

Rana Ahmad Suleiman Almuhr



Education

University of Birmingham, UK

2010-2015. PhD in Molecular Biology and cytogenetics

Dissertation: Integrating chromatin structure and global chromosome dynamics

Jordan University of Science and Technology, Jordan

1997-2000. Masters of Applied Biological Sciences. Score: 86.7%

1993-1997. Bachelor of Applied Biological Science. Score 83.6%

Professional Experience

Al AlBayt University, Jordan

2017- present Full time lecturer, assistant professor

Al Balqaa applied University, Jordan

2016 – 2017 Full time lecturer, assistant professor

University of Birmingham, UK

2010-2013 PhD researcher, School of Biological Sciences.

2011–2013 Demonstration. School of Biological Sciences.

Ministry of Education, Jordan

2001–2010 Teaching. Biological studies.

Jordan University of Science and Technology, Jordan

2000-2001 Part time lecturer. School of Biology. Faculty of Science

1997-2000. Teacher Assistant, School of Biology. Faculty of Science.

Academic Awards

5-6/4/2017, Certificate for participation in the Jordanian Life Sciences for Sustainable development, Al al Bayt University, Jordan

2014, Certificate for best paper and talk (presentation), Plant genome stability and change conference (PGSC), Asilomer conference, Pacific Grove, California, USA.

2010-2014, Islamic development Bank merit scholarship (IDB)

1997-2000, Jordan University of Science and Technology scholarship

2000, Medal for Academic Excellence, Jordan University of Science and Technology

1996/1997, Certificate of Academic Excellence, Jordan University of Science and Technology

1994/1995, Certificate of Academic Excellence, Jordan University of Science and Technology

1993/1994, Certificate of Academic Excellence, Jordan University of Science and Technology

Teaching Experience:

Course	Date	Institute	Position
Genetics	9/2018 present	- Al al Bayt University	Full time lecturer, assistant professor
Bioinformatics	9/2018 present	- Al al Bayt University	Full time lecturer, assistant professor
Histology theory and practical	1/2017 present	- Al al Bayt University	Full time lecturer, assistant professor
Cell Biology	1/2017 present	- Al al Bayt University	Full time lecturer, assistant professor
General Biology	1/2017 present	- Al al Bayt University	Full time lecturer, assistant professor
Histology	1/2016 present	- Al Balqaa Applied University	Full time lecturer, assistant professor
Human Anatomy	1/2016 present	- Al Balqaa Applied University	Full time lecturer, assistant professor
Embryology	1/2016 present	- Al Balqaa Applied University	Full time lecturer, assistant professor
Seminar	1/2016 present	- Al Balqaa Applied University	Full time lecturer, assistant professor
General Biology	1/2016 9/2016	- Al Balqaa Applied University	Full time lecturer, assistant professor
Cytogenetics (B154)	2010-2013	University of Birmingham	PhD researcher
Presentation skills	2010 - 2013	University of Birmingham	PhD researcher
Essay assesment	2010 - 2013	University of Birmingham	PhD researcher
Secondary School Curriculum in Biology	2001 - 2010	Ministry of Education	Teacher
Biology	2000 - 2001	Jordan University of Science and Technology	Part time lecturer
Embryology (B411)	1997 - 1999	Jordan University of Science and Technology	Teacher assistant
Molecular Biology (B451)	1997 - 1999	Jordan University of Science and Technology	Teacher assistant

General Biology modules (B105, B106 & B107)	1997 - 1999	Jordan University of Science and Technology	Teacher assistant
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Voluntary Work:

2012. Assessment of undergraduates Essays. University of Birmingham, UK.

2012. Assessment and marking of undergraduate presentations, University of Birmingham.

2010 - Present. Representative of the Society of Experimental Biology at University of Birmingham, UK.

Professional membership:

2010- Present, Society of Experimental Biology membership.

2010- Present, Islamic Development Bank Society.

2003-present, Teacher`s Club, Jordan.

Funded Awards.

Effect of Various *Ruta graveolens* L. (Faijin) Extracts on Fertility , Reproduction And Sexual Maturation of Male and Female Rats (Master thesis) 1999, Jordan University of Science and Technology (JUST) (3000 JD) and (2000 JD) from the National Center for Agricultural research (Jordan).

Integrating Chromatin Styruature and Global Chromosome Dynamics (PhD thesis) 2010, University of Birmingham, UK (6000 Pounds) from the Islamic Development Bank (IDB), Saudi Arabia.

Frontiers` of Chromatin. (Chromatin Student Led Symposium) 2011, University of Birmingham (500 Pounds) from the School of Biological Sciences, University of Birmingham, UK

Workshops and Training

Al al Bayt University

- Women rights in low, 2017
- Communication skills and networking, 2017

University of Birmingham

- Biological and Chemical Safety Course, 2010
- Managing Projects: A Practical Approach, 2010
- Team Skill Development Course, 2010
- Biostatistics, 2010
- Scientific writing, 2010
- Presentation Skills, 2010
- TNA workshop, 2010
- Poster Presentation and Planning the Content, 2010
- Reference Manager: An introduction (RFM001)
- Endnote: An Introduction (END001), 2011
- Introduction to Turning Point (TP01), 2011
- Poster Design Using PowerPoint 2007 (PD0701), 2011
- DNA sequencing, 2011
- Teaching Development for Postgraduate Students, 2011
- PGT102 Introduction to learning & Teaching, 2011
- Teaching Development for Postgraduates (PGT012A)
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Ministry of Education

- ICDL International Computer Driving Licence (120 hours), 2005
- Intel (160 hours), 2009
- Teacher Qualified Certificate for Secondary level teaching, 2009

Conference participation and Certificates

27-29/4/2017, International conference of chemistry and biosciences, Al al Bayt University, Mafrq

5-6/4/2017, Jordanian Life Sciences, for Sustainable development, Al al Bayt University, Jordan

17-20/7/2014. PGSC conference. Asilomer. Pacific Grove, California, USA (Talk)

22/5/2014. The 1st Scientific Symposium of the Islamic Development Bank Scholars Association-UK (IDBSSS 2014). University of Cambridge, UK. (Poster)

14-19/9/2013. EMBO Conference. Meiosis. Dresden, Germany. (Abstract)

17/6/2013. 2rd Annual Meeting of the IDB UK Scholars Association, Birmingham, UK.

10/6/2013. Cell Division symposium, Birmingham. (Poster)

15-16/4/2013. Biosciences Graduate Research Symposium, Birmingham, UK. (Talk)

27-28/3/2013. 5th British Meiosis Meeting, Cambridge, Gonville & Caius College, Cambridge, UK. (Poster)

18-19/4/2012. UK Plant Sci Conference, Norwich, UK. (Poster)

16-17/4/2012. Biosciences Graduate Research School Symposium, Birmingham. Poster)

2012, 1st Annual Meeting of the IDB UK Scholars Association, Nottingham, UK.
28/3/2012, 4th Annual British Meiosis Meeting, University of Birmingham, UK. (Talk)
28/3/2012, 4th British Meiosis Meeting, University of Birmingham, UK. (Poster)
19/6/2012, Graduate School Research Poster Conference, Birmingham, UK. (Poster)
15/6/2011, Graduate School Research Poster conference, Birmingham, UK. (Poster)
10-11/4/2011, Attending the IDB-Oxford University Agreement Signature, Oxford, UK.
23/5/2000, First Conference and Third Scientific day of Science and Arts, Jordan University of Science and Technology. Irbid, Jordan. (Poster)

Publications

Almuhur, R. (2019) Awareness of medicinal plants usage on Routinley life style on the northern region of Jordan. PJN. Accepted for publication.

Amuhur, R.A.S. (2015) Integrating Chromatin Structure and Global Chromosome dynamics. Ethesis.bham.ac.uk

Al-Mahmoud, M., Elbetieha, and Al-Muhur, R.(2003). Anticoceptive and antifertility activities of various *Ruta graveolens* extracts in female rats. ACTA Pharmaceutica Turcica 45, 203-213.

Projects

PhD project 1: Characterization of Histone H1 Genes

2010 – 2013

- Characterized a novel protein, H1, required for normal meiosis. Efficiently analysed mutant plants devoid of H1s using molecular biology techniques (such as DNA/RNA extraction, PCR, gene cloning).

PhD project 2: Characterization of Histone H4

2011-2013

Contributed as a team member in a separate project involved in studying meiosis. The work involved characterizing another nuclear protein, Histone H4, using various molecular biology techniques and cytological analysis.

PhD project 3: new insights of Histone H4 chaperon's sensitivity to DSB repair

2011-2012

- Contributed essential new findings towards a third project studying the core protein H4 chaperons. This project involved analyzing protein expression levels from various H4 chaperons transgenic lines.

Research Experience:

PhD-researcher, 2010-2014

Carried out research to investigate the role of histones in chromatin dynamics within meiosis context using various molecular biology, biotechnological, biochemical and cytological techniques.

Master –researcher, 1997-2000

Carried out research on medicinal Jordanian plants to analyze their role as pregnancy inhibitors. During the study a wide range of chemical extraction solutions were used for extracts preparations. Cytological and medicinal techniques were used during the study.

Languages

English Full professional proficiency

Arabic Full professional proficiency

Extracurricular Activity

27-29/4/2017, Conference secretary, International conference of chemistry and biosciences, Al al Bayt University, Mafrq

5-6/4/2017, Co Conference secretary, Jordanian Life Sciences, for Sustainable development, Al al Bayt University, Jordan

2013. Supervising 3rd year student research, School of Biosciences.

29/6/2011. Co-organizer of postgraduate student-led Chromatin Research Symposium, University of Birmingham, UK.

Interests

Cancer Research,

MicroRNA Biomarkers,

NextGene Sequencing,

Skills & Expertise

University of Birmingham, 2010-2014

Molecular Biology & Biotechnology:

DNA and RNA Extraction, DNA and RNA isolation and purification, PCR, RT-PCR, DNA sequencing, Primer designing, cDNA synthesis, Restriction Enzyme digestion, Agarose gel electrophoresis, DNA sequencing, Genotyping, Allelism test and complementation test.

Cytology:

Alexander staining, Infuorescent in situ hybridization (FISH), Chiasmata/cross-over frequency quantification, Immunolocalization technique, BrdU Pulse Labelling assessment, Dapi staining preparations of meiotic and mitotic cells.

Phenotypic Analysis:

Plant growing and maintenance, Assessing phenotypic changes, harvesting and storing plant seeds.

In silico analysis:

Sequence similarity, Protein similarity, T-DNA and RNAi mutant analysis.

Computer skills:

Nikon E600 software (2010), Using imaging softwares (2010).

Others:

Motivated, Fundraising, Team Work, Risk and COSHH assessment, Demonstration of Biological modules, Oral and poster presentation of scientific content. Scientific literature.

ICDL Certificate 2005, Intel Certificate 2009