cell diffusion studies across silicone artificial membrane and porcine animal skin, Atomic force microscopy (AFM), Langmuir trough isotherm (Langmuir Blodgett), and constant assay, FTIR, Fluorometry, Spectrophotometry, DCFDA/H₂DCFDA cellular ROS assay, DPPH and ORAC antioxidant assay, Solid lipid nanoparticles fabrication, chitosan nanoparticles small-scale synthesis, and Liposome preparation by thin film hydration method,
- Other skills: Microsoft Excel, power point poster presentation, EndNote, SPSS, Sigma plot, Graph pad prism, Camtasia, Moodle, and Microsoft team.

Workshops & Trainings

- Assessing the bioavailability in Skin using Raman Spectroscopy, University of Bath, online Webinar (Jan., 29, 2021).
- Mini botanical formulation course, Formula Botanica, online training course (Jan., 29, 2021)
- Step-by-step guide to prepare a successful paper for publication, Springer, a part of Springer Nature. Online webinar (Nov.,18, 2020).
- How to Use Web of Science platform, A Clarivate analytics company, Online webinar (Oct., 06, 2020).
- Good clinical practice (GCP), NIDA Clinical Trials Network online 6-hour training course (March, 02, 2020).
- How to Write a Good Research Grant Application, King's College London, London, UK (June 07, 2018).
- Introduction to statistic with SPSS for post-graduate students, King's College London, London, UK (June 01-07, 2018).
- Pre-conference course: Introduction to skin permeation, product development and regulation, PPP 2018, La Grande Motte, France (April 03, 2018).
- Quantitative Genomics, Epigenomics, and Biobank (qGEB) workshop with CyTOF, School of Cancer & Pharmaceutical Sciences, King's College London, London, UK (October, 2017).
- Presentation Skills (For Postgraduate Research Students & Research Staff), King's College London, London, UK (May, 2017).
- An introduction to lecturing, King's College London, London, UK (May, 2017).
- Adobe Photoshop Elements introduction, King's College London, London, UK (May, 2017).
- Writing for Publication in the Sciences, King's College London, London, UK (April, 2017).
- Turbocharge your writing, King's College London, London, UK (November, 2016).
- Human tissue act and consent form course, King's College London, London, UK (March, 2016).
- Responsible Conduct in Research: Research Ethics, Governance & Integrity, King's College London, London, UK (November, 2015).
- Managing Research Projects, King's College London, London, UK (October, 2015).
- Managing your research data, King's College London, London, UK (September, 2015).
- Microsoft Excel advanced tools and PowerPoint poster presentation, King's College London, London, UK (July, 2015).
- Writing a literature review, King's College London, London, UK (February, 2015).
- How to get published, King's College London, London, UK (February, 2015).
- Preparing to Teach in high education, King's College London, London, UK (September, 2014).

Conferences

- The 1st dermatology away day (DRAD, 2018), The Great Hall, Stand Campus, King's College London, London, UK (May, 2018) (poster presentation).
- Perspectives in Percutaneous Penetration Conference (PPP 2018), La Grande Motte, France (April 03-06, 2018) (poster presentation).
- The 1st skin @ Bath Network Symposium (S@BNS 2017), Old theatre Royal, Bath, UK (Nov., 2017) (poster presentation).
- The 6th Pharmaceutical Sciences World Congress (PSWC 2017), Stockholm, Sweden (May 21– 24, 2017) (poster presentation).
- The 2017 European Nanomedicine Meeting, King's College London, London, UK (April, 2017).
- Institute of Pharmaceutical Sciences Symposium, King's College London, London, UK (May, 2016) (Oral presentation).
- Institute of Pharmaceutical Sciences Symposium, King's College London, London, UK (May, 2015) (Poster presentation).
- JU-Pharmacy 3rd International Conference, "Recent Trends and Advances in Pharmacy", the University of Jordan, Amman, Jordan (October 2012) (Oral presentation).

Publications

- Mais M Saleh, Karl P Lawrence, and Stuart. A. Jones, Antony R Young (**Under review**). The photoprotective properties of α -tocopherol phosphate against long-wave UVA1 (385nm) radiation in keratinocytes *in vitro*.
- Dima Khater, Hamdi Nsairat, Fadwa Odeh, Mais Saleh, Areej Jaber, Walhan Alshaer, Abeer Al-Bawab and Mohammad S. Mubarak (**accepted in 2021**). Design, Preparation and Characterization of Effective Dermal and Transdermal Lipid Nanoparticles. *Cosmetics*.
- Mais M Saleh, Arcadia Woods, Richard Harvey, Stuart. A. Jones (**2021**). Nanomaterials fusing with the skin: alpha-tocopherol phosphate delivery into the viable epidermis to protect against ultraviolet radiation damage. *International Journal of Pharmaceutics*. Volume 594, 120000
- Mariam H. Abdel Jalil, Mervat M AL Sous, Khawla Abu Hammour, Mais M Saleh, Rimal Mousa, Emman Hammad (**2020**). Role of pharmacists in COVID-19 disease: a Jordanian perspective. *Journal of disaster Medicine and public health preparedness*. 1-7.
- Mariam H. Abdel Jalil, Mervat M AL Sous, Khawla Abu Hammour, Mais M Saleh, Rimal Mousa, Emman Hammad (**2020**). Perceived stress during COVID-19 outbreak and the public perceptions regarding pharmacists' roles in public health emergencies. *Journal of disaster Medicine and public health preparedness*. 1-16.
- Robert A. Harper, Latrisha Petersen, Mais M. Saleh, Gordon Proctor, Guy Carpenter, Robert Gambogi, Anthony Geonnotti, Robert Hider and Stuart A. Jones (**2019**). Targeting macrophages and their recruitment in the oral cavity using swellable (+) alpha tocopheryl phosphate nanostructures. *Nanomedicine: Nanotechnology, Biology and Medicine*, Volume 21, 102010.

- Robert A. Harper, Mais M. Saleh, Guy Carpenter, Vincenzo Abbate, Gordon Proctor, Richard D. Harvey, Robert J. Gambogi, Anthony Geonnotti, Robert Hider and Stuart A. Jones (2018). Soft, adhesive (+) alpha tocopheryl phosphate planar bilayers that control oral biofilm growth through a substantive antimicrobial effect. *Nanomedicine: Nanotechnology, Biology and Medicine*, 14 (7), 2307-2316.
- Mais M Saleh, Arcadia Woods, Richard Harvey, Stuart A Jones (2017). The phosphorylation of alpha-tocopherol facilitates enhanced interactions with skin lipids. *FIP congress* (Poster abstract).
- Mais M Saleh, Yacoub M Irshaid, Khader N Mustafa (2015). Methylene tetrahydrofolate reductase genotypes frequencies: association with toxicity and response to methotrexate in rheumatoid arthritis patients. *International Journal of Clinical Pharmacology Therapeutics*. 53(2):154-62.

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