



# Dr. Dana Abdulrahman Almohazey

Assistant Professor  
Chairperson, Stem Cell Research Department

## Personal Data

Nationality | Saudi

Department | Stem Cell Research Department

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Clarivate Web of Science | <https://www.webofscience.com/wos/author/record/D-8048-2017>

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## Language Proficiency

Language	Read	Write	Speak
Arabic	Proficient	Proficient	Proficient
English	Proficient	Proficient	Proficient

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2016	PhD degree	University of Southern California	Los Angeles, California, USA
2010	MSc degree	University College London	London, UK
2004	BSc degree	King Faisal University	Dammam, Saudi Arabia

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

PhD	The role of neuregulin receptors in cell differentiation and the response to inflammatory cytokines in the intestinal epithelium.
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Master	The Effect of Low Ultrasound Duty Cycles on Drug Release from Polymeric Microparticles.
Bachelor	Medical Laboratory Technology
Fellowship	Advanced Higher Education Fellow (FHEA). In recognition of the attainment against the UK Professional Standards Framework for teaching and learning support in higher education. Fellowship Reference PR189656, 2020.
Honors and Awards	Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award. Awarded for the poster titled "ErbB3 Negatively Regulates Homeostatic Paneth Cell Numbers". Experimental Biology. San Diego, CA, 2016.
	Takeda Research Award from the American Physiological Society, Gastrointestinal and Liver Section. Awarded for the poster titled "The Neuregulin Receptors ErbB3 and ErbB4 Have Opposing Effects on Intestinal Paneth Cells". Experimental Biology. Boston, MA, 2015.
	FASEB Travel Award, Gastrointestinal Tract XVI: GI Homeostasis: The Microbiome and the Barrier, Development, & Disease. Awarded for the poster titled "The Neuregulin Receptors ErbB3 and ErbB4 Have Opposing Effects on Intestinal Paneth Cells". FASEB. Steamboat, CO, 2015.
	Awarded the status of a "Trusted Reviewer" from IOP Publishing.

#### Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Assistant Professor	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam, Saudi Arabia.	2017- present
Lecturer	Institute for Research and Medical Consultations (IRMC), Imam Abdulrahman Bin Faisal University (IAU), Dammam, Saudi Arabia.	2011- 2017
Medical Laboratory Technologist	Blood Bank & Transfusion Services, Saudi Aramco Medical Services Organization, Dhahran, Saudi Arabia.	2004- 2009
Sponsored undergraduate	College Degree Program for Non-Employees (CDPNE), Saudi Aramco Medical Services Organization, Dhahran, Saudi Arabia.	2002- 2004

#### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Chairperson of Stem Cell Research Department		2024- Present
IRMC Public Relations Committee, Chair		2021- 2023
IRMC Media Coordinator		2021- 2023
IRMC Public Relations Committee, Member		2020-2021
Attended the Strategic Alignment for Research and Development workshop organized by the Research and Development Office, Ministry of Education, Riyadh.		April, 2019
Coordinator between the Project Management Office and the Vice Presidency for Postgraduate Studies and Scientific Research for IAU strategic planning.		January, 2019
Attended the 1 <sup>st</sup> meeting for the Directors of Science and Technology Units organized by King Abdulaziz City for Science and Technology (KACST), Riyadh		May, 2018
Exhibitor at IAU booth at the International Collaborations Conference organized by the Research and Development Office, Ministry of Education, Riyadh		April, 2018

#### Scientific Achievements



## Patents

(In Chronological Order Beginning with the Most Recent)

#	Names of Inventor(s)	Title	Patent Number	Issue Date	Patent Office
1	B. Rabindran Jermy, Vijaya Ravinayagam, <b>Dana Almohazey</b>	Porous silicate/magnetic ferrite nanocarrier for combination anti-cancer therapeutic and antioxidant delivery.	11,779,652	October, 10, 2023	United States Patent and Trademark Office (USPTO)

## Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Borgio, J.F.; Almandil, N.B.; Selvaraj, P.; John, J.S.; Alquwaie, R.; AlHasani, E.; Alhur, N.F.; Aldahhan, R.; AlJindan, R.; <b>Almohazey, D.</b> ; et al.	The Potential of Dutasteride for Treating Multidrug-Resistant Candida auris Infection.	Pharmaceutics. 2024
2	Alotaibi, H.G.; Al-Abbad, E.; <b>Almohazey, D.</b> ; Ravinayagam, V.; Akhtar, S.; Dafalla, H.; Jermy, B.R	Zeolitic Imidazole Framework/Silica Nanocomposite for Targeted Cancer Therapeutics: Comparative Study of Chemo-Drug Cisplatin (Cpt) and Green Platinum (Gpt) Efficacy.	International Journal of Molecular Sciences. 2024
3	<b>Almohazey, D.</b> ; Ravinayagam, V.; Alamoudi, W.; Akhtar, S.; Dafalla, H.; AlSuwaidan, H.N.; Almutairi, S.T.; Alghamdi, H.S.; Aldamen, S.A.; Almessiere, M.A.; Baykal, A.; Maarouf, A.A.; Jermy, B.R.	Insights of Platinum Drug Interaction with Spinel Magnetic Nanocomposites for Targeted Anti-Cancer Effect.	Cancers. 2023.
4	Al Asoom L, Alassaf MA, AlSulaiman NS, Boumarah DN, Almubireek AM, Alkaltham GK, Alhawaj HA, Alkhamis T, Rafique N, Alsunni A, Latif R, Alsaif S, <b>Almohazey D</b> , AbdulAzeez S, Borgio JF.	The Effectiveness of <i>Nigella sativa</i> and Ginger as Appetite Suppressants: An Experimental Study on Healthy Wistar Rats.	Vascular Health and Risk Management. 2023.
5	Cyrus, C., Vatte, C., Al-Nafie, A., Chathoth, S., Akhtar, M.S., Darwish, M., <b>Almohazey, D.</b> , AlDubayan, S.H., Steinberg, M.H., Al-Ali, A.	miRNA Expression Associated with HbF in Saudi Sickle Cell Anemia.	Medicina. 2022.
6	Filiz Ercan, Tarek S. Kayed, Omer Kaygili, Niyazi Bulut, <b>Dana Almohazey</b> , Tankut Ates, Fatimah Saad Al-Ahmari, Ilker Ay, Tuna Demirci, Gokhan Kirat, Tahani Flemban, Turan Ince, Taher Ghrib,	Investigation of structural, spectroscopic, dielectric, magnetic, and in vitro biocompatibility properties of Sr/Ni co-doped hydroxyapatites.	Ceramics International. 2022.



	Ebtesam Abdullah Al-Suhaimi, Ismail Ercan.		
7	Razan Aldahhan, <b>Dana Almohazey</b> , Firdos Alam Khan.	Emerging trends in the application of gold nanoformulations in colon cancer diagnosis and treatment.	Seminars in Cancer Biology. 2021.
8	Rabindran Jermy, Vijaya Ravinayagam, <b>Dana Almohazey</b> , Widyam Alamoudi, Hatim Dafalla, Sultan Akhtar, Gazali Tanimu.	PEGylated Green Halloysite/Spinel Ferrite nanocomposites for pH sensitive delivery of dexamethasone: A potential pulmonary drug delivery treatment option for COVID-19.	Applied Clay Science. 2021.
9	Rabindran Jermy, <b>Dana Almohazey</b> , Widyam Alamoudi, Rubavathi Marimuthu Palanivel, Nora AlSudairi, Hatim Dafalla, Atheel Almofleh, T.M Alfareed, Vijaya Ravinayagam.	Synergistic Action of Curcumin and Cisplatin on Spinel ferrite/Hierarchical MCM-41 Nanocomposite against MCF-7 cancer cell line.	Cancer Nanotechnology. 2021.
10	Johra Khan, Lubna Ibrahim Al Asoom, Ahmad Al Sunni, Nazish Rafique, Rabia Latif, Seham Al Saif, Noor B. Almandil, <b>Dana Almohazey</b> , Sayed AbdulAzeez, J. Francis Borgio.	Genetics, Pathophysiology, Diagnosis, Treatment, Management, and Prevention of Migraine.	Biomedicine & Pharmacotherapy. 2021.
11	Al Asoom LI, Alajmi MS, Alsudairi RR, AlShamlan AA, Almomaten AA, Alqarni AA, Alshammari MH, Rafique N, Latif R, Alsunni AA, <b>Almohazey DA</b> , Alsuwat HS, Azeez SA, Borgio FJ.	Association between sex hormones and migraine in young Saudi females.	Saudi Medical Journal. 2021.
12	Latif R, Rafique N, Al Asoom L, Alsunni AA, Salem AM, AlNoaimi DA, AlHarbi WM, Shaikh AY, AlRaddadi SA, AlMuhaish LA, <b>Almohazey D</b> , Abdulazeez S, Borgio JF.	Diagnostic accuracy of serum calcitonin gene-related peptide and apolipoprotein E in migraine: A Preliminary Study.	International Journal of General Medicine. 2021.
13	Michael A. Schumacher, Jonathan J. Hsieh, Cambrian Y. Liu, Keren L. Appel, Amanda Waddell, <b>Dana Almohazey</b> , Kay Katada, Jessica K. Bernard, Edie B. Bucar, Safina Gadeock, Kathryn M. Maselli, M. Kay Washington, Tracy C. Grikscheit, David Warburton, Michael J. Rosen & Mark R. Frey.	Sprouty2 limits intestinal tuft and goblet cell numbers through GSK3 $\beta$ -mediated restriction of epithelial IL-33.	Nature Communications. 2021.
14	Alomari M, Balasamy R.J, <b>Almohazey D</b> , Ravinayagam V, Al Hamad M, Ababneh D, Bahmdan H, Alomari A, Mokadem Z, Elaissari A.	Nile Red-Poly(Methyl Methacrylate)/Silica Nanocomposite Particles Increase the Sensitivity of Cervical Cancer Cells to Tamoxifen.	Polymers. 2020
15	Jermy R, Ravinayagam V, Alamoudi W, <b>Almohazey D</b> , Elanthikkal S, Dafalla H, et al.	Tuning pH sensitive chitosan and cisplatin over spinel ferrite/silica nanocomposite for anticancer activity in MCF-7 cell line.	Journal of Drug Delivery Science and Technology. 2020.



16	Shehzad A, Ravinayagam V, AlRumaih H, Aljafary M, <b>Almohazey D</b> , Almofty S, Al-Rashid NA, Al-Suhaimi EA.	Application of Three-dimensional (3D) Tumor Cell Culture Systems and Mechanism of Drug Resistance.	Current Pharmaceutical Design. 2019
17	B. Rabindran Jermy, Vijaya Ravinayagam, Widyan A. Alamoudi, <b>Dana Almohazey</b> , Hatim Dafalla, Lina Hussain Allehaibi, Abdulhadi Baykal, Muhammet S. Toprak and Thirunavukkarasu Somanathan.	Targeted therapeutic effect against the breast cancer cell line MCF-7 with a CuFe <sub>2</sub> O <sub>4</sub> /silica/cisplatin nanocomposite formulation.	Journal of Nanotechnology. 2019.
18	Munther Alomari, <b>Dana Almohazey</b> , Sarah Ameen Almofty, Firdos Alam Khan, Mohammad Al hamad, and Deena Ababneh.	Role of Lipid Rafts in Hematopoietic Stem Cells Homing, Mobilization, Hibernation, and Differentiation.	Cells. 2019.
19	Firdos Alam Khan, Sultan Akhtar, <b>Dana Almohazey</b> , Munthar Alomari, and Sarah Ameen Almofty, Elaissari Abdelhamid	Targeted delivery of Poly (methyl methacrylate) particles in colon cancer cells selectively attenuates cancer cell proliferation.	Artificial Cells, Nanomedicine and Biotechnology journal. 2019.
20	Abdulazeez S, Sultana S, Almandil NB, <b>Almohazey D</b> , Bency BJ, Borgio JF.	The rs61742690 (S783N) single nucleotide polymorphism is a suitable target for disrupting BCL11A-mediated foetal-to-adult globin switching.	PLOS ONE. 2019
21	Vijaya Ravinayagam, Adeeb Shehzad, <b>Dana Almohazey</b> , Sarah Almofty, Meneerah Aljafary, Nada A. Alhamed, Najla Alhamed, Noor A. Al-Rashid, Ebtessam A .AL-Suhaimi.	Decursin induces apoptosis by regulating AMP-activated protein kinase and Bax/Bcl-2 pathway in HepG2 cell line.	European Journal of Integrative Medicine, 2018.
22	Firdos Alam Khan, Sultan Akhtar, <b>Dana Almohazey</b> , Munthar Alomari, and Sarah Ameen Almofty.	Extracts of Clove (Syzygium aromaticum) Potentiate FMSP-Nanoparticles Induced Cell Death in MCF-7 Cells.	International Journal of Biomaterials, 2018.
23	Firdos Alam Khan, <b>Dana Almohazey</b> , Munthar Alomari, and Sarah Ameen Almofty.	Isolation, Culture, and Functional Characterization of Human Embryonic Stem Cells: Current Trends and Challenges.	Stem Cell International, 2018.
24	Firdos Khan, Sultan Akhtar, <b>Dana Almohazey</b> , Munthar Alomari, Sarah Almofty, and Abdelhamid Eliassari.	Fluorescent magnetic submicronic polymer (FMSP) nanoparticles induce cell death in human colorectal carcinoma cells.	Artificial Cells, Nanomedicine, and Biotechnology, 2018.
25	Firdos Khan, Sultan Akhtar, Sarah Almofty, <b>Dana Almohazey</b> , and Munthar Alomari.	FMSP-Nanoparticles induced cell death on human breast adenocarcinoma cell line (MCF-7 cells): Morphometric Analysis.	Biomolecules, 2018.
26	Firdos Alam Khan, <b>Dana Almohazey</b> , Munthar Alomari, and Sarah Ameen Almofty.	Impact of nanoparticles on neuron biology: current research trends.	International Journal of Nanomedicine, 2018.
27	<b>Dana Almohazey</b> , Yuan-Hung Lo, Claire Vossler, Alan Simmons, Jonathan Hsieh, Edie Bucar, Michael Schumacher, Kathryn Hamilton, Ken Lau, Noah Shroyer, and Mark R Frey.	The ErbB3 receptor tyrosine kinase negatively regulates Paneth cells by PI3K-dependent suppression of Atoh1.	Cell Death and Differentiation, 2017.



28	Michael Schumacher, Matija Hedl, Clara Abraham, Jessica Bernard, Patricia Lozano, Jonathan Hsieh, <b>Dana Almohazey</b> , Shivesh Punit, Peter Dempsey, Edie Bucar, and Mark R Frey.	ErbB4 signaling stimulates pro-inflammatory macrophage apoptosis and limits colonic inflammation.	Cell Death and Disease, 2017.
29	Williams CS, Bernard JK, Demory Beckler M, <b>Almohazey D</b> , Washington MK, Smith JJ, Frey MR.	ERBB4 is over-expressed in human colon cancer and enhances cellular transformation.	Carcinogenesis, 2015.
30	Al Alam D, Danopoulos S, Schall K, Sala FG, <b>Almohazey D</b> , Fernandez GE, Georgia S, Frey MR, Ford HR, Grikscheit T, Bellusci S.	Fibroblast growth factor 10 alters the balance between goblet and Paneth cells in the adult mouse small intestine.	American Journal of Physiology-Gastrointestinal and Liver Physiology, 2015.
31	McElroy SJ, Castle SL, Bernard JK, <b>Almohazey D</b> , Hunter CJ, Bell BA, Al Alam D, Wang L, Ford HR, Frey MR.	The ErbB4 ligand neuregulin-4 protects against experimental necrotizing enterocolitis.	American Journal of Pathology, 2014.
32	Enayati, M., <b>Al Mohazey, D.</b> , Edirisinghe, M., & Stride, E.	Ultrasound-stimulated drug release from polymer micro and nanoparticles.	Bioinspired, Biomimetic and Nanobiomaterials, 2012.

#### Invited Published Refereed Book Chapters

(In Chronological Order Beginning with the Most Recent)

#	Name of Authour(s)	Chapter Title	Book Title	Publisher and Date of Publication
1	Munther Alomari, <b>Dana Almohazey</b> , Sarah Almofty, Amani Alhibshi, Iman Almansour, Chariya Kaewsaneha, Waisudin Badri, Hatem Fessi, and Abdelhamid Elaissari.	Magnetic-responsive polysaccharide-inorganic composite materials for cancer therapeutics.	Polysaccharide Carriers for Drug Delivery.	Elsevier publisher, 2019
2	<b>Almohazey, D</b> and Frey, MR.	The intestinal stem cell niche and its regulation by ErbB growth factor receptors.	Stem cells, tissue engineering, and regenerative medicine.	World Scientific Publishing, 2015.

#### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
	Dr. Dana Almohazey (PI)	The role of ErbB3 activation on ER stress and its downstream effects on signaling pathways, 2017-433-IRMC.	June, 8 <sup>th</sup> , 2021.
	Dr. Dana Almohazey (PI)	Designing and Preparation of Nanomaterial Based Biomaterials for Wound Healing Application, 2018-027-IRMC.	Sep, 06 <sup>th</sup> , 2021.



Dr. Dana Almohazey (PI)	Wide-scale chemotherapeutic drug screening using drug repurposing strategy, 2019-080-IRMC.	Dec, 12 <sup>th</sup> , 2021.
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#### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
	Fostering Future-Ready Minds: How to Prepare University Students for the Future in the AI Era	DAD, IAU- May, 2024	Attendee
	برنامج التوعية بأخلاقيات البحث العلمي	DSR, IAU- Jan, 2024	Attendee
	Values in Saudi Academic Communities Forum	DAD, IAU- Nov, 2023	Invited Speaker
	Exercising Leadership/ Foundational Principles	Harvard X (Future X- online)- Mar, 2023	Attendee
	Inclusive Leadership Training	Catalyst (Future X- online)- Feb, 2023	Attendee
	Values in Saudi Academic Communities Forum	DAD, IAU- Dec, 2022	Invited Speaker
	تمكين القائد الواعد	Center for Leadership, IAU- 2022	Attendee
	1st Meeting of the Saudi Society for Oncology Research (SSOR 2022)	Saudi Society for Oncology Research, Sheraton Hotel, Dammam- Sep, 1st, 2022	Attendee
	الهندسة الاجتماعية	Deanship of Communications and Information Technology, IAU- 2022	Attendee
	لقاء كيف نصمم مبادرات مجتمعية عالية الأثر	Deanship of Community Services and Sustainable Development- 2022	Attendee
	Commercialization of scientific startups	Dammam Valley/IRMC- 2022	Attendee
	القيادة الاستراتيجية	Center for Leadership, IAU- 2022	Attendee
	Clinical Trials of Medical Device Requirements	Saudi Food and Drug Authority (SFDA)- 2022	Attendee
	Innovation Opportunities in Biotechnology	Dammam Valley/IAU- 2022	Attendee
	Introduction to XPS	Thermo Fisher Scientific/IRMC	Attendee
	1st Century Skills and Requirement of Economic Growth and Labor Market	Deanship of Academic Development, IAU- 2021	Attendee
	طرق فعالة في التدريس عن بعد	Deanship of E-learning and Distance Learning, IAU- 2021	Attendee
	Inclusive Teaching & Learning Developmental Workshops	Deanship of Academic Development, IAU- 2021	Attendee
	Challenges and Solutions to Overcome Crises: The Role of Women's Entrepreneurship Research	Ministry of Education- 2021	Attendee
	الاتجاهات العالمية في الملكية الفكرية	Saudi Authority for Intellectual Property- 2021	Attendee



صناعة الاحتياج المجتمعي	-وزارة الموارد البشرية والتنمية الاجتماعية- 2021	Attendee
Applying Quality Matters Rubrics	Deanship of E-learning and Distance Learning, IAU- 2020	Attendee
Developing Electronic Tests Using Blackboard	Deanship of E-learning and Distance Learning, IAU- 2020	Attendee
Enhancing Learning Using eLearning Activities	Deanship of E-learning and Distance Learning, IAU- 2020	Attendee
Advance Usage of Learning Management System Blackboard	Deanship of E-learning and Distance Learning, IAU- 2020	Attendee
Blackboard استخدام نظام إدارة التعلم	Deanship of E-learning and Distance Learning, IAU- 2020	Attendee
Virtual Classroom Management Using the Blackboard Collaborate Ultra Tools	Deanship of E-learning and Distance Learning, IAU- 2020	Attendee
Virtual Classroom Management Using Zoom Application	Deanship of E-learning and Distance Learning, IAU- 2020	Attendee
مقومات تعزيز الابتكار في البيئة الأكاديمية	IAU- 2020	Attendee
قيادة التغيير	IAU- 2020	Attendee
مهارات التفكير الإبداعي	IAU- 2020	Attendee
Research Techniques and Tools Level 1	IAU/Clarivate Analytics- 2020	Attendee
الخرايط الذهنية	Kuwait University- 2020	Attendee
ورشة عمل مهارة إدارة التنمية المجتمعية والمالية	Social Development Bank	Attendee
ورشة عمل تدشين حساب الجامعة في منصة العمل التطوعي	IAU- 2020	Attendee
كيفية بناء وتصميم الفرص التطوعية	-وزارة الموارد البشرية والتنمية الاجتماعية- 2020	Attendee
Pro Bono مفهوم تطوع المحترفين	-وزارة الموارد البشرية والتنمية الاجتماعية- 2020	Attendee
Faculty Engagement in Institutional and Program Assessment	Deanship of Academic Development, IAU- 2019	Attendee
Animal Care & Use in Scientific Research	Deanship of Scientific Research, IAU- 2019	Attendee
Boosting Innovation and Entrepreneurship in University Education	Deanship of Academic Development, IAU- 2019	Attendee
مؤتمر مبادرات البحث والتطوير وأثرها في رفع جودة وكفاءة وفعالية البحث العلمي في الجامعات السعودية والمساهمة في التنمية الاقتصادية	King Khalid University- 2019	Attendee
National Conference of Health Research	King Fahad Specialist Hospital, Dammam- 2018	Attendee
Developing Core Competencies in Teaching and Learning in Higher Education	Deanship of Academic Development, IAU- 2018	Attendee
Research Ethics	American Association for the Advancement of Science (AAAS)/	Attendee





		Research and Development Office (RDO), Ministry of Education- 2018	
Author Workshop Scholarly Publishing		IAU/Elsevier- 2017	Attendee
Molecular Identification and Validation of Novel Bacterial Species		College of Public Health, IAU- 2017	Attendee
Experimental Biology		San Diego, CA, USA, April 2016.	Poster/selected for an oral Presentation.
FASEB Gastrointestinal Tract XVI		Steamboat, CO, USA, August 2015.	Poster/ selected for a FASEB travel award.
Experimental Biology		Boston, MA, USA, April 2015	Poster/ selected as a Poster of Distinction.
Experimental Biology		San Diego, CA, USA, April 2014.	Poster/selected for an oral Presentation.

#### Membership of Scientific and Professional Societies and Organizations

- Physiological Society, 2020-present.
- American Physiological Society, 2014-present.
- Saudi Society for Oncology Research (DAEM), 2022- 2023.
- American Society for Clinical Pathology, 2007-2014.

#### Contribution to Scientific Journals as a Reviewer or as a Member of the Editorial Board

#	Type of Contribution	Journal	Institution	Country	Period
1	Senior Editor	Experimental Physiology, Wiley-Blackwell. ISSN (online) 14469-445X.	The Physiological Society	UK	May, 2023-present
2	Editorial Board Member	the American Journal of Physiology-Gastrointestinal and Liver Physiology. ISSN 0193-1857 (print); 1522-1547 (online).	the American Physiological Society	USA	Jul, 2021-present
3	Reviewing Editor	Experimental Physiology, Wiley-Blackwell. ISSN (online) 14469-445X.	The Physiological Society	UK	Dec, 2020-Apr, 2023
4	Reviewer	Cell Death and Differentiation, Springer Nature. ISSN 1350-9047 (print); 1476-5403 (web)		UK	
5	Reviewer	Cell Death and Disease, Springer Nature. ISSN 2041-4889.		UK	
6	Reviewer	Experimental Physiology, The Physiological Society, Wiley-Blackwell. ISSN (online) 14469-445X.	The Physiological Society	UK	
7	Reviewer	American Journal of Physiology-Gastrointestinal and Liver Physiology. ISSN 0193-1857 (print); 1522-1547 (online).	the American Physiological Society	USA	



8	Reviewer	Saudi Pharmaceutical Journal, Elsevier. ISSN: 1319-0164.		KSA	
9	Reviewer	Nanotechnology, IOP Publishing Ltd, ISSN 0957-4484.		UK	
10	Reviewer	International Journal of Nanomedicine, Dove Press, ISSN 1178-2013.		New Zealand	
11	Reviewer	Colloids and Surfaces A: Physicochemical and Engineering Aspects, Elsevier, ISSN 0927-7757.		Netherlands	

## Teaching Activities

### Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Biochemistry & Cell Physiology- Laboratory, 2023.	MSBE 801	15 Labs
2	Biochemistry & Cell Physiology- Laboratory, 2022.	MSBE 801	6 Labs
3	Biochemistry & Cell Physiology- Laboratory, 2021.	MSBE 801	7 Labs
4	Biochemistry & Cell Physiology- Laboratory, 2020.	MSBE 801	14 Labs
5	Biochemistry & Cell Physiology- Laboratory, 2019.	MSBE 801	6 Labs

### Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	The “Biochemistry & Cell Physiology” course (MSBE 801) in the MSc Biotechnology Program at IRMC, IAU.
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### Guest/Invited Lectures for Undergraduate and Postgraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date
	Invited Speaker	Scientific Research Writing	Summer Research Program, IRMC, IAU	Jul, 2023
	Invited Speaker	Ethics in Human Research	IRMC MSc students, IAU	Nov, 2022
	Invited Speaker	Scientific Research Writing	Mawhiba Research Enrichment Program, IRMC, IAU	Jul, 2022



Invited Speaker	Scientific Research Writing	Summer Research Program, IRMC, IAU	Jul, 2022
Invited Speaker	Scientific Research	College of Dentistry, IAU Endodontics Fellowship Postgraduate program	Feb, 2022
Invited Speaker	Ethics in Human Research	IRMC MSc students, IAU	Jan, 2022
Invited Speaker	Ethics in Human Research	IRMC MSc students, IAU	,2021
Invited Speaker, Internship Program Seminars	Scientific Research Writing	College of Dentistry, IAU	Sep, 2020
Invited Speaker	Ethics in Human Research	IRMC MSc students, IAU	2020
Invited Speaker	Scientific Research Writing	Mawhiba Research Enrichment Program, IRMC, IAU	Jun, 2021
Invited Speaker	Scientific Research Writing	Summer Research Program, IRMC, IAU	Jun, 2021
Invited Speaker	Scientific Research Writing	Summer Research Program, IRMC, IAU	Jun, 2020

#### Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	Master's Program	Dr. Abdullah Albeladi- College of Dentistry. Part of the Endodontic Fellowship (4th year) research requirement. Title: "Effect of different irrigation activations on endodontic sealer penetration during non-surgical root canal retreatment: an invitro study".	2023	2024
2	Undergraduate	23 students, College of Applied Medical Sciences, Clinical Laboratory Sciences, IAU.	2023	1 day training
3	Master's Program	Dr. Abdulmajeed Kashaf- College of Dentistry. Part of the Endodontic Fellowship (4th year) research requirement. Title: "Comparative evaluation of Physico-chemical properties of commercial and experimental bioactive endodontic sealers".	2022	2023
4	Undergraduate	Summer Program- 7 students.	Jul, 2022	Aug, 2022
5	Master's Program	Dr. Sukainah Aldawood- College of Dentistry. Part of the Endodontic Fellowship (4th year) research requirement. Title: "The effect of residual calcium silicate-based sealers on the penetration of epoxy resin-based sealer during non-surgical root canal re-treatment: A confocal Laser Scanning Microscopy Study".	2020	2021
6	Undergraduate	26 students, College of Applied Medical Sciences, Clinical Laboratory Sciences, IAU.	2020	1 day training
7	Fellow in Clinical Microbiology,	Dr. Abdullatif Al Rashed	2019	1 day training



	College of Medicine			
8	Fellow in Clinical Microbiology, College of Medicine	Dr. Wala Alkhalifa	2019	1 day training
9	Undergraduate	Aroub Almubarak, volunteer, 2018.	April, 2018	September, 2018
10	Fellow in Clinical Microbiology, College of Medicine	Dr. Ali Alhaddad.	2018	1 day training
11	High School	Deemah Ghazi, Mawhebah Program. Deemah won the Mu Alpha Theta Award and 4th place at IbdAA National Olympiad competition for her project with us. She was also qualified to compete in the Intel International Science and Engineering Fair (Intel ISEF), at the United States, May, 2018.	October, 2017	May, 2018
12	Undergraduate	23 students, College of Applied Medical Sciences, Clinical Laboratory Sciences, IAU.	2017	1 day training
13	High School	Kay Katada, Marlborough School Honors Research in Science Program.	2016	2017
14	High School	Lauryn Hudson, Latino & African-American High School Internship Program.	2016	2 months
15	High School	Claire Vossler, Marlborough School Honors Research in Science Program.	2015	2016
16	High School	Jane Irons, Marlborough School Honors Research in Science Program.	2014	2015

#### Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	Master of Science in Biotechnology	Ms. Razan Aldahhan The Impact of Gold Nanoparticles on Colon Cancer: an in vivo cellular and molecular analysis.	Institute for Research and Medical Consultations (IRMC). Ms. Razan Aldahhan was the winner of the 2022 Annual Prize for the Second Track of Student Research Publishing Initiative, Health Track. Deanship of Scientific Research. The prize was granted for her manuscript titled: "Emerging trends in the application of gold nanoformulations in colon cancer diagnosis and treatment" published in <i>Seminars in Cancer Biology</i> . DOI: <a href="https://doi.org/10.1016/j.semcan.2021.11.008">https://doi.org/10.1016/j.semcan.2021.11.008</a>	2020-2021
2	Master of Science in Biotechnology	Ms. Alia Rasdan The Impact of Biologically Synthesized Nanoparticles on	Institute for Research and Medical Consultations (IRMC).	2021-2022



		Colon Cancer Cells: In Vitro Cellular and Morphological Investigation.	
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#### Ongoing Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	Master of Science in Biotechnology <b>As Supervisor</b>	Ms. Sarah Hunachagi	Institute for Research and Medical Consultations (IRMC).	2024-Ongoing

#### Examiner of Master and/or PhD Thesis

#	Degree Type	Student	Title of Thesis	Institution	Date
1	Master of Science in Biotechnology, Internal Examiner.	Ms. Eman Saleh Alhasani.	Development of New Drug Against Multidrug Resistance <i>Candida Auris</i> by Mining Genome from Marine Bacteria	Institute for Research and Medical Consultations (IRMC).	Nov, 2023

#### Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

##### Committee Membership

#	From	To	Position	Organization
1	2024	Present	Teaching Assistants Affairs Committee at the Institute of Medical Research and Consultations, Member	IRMC, IAU
2	2024	Present	Animal House Policies and Procedures Committee (AHPPC), Member	IRMC, IAU
3	2024	Present	IRMC Laboratory Assessment Task Force (LATF), Member	IRMC, IAU
4	2021	Present	Public Relations Committee, Chair	IRMC, IAU
5	2020	2021	Public Relations Committee, Member	IRMC, IAU
6	2021	Present	Biobank Committee, Member	IRMC, IAU

##### Community Service

#	Date	Type of Volunteer	Organization
1	2023- 2024	Mentor for Dr. Suad Almasoudi (Umm Al-Qura University) in the Professional Fellowship in University Teaching and Learning (PFUTL), Oct, 2023- May, 2024.	Deanship of Academic Development, IAU in collaboration with the University of Turku, Finland.
2	Oct, 31 <sup>st</sup> - 2023	Guest speaker in the "Bright Future" program.	Student Council of the College of Applied Medical Sciences.



3	2022- 2023	Mentor for Dr. Seham Sulaiman Alsaif (College of Medicine) in the Professional Fellowship in University Teaching and Learning (PFUTL), Oct, 2022- May, 2023.	Deanship of Academic Development, IAU in collaboration with the University of Turku, Finland.
4	2021-2022	Mentor for Dr. Maryam Haroon Al-Soufi (College of Science) in the Professional Fellowship in University Teaching and Learning (PFUTL), Sep, 2021- Jun, 2022.	Deanship of Academic Development, IAU in collaboration with the University of Turku, Finland.
5	2022	Representative of IRMC on "Masareb" Twitter Spaces.	Student Council, IAU
6	2022	Participated in Qoot Volunteering Campaign- Mar 2022.	Deanship of Community Services and Sustainable Development, IAU
7	2021	Poster Day competition Judge, Summer Research Program for Undergraduate Students	IRMC, IAU.
8	2021	Invited Speaker: "Boosting Student Interaction in Online Classroom".	Deanship of Academic Development, IAU
9	2018	Organizer/Mentor in the Cancer Innovation Challenge Track.	MIT Hacking Medicine- Saudi Arabia, King Abdulaziz City for Science and Technology (KACST).
10	2018	Speaker	Refq Initiative for high-achieving senior high school students.
11	2016	Bruce Award Judge for undergraduate posters.	Experimental Biology Conference, San Diego, CA.

### Last Update

Sep/01/2024