



Rayan Yaqup M Mushtaq

Assistant Professor

Personal Data

Nationality | Saudi

Department of Pharmaceutics | College of Clinical Pharmacy (CCP)

Imam Abdulrahman Bin Faisal University (IAU)

Official email | Rymushtaq@iau.edu.sa

Language Proficiency

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

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2021	Doctor of Philosophy (PhD), Pharmaceutics	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, CCP, IAU	June 2021- Present
Lecturer	Department of Pharmaceutics, CCP, IAU	Aug 2017- June 2021
Pharmacist	King Fahad University Hospital Pharmacy, IAU	Jan- April 2015
Demonstrator	Department of Pharmaceutics, CCP, 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)

	Authors	Research Title	Type	Publisher & Date
1	Muhammad Suleman, Safir Ullah khan; Shahid Ali, Abdullah Alghamdi, Mohammed Alissa, Rayan Y. Mushtaq , Sergio Crovella	Probing the Depths of Molecular Complexity: STAT3 as a Key Architect in Colorectal Cancer Pathogenesis	Review Article	Current Gene Therapy (2024)



2	Rayan Y. Mushtaq , Nimbagal Raghavendra Naveen, Krishna Jayanth Rolla, Humood Al Shmrany, Sameer Alshehri ⁵ , Ahmad Salawi, Mallesh Kurakula, Majed A Alghamdi, Waleed Y. Rizg, Rana B. Bakhaidar, Khaled M. Hosny, Abdulmohsin J. Alamoudi	Design and Evaluation of Magnetic-Targeted Bilosomal Gel for Rheumatoid Arthritis: Flurbiprofen Delivery using Superparamagnetic Iron Oxide Nanoparticles	Research Article	Frontiers in Pharmacology (2024)
3	Mohammed Ali A. Majrashi, Esam Bashir Yahya, Rayan Y. Mushtaq, Abdul Khalil H.P.S, Waleed Y. Rizg, Mohammed Alissa, Hanaa Alkharobi, Moutaz Y. Badr, Khaled M. Hosny	Revolutionizing Drug Delivery: Exploring the Impact of Advanced 3D Printing Technologies on Polymer-Based Systems	Review Article	Journal of Drug Delivery Science and Technology (2024)
4	Mohammed Ali A. Majrashi, Rahul Dev Bairwan, Rayan Y. Mushtaq , H.P.S. Abdul Khalil, Moutaz Y. Badr, Mohammed Alissa, C.K. Abdullah, Barakat A. Ali, Waleed Y. Rizg, Khaled M. Hosny.	Novel enhancement of interfacial interaction and properties in biodegradable polymer composites using green chemically treated spent coffee ground microfiller	Research Article	International Journal of Biological Macromolecules (2024)
5	Abdulaziz A. Alshehri, Shahid Ullah Khan, Mohamed Alissa, Syed Shams ul Hassan, Suad A. Alghamdi, Rayan Y. Mushtaq , Ahmed H. Albariqi, Abdulkareem Ibraheem Almhiitheef, Stefan, Anthony, Rizwan Ali Sheirdil, Abdul Murshed.	Nano guardians of the heart: A comprehensive investigation into the impact of silver nanoparticles on cardiovascular physiology	Review Article	Current Problems in Cardiology (2024)



6	Rayan Y. Mushtaq , Azfaralariff Ahmad, H.P.S. Abdul Khalil, Rana Baker Bakhaidar, Waleed Y. Rizg, Shazlina Abdul Hamid, Abdulmohsin J. Alamoudi, Che Ku Abdullah, Tata Alfatah	Elucidating the Synergistic Interactions of Macroalgae and Cellulose Nanofibers on the 3D Structure of Composite Bioaerogel Properties	Research Article	Express Polymer Letters (2024)
7	Hala M. Alkhalidi, Amerh Aiad Alahmadi, Waleed Y. Rizg, Esam Bashir Yahya, Abdul Khalil H.P.S., Rayan Y. Mushtaq , Moutaz Y. Badr, Awaji Y. Safhi, Khaled M. Hosny	Revolutionizing Cancer Treatment: Biopolymer-Based Aerogels as Smart Platforms for Targeted Drug Delivery	Review Article	Macromolecular rapid communications (2024)
8	Umer Ejaz, Muhammad Afzal, Modasrah Mazhar, Muhammad Riaz, Naveed Ahmed, Waleed Y Rizg, Amerh Aiad Alahmadi, Moutaz Y Badr, Rayan Y Mushtaq , Chan Yean Yean.	Characterization, Synthesis, and Biological Activities of Silver Nanoparticles Produced via Green Synthesis Method Using <i>Thymus Vulgaris</i> Aqueous Extract	Research Article	International Journal of Nanomedicine (2024)
9	Rayan Y. Mushtaq , Nimbagal Raghavendra Naveen, Papireddy Tiyyagura, Khaled M. Hosny, Mohammed A. Majrashi, Nagarjuna R Mamidipalli, Awaji Y. Safhi, Mohammed Alissa, Fahad Y.Sabei, Deena M Bukhary, Jazia A. Alblowi, Eman Alfayez, and Hanaa Alkharobi	Development, optimization and in-vivo pharmacokinetic evaluation of flubiprofen nanocrystal tablets for efficient chronotherapy against rheumatoid arthritis	Research Article	Journal of Drug Delivery Science and Technology (2023)



10	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	Research Article	Drug Delivery (2022)
11	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 , Samar S. Murshid	Development of Novel S-Protective Thiolated-Based Mucoadhesive Tablets for Repaglinide: Pharmacokinetic Study	Research Article	Polymers (2022)
12	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	Research Article	Gels (2022)
13	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. Almeahady, 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	Research Article	Pharmaceuticals (2022)



14	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	Research Article	Gels (2022)
15	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	Research Article	Journal of Drug Delivery Science and Technology (2022)
16	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	Research Article	Drug Delivery (2022)
17	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	Research Article	Drug Delivery (2022)
18	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	Research Article	Saudi Journal of Internal Medicine (2015)



Participation in Scientific Seminars and Conferences

Type	Title	Location	Date
PharmD Students' Graduation Project Posters Presentation	Posters reviewer	CCP, IAU	12-05-2024
Scientific Seminar Speaker	Investigating the impact of the surface on the recrystallisation behaviour of amorphous paracetamol	CCP, IAU	22-04-2024
Saudi International Pharmaceutical Science (SIPHA) Conference	Posters reviewer	Dhahran Expo, Khobar	03-01-2023

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
10	2	Investigating the effect of particle size reduction and solid dispersion on the solubility of celecoxib

Teaching activities

Undergraduate students

Course Title	Role
Physical Pharmacy (PHCT 207)	Course Coordinator
Pharmaceutical Dosage Forms (PHCT 309)	Course Coordinator
Fundamentals of Pharmaceutics (PHCT 202)	Course Coordinator
Pharmaceutical Delivery Systems (PHCT 402)	Course Coordinator
Biopharmaceutics and Pharmacokinetics (PHCT 412)	Course Instructor



Administrative Responsibilities, Committee, and Community Services

Administrative Responsibilities

From	To	Position	Organization
Dec 2020	Present	Member of the Department of Pharmaceutics Board	CCP, IAU
Jan 2022	Sep 2024	Director of the Alumni Unit	CCP, IAU
Sep 2022	Present	Member of the Pharmaceutical Studies and Consultation Centre (PSCC)	CCP, IAU
Sep 2023	Present	Member of the Curriculum Committee	CCP, IAU
Feb 2024	May 2024	Member of the College Annual Ceremony Committee	CCP, IAU
Aug 2024	Present	Member of the MSs Pharmaceutical Sciences Integrative Program Board	CCP, IAU
15-05-2024	15-05-2024	Inviting Graduates to Advise College Students on Job Opportunities After Graduation in the College Annual Ceremony	CCP, IAU
12-11-2023	16-11-2023	Instructor in the Preparation Program for Saudi Pharmacist Licensure Examination (SPLE)	CCP, 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



Membership of Scientific and Professional Societies and Organizations

Institution	Role	From	To
Saudi Scientific Society of Pharmaceutical Industries (SSSPI)	Member	22-10-2024	22-10-2025

Volunteer Work

Type of Volunteer	Organization	From	To
Diabetes awareness campaign	College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University	8/12/2022	8/12/2022

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 analyzer instrument
15	Professional Registration Classification Certificate as a Pharmacist from the Saudi Commission for Health Specialties (SCFHS), Jeddah 2012.

Last Update

22-10-2024