

Date 21st of November/2024

DR. SAMAA TAHA ABDULLAH



PERSONAL INFORMATION

Title: Dr. Samaa Taha Abdullah

Academic Rank: Assistant Professor

Date & Place of Birth: 17/10/1991-Riyadh, Saudi Arabia

Nationality: Jordanian

Address: Amman/Jordan

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e-mail: s.abdullah@aau.edu.jo; abdullahtsamaa@gmail.com

ACADEMIC QUALIFICATIONS

Degree	Major	Duration (From-To)	University	Country
Higher Diploma	Higher Education Teaching Certificate	2023-2024	Harvard University	USA
PhD	Biology-Genetics, Immunology and Pharmaceutical Innovation	2019-2022	King Abdulaziz University	Saudi Arabia

دائرة الموارد البشرية
Human Resources Department

MSc	Pharmaceutical Sciences (Pharmaceutics)	2014-2016	The University of Jordan	Jordan
BSc	Pharmacy	2009-2014	The University of Jordan	Jordan

TEACHING EXPERIENCE

Duration	Rank	Institution	Department/Faculty	Country
2024	Assistant professor	Amman Arab University	College of Pharmacy	Jordan
2023-2024	(Clinical Assistant Professor) Full-time Lecturer and Research Scientist	Princess Nourah bint Abdulrahman University	Health Sciences Research Center/ Faculty of Pharmacy	Saudi Arabia
2022-2023	Post-doctoral researcher	King Abdulaziz University	Center of Excellence in Drug Research and Pharmaceutical Industry, Faculty of Pharmacy	Saudi Arabia
2019-2022	Post-graduate researcher	King Abdulaziz University	Center of Excellence in Drug Research and Pharmaceutical Industry, Faculty of Pharmacy	Saudi Arabia
2014-2018	Lecturer and Research associate	The University of Jordan	School of Pharmacy	Jordan

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Human Resources Department

2013-2014	Volunteer Research Student	The University of Jordan	School of Pharmacy	Jordan
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OTHER EXPERIENCE

Duration	Rank	Institution	Department/Faculty	Country
October 2024-	University Council Member	Amman Arab University	College of Pharmacy Representative	Jordan
October 2024-	Scientific Research Committee Head	Amman Arab University	College of Pharmacy	Jordan
October -2024	Middle East Advisor	GUSCURBAN.ORG	GUSCURBAN.ORG	USA
July 2024- October 2024	Acting Department Head	Amman Arab University	College of Pharmacy	Jordan
2023-2024	(Clinical Assistant Professor) Research Scientist	Princess Nourah bint Abdulrahman University	Health Sciences Research Center/ Faculty of Pharmacy	Saudi Arabia
2022-2023	Post-doctoral researcher	King Abdulaziz University	Center of Excellence in Drug Research and Pharmaceutical Industry, Faculty of Pharmacy	Saudi Arabia
2019-2022	Post-graduate researcher	King Abdulaziz University	Center of Excellence in Drug Research and Pharmaceutical Industry, Faculty of Pharmacy	Saudi Arabia

دائرة الموارد البشرية
Human Resources Department

2014-2018	Research Associate	The University of Jordan	School of Pharmacy	Jordan
2013-2014	Volunteer Research Student	The University of Jordan	School of Pharmacy	Jordan

PATENTS

1. “Antidepressant-protein complex encapsulated in bio-adhesive polymeric nano micelles for dissolution and penetration enhancement after oral administration” (07/2023)

Saudi Authority for Intellectual Property (SAIP)-Application Number 123450093

Assignee: Princess Nourah bint Abdulrahman University

Inventors: Samaa Abdullah, Shadab MD, Nabil Alhakamy, Hadil Alahdal, Abeer A. Altamimi

2. Process Claims of “In-situ gelling long-acting resveratrol nanocomposite film as pH-selective and mucoadhesive intestinal-colonic drug delivery system” (05/2022)

United States Patent and Trademark Office (USPTO)- US 11,318,090 B1

Assignee: King Abdulaziz University

Inventors: Shadab MD, Samaa Abdullah, Nabil Alhakamy

3. Product Claims of “Oral Administration of 5-FU in a gelling nanosuspension for targeted delivery to treat colon cancer” (04/2022)

United States Patent and Trademark Office (USPTO)-US 11,285,104 B1

Assignee: King Abdulaziz University

Inventors: Alia Aldahlawi, Sahar El-Hadad, Samaa Abdullah

4. Product Claims of “In situ gelling composition as a pH-selective and mucoadhesive sustained release drug delivery system” (03/2022)

United States Patent and Trademark Office (USPTO)-US 11,260,025 B1

Assignee: King Abdulaziz University

Inventors: Shadab MD, Samaa Abdullah, Nabil Alhakamy

5. Process Claims of “Oral Administration of 5-FU in a gelling nanosuspension for targeted delivery to treat colon cancer” (07/2021)

United States Patent and Trademark Office (USPTO)-US 11,058,635 B1

Assignee: King Abdulaziz University

Inventors: Alia Aldahlawi, Sahar El-Hadad, Samaa Abdullah

6. “Novel Gastro-retentive Nanogel” (09/2024)

Assignee: Amman Arab University

Inventors: Samaa Abdullah

PUBLICATIONS (GOOGLE SCHOLAR NAME “SAMAA ABDULLAH”)

JRNALS

<https://scholar.google.com/citations?user=LjutnjAAAAJ&hl=en>

<https://orcid.org/0000-0001-5245-6489>

CONFERENCES (GOOGLE SCHOLAR NAME “SAMAA ABDULLAH”)

<https://scholar.google.com/citations?user=LjutnjAAAAJ&hl=en>

<https://orcid.org/0000-0001-5245-6489>

BOOKS

(GOOGLE SCHOLAR NAME “SAMAA ABDULLAH”)

<https://scholar.google.com/citations?user=LjutnjAAAAJ&hl=en>

<https://orcid.org/0000-0001-5245-6489>

MEMBERSHIPS OF SCIENTIFIC AND PROFESSIONAL SOCIETIES

- Clinical Assistant Professor at Health Sciences Research Center, Princess Nourah bint Abdulrahman University
- Research Bioethics Certificate, National Committee of Bioethics (NCBE), King Abdulaziz City for Science and Technology (KACST), Saudi Arabia (05/2023)
- Saudi Association of Pharmaceutical Industry
- Jordanian Pharmaceutical Association.

UNIVERSITY COMMITTEES

- Academic Technology Transfer to the Industry Committee vice head, Amman Arab University, Amman, Jordan (2024-now).
- Creativity, Innovation & Entrepreneurship Center Council member, Amman Arab University, Amman, Jordan (2024-now).
- Scientific Research Committee Head, College of Pharmacy, Amman Arab University, Amman, Jordan (2024-now).
- Graduate Studies Committee member, College of Pharmacy, Amman Arab University, Amman, Jordan (2024-now).
- Head of committee for developing and measuring the effectiveness of academic programs, College of Pharmacy, Amman Arab University, Amman, Jordan (2024-now).
- Quality Assurance and Qualifications Assurance Committee member, College of Pharmacy, Amman Arab University, Amman, Jordan (2024-now).
- College Council Chancellor, College of Pharmacy, Amman Arab University, Amman, Jordan (2024).
- Qualifications Design Committee head, College of Pharmacy, Amman Arab University, Amman, Jordan (2024).
- Strategic Planning Committee member, College of Pharmacy, Amman Arab University, Amman, Jordan (2024).
- Accreditation Council for Pharmacy Education (ACPE), College of Pharmacy, Amman Arab University, Amman, Jordan (2024).

TAUGHT COURSES

- Immunotherapy
- Advanced Pharmaceutical Biotechnology (master)
- Good Pharmacovigilance Operations (master),
- Immunology and Tumor Immunology,
- Gene Therapy,
- Genetics and Genetic Engineering,
- Research and Innovation in Health,
- Pharmaceutical Industry,
- Physical Pharmacy,
- Drug Delivery Systems,
- Pharmacokinetics and Biopharmaceutics,
- Pharmaceutical Biotechnology,

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Human Resources Department

- Pharmaceutical Microbiology,
- Molecular Biology,
- Biochemistry

WORKSHOPS ATTENDED

- Higher Education Innovation and Growth (HEIG)-Sustainable Agri-Food Security Cluster Launch, iPark Academy, The University of Jordan, Amman, Jordan (06/2024).
- Amman Arab University Hakathoon, Creativity, Innovation & Entrepreneurship Center, Amman Arab University (06/2024).
- Higher Education Innovation and Growth (HEIG) Program workshop, Ministry of Higher Education and Scientific Research, Amman, Jordan (03/2024).
- Meta-Course and MS-teams, Academic Development and Quality Assurance Center, Amman Arab University, Amman, Jordan (03/2024).
- Approaches to use the pre-recorded E-learning lectures, Academic Development and Quality Assurance Center, Amman Arab University, Amman, Jordan (03/2024).
- Requirements of producing the synchronized courses, Academic Development and Quality Assurance Center, Amman Arab University, Amman, Jordan (03/2024).
- Taylor and Francis Publishing Services, Academic Development and Quality Assurance Center, Amman Arab University, Amman, Jordan (03/2024).
- Intellectual Property and Patent Registration, Academic Development and Quality Assurance Center, Amman Arab University, Amman, Jordan (03/2024).
- Higher Education Innovation and Growth (HEIG) Program, Ministry of Higher Education and Scientific Research, Amman, Jordan (03/2024).
- Several workshops about Cancer Chemotherapy and Personalized Medicine at King Faisal Hospital and Research Center, Riyadh, Saudi Arabia (2022-2024).
- Boot-Camp Data Analysis Workshop, King Saud University, Riyadh, Saudi Arabia (2022).
- Learning Methodology, Tools and Technology for Academic Practice, The University of Jordan, Jordan (2022).
- Molecular Biology and Epigenetics, King Abdullah University for Science and Technology, Thuwal, Saudi Arabia (2020).
- Certificate of PCR and Biotechnology Tools Practice, King Fahad Medical Research Center, Jeddah, Saudi Arabia (03/2019)
- Data-analysis, Udacity, USA (2018).

WORKSHOPS OFFERED

- Pharmacovigilance and Regulatory Affairs, College of Pharmacy, Amman Arab University, 24/08/2024
- Patents and Intellectual Property for academic members, Creativity, Innovation & Entrepreneurship Center, Amman Arab University, 28/4/2024
- Innovative Ideas and Intellectual Property for students, Creativity, Innovation & Entrepreneurship Center, Amman Arab University, 17/4/2024
- The Path for Getting the Saudi Association For Health Specialists-Pharmacy, Amman Arab University, 30/4/2024
- Genetic Engineering workshop, Amman Arab University, 15/4/2024
- Speaker at the 4th Nursing Research Day on 31/May/2023 under the title of “The Path of Innovation in the Health System and Its Conversion to an Application” at the Health Sciences Research Center, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia.
- Lecturer of the pharmaceutical industry, microbiology, and biochemistry courses.
- Speaker of different lectures and workshops about Genetic engineering, Molecular biology, Immunology, Cancer Immunology, Biochemistry, and Pharmaceutical Technology since 21/March/2023 at Health Sciences Research Center, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia.
- Speaker of “Novel sustained-release oral nanosuspensions for colon cancer treatment” lecture on October/2021 at King Fahad Medical Research Centre (KFMRC), King Abdulaziz University, Jeddah, Saudi Arabia.
- Speaker of “Novel sustained-release oral targeted formulation for colon cancer treatment” lecture on October/2021 at 9th CANCER RESEARCH AND THERAPY, Innovinc International, Osaka, Japan.
- Speaker of “Novel ambroxol sustained-release oral suspensions based on drug-polymeric complexation and polymeric raft formation as a potential COVID-19 treatment alternative” lecture in October/2020, Secured the FIRST POSITION in the oral presentation at the international webinar of “Recent Advancement in Miniaturized Drug Delivery System” at International Medical University, Kuala Lumpur, Malaysia.

RESEARCH INTERESTS

- Pharmaceutical Innovation
- Novel Drug Delivery
- Pharmaceutical Industry Solutions
- Targeted Therapy
- Nanomedicine
- Oral drug delivery systems
- Inhalable drug delivery systems
- Topical drug delivery systems

LANGUAGES

- English – Certified 2nd language (IELTS and TOEFL).
- Arabic.

AWARDS RECEIVED

- 1st Place Innovation Team, Center for Green Chemistry & Green Engineering at Yale, iPark and Royal Scientific Society Hakathon.
- Emerging Talent Award, Falling Wall Foundation, Berlin, Germany, 07/11/2024.
- Falling Wall, Middle East, Finalist to Berlin Falling Wall, 26/09/2024.
- USA Global Solutions/IREX Facilitator, USAID, 08/2024-12/2024
- Young Researcher in Pharmaceuticals, Award Winner in Pharmacy Discipline, the 7th Venus International Healthcare Awards (VIHA 2024).
- Reviewer at (for further details check <https://orcid.org/0000-0001-5245-6489>)
 - Journal of Biological Macromolecules, Elsevier (Q1),
 - International Journal of Nanomedicine, Dovepress (Q1),
 - Journal of Drug Delivery Science and Technology, Elsevier (Q1),
 - Asian Journal of Pharmaceutical Sciences, Elsevier (Q1),
 - European Journal of Pharmaceutics and Biopharmaceutics, Elsevier (Q1),
 - International Journal of Pharmaceutics, Elsevier (Q1),
 - Food Hydrocolloids, Elsevier (Q1),
 - The ACS Nanocomposites Journal (Q1),
 - Gels, MDPI (Q1)
 - Heliyon, Cell Press (Q1),
 - Open Chemistry (Q2),
 - Cellulose, Springer (Q2),
 - Journal of King Saud University, Elsevier (Q2),
 - Journal of Polymers, Wiley (Q2).
 - Spandidos publications (Q2),
 - Journal of Surgical Oncology (Q2),
 - Polymers and polymer composites, Sage publications (Q3),
 - Jordan Journal of Pharmaceutical Sciences (Q3).
- Top of honor student, PhD (2022).
- King Abdulaziz Knowledge and Economy Transfer Center award for PhD. research and patent registration (2021).
- First place presentation in “Recent Advancement in Miniaturized Drug Delivery System” at International Medical University, Kuala Lumpur, Malaysia (2020).
- 2nd place winner in the "Falling Walls", Jeddah (2017).

GRADUATE STUDENTS' SUPERVISION

- (2014 to 2016): Supervising two trainees, at the University of Jordan.
- (2021 to 2023): Supervised two master students, at the Faculty of Pharmacy, King Abdulaziz University.
- (2023 to 2024): Supervising two students, at the Faculty of Pharmacy, Princess Nourah bint Abdulrahman University.
- (3/2023 to 9/2023): Supervising one trainee, King Abdulaziz City for Science and Technology (KACST).
- (10/2023 to 6/2024): Supervising nine students, College of Pharmacy, Amman Arab University.
- (2/2024 to 6/2024): Supervising three students, Creativity, Innovation & Entrepreneurship Center, Amman Arab University.
- (6/2024 to now): Supervising four master students, College of Pharmacy, Amman Arab University.
- (6/2024 to now): Supervised two master students, at the department of chemistry, Faculty of Sciences, King Abdulaziz University.
- (07/2024 to now): Supervising three students, College of Pharmacy, Amman Arab University.
- (07/2024 to now): Supervising eight students for Global Solutions Sustainability Challenge-IREX, College of Pharmacy, Amman Arab University.
- (10/2024 to now): Supervising two students, at the King Abdulaziz University, Saudi Arabia.

FELLOWSHIPS AND SCHOLARSHIPS

- Ministry of Higher Education postgraduate grant for the master's degree research funding, Amman, Jordan.
- Ministry of Higher Education PhD excellence scholarship, Jeddah, Saudi Arabia.
- The Deanship of Scientific Research (DSR) at King Abdulaziz University, Jeddah, under grant no. (RG-12-166-42).
- The Deanship of Scientific Research (DSR) at King Abdulaziz University, Jeddah, Saudi Arabia, under grant No. (RG-6-166-42).
- The Deanship of Scientific Research (DSR) at King Abdulaziz University, Jeddah, Saudi Arabia, under grant no. (KEP-24-166-42).
- The Deanship of Scientific Research (DSR) at King Abdulaziz University, Jeddah, Saudi Arabia, under grant no. (RG-21-166-43).

- The Deanship of Scientific Research (DSR) at King Abdulaziz University, Jeddah, under grant No. (RG-12-166-38).
- The Deputyship for Research & Innovation, Ministry of Education in Saudi Arabia for funding this research work through the project number IFPRC-151-166-2020 and King Abdulaziz University, DSR, Jeddah, Saudi Arabia.
- Postdoctoral fellowship in the Faculty of Pharmacy, King Abdulaziz University, Saudi Arabia.
- A research work was funded by Institutional Fund Projects under grant no. (IFPIP-804-140-1443).

REFERENCES

- Professor Enam Khalil (ekayoub@ju.edu.jo), Department of Pharmaceutics, School of Pharmacy, The University of Jordan, Amman, Jordan.
- Professor Dina Alsabawi (d.sabawi@ju.edu.jo), Department of Pharmaceutics, School of Pharmacy, The University of Jordan, Amman, Jordan.
- Professor Alia Aldahlawi (aaldahlawi@kau.edu.sa), Biological Sciences Department, Faculty of Sciences, King Abdulaziz University, Jeddah, Saudi Arabia.
- Dr. Nabil Alhakamy (nalhakamy@kau.edu.sa), Department of Pharmaceutics, Faculty of Pharmacy, King Abdulaziz University, Jeddah, Saudi Arabia.
- Dr. Shadab MD (shaque@kau.edu.sa), Department of Pharmaceutics, Faculty of Pharmacy, King Abdulaziz University, Jeddah, Saudi Arabia.
- Dr. Najla Al-Twaijry (naaltwaijry@pnu.edu.sa), Faculty of Pharmacy, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia.
- Dr. Alaa AL-Masud (aaalmasud@pnu.edu.sa), Natural and Health Sciences Research Center, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia.

