

DR. RIMAH ABDULLAH A SALEEM

Contact number: +966569731777
E-mail: rimahabdullah.s@yahoo.com
Nationality: Saudi

Summary

A highly enthusiastic Biochemist with a Ph. D in Cell Biology from King's College London with more than 5+ years of extensive technical, analytical and interpretive skills with practical laboratory experience. Experienced in research projects, critical data analysis and defending conclusions alongside to time management. An excellent leader, mentoring students, excels at working collaboratively with colleagues and confident presenting at scientific events.

Education

King's College London, London, United Kingdom <i>PhD in Cell Biology</i>	2012-2018
Brunel University, London, United Kingdom <i>Master of science in Molecular Medicine and Cancer Research</i>	2011-2012
Kaplan Aspect, London United Kingdom <i>Pre-Master Diploma</i>	2008-2009
King Saud University, Riyadh, Saudi Arabia <i>BSc in Biochemistry</i>	2003-2008

Work Experience

Assistant Professor, Alfaisal University	2024 – Present
<ul style="list-style-type: none">• Chairman of the upcoming Human Cancer Genome Conference at Alfaisal University.• Scientific Research Committee member• A committee member of the animal facility• Participates as exam coordinator• Deliver a lecture to medical students.• Deliver lectures to MSc students.• Deliver lectures to Pharmacy students.• Prepare and perform laboratory techniques.• Invigilate student final exams.• Facilitate PBL sessions.• Facilitate TBL sessions.• Assess exams and essays.• Participate as a judge in poster presentations.• Teach experimental procedures and monitor student progress during laboratory sessions.• Supervise MSc students.	

- Involved in research projects, including creating studies, conducting experiments, analyzing data, and writing manuscripts.

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Assistant Professor, Alfaisal University

2021-2024

- Deliver a lecture to medical students.
- Deliver lectures to MSc students.
- Deliver lectures to Pharmacy students.
- Prepare and perform laboratory techniques.
- Invigilate student final exams.
- Facilitate PBL sessions.
- Facilitate TBL sessions.
- Assess exams and essays.
- Participate as a judge in poster presentations.
- Organized and participated in the ASPIRE summer program 2021.
- Taught experimental procedures and monitored student progress during laboratory sessions.
- Supervise MSc students.
- Involved in research projects, including creating studies, conducting experiments, analyzing data, and writing manuscripts.
- Served as a chairman of the Human Cancer Genome Conference (17th and 18th of May 2024).

Scientific Researcher, King's College London

2012-2018

- Managed a 4-year research project to investigate the role of mTOR in isolated and cultured salivary progenitor cells for salivary gland regeneration.
- Performed *in vitro* and *in vivo* experiments in a mice model.
- Collaborated with other researchers on different aspects of the project.
- Presented findings at international conferences.
- Presented weekly discussions and lab meetings.
- Wrote thesis and conference abstracts.
- Supervised and trained BSc and MSc students to conduct, process, and analyse various experimental procedures.

Research Assistant, King's College London

2017

- Managed a project to study protein variations and proteolytic activity in dog saliva.
- Selected and applied appropriate methodologies for exploration.

Research Assistant, King's College London

2016

- Investigated the effects of *in vivo* injections of Bitox into murine salivary glands.
- Performed histological and biochemical experiments to investigate the effects of Bitox.
- Gathered all data for analysis.

Scientific Researcher, Brunel University, London

2011-2012

- Managed and comprehended a 1-year theoretical and practical experience in cellular, molecular biology, and genetics, together with techniques for investigating human cancer.
- Developed methodologies for studying the chromosomal aberrations in human leukaemia.
- Interpreted and analysed acquired data.

Volunteer Work

Research Assistant, King's College London, London, United Kingdom 2018

- Managed a project to examine the effect of different molecules on saliva ferning patterns.

Lab Technician, Al Mishari Hospital, Riyadh, Saudi Arabia 2006

- Processed patients' blood samples for biochemical assessments.
- Read and exported data.
- Presented a talk to lab staff on diabetes.

Publications

1. **Saleem, R.** and G. Carpenter, *The Role of mTOR and Injury in Developing Salispheres*. Biomedicines, 2023.

2. Zarroug, S., Bajaman., J, Hamza F., **Saleem, R.**, Abdalla, H. *Caenorhabditis elegans as an In Vivo Model for the Discovery and Development of Natural Plant-Based Antimicrobial Compounds*. Pharmaceuticals, 2023.

3. Alhusseini, N., Ramadan, M., Aljarayhi, S., Arnous, W., Abdelaal, M., Dababo, H., Dalati, B., Al Doumani, O., AlNasser, S., **Saleem, R.**, *Added sugar intake among the Saudi population*. PLOS ONE, 2023. **18**(9): p. e0291136.

4. Almaghamsi, T., Attiyah, W., Bahasan, M., Alotaibi, B., Alahmadi, S., Hanbazazh, M., Zakarayiah, A., **Saleem, R.**, Alnezi, M., hawsawi, Y. *Identification of Cystic Fibrosis Transmembrane Conductance Regulator Gene (CFTR) Variants: A Retrospective Study on the Western and Southern Regions of Saudi Arabia*, 2023.

5. **Saleem, R.**, et al., *Micronutrient Status Assessment in Saudi Patients Prior to Laparoscopic Sleeve Gastrectomy: A Retrospective Study*. Nutrición Clínica y Dietética Hospitalaria, 2023.**43**(4).

6. Alhusseini, N., Alsinan, N., Almutahhar, S., Khader, M., Tamimi, R., Elsarrag, M., Ibrahim Warar, R., Alnasser, S., Ramadan, M., Omair, A., Aouabdi, S., **Saleem, R.**,

Alabadi-Bierman, A., *Dietary trends and obesity in Saudi Arabia*. *Frontiers in Public Health*, 2023. **11**.

7. Mahrous, N.N., Albaqami, A., Saleem, R., Khoja, B., Khan, M., Hawsawi, Y., The known and unknown about attention deficit hyperactivity disorder (ADHD) genetics: a special emphasis on Arab population. *Front Genet*, 2024. 15: p. 1405453.

<https://doi.org/10.3389/fgene.2024.1405453>

8. Thamarai, P., Karishma, S., Kamalesh, R, Shaji, A, Saravanan, A., Bibi, S., Vickram, A, Hitesh, C, Saleem, R., Alsharif, K., Theyab, A., Kamel, M., Alamoudi, M, Kumar, A., Chopra, S., Abdel-Daim, M., Current advancements in nanotechnology for stem cells. *Int J Surg*, 2024. DOI: 10.1097/JS0.0000000000002082

9. Sukkarieh, H.H., Husein, T., Bustami, R., Saleem, R., Alvi, S., Alodaib, A., Role of age and sex in the incidence of adverse effects among diabetic patients treated with glipizide. *Exp Ther Med*, 2024. 28(4): p. 391. DOI: 10.3892/etm.2024.12680.

10. Saleem, R.A., et al., Laboratory features and pharmacological management of early and late-onset primary Sjögren's syndrome. *Rheumatol Int*, 2024. 44(7): p. 1317-1325. DOI: 10.1007/s00296-024-05626-0.

11. Farahat, E. K., Zakariyah, A. F., Saleem, R. A., Hemeda, H. M., Nabil, M. M. (2024). Insights Into the Role of miR-877 and Histidine-Rich Glycoprotein in Preeclampsia. *Archives of Medical Science*. DOI: <https://doi.org/10.5114/aoms/190633>.

12. Sardar, H., Hadi, F., Alam, W., Halawani, I., Alzahrani, F., Saleem, R., Cerqua, I., Khan, H., Capasso, R., Unveiling the therapeutic and nutritious potential of *Vigna unguiculata* in line with its phytochemistry. *Heliyon*, 2024. 10(18): p. e37911. DOI: <https://doi.org/10.1016/j.heliyon.2024.e37911>.

13. Zhra M, Qasem RJ, Aldossari F, Saleem R, Aljada A. A Comprehensive Exploration of Caspase Detection Methods: From Classical Approaches to Cutting-Edge Innovations. *Int J Mol Sci*. 2024;25(10); <https://doi.org/10.3390/ijms25105460>

14. Alshaalan KS, Albawardi TK, Zhra M, Bin Sulaiman N, Jnied OY, Saleem RA, et al. Differential Expression of LMNA/C and Insulin Receptor Transcript Variants in Peripheral Blood Mononuclear Cells of Leukemia Patients. *J Clin Med*. 2024;13(9); <https://doi.org/10.3390/jcm13092568>

An author of a book on self-improvement under the title التغيير يبدأ من هنا – available online on the publisher's website (Adab-book) and in the Jarir book store.

An author of an article on the importance of the salivary gland for health – published in Alfaisal Magazine.

Grants

- **Funding agency:** Research Development and Innovation Authority, 4,000,000 SAR
Title: Establishment of Single Cell Genetic Sequencing Facility
Dates: February – Present
- **Funding agency:** King Salman Center for Disability Research, 150.000 SAR
Title: Identification of genetic variants among children with ADHD in Saudi Arabia
Dates: June 2023- present
- **Funding agency:** Alfaisal University, 50.000 SAR
Title: The role of metformin in salivary gland atrophy (ligation model)
Dates: May 2023- present
- **Funding agency:** Alfaisal University, 20.000 SAR
Title: Changes in Saliva and Blood Parameters in Obese and Laparoscopic Sleeve Gastrectomy Patients
Dates: September 2023- present
- **Funding Agency:** Alfaisal University, 50.000 SAR
Title: Salivary Biomarkers Associated with Academic Assessment Stress Among First Year Medical Students
Date: October 2024 - present

Project submission (pending)

Funding Agency: Research Development and Innovation (RDIA)

Title: Exploring mTOR Signalling in Salivary Gland Regeneration: Implications for Atrophy

Funding Agency: Hevolution

Title: Unlocking the Fountain of Youth: Exploring the Role of mTOR Inhibition in halting salivary gland from Aging

Funding Agency: King Salman Center for Disability Research

Title: The Characteristics of saliva of children with ADHD

Projects

- **Ongoing projects:**
 - Changes in Saliva and Blood Parameters in Obese and Laparoscopic Sleeve Gastrectomy Patients.
 - The role of metformin in delaying salivary gland atrophy
 - Assessment of oral health-related quality of life among Saudi citizens

- **Submitted manuscripts to journals:**
 - Identification of Novel Missense Variant Underlying Breast Cancer Susceptibility in Saudi Females.
 - Physical Activity in Saudi Arabia: A Public Health Perspective.

Core Competencies

- Plan, conduct, process and analyse experiments.
- Reagents preparation.
- Experienced in dealing with saliva, cells, and tissue samples.
- Animal experimental procedures.
- Cell culture.
- Biochemical techniques.
- Histological techniques.
- DNA extraction and PCR.
- Critical data interpretation.

Skills

Computer skills

Microsoft Office and Graph Prism.

Soft skills

Confident speaker at conferences, teaching, and supervising students, teamwork skills and leadership capabilities

Languages

Arabic Native

English Advanced

