



Rayan Yaqub M Mushtaq

Assistant Professor

Personal Data

Nationality | Saudi

Date of Birth | 22 April 1987

Department of Pharmaceutics | College of Clinical Pharmacy (COCP)

Imam Abdulrahman Bin Faisal University (IAU)

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Language Proficiency

Language	Read	Write	Speak
Arabic	√	√	√
English	√	√	√

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2020	Doctor of Philosophy (PhD), School of Pharmacy	University of Nottingham	Nottingham, UK
2016	Master of Science (MSc), Pharmaceutics	University of Hertfordshire	Hatfield, UK
2012	Bachelor of Pharmacy (BPharm), Pharmaceutical Sciences	Riyadh Elm University	Riyadh, KSA

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD thesis	Investigating the impact of the surface on the physical stability of drug: polymer amorphous solid dispersions
MSc thesis	Sustained release drug delivery system for elderly patients with dysphagia



Professional Record: (Beginning with the most recent)

Job Rank	Place of Work	Date
Assistant Professor	Department of Pharmaceutics, COCP, IAU	June 2021- Present
Lecturer	Department of Pharmaceutics, COCP, IAU	Aug 2017- June 2021
Pharmacist	King Fahad University Hospital Pharmacy, IAU	Jan- April 2015
Demonstrator	Department of Pharmaceutics, COCP, IAU	Jul 2013-Aug 2017
Demonstrator	Department of Pharmacology, College of Medicine, IAU	Feb 2013-Jul 2013
Intern	King Fahad Hospital Pharmacy, Ministry of Health Jeddah	Sep 2011- Jan 2012
Trainee	Analytical method development, quality control, quality assurance, production, and research and developments departments, Jamjoom Pharma Jeddah	June- July 2009

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Sarah A. Ali, Nabil A. Alhakamy, Khaled M. Hosny, Eman Alfayez, Deena M. Bukhary, Awaji Y. Safhi, Moutaz Y. Badr, Rayan Y. Mushtaq, Majed Alharbi, Bader Huwaimel, Mohammed Alissa, Sameer Alshehri, Ali H. Alamri & Taha Alqahtani	Rapid oral transmucosal delivery of zaleplon–lavender oil utilizing self-nanoemulsifying lyophilized tablets technology: development, optimization and pharmacokinetic evaluation	Drug Delivery (2022)



2	Nabil A. Alhakamy, Nimbagal Raghavendra Naveen, Shashank Gorityala , Mallesh Kurakula, Khaled M. Hosny, Awaji Y. Safhi, Deena M. Bukhary, Haitham A. Bukhary, Fahad Y. Sabei, Rayan Y. Mushtaq and Samar S. Murshid	Development of Novel S-Protective Thiolated-Based Mucoadhesive Tablets for Repaglinide: Pharmacokinetic Study	Polymers (2022)
3	Khaled M. Hosny, Raghavendra N. Naveen, Mallesh Kurakula *, Amal M. Sindi, Fahad Y. Sabei, Adel Al Fatease, Adul Majeed M. Jali, Waleed S. Alharbi, Rayan Y. Mushtaq, Majed Felemban, Hossam H. Tayeb, Eman Alfayez, Waleed Y. Rizg	Design and Development of Neomycin Sulphate Gel Loaded with Solid Lipid Nanoparticles for Buccal Mucosal Wound Healing	Gels (2022)
4	Waleed Y. Rizg, Raghavendra Naveen N, Mallesh kurakula *, Awaji Y. Safhi, Samar S. Murshid, Rayan Y. Mushtaq, Walaa A. Abualsunun, Majed Alharbi, Rana B. Bakhaidar, Alshaimaa M. Almehmady, Khaled M. Hosny	Augmentation of Antidiabetic activity of Glibenclamide Microspheres by internal Gelation using S-protected Okra Powered by QbD: Scintigraphy and in vivo studies	Pharmaceuticals (2022)
5	Waleed Y. Rizg, Khaled M Hosny, Samar S Mahmoud, Ahmed Kammoun, Abdulmohsin J. Alamoudi, Hossam H. Tayeb, Haitham A. Bukhary, Moutaz Y. Badr, Samar S. A. Murshid, Eman Alfayez, Sarah A. Ali, Rayan Y. Mushtaq, Walaa A Abualsunun.	Repurposing Lovastatin Cytotoxicity against the Tongue Carcinoma HSC3 Cell Line Using a Eucalyptus Oil-Based Nanoemulgel Carrier	Gels (2022)
6	Khaled M. Hosny, Waleed Y. Rizg, Nabil A. Alhakamy, Abdulmohsin J. Alamoudi, Rayan Y. Mushtaq, Awaji Y. Safhi.	Utilization of Nanotechnology and Experimental Design in Development and Optimization of Aloe vera Gel Loaded with Finasteride–Garlic Oil–Nanotransfersomes	Journal of Drug Delivery Science and Technology (2022)



7	Khaled M. Hosny, Waleed Y. Rizg, Eman Alfayez, Samar S. Elgebaly, Abdulmohsin J. Alamoudi, Raed I. Felimban, Hossam H. Tayeb, Rayan Y. Mushtaq, Awaji Y. Safhi, Majed Alharbi & Alshaimaa M. Almehmady.	Preparation and optimization of aloe ferox gel loaded with Finasteride-Oregano oil nanocubosomes for treatment of alopecia	Drug Delivery (2022)
8	Khaled M. Hosny, Amal M. Sindi, Sarah Ali, Waleed S. Alharbi, Maher S. Hajjaj, Haitham A. Bukhary, Moutaz Y. Badr, Rayan Y. Mushtaq, Samar S. A. Murshid, Alshaimaa M. Almehmady, Rana B. Bakhaidar, Eman Alfayez & Mallesh Kurakula.	Development, optimization, and evaluation of a nanostructured lipid carrier of sesame oil loaded with miconazole for the treatment of oral candidiasis	Drug Delivery (2022)
9	Hatem O. Qutub, Mastour S. Alghamdi, Mohammad A. Randhawa, Raniah A. Al-Jaizani, Rayan Y. Mushtaq, Mohammad J. Akbar.	Drug Related Problems at the Intensive Care Unit of a University Hospital in Saudi Arabia	Saudi Journal of Internal Medicine (2015)

Current Research

#	Research Title	Name of Investigator(s)
	Investigating the impact of the surface on the recrystallisation behavior of amorphous paracetamol	Rayan Y. Mushtaq, Philip M. Williams, Jonathan C. Burley

Graduation Project Supervision

Undergraduate students

#	Level	Number of Students	Research Project Title
	10	3	Improving solubility and dissolution of meloxicam by solid dispersion using hydroxypropyl methylcellulose



Teaching activities

Undergraduate students

#	Course Title	Course Code	Extent of Contribution
1	Physical Pharmacy	PHCT 207	3
2	Pharmaceutical Dosage Forms	PHCT 309	3
3	Fundamentals of Pharmaceutics	PHCT 202	3
4	Pharmaceutical Delivery Systems	PHCT 402	2
5	Biopharmaceutics and Pharmacokinetics	PHCT 412	3

Course Coordination

#	Course title and code	From	To
1	Physical Pharmacy (PHCT 207)	February 2022	May 2022
2	Fundamentals of Pharmaceutics (PHCT 202)	September 2022	December 2022
3	Pharmaceutical Delivery Systems (PHCT 402)	December 2022	February 2023

Administrative Responsibilities, Committee, and Community Services

Administrative Responsibilities

#	From	To	Position	Organization
1	Dec 2020	Present	Member of the Department of Pharmaceutics Board	COCP, IAU
2	Jan 2021	Present	Member of the Postgraduate Studies Unit	COCP, IAU
3	Jan 2022	Present	Head of the Alumni Unit	COCP, IAU
4	Sep 2022	Present	Member of Pharmaceutical Studies and Consultation Centre (PSCC)	COCP, IAU



Student Academic Supervision and Mentoring

Undergraduate students

#	Level	Number of students	From	To
	4	7	May 2021	Present

Postgraduate students

#	Level	Number of students	From	To
	PhD students	2	June 2021	Present

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Microsoft Word: Creating and Managing Long Documents
2	Microsoft Word, Excel and PowerPoint: Producing Charts
3	Database Design
4	Microsoft Excel: Essentials
5	Microsoft Word: Essentials
6	Microsoft PowerPoint: Essentials
7	X-ray powder diffraction instrument
8	Polarizing Microscope with controlled-temperature stage
9	Scientific image analysis by using ImageJ software
10	Use of cooling stage with liquid nitrogen
11	Raman spectroscopy and mapping
12	Differential scanning calorimetry
13	Rheometer instrument
14	Texture analyser instrument
15	Professional Registration Classification Certificate as a Pharmacist from the Saudi Commission for Health Specialties (SCFHS), Jeddah 2012.

Last Update

06/07/2023