


Curriculum Vitae for Dr. Lamya Al-Haj

Associate Professor – Biology Department

College of Science – Sultan Qaboos University

I. Personal Information:

Full Name	LAMYA ADNAN AL-HAJ	
Employment ID	6827	
Marital Status	Married with 3 children	
Current Positions	Associate Professor of Structural and Molecular Biology Course Coordinator BIOL2101	
Major	Molecular Biology	
Specialization	Genetic Engineering of Microalga / Biofuel Production	
Email	lamya@squ.edu.om	
Postal Address	P.O. Box 36, PC 123 Al-Khouth, Muscat, Oman	
Full profile & activities	www.lamyaalhaj.com	

II. Education and Employment Information

A. Qualifications

Qualification	Year	Major	Institution/Country	Thesis/Project Title
PhD	2014	Structural and Molecular Biology	University College London (UCL), London, UK	Development of genetic engineering tools for the cyanobacterium <i>Synechocystis</i> PCC 6803 for advanced biofuel production.
MSC	2006	Science & Technology/ Environmental Science with Distinction	University of New South Wales, Sydney, Australia	Course based
BSc	2004	Biotechnology cGPA 3.73	Sultan Qaboos University (SQU), Oman	Survey of soil cyanobacteria and their relationship to nitrogen fixation with special reference to irrigated soils

B. First Employment at SQU

Job Title	Joining Date	SQU Unit
Demonstrator	September 5 th , 2004	Biology Department, College of Science

C. Academic Positions

Job Title	Period	SQU Unit
Lecturer	2006 – 2010	Biology Department, College of Science
Assistant Professor	2014 - Present	Biology Department, College of Science

D. Administrative Positions

Job Title	Period	SQU Unit
Coordinator of BIOL2101	2018 – Present	College of Science

III. Awards and Achievements

A. INTERNATIONAL AWARDS

S.N.	Award/Achievement	Awarding Body	Date	Comments
1	Recipient of the prestigious “ Young Global Leader ” award	World Economic Forum – Switzerland	11 th March 2020	Most prestigious leadership award for youth, in recognition of my advancement to science, youth support initiatives, social work and commitment to the society
2	Selected as a Member of “ The World Academy of Science ” TWAS	UNESCO	2019-2023	Only 5 researchers from all developing countries are annually awarded this fellowship in recognition of outstanding research at a young age.
3	Recipient of the prestigious “ L’Oreal UNESCO Award for Woman in Science Middle East Fellowship, 2018 ”	L’Oréal foundation in association with UNESCO – France	28 th November, 2018	Recognition to significant contribution to science & actively promoting it in the Middle East. Received swiping media coverage locally & globally
4	Recipient of “ The Boban Markovic Prize in Environmental Science ”	University of New South Wales (UNSW), Australia	2007	In honor of achieving the highest graduating grade across all departments of the faculty of Science at UNSW
5	Best paper award	Organizing committee of ICREGA’2016 conference Beltfort - France	February 8-10 th 2016	Best paper in the 3 rd International Conference on Renewable Energy: Generation & Application “ICREGA 2016” conference for research on renewable energy
6	Best paper award	Dubai, UAE	30 th -31 st , December 2016	Best presented paper in the 8 th International Conference on Chemical, Agricultural, Biological and Environmental Sciences (CABES)
7	Recipient of <i>Biotechnology YES</i> (Young Entrepreneur Scheme) competition	BBSRC, London UK	2011	Awarded £1000 for our team coming in 2 nd place out of 72 teams across the UK in the nationwide Innovation in Biotechnology Competition
8	Best Research Poster Competition	University College London, UK	2011	Received a monetary prize for winning the “Best Research

				Poster Competition” organized by the graduate school at UCL
9	Winner of TEyD; Tell Everyone Your Dissertation competition	University College London, UK	2011	Received a monetary prize for winning in the sharing science competition organized by UCL Public Engagement Unit
10	Winner of “Strictly Come Science” Competition	University College London, UK	2010	Received a monetary prize for winning the science competition in the Institute of Structural & Molecular Biology symposium at UCL
11	Awarded several travel grants	UCL Graduate School & Society of General Microbiology - UK	Between 2010- 2014	Awarded ~ £2200 in support for presenting my research in China, Canada, Germany and Poland.

B. SULTAN QABOOS UNIVERSITY & NATIONAL AWARDS AND RECOGNITIONS

S.N.	Award/Achievement	Awarding Body	Date	Comments
1	<i>The National Research Award 2018</i>	The Research Council	December 4 th , 2018	For the scientific contribution in the field of renewable energy, namely, the production of biodiesel from waste date seeds
2	<i>Distinguished academic award for the year 2020</i>	Sultan Qaboos University	May 5 th , 2020	For outstanding teaching performance, students satisfaction and enhancement of teaching and learning methods
3	<i>Sultan Qaboos University's Award for Outstanding Scientific Contribution Locally and Internationally 2019</i>	Sultan Qaboos University	May 2 nd , 2019	On University day 2019, I was honored for my outstanding scientific contribution and the awards I received both Nationally and Internationally
4	Recognized & featured in 10 th grade English textbooks as part of the taught curriculum	Ministry of Education Oman	September 2019	My biography is taught as part of the government school curriculum in recognition of my active roles in research and academia
5	<i>Al Mar'a Excellence Award - 2019</i>	Apexmedia	March 14 th , 2019	In honor of my contribution to science in the category of Innovation and Technology based on nominations
6	Occidental Oman –Gulf Intelligence PhD student’s award	Occidental Oman in association with Gulf Intelligence UAE	October 18 th , 2016	As a young scientists in the field of STEM who promotes postgraduate education in Oman. I was also the only female winner in a field of research where females are reported to be underrepresented worldwide

7	Award of Academic Excellence	Sultan Qaboos University	Summer of 2003	For top academic achievers in SQU the award was a fully funded 5* leisure trip to the Netherlands
8	Full PhD Scholarship	Sultan Qaboos University	2010 - 2014	To study PhD in Molecular Biology at the University College London, UK.
9	Full MSc Scholarship	Sultan Qaboos University	2005 - 2006	To study MSc in Environmental Technology in Environmental Science at the University of New South Wales, Sydney, Australia
10	BSc in Biotechnology with a grade of "Honors"	Sultan Qaboos University	1999 - 2004	For a GPA of 3.73 out of 4
11	SQU-VC Annual awards for students with academic distinction	Sultan Qaboos University	Each of the years 2000 - 2003 inclusive	High academic achievement each year during BSc

C. SERVING ON NATIONAL AND INTERNATIONAL BOARDS

1	The Arab Gulf States Institute in Washington (AGSIW)	Board of Directors Washington USA	5 Years
2	International College of Engineering & Management	Board of Trustees Oman	3 Years
3	Our Planet International School	Board of Governance Oman	1 Year

D. PRIVATE CONSULTANCY, COACHING AND FACILITATION

Founder of “*Coach for Change*”. A Muscat-Based Consultancy firm helping organizations through workshops on personal effectiveness, employee engagement, talent management, change management, communication, team collaboration, business improvement techniques, strategy development, and building winning cultures to enable greatness in people and improve organization’s capability based on a foundation of best practices. Dr. AL Haj has worked alongside & supported CEOs, government and business leaders, Boards around the country via numerous workshops. www.cfc.om.

1. Teaching and Learning

1.1 Contribution to Quality University Teaching and Learning

1.1.1 Courses Taught

S.N.	Course Code	Course title	Role in course	Course level
------	-------------	--------------	----------------	--------------

1	BIOL2101	General Biology 1	Teaching and significant course development	Foundation Course
2	BIOL2102	General Biology 2	Teaching and running labs	Level 2 Course
3	BIOL6208	Experimental Techniques	Course creation and teaching	MSc Level Course
4	BIOL1003	Genetics in our life	Course creation and teaching	University Elective
5	SCIE3010	Lab safety and management	Course creation and teaching	College Elective

1.1.2 Student Evaluation (Mean score out of 4)

Course Code	Year / Semester	Overall, this instructor is a good teacher	Summary: Overall Score	Number of Students	Average Grade Point		
					Course	Department	College
BIOL2101	15 SP	3.64	3.55	49	3.23	3.28	3.23
BIOL2101	15 FL	3.77	3.61	38	3.28	3.28	3.23
BIOL2101	16 SP	3.96	3.81	37	3.24	3.35	3.27
SCIE3010	16 SP	4.00	3.94	5	3.74	3.71	3.27
BIOL2101	16 FL	3.86	3.68	50	3.36	3.32	3.23
SCIE3010	17 SP	3.63	3.50	35	3.00	2.97	3.21
BIOL2101	17 FL	3.89	3.80	48	3.57	3.35	3.25
BIOL2101	18 SP	3.91	3.84	56	3.49	3.37	3.30
SCIE3010	18 SP	3.77	3.56	30	3.35	3.27	3.30
BIOL2101	18 FL	3.97	3.85	102	3.67	3.49	3.30
BIOL2101	19 SP	3.86	3.68	95	3.51	3.42	3.27

1.1.3 Course Coordination and Co-examination

Course Code	Year / Semester	Number of Sections	Total Number of Students	Role
BIOL2101	18 FL	6	271	Coordinator
	19 SP	6	313	
	19 FL	6	300	
	16 SU	1	46	

1.1.4 Graduation Projects

S.N.	Student Name & ID	Project Title	Academic Year/ Semester	Acquired grade by evaluators	Role
1	Mohammed Al Murr Al Salmi (ID:97506)	Isolation, growth optimization & characterization of locally isolated Dunaliella salina and its ability to produce β -carotene	2016/2017	A-	

2	Marwa Salim Al Anqudi (ID:110972)	Optimizing the growth of microalgae <i>Dunaliella</i> and <i>Spirulina</i> for the production of commercial microalgal products	2018/2019	A-	Supervisor
3	Mariya Rashid Al Kalbani (ID:112817)	Utilization of date palm pits for production of biodiesel as a clean, sustainable and commercial resource for Oman	2018/ 2019	A-	
4	Rehab Nasser Al-Zidi (ID:120398)	Production of Biopolymer from Date Seed Oil Using <i>Cupriavidus necator</i>	2019/2020	A -	
5	Sharifa Al Masqari (ID:116056)	Exploring the potential of bioethanol production as a potential biofuel product from date pits waste material	2019/2020	B+	

1.1.5 Academic Advising

Cohort	Major/Pre-Major	Year / Semester	Number of Advisee
2014*	Major	FL/14	1
		FL/15	5
		SP/15	1
		FL/16	40
		SP/16	24
		FL/17	43
		SP/17	44
		FL/18	39
		SP/18	42
		SP/19	40
		Total grand	279

* In addition to the above, since I served as a special advisor (college probation supervisory committee since 2017), I have been advising a large number of students from different cohorts and majors, especially late students and students on probation.

1.2 Active Participation in Developing / Reviewing Programs and University Teaching and Learning Processes

1.2.1 Innovative approaches to improve independent/collaborative learning processes

Initiative	Comments
Introduced active learning and VR technology in teaching	This team driven transformation that I led as course coordinator for BIOL2101, was conducted through the Scaled Agile framework of project management (under guidance of Dr. Nidhal Al Lawati - Physics department). The course development targeted the development of critical thinking, problem-solving, collaboration and communication skills, through a more student-interactive learning methodology that involved creating and implementing interactive context-rich worksheets, open book quizzes and what we called “Bio’s got talent” skill- based project. Additionally, <u>virtual reality technology</u> was introduced in teaching & learning where I personally secured the external funds from Oman Authority for Partnership for Development to purchase virtual reality (VR) glasses in order to introduce VR technology in our

	biology classrooms for the first time in history of biology teaching in the department in line with the department's vision to prepare future-facing students. The feedback from the HoD & students was phenomenal as they witnessed how the dynamics of the teaching & learning was significantly enhanced to be more fit for teaching in the 21 st century. The change was implemented in a very short span of time (1 year)
--	---

1.2.2 Developed instructional materials

S.N.	Course Code and Name	Materials Developed	Comments
1	BIOL2101/ General Biology 1	Completely revised lecture notes & created 2 versions of each lecture slides (staff + student versions)	A version was prepared for the use of the academic staff during the lecture while the other version for students had less content in order for students to learn/practice note taking skills.
		Bio's got Talent	This 3 month skills based project enhanced team work, communication & collaboration skills as well creativity & sparked a lot of enthusiasm and excitement in the course.
		Learning outcomes completely revised & modified	Learning outcomes for each lecture were completely revised in order to align with the course new aim in developing skills of the 21 st century for the students.
		Introduced worksheets for first time in BIOL2101 Labs	Context Rich worksheets were introduced for the first time in the laboratory component of the course to enhance critical thinking, collaboration & communication skills as the students worked in pairs to solve the addressed problem/challenge.
		Fun facts	Scientific fun facts were introduced at the end of each lecture in the entire course to attract students to science.
		Animations and clips	Carefully selected animations and clips were introduced and shared with the students to ease the learning process.
		Open book quizzes	Introduced to students for the first time to practice the skill of fact finding from open resources.
2	BIOL6208/ Experimental Techniques	Lecture Notes in a Presentation Format (Slides)	This MSc course contained both theory and practical components that were both developed & taught by me as part of a multi-instructor course for MSc students. (50% development and teaching)
3	SCIE3010/ Lab safety and management	Lecture Notes in a Presentation Format (Slides)	This course is in collaboration with both Chemistry and Physics department and I was responsible for both creating the biology course theory and practical content for the course and teaching it. (35% Development and Teaching)
4	BIOL1003/ Genetics in our life	Lecture Notes in a Presentation Format (transparencies)	This university elective was taught in Arabic to reach out to all SQU students to introduce them to the basics of genetics and how it effects our daily lives. I created & taught 50% of the content.

1.3 Demonstration of the Quality Developed / Reviewed Academic Programs and Other University Teaching and Learning Processes

1.3.1 Awards for University Teaching and Learning

Award	Awarding Body	Date	Comments
<i>The Boban Markovic Prize in Environmental Science</i>	University of New South Wales, Australia	2007	In honor of achieving the highest graduating grade across all departments of the faculty of Science with both Distinction and Honor (86% compared to a 75% for the previous award winner)
<i>Distinguished academic award for the year 2020</i>	Sultan Qaboos University	May 5 th , 2020	For outstanding teaching performance, student's satisfaction and enhancement of teaching and learning methods

1.3.2 Students Direct Feedback on Teaching & Learning

Students have expressed overwhelmingly positive reviews and feedback on the quality of teaching and advising I have offered over the years and have expressed it privately via emails, messages, handwritten letters, cards of thanks and over social media platforms. Many have expressed how my teaching methods has made them take up biology as a specialization and how the lectures inspired them to love science and learning in general.

1.4 Subscription to University Teaching and Learning Professional Societies and Attending Professional Meetings

1.4.1 Professional Events Attended

S.N.	Event	Date and Place
1	Workshop by Centre for Excellence in Teaching & Learning (CETL) entitled "Using Technology to Engage Students in Deeper Learning at SQU"	25 th December, 2017 CETL SQU, Oman
2	Workshop on "Developing both Assessment Tools & Rubrics"	12 th November, 2015. Centre for Excellence in Teaching & Learning (CETL), SQU, Oman
3	Workshop on "Innovation and Entrepreneurship"	14 th to 16 th December, 2015. Academic Innovation Assistance Program (AIAP), SQU, Oman
4	Participated in the National Training Program in Biotechnology	7 th -11 th May 2005, SQU, Oman
5	Participated in an "Instructional Skills Development Program"	13 th Feb - 3 rd April, 2005, Oman

1.4.2 Oral and Poster Presentations within University Teaching and Learning at Scientific / Professional Events

S.N.	Presentation Title	Type	Event	Date and Place
1	"The Future of Higher Education In The Age of Artificial Intelligence"	Keynote speaker	Artificial Intelligence Conference	August 1 st , 2018. Salalah- Oman Regency Hall Link to evidence
2	"The Role of Universities in Generating Technology-based Startups"	Invited speaker	Symposium	17 th February, 2016. AIAP SQU Oman

3	“Life in the UK and studying at UCL” describing living & learning at UCL	Invited speaker	Privet event organized by University College London (UCL) & Omani Embassy in UK for 60 Omani student delegation at UCL	2012 Invite by UCL Head of International Office, University College London, London, UK
4	“UCL CEPMaBC; Be a Polymath”	Mentor for public engagement event	Teaching Engagement Event	2012, Chemistry Department University College London, London, UK
5	"Bite Size Lunch Hour Lecture”	Invited speaker	Series of lectures for Public Engagement in an effort to communicate science to the general public	2011, University College London, London, UK

1.5 University/ National Recognition in University Teaching and Learning in the Field of Specialization

1.5.1 Membership of University Teaching and Learning Committees

S.N.	Committee	Academic Year	Role	Level
1	Student Project Evaluation	2015-2016 2014-2015	Chair	Departmental
2	College Probation Supervisory Committee	2017/2018 2018/2019	Member	College
3	Staff-Student Liaison Committee	2018-2019 2017-2018 2016-2017 2015-2016 2014-2015	Chair	Departmental and College

1.6 Leading Scholarly Work in University Teaching and Learning

1.6.1 Organization of Workshops and Events at SQU

S.N.	Event	Date	Role
1	Conducted a series of lectures on Biofuels at SQU via the Independent Learning Center (iLC)	7 th – 19 th Jan, 2017	Lectures design and delivery Link to evidence
2	Delivered a workshop via the Independent Learning Center (iLC) entitled “Algae Biofuels: Current Scenarios, Challenges & Future Prospective”	21 st – 22 nd February 2016	Workshop design and delivery Link to evidence
3	“The Science Olympics” - Qatar	20 th March 2015	Contributed with 50 written short/medium answer biology questions For the Science Olympics.

4	Organized a visit for primary students from TLC privet school to the physics department at SQU to learn about the concept of "Light" run in collaboration with the Physics department.	14 th October 2015	Organizer
5	Organized a visit for upper primary students from TLC privet school to the physics department at SQU to learn about the concept of "Light, reflection and refraction".	11 th , November 2015	Organizer

2. Scholarship

2.1 Peer Reviewed Scholarly Work

2.1.1 Peer Reviewed Journal Publications (Top 5 publications P2, P4, P5, P6 and P11)

S.N.	Paper Listed According To Year of Publication	Contribution
P1	Al-Haj, LA (2012). Biofuels from microorganisms. <i>Asia-Pacific Biotech News</i> 16: 30-33	First and Corresponding Author ✓ Article write up and correspondence
P2	Hellier P, Al-Haj LA , Talibi M, Purton S, Ladommatos N (2013). Combustion and emissions characterization of terpenes with a view to their biological production in cyanobacteria. <i>Fuel</i> . 111, 670-688.	Second Author ✓ Experimental work ✓ Paper write up ✓ Paper revision and corrections
P3	LA Al-Haj (2014). Development of genetic engineering tools for the cyanobacterium <i>Synechocystis</i> PCC 6803 for advanced biofuel production. University College London (University of London).	PhD Thesis ✓ Experimental work ✓ Thesis write up and publishing
P4	Farrukh Jamil, Ala'a H. Al-Muhtaseb, Lamya Al-Haj , Mohab A. Al-Hinai, Paul Hellier, Umer Rashid (2016). Optimization of oil extraction from waste "Date pits" for biodiesel production. <i>Energy Conversion and Management</i> , 117 264-272.	Third Author ✓ Experimental work co-supervision ✓ Collaboration with UCL for combustion analysis ✓ Paper write up
P5	L Al-Haj* , YT Lui, RMM Abed, MA Gomaa, S Purton (2016). Cyanobacteria as chassis for industrial biotechnology: progress and prospects. <i>Life</i> 6 (4), 42	First and Corresponding Author ✓ Full paper write up
P6	H Ala'a, F Jamil, L Al-Haj , MA Al-Hinai, M Baawain, MTZ Myint, D Rooney (2016). Efficient utilization of waste date pits for	Second Author ✓ Co supervised experimental work

	the synthesis of green diesel and jet fuel fractions. <i>Energy Conversion and Management</i> 127, 226-232.	✓ Assistance in paper write up and corrections
P7	MA Gomaa, L Al-Haj , RMM Abed (2016). Metabolic engineering of cyanobacteria and microalgae for enhanced production of biofuels and high-value products. <i>Journal of Applied Microbiology</i> . 121 (4): 919-31	Second Author ✓ Paper structure and design ✓ Paper write up supervision
P8	Ahmad M Abu-Jrai, Farrukh Jamil, H Ala'a, Mahad Baawain, Lamya Al-Haj , Mohab Al-Hinai, volMohammed Al-Abri, Sikander Rafiq (2017). Valorization of waste Date pits biomass for biodiesel production in presence of green carbon catalyst. <i>Energy Conversion and Management</i> 135, 236-243.	Fifth Author ✓ Assistance in paper write up and corrections
P9	F Jamil, H Ala'a, L Al-Haj , MA Al-Hinai, M Baawain (2017). Phoenix Dactylifera Kernel Oil Used as Potential Source for Synthesizing Jet Fuel and Green Diesel. <i>Energy Procedia</i> 118, 35-39	Third Author ✓ Co supervised experimental work ✓ Assistance in paper write up and corrections
P10	Farrukh Jamil, H Ala'a, Myo Tay Zar Myint, Mohab Al-Hinai, Lamya Al-Haj , Mahad Baawain, Mohammed Al-Abri, Gopalakrishnan Kumar, AE Atabani (2018). Biodiesel production by valorizing waste Phoenix dactylifera L. Kernel oil in the presence of synthesized heterogeneous metallic oxide catalyst (Mn@ MgO-ZrO ₂). <i>Energy Conversion and Management</i> . 155, 128-137	Fifth Author ✓ Assistance in paper write up and corrections
P11	I Barkia, F Zadjali, N Saari, MH Zakaria, CL Li, A Witkowski, L Al-Haj* (2018). Isolation and identification of indigenous marine diatoms (Bacillariophyta) for biomass production in open raceway ponds. <i>Aquaculture Research</i> . 49 (2), 928-938	Corresponding Author ✓ Supervised experimental work ✓ Collaboration with Poland for algae identification and analysis ✓ Paper write up supervision and corrections
P12	Farrukh Jamil, Lamya Al-Haj , H Ala'a, Mohab A Al-Hinai, Mahad Baawain, Umer Rashid, Mohammad NM Ahmad, (2018). Current scenario of catalysts for biodiesel production: a critical review. <i>Reviews in Chemical Engineering</i> . 34 (2), 267-297	Second Author ✓ Paper structure and design ✓ Paper write up supervision
P13	H Ala'a, Farrukh Jamil, Lamya Al-Haj , Myo Tay Zar Myint, Eyas Mahmoud, Mohammad NM Ahmad, Ahmad O Hasan,	Third Author ✓ Co supervised experimental work

	Sikander Rafiq (2018). Biodiesel production over a catalyst prepared from biomass-derived waste date pits. <i>Biotechnology Reports</i> . 20, e00284	✓ Assistance in paper write up and corrections
P14	Paul Hellier, Farrukh Jamil, Ernesto Zaglis-Tyraskis, H Ala'a, Lamya Al Haj , Nicos Ladommatos (2019). Combustion and emissions characteristics of date pit methyl ester in a single cylinder direct injection diesel engine. <i>Fuel</i> 243, 162 – 171	Fifth Author ✓ Assistance in paper write up and corrections
P15	Ines Barkia, Lamya Al-Haj , Azizah Abdul Hamid, Mutaharah Zakaria, Nazamid Saari, Fahad Zadjali (2019). Indigenous marine diatoms as novel sources of bioactive peptides with antihypertensive and antioxidant properties. <i>International Journal of Food Science & Technology</i> 54 (5), 1514-1522	Second Author ✓ Co - supervised experimental work ✓ Paper write up supervision and corrections
P16	Paskalis Sahaya Murphin Kumar, Htet Htet Kyaw, Myo Tay Zar Myint, Lamya Al-Haj, Ala'a H Al-Muhtaseb, Mohammed Al-Abri, Vembuli Thanigaivel, Vinoth Kumar Ponnusamy. (2020). Green route synthesis of nanoporous copper oxide for efficient supercapacitor and capacitive deionization performances. <i>International Journal of Energy Research</i> . 2020;1–13.	Fourth Author ✓ Paper write up supervision and corrections ✓ Partial funding and lab space
P17	Farrukh Jamil, Paskalis Sahaya Murphin Kumar, Lamya Al-Haj, Myo Tay Zar Myint, H Ala'a. (2020). Heterogeneous carbon-based catalyst modified by alkaline earth metal oxides for biodiesel production: Parametric and kinetic study. <i>Energy Conversion and Management: X</i> . 2020: 1-10	Third Author ✓ Co - supervised experimental work ✓ Paper write up supervision and corrections
P18	Farrukh Jamil, Mohammed Al-Riyami, Lamya Al-Haj, Ala'a H Al-Muhtaseb, Myo TZ Myint, Mahad Baawain, Mohammed Al-Abri. (2020). Waste Balanites aegyptiaca seed oil as a potential source for biodiesel production in the presence of a novel mixed metallic oxide catalyst. <i>International Journal of Energy Research</i> . 2020;1–14	Third Author ✓ Co - supervised experimental work ✓ Paper write up supervision and corrections

2.1.2 Conference papers

S.N.	Authorship & Paper Title	Conference Title	Date and place
------	--------------------------	------------------	----------------

P1	Farrukh Jamil, Ala'a H. Al-Muhtaseb, Lamya Al-Haj, Mohab A. Al Hinai, Mahad Baawain. Phoenix dactylifera kernel oil used as potential source for synthesizing jet fuel and green diesel.	2 nd International Conference on Advances on Clean Energy Research.	ICACER 7-9 April 2017. Belin Germany
P2	Farrukh Jamil, AH Muhtaseb, M Baawain, L AL-Haj , M Al-Hinai. Utilization of waste date pits for biodiesel production in presence of green catalyst.	4 th International Conference on Energy and Environment Research	2017 Dubai UAE
P3	F Jamil, H Ala'a, L Al-Haj , MA AlHinai, M Baawain, G Murshid. Clean Fuel Production from Waste Date Pits.,	ICTEA: International Conference on Thermal Engineering	February, 2017 SQU Oman
P4	Farrukh Jamil, Ala'a Al-Muhtaseb, Lamya Al Haj , Mohab Al-Hinai. Parametric study of oil extraction from phoenix dactylifera kernal (date seed) as green energy source.	4th International Conference on Renewable Energy: Generation and Applications.	8th -10th Feb 2016. Belfort France
P5	Synthesis of High Value Fuel Fractions from Waste Date Seed Oil	8 th International Conference on Chemical, Agricultural, Biological and Environmental Sciences (CABES)	30th -31st, December 2016 Dubai UAE

2.1.3 Technical Reports

S.N	Report	Type	Year
1	Production of high Value Products and Advanced Biofuels by Genetically Engineering The Cyanobacterium <i>Synechocystis</i> sp. PCC 6803	Internal grant report	2016
2	Production of high Value Products and Advanced Biofuels by Genetically Engineering The Cyanobacterium <i>Synechocystis</i> sp. PCC 6803	Internal grant report	2017
3	Biofuel Production From Renewable Resources in Oman Based on a Bio-refinery Concept	TRC progress report	2017
4	Bioprospecting of microalgae & cyanobacteria from extreme habitats for novel compounds of commercial interest	SQU-South Africa progress report	2018
5	Bioprospecting of microalgae & cyanobacteria from extreme habitats for novel compounds of commercial interest	SQU-South Africa progress report	2020

2.1.4 Book Chapter

Chapter	Contribution as
H Ala'a, Farrukh Jamil, Lamya Al Haj , Eyas Mahmoud, Mohamed Becherif, Umer Rashid, Sikander Rafiq, AE Atabani, Gopalakrishnan Kumar (2019). Valorization of Waste Date Seeds for Green Carbon Catalysts and Biodiesel Synthesis. Sustainable Agriculture Reviews 34, 105-123 Springer, Cham.	Assistant Professor

2.1.5 Invited Talks

A. International Conferences and Symposiums

S.N.	Talk Title	Event	Date & Place	Comments
1	" <i>Woman Education in STEM</i> "	Harvard Business School conference entitled " <i>4th annual HBS crossroads conference</i> "	April 25 th , 2016 Dubai UAE	First Omani to be an invited speaker at the " Harvard Business School crossroad conference " to discuss "Woman Education in STEM". A very prestigious invitation & successful talk that lead to a lot of networking. My international participation on this very prestigious platform gained a lot of national attention and was covered extensively in the national media. Link to Evidence Link to Evidence 2
2	Microalgal biofuel production: Fact of Fiction?	"Rendez-Vous de Concarneau: Where Industry Meets Science in Marine Biotechnology"	October 9 th – 10 th , 2014, Concarneau, France	The presentation was highly appreciated and received a lot of positive feedback that I was asked for an extensive interview and was featured on the front page of the French newspaper the next morning. I discussed the current and future plans SQU/Oman has for establishing biofuels in the region. The interview was a success and was followed by a second interview that was published in French magazine the same week.
3	Exploring the Potentials of Local Microalgae Strains for Biofuels and High Value Products's of Commercial Interest	KISR regional work shop on Microalgae applications	12 th -13 th November 2018 Kuwait	A chance to present amongst the gurus of biofuel and High Value Products in the world like "Los Alamos" from USA.
4	Bioprospecting of microalgae & cyanobacteria from extreme habitats for novel compounds of commercial interest	Talk to staff and post graduates	15 th July, 2018 Durban University of Technology, Durban, South Africa	Well received talk with interactive Q&A sessions

5	Micro-algae biofuel and bioproducts: “The way towards a clean, renewable energy and a sustainable environment	“Energy, Water and Food Security”	December 12 th - 13 th , 2014. Beirut- Lebanon	Well received talk with interactive Q&A sessions
---	---	-----------------------------------	---	--

B. National Conferences, Symposiums and Seminars

S.N.	Talk Title	Event	Date & Place
1	تجربتي مع البحث العلمي – My research experience	UNESCO - اللجنة الوطنية للثقافة والعلوم	11 th February 2019 Cultural hall in Grand Mosque – Muscat
2	“Research - To commercialize or not to commercialize that is the question”	College seminar - open to public	7 th March 2019 SQU –Lecture Theater 2 Link to evidence
3	Potentials of Algae Biofuels in Oman	be’ah Biofuels workshop	May 10 th 2018. Hormuz Hotel – Oman
4	“The Role of Universities in Generating Technology-based Startups” organized by.	Symposium	Organized by AIAP at SQU on 17 th February, 2016
5	Keynote Speaker “Renewal Energy with specific attention to Biofuels and its future in the gulf region”	First National Symposium on Emerging Trends in Engineering & Management	February 10 th –13 th , 2013 Walljat College Link to evidence
6	"The Potential of Biofuels As a Renewable Energy Resource"	Environmental Symposium on Renewable Energy Resources	Organized by Ministry of Environment & Climatic Affairs, Golden Tulip, 14 th March 2008
7	"The Potential of Second Generation Biofuels in Oman”	Biotechnology Symposium	22 -23 April 2008. SQU, Oman

2.1.6 SQU Internal Grants

S.N.	Project Title	Allocated Budget	Role	Year
1	Production of High Value Products and Advanced Biofuels by Genetically Engineering The Cyanobacterium <i>Synechocystis</i> sp. PCC 6803.	R.O. 7,000	Principal Investigator	2016
2	Enhancing Biofuel-Production by a Novel Strain of Clostridia Isolated from Omani Desert Soil Crust	R.O. 10,000	Principal Investigator	2017

2.1.7 External Grants

S.N.	Project Title	Allocated Budget	Role	Year & Awarding body
------	---------------	------------------	------	----------------------

1	Utilization of Palm Tree Waste for The Production of Second Generation Biofuels as a Clean Sustainable & Commercial Energy Resource for Oman	R.O. 150,000	Principal Investigator (project leader)	2018 – Petroleum Development of Oman (PDO) PDO Contract Link 1 PDO Contract Link 2
2	Biofuel Production From Renewable Resources in Oman Based on a Bio-refinery Concept	R.O. 285,200	Co-Investigator	2015 – The Research Council (TRC)
3	Bioprospecting of Microalga and Cyanobacteria From Extreme Habitats For Novel Compounds Of Commercial Interest	R.O. 8,000	Collaborative grant	2018/2019 SQU-South Africa

2.2 Demonstration of Quality Scholarly Achievements

2.2.1 Citations and H-index

Total Citations	H-index	i10-index / RG Score	Source	Profile
221	8	-	Scopus	https://www2.scopus.com/authid/detail.uri?origin=resulistslist&authorId=55745391700&zone=
332	9	9	Google Scholars	https://scholar.google.com/citations?hl=en&user=rcwg_cO0AAAAJ&view_op=list_works&sortby=pubdate
202	-	RG Score 19.26	Research Gate	https://www.researchgate.net/profile/Lamya_Al-haj

2.2.2 Impact Factor and Ranking of Journals

S.N.	Journal (Papers No.)	5-Year IF	Ranking/Category	Quartile	Source
1	Energy Conversion and Management (P4, 6, 8, 10)	8.208	#7/197 (Energy)	Q1	See below*
2	Fuel (P2, 14)	5.578	#10/197 (Energy)	Q1	See below
3	Reviews in Chemical Engineering (P12)	5.315	#20/272 (Chemical Engineering)	Q1	See below
4	Journal of Applied Microbiology (P7)	3.066	#81/257 (Biotechnology)	Q2	See below
5	International Journal of Food Science & Technology (P15)	2.773	#69/273 (Food Science)	Q1	See below
6	Aquaculture Research (P11)	1.748	#83/204 (Aquatic Science)	Q2	See below
7	Biotechnology Reports (P13)	-	#30/257 ((Biotechnology)	Q1	See below
8	Asia-Pacific Biotech News (P1)	-	-	-	
9	Life (P5)	-	-	-	
10	Energy Procedia (P9)	-	-	-	See below

*Journal website, www.scopus.com and www.scimagoir.com

2.2.3 Awards for Scholarly Achievements

S.N.	Award	Awarding Body	Date	Comments
1	Recipient of the prestigious “Young Global Leader” award	World Economic Forum – Switzerland	11 th March 2020	Most prestigious leadership award for youth, in recognition of my advancement to science, youth support initiatives, social work and commitment to the society
2	Selected as a Member of “The World Academy of Science” TWAS	UNESCO	2019-2023	Only 5 researchers from all developing countries are annually awarded this fellowship in recognition of outstanding research at a young age.
3	Recipient of the prestigious “L’Oreal UNESCO Award for Woman in Science Middle East Fellowship, 2018”	L’Oréal foundation in association with UNESCO – France	28 th of November 2018	The award is highly competitive and as a winner I received Euro 20,000 in recognition for promoting science in the Middle East. I also receive vast coverage from national & international media which resulted in further discussions about my research specifically & importance of research in general in many media platforms both nationally & globally (TV, Radio, Magazines, Newspapers & all social media platforms in both Arabic and English). I was also invited to speak in a lengthy discussion live “on air” with “Mont Calro International Radio” that has a follower’s database of ~7 million across the world which was a perfect platform to highlight the status, progress and development of R&D in Oman & SQU specifically Award link
4	<i>The National Research Awards</i> 2018	The Research Council	December 4 th , 2018	For the scientific contribution in the file of renewable energy, namely, the production of biodiesel from waste date seeds
5	SQU Certificate for Recipients of International and Regional Awards	Sultan Qaboos University	May 2, 2019	On the 19 th University Day in recognition of winning the “L’Oréal UNESCO for the significant contribution to Science & actively promoting it both nationally & internationally along with other local research awards (e.g The National Research Award 2019) Award Link
6	“Distinguished Academic Award” for the year 2020	Sultan Qaboos University	May 5th, 2020	For outstanding teaching performance, students satisfaction and enhancement of teaching and learning methods

7	Al Mar'a Excellence Award - 2019	Apexmedia	March 14 th , 2019	In honor of my contribution to science in the category of Innovation and Technology based on nominations Award Link
8	<i>Occidental Oman – Gulf Intelligence Award</i>	Occidental - Oman in association with Gulf Intelligence - UAE	October 18 th , 2016	As a young scientists in the field of STEM who promoted postgraduate research & education in Oman. I was also the only female winner in a field of research where females are reported to be underrepresented worldwide Award Link
9	Best Paper Award	Organizing committee of ICREGA'2016 conference Belfort - France	February 8-10 th 2016	Best paper in the 3rd International Conference on Renewable Energy: Generation & Application “ICREGA 2016” conference for research on renewable energy (Refer to Attachment Sch 2.1.2A)
10	Best paper award	Dubai, UAE	30 th -31 st , December 2016	Best presented paper in the 8 th International Conference on Chemical, Agricultural, Biological and Environmental Sciences (CABES) (Refer to Attachment Sch 2.1.2B)
11	Best Research Poster Competition	University College London, UK	2011	Received a monetary prize for winning the “Best Research Poster Competition” organized by the graduate school at UCL (Refer to Attachment TL 1.4.2A)

2.3 Subscription to Professional Societies and Attending Professional Meetings

2.3.1 Oral and Poster Presentations at Scientific / Professional Events

S.N.	Presentation Title	Event	Date and Place	Type
1	Engineering a platform for photosynthetic terpene production in cyanobacteria using <i>Synechocystis</i> 6803 as the model organism	5 th International Conference on Algal Biomass, Biofuels and Bioproducts	7 th -10 th Jun, 2015 San Diego, USA	International Oral Presentation
2	Engineering a platform for photosynthetic terpene production in cyanobacteria using <i>Synechocystis</i> 6803 as the model organism	Algal Biomass, Biofuels and Bioproducts	Jun 16 th -19 th , 2013, Toronto, Canada	
3	Genetic engineering of Cyanobacteria for biofuel production	BIT's 1st Annual International congress of Marine Alga	September 20 th – 23rd, 2012, Dalian, China	

4	Utilizing genetic engineering tools for the production of Geraniol and Farnesene in <i>Synechocystis</i> 6803	Molecular Bioenergetics of Cyanobacteria: Shaping the Environment	April 15 th - 20 th , 2013, Pultusk, Poland	International Poster Presentation
5	Development of Advanced Genetic Engineering Tools for The Cyanobacterium <i>Synechocystis</i> sp. PCC6803	Biofuels (C3)	March 1 st - 6 th , 2011. Swissotel the Stamford, Singapore	
6	Participated with a presentation on my research activities and interest	Water and Energy Collaboration Symposium	16 th - 17 th March, 2016 SQU in collaboration with the British Council Oman	National Oral presentation
7	Biofuel As a Renewable Energy Resource	الندوة البيئية حول التنمية المستدامة لاستخدامات الطاقات المتجددة للتخفيف من التغيرات المناخية	Ministry of Environment & Climate affairs 12 th March 2008 Oman	

2.3.2 Professional Events Attended

S.N.	Event	Date and Place	National /International
1	Microorganisms for Bio-Fuel production from sunlight	September 18 th –21 st , 2011. Bielefeld, Germany	International
2	8 th European Workshop: Biotechnology of Microalgae	June 4 th -5 th , 2010. Nuthetal/ Potsdam, Germany	
3	The GenoBusiness Forum	8 th –9 th May, 2018. PACA, Muscat, Oman Link to Evidence	National
4	Participated in a workshop “Renewable Energy in Oman: Current Status and Future Perspectives”	17 th -19 th September, 2017. SQU - Oman	
5	Participated in a workshop “Combating the Emerging Impacts of Harmful Algal Blooms on Desalination Plants”	21 st January 2016. Middle East Desalination Center (MEDRC) - Oman	
6	Participated in a workshop on “Publishing and Grant Proposal Writing Workshop”	4 th – 5 th October 2015. The Research Council (TRC)- Oman	
7	The Third National Conference on Bio-Safety	September 23 rd – 25 th , 2014. Organized by Ministry of Environment & Climate affairs held in Park Inn Muscat, Oman	
8	International Symposium of Biotechnology and Conservation of Species from Arid Regions,	February 10 th –13 th , 2013. SQU – Oman	
9	Participated in organizing the first international workshop on Al Jebal Al Akhdar “Initiative Conservation and Sustainable Development in a Fragile Arid Mountain Ecosystem”	February 8 th -9 th , 2006. SQU – Oman	

10	International conference on Bio-safety	21 st - 23 st February, 2005. Ministry of Regional Municipalities, Environment & Water Resources – Oman	
----	--	--	--

2.3.3 Research/Scientific Visits

S.N.	Place	Period	Purpose
1	Durban University of Technology, Durban, South Africa	13 th – 21 st July, 2018	Research collaboration with Prof. Faizal Bux and Ismail Rawat on exploring local algae for high value products.
2	Qatar	28 th of May – 2 nd Jun 2016.	Visited Qatar University ATP center to learn about the “Alga Technology Program” (ATP). Established research collaboration and engaged in a lot of knowledge exchange.
3	Iran	October, 2014	Visited and established a collaboration for joint research with Prof Nisreen Moazami from Iranian Research Organization for Science and Technology (IROST) and Qushim Microalgae Biorefinery (QMAB).

2.4 University/ National Recognition

2.4.1 Invitation as an Examiner for MSc Theses

S.N.	Student	Thesis Title	Date	College/University (Role)
1	Ms. Khadija Said Al Hosni (ID:33374/16)	“Indigenous Lactic Acid Bacteria from Camel Milk: Isolation, Characterization & Application in Dairy Products”	3 June 2018	College of Science Biology Department Member of Thesis Examination Committee

2.4.2 Membership of Registered SQU Research Groups

S.N.	Research Group	Date of Registration	Role
1	Renewable Energy Research Group at SQU	Oct 18 th , 2017	Member

2.4.3 Awards Received

S.N	Awards	Awarding Body	Date	Comments
1	<i>The National Research Award 2018</i>	The Research Council	December 4 th , 2018	For the scientific contribution in the file of renewable energy, namely, leading role in the production of biodiesel from waste date seeds in Oman (Refer to Attachment Sch 2.2.3B)

2	<i>Sultan Qaboos University's award for outstanding scientific contribution locally and internationally 2019</i>	Sultan Qaboos University	May 2 nd , 2019	On the 19th University Day in recognition of winning the L'Oréal-UNESCO award for Woman in Science Middle East Fellowship 2018 for my significant contribution to science & actively promoting it both locally & internationally. Received swiping media coverage locally & globally. (Refer to Attachment Sch 2.2.3E)
3	<i>Al Mar'a Excellence Award - 2019</i>	Apexmedia	March 14 th , 2019	In honor of my contribution to science in the category of Innovation and Technology based on nominations (Refer to Attachment Sch 2.2.3C)
4	<i>Occidental Oman – Gulf Intelligence award</i>	Occidental Oman	October 18 th , 2016	As a young scientists in the field of STEM who promoted postgraduate education in Oman. I was also the only female winner in a field of research where females are reported to be underrepresented worldwide (Refer to Attachment Sch 2.2.3D)

2.5 Leading Scholarly Work

2.5.1 Postgraduate Supervision

S.N.	Student	Thesis Title	Starting Date	Level	Role
1	Ines Barkia	“Production of microalgae-based functional food with antioxidant and antihypertensive properties from Omani waters”	September 2016 (Completed)	PhD	Co-Supervisor
2	Farrukh Jamil	“Volarization of Omani Waste Date pits (Phoenix Dactylifera) Pits for Production of Biofuels”	September 2014 (Completed)	PhD	
3	Mohammed Goma	“Microbial community and isolate based approaches for the production of biofuels and high value products in the Sultanate of Oman”	September 2014 (Completed)	PhD	

2.6 Leadership, Active Role and Impact in Developing Scholarly Work

2.6.1 Active Leadership In Research

S.N.	Activity	Period	Comments
------	----------	--------	----------

1	Laboratory Establishment	2014-2016	After completing my PhD & returning to an empty lab, I immediately joined an existing research group (2014) & also started applying for my own grants to establish my lab. I managed to secure an IG grant (2016) and also tap into the Deans budget to purchase an algae cultivation equipment that is the one of its kind in the Middle East “ Algem ” with a fund of 28,500 rial on 4 th February 2015 that was later extensively used in algae cultivation research.
2	Creating my first research group: <i>The Algae Biology and Biotechnology Research group</i>	2016-2017	After securing the collaborative grant with South Africa (10k) I attracted external researchers to join me and created a team of 4 assistant professors from College of Science, College of Agriculture and a postdoc from Higher Technical College (HTC) via a 1 year contract to work in my team. We also attracted 4 students to work on the project.
3	Creating my second research group: <i>The Biodiesel Production Research Group</i>	2017-2018	After securing an external grant from PDO (150K) with myself as the PI of the project, I created a team of researchers, attracting a BSc student, 2 volunteers, a post doc and a consultant and a research assistant.
4	Attracting International Talent	2017-2019	Due to the wide discussions of my research on the national news, newspapers & social media platforms and winning the L’Oréal UNESCO award in 2018. Students & researchers from outside Oman were applying to work in my research team. In 2017, I accepted an Omani student from Dublin City University (UK) to join our “ <i>Algae research team</i> ” for 6 months Integrated Training program where she was extensively trained under my direct supervision and her 6 month training was registered as part of her degree in Dublin City University (UK). In 2019, we also hired an Omani honor student from USA (University of Nebraska-Lincoln) who applied to join the “ <i>Biodiesel production group</i> ” and is currently working as a research assistant in my team.
5	Training sessions	2017	Organized training sessions on using high technology instruments for the cultivation and analysis of algae growth for biofuel and high value products production for students inside & outside SQU including students from the Higher Technical College, Caledonian College and a student from college of engineering in SQU.
6	Leading research teams and capacity building	2016-current	In the short span of 4 years, I have established my lab with latest instrumentation, hired 2 post docs from India and Pakistan, an Omani MSc student starting 2020, 3 PhD students, 3 BSc students, 2 Research Assistants, and trained several students from inside and outside Oman.

2.6.2 Scholarly Consultancy

S.N.	Requested body	Period	Comments
1	Japanese company (Euglena)	Started 2016 and	Provided consultation for a Japanese company (Euglena) on how to start their business in Oman. The several meetings

		ended on 31 st Dec 2018	lead to the establishing of a small algae cultivation facility on SQU campus at the SQU Agriculture Experiment Station (AES) that. The consultation & support was provided to Mr Aki Hirayama, Vice Director, Sustainable Green Business Promotion Div, Shimizu Corp. Japan and Mr Sueyoshi Narimi Mark from SQU/College of Engineering.
2	UK based company (Feed Algae)	2016 - 2019	Provided consultation for a UK based company (Feed Algae) by an invitation from the VC office where several meetings were conducted to support algae cultivation initiatives at SQU. I was in contact with the Chief Operating Scientist of Feed Algae Raffael Jovineon for any support. The meetings supported the establishment of a small facility on SQU campus and training of local students. I also took over one of their staff and co-supervised her to complete her PhD in my lab under both my direct supervision and Dr.Fahad Al Zadjali from college of Medicine where we co-published 2 research papers from the joint PhD student.
3	Reviewer for the Egyptian Journal of Aquatic Research	March 26 th , 2017	Invited as a reviewer for a paper entitled “Effect of Spirulina platensis on reproductive performance of Nile Tilapia Oreochromis niloticus” (Ref. No.: EJAR-D-17-00031)

2.6.3 Invitations of experts

Type of Invite	Year / Place
Invited Professor Saul Purton from University College London UCL (UK) to deliver a series of high-level talks on “Algae Biology and Biotechnology” at SQU in support of achieving UCL-SQU research collaboration and in support of the MoU signed between SQU and UCL.	2016 SQU Oman

2.7 Regional / International Recognition

2.7.1 Awards Received

S.N.	Award	Awarding Body	Date	Comments
1	Recipient of the prestigious " <i>L'Oreal UNESCO Award for Woman in Science Middle East Fellowship, 2018</i> "	L'Oréal foundation in association with UNESCO – France	28 th of November 2018	Recognition to significant contribution to Science & actively promoting it both locally & internationally. Received swiping media coverage locally & globally
2	Best Paper Award	Organizing committee of ICREGA'2016 conference Belfort - France	February 8-10 th 2016	Best paper in the 3rd International Conference on Renewable Energy: Generation & Application “ICREGA 2016” conference for research on renewable energy
3	Best paper award	Dubai, UAE	30 th -31 st , December 2016	Best presented paper in the 8 th International Conference on Chemical, Agricultural, Biological and Environmental Sciences (CABES)
4	TEyD; Tell Everyone your	University College London, UK	2011	Received a monetary prize for winning in the sharing science competition

	Dissertation competition			organized by the UCL Public Engagement Unit (Refer to Attachment TL1.4.2A)
5	Best Research Poster Competition	University College London, UK	2011	Received a monetary prize for winning the “Best Research Poster Competition” organized by the graduate school at UCL (Refer to Attachment TL1.4.2A)
6	Strictly Come Science Competition	University College London, UK	2010	Received a monetary prize for winning in the science competition that was part of the Institute of Structural and Molecular Biology symposium for sharing research topics at UCL (Refer to Attachment TL1.4.2A)

3. University and Community Services

3.1 Active Participation in University and Community Services Activities

3.1.1 Organization of Workshops, Mentorship and Training

S.N.	Event	Date	Role
1	“Edlal” an on-line Arabic platform with over 20,000 registered participants	February 2018	Prepared and shared an on-line workshop on the “ <i>Importance of life skills in the 21st century</i> ” for an Arabic educational platform with over 20 thousand users across the Arab world. People who take the course are awarded a certificate. The workshop received numerous positive feedback both locally & Internationally.
2	منافع Oman Animal & Plant Genetic Resource Center (2 day workshop)	23-24 February, 2018	Coached in a 48 hrs ideathon event for 5-7 teams of Omani youth with products that needed development Link to Evidence
3	Environmental Society of Oman (ESO) and Emirates Environmental Group	2016	Actively supervised three students from outside college of science in an international environmental competition.

3.1.2 Participation in Departmental / College / University Committees

S.N.	Committee	Academic Year / Qarar Issue Date	Role	Level
1	Social Activities Committee	2014-2015 2015-2016 2016-2017 2017-2018 2018-2019	Chair	Departmental
2	Safety & Security	2014-2015 2015-2016		
3	Student-Staff Liaison Committee	2014-2015 2015-2016 2016-2017 2017-2018		

		2018-2019		
4	Student Project Evaluation	2014-2015 2015-2016	Chair	Departmental
6	Special Advisors	2017-2018 2018-2019	Member	College
7	Safety & Security	2015-2016		
8	Staff-Student Liaison Committee	2014-2015 2015-2016 2016-2017 2017-2018 2018-2019		
9	Social Activities	2015-2016 2016-2017 2017-2018 2018-2019		

3.2 Active Participation in Areas Not Directly Related to Research and University Teaching and Learning

3.2.1 International Initiatives

S.N.	Inviting Body – Event type	Date	Role
1	Harvard Business School <i>4th annual HBS crossroads conference</i>	April 25 th 2016 UAE	Invited speaker at the Harvard Business School conference entitled “ <i>4th annual HBS crossroads conference</i> ”. First Omani to be an invited speaker at the “Harvard Business School crossroad conference” to discuss “ <i>Woman Education in STEM</i> ”. A very successful talk that lead to a lot of networking and collaborations. My international participation gained a lot of local interest and was covered extensively in the media. (Refer to Attachment CS 3.4.2)
2	MIT Technology Review and Dubai Future Foundation <u>International judge</u>	August 2019 UAE	Handpicked by MIT Technology Review & Dubai Future Foundation to be an international judge for the “Innovators Under 35 competition” IU35 – 2019. As a judge for MIT I am expected to select the best and most innovative candidates to win the IU35 prize. My nomination will be sent to MIT Boston. Link to Evidence
3	IMD (Top business school in the world) IMD Business Forum	29 th March, 2018 Dubai UAE	As a millennial academic who teaches millennials, I was invited by one of the top and most prestigious business schools in the world “ IMD ” to give a talk with the title “ <i>Engaging and empowering the millennials</i> ” that was addressed to IMD alumni in the IMD Business Forum. Link to Evidence

4	Invited speaker by a US based company “Localized”	29 th September, 2020 USA	As a thought leader and local speaker, I was invited to deliver a talk to global audiences on Localized that offer free content for the youth across the globe. The topic will be introducing the concept of “IKIGAI”, the Japanize definition to happiness and skills for future markets.
5	-The Pakistan Society of Training & Development -RISing 10 th Woman in Business and Leadership Conference (WIBCON).	25 th April, 2018 Lahor Pakistan	Keynote speaker as a role model for Woman in the Middle East. The talk was addressed to an extraordinary audience of over 1000 female executives, CEO’s, top managers and school and university students in one of the country’s largest female focused conferences in the world. Link to Evidence
6	Invited speaker by “Dubai Future Foundation” overseeing the global platform “ <i>Popular Science</i> ” to give an online webinar	April 2 nd , 2020 Dubai UAE	Invited as a thought leader to share my science, research, and innovation ideas with the general public on an online zoom meeting that lasted over 2 hours with over 800 participants from across the Arab world attending virtually.
7	Invited speaker by “Science Week” to give an online webinar	August 23 rd , 2020 Egypt	Invited as a thought leader to share my thoughts on “ <i>The Future of Research and Development in the Arab World</i> ” with the general public on an online zoom meeting with over 3400 participants from across the Arab world attending virtually.
8	Invited speaker by “Global Shapers Community Khobar and Sipchem” Saudi Arabia to give an online webinar	August 12 th , 2020 KSA	Invited as a thought leader to share my thoughts on “ <i>The skills needed in the 4th industrial revolution and the future of jobs</i> ”. This talk was targeted for Young Global Shapers selected by World Economic Forum and the invite was invitation by World Economic Forum (WEF) .
9	Invited by the “World Economic Forum - WEF” to facilitate discussion sessions for Young Global Leaders during the YGL virtual summit	August 17 th , 2020 World Economic Forum (WEF) Geneva	Hand picked by the World Economic Forum to facilitate a discussion forum in the first virtual Young Global Leaders forum. The feed back on my facilitation skills from WEF was heart warming and I received repeat orders to facilitate although I had joined WEF only few months ago. It’s worth noting that I was invited to run 3 sessions for WEF within the first few months of joining them as a Young Global Leader and they have shown a lot of appreciation for my energy and contributions.
10	Invited speaker for a private event at Durban Institute of Technology	15 th July, 2018 South Africa	Invited speaker by Durban Institute of Technology to address the postgraduate students (~30-40 postgraduates) on study skills, achieving their goals in life and overcoming hardship. Link to Evidence
11	Invited by Dubai Chamber of Commerce & Industry From office of HH sheikh Mohammed Bin Rashid (prime minister of UAE and Ruler of Dubai)	31 st October 2018 Dubai UAE	Invited speaker to deliver a talk and participate as a panelist at the Dubai Islamic Economy Development Centre. The conference was attended by over 2500 delegates from 84 countries and my talk was followed by a lengthy interview on an UAE podcast.

12	- Massachusetts Institute of Technology (MIT) - Mentor and Coach	April 2017 UAE	Invited by MIT to mentor and coach 80 finalist teams for the MIT Pan Arab entrepreneurship program held in Oman.
13	Featured in an article with the title “BREAKING THE GLASS CEILING” from “explore parts unknown” global magazine	7 th June 2017 KSA	Covered extensively in “explore parts unknown” global magazine where a well know author & photographer from Saudi Arabia (Tasneem Alsultan) visited my residence to conduct an interview as an Omani female role model in STEM and a motivational speaker and shared it in this global magazine. Link to Evidence

3.2.2 National Initiatives

3.2.2.1 High level National Consultancy

S.N.	Inviting Body – Event type	Date	Role
1	National Defense Collage كلية الدفاع الوطني	22 – 27 February 2020	Work closely with military and other government personals for a week on revising and enhancing national strategies for the country before raising them to his majesty the Sultan of Oman. In alignment with Oman vision 2040.

3.2.2.2 Jalasat Mulhmoon جلسات ملهمون (A Personal Original Initiative)

Jalasat Mulhmoon, is an original and personal initiative that I have created & launched purely for community service and specifically for the Arab youth. The initiative is based on offering inspiring motivational and learning sessions to the youth and the initiative is driven by myself and is run with a voluntary qualified team of 20 Omani youth.

The aim of these sessions are to host high achieving, young, and successful figures from around the Arab world to share their outstanding and fruitful experience in achieving success. The youth-to-youth sessions are well-developed to be a unique platform for interesting conversations and positive thoughts. By doing so, the sessions not only inspire young people to achieve their goals in life, but also to make them share their success stories with others. Organizing a session per semester, **Jalasat Mulhmoon** aims to reach as large as possible number of students especially those who are in the beginning of their academic life or about to start their careers.

Initiative objectives include: Presenting successful Arab youth models to the Omani youth, inspiring and encouraging young people to set goals and work towards achieving them, making youth fully aware of finding alternatives and turning challenges into opportunities, contributing in creating open minded youth guiding them to the road of success.

First Session: Took place on the 7th of November, 2018 hosting Lubna al Khamis from Saudi Arabia who is the founder of Abajoura podcast, was extremely well received and attended with an audience of over 700 people which is beyond the maximum capacity for the Conference Hall at SQU.

Second Session: Took place in the Roman theatre at GUtech on the 10th of April, 2019 witnessed a high presence of about 500 people. The guest of this distinguished session was Mufeed al Nuwaiser, the Saudi media specialist and the host of “Min al Sufer” program aired on MBC. Attracting a significant segment

of youth, the #Jalasat_Mulhimoon hashtag was a trend on twitter the day of this session. The two previous sessions saw attendance of high-ranked, academic and media specialist figures, along with prominent influencers in social media specialized in different areas.

*Attached are photos from previous sessions and examples for the audience feedback on the social media.

The next session taking place on the 28th of October 2019 with 4 renowned scientist from the Gulf is booked to take place in the Cultural Hall at SQU under the patronage SQU VC, HE Dr.Ali Bimani and an expected audience of 3000 youth from across the country.

3.2.2.3 Tedx talk

Area of Participation	Date and place	Comments
Invited to deliver a TEDx talk Muscat entitled “ <i>Youth of today, leaders of tomorrow</i> ”	2 nd May, 2016 Shangri-La – Muscat Oman	Invited speaker to speak on this global platform. The talk was attended by over 200 people and the talk received over 16K views on YouTube! Link to Evidence

3.2.2.4 Invitations from Ministries, Government Agencies and Private Sectors

S.N.	Area of Participation	Date and place	Comments
1	Invited by Oman Investment Authority to conduct an on line workshop	30 th September, 2020 Online	Invited to conduct a short talk/workshop on Effective collaboration in the workplace and its importance during integration.
2	Personal invite by the undersecretary of ministry of Environment and Climate Affairs Najeeb Al Rawas to speak about “ <i>Future of jobs after Covid 19 changed the dynamics of work</i> ”.	May 13 th , 2020 Online	I took an active part in the 2-hour online panel discussion, discussing digital transformation, future of R&D, Future of work, future of education and Emotional and social intelligence. The event attracted over 100 participants.
3	Invited by the well reputed Majlis Al Khonji to address high government officials from different sectors on “ <i>The Future of Teaching and Learning, and R&D, Lessons from Covid 19!</i> ”	June 20 th , 2020 Online	This 2 hour Zoom Webinar addressed the topic of “Education and Research and Development in Oman and the world post covid 19”. It was very well attended and was informed by the organizers that it was one of the most followed and viewed webinars on there platform and included many International attendance.
4	Personal invite by HE the Minister of Environment and Climate Affairs HE Mohammed Al Tobi to address the ministries staff as an inspirational young Omani figure in a platform called “Khair Jalees”	9 th May, 2019 Ministry of Environment and Climate Affairs	The talk that was deliver was received very well and the hall was full with a lot of interaction. It was also covered by several media platforms including Oman national TV & newspapers Link to Evidence
5	Invited Speaker by Ministry of Sports and Youth	2 nd July, 2019 Sultan Qaboos stadium -Sohar	Addressed 60 young girl’s from across the country. Advised them on their future career and plans and achieving goals & aspirations Link to Evidence
6	Invited speaker by “Sharaka Holdings”	27 th Jun, 2019 Sharaka Holdings	Delivered a motivational session for their staff at Sharaka Link to Evidence

		Oman	
7	Invited by the Royal Court Affairs (Diwan) to take part in the “National Youth Program for Skills Development”	13 th July, 2019 German University /Muscat Oman	Addressed ~150 of our youth aged (15-18 years) where tips and advice on living and studying abroad were shared, discussed the importance of exploring and enjoying the cultural diversity & inclusion, how to maximize gain on academic & personal development & live an enriching experience from all angels. Link to Evidence
8	Talk in my local Gym “Jasmin club” “YES YOU CAN!”	2018 Jasmin Health Club Oman	Motivational talk at my local gym where stories of successes and failure was shared & experiences were shared.
9	Invited by Oman Oil Company (OOC) top management to run the OOC group 1 st Woman’s gathering.	7 th November, 2017 “Crown Plaza Hotel” Oman	Gave a motivational talk in this event that aimed to bring all woman in the OOC group community together under one roof to celebrate them and guide them through their career. The event had a successful turnout of over 150 females from across all sister companies in Oman. Link to Evidence
10	Invited speaker by Petroleum Development of Oman (PDO)	21 st October, 2015 PDO Oman	Gave an inspirational talk for PDO’s female empowerment platform “Hawa”. The speech was about “The beauty of facing our fears “and was attended by over 200 of PDO’s staff members during the Omani woman day. The event was featured in PDO’s reports and website
11	Invited by Environmental Society of Oman (ESO) to give an evening seminar to general public	15 th Jun, 2015 PDO Oil and Gas Exhibition Oman	Invited by the Environmental Society of Oman (ESO) to give a public seminar on the potential of biofuels as an alternative energy resource in Oman.

3.2.2.5 Invitation from within SQU

S.N.	Area of Participation	Date and place	Comments
1	Invited speaker from Vice Chancellors office for a special event "تفاعل"	1 st November, 2016 SQU – Oman	Addressed 100’s of parents of SQU fresh intake students in a newly launched program "Engagement" تفاعل launched by Vice Chancellors office. Link to Evidence
2	Invited motivational Speaker for SQU program “ <i>Excellence for All</i> ”	4 th December, 2018 SQU - Oman	Motivational talk to over 100 SQU students speaking about SQU life, best practices of study and work/life balance.
3	Invited motivational Speaker for “ <i>Inspirations</i> ”	27 th November 2017 Al Andalose Park - SQU Oman	Invited motivational speaker via ES TALKS platform organized by Engineering Society for over 100 students (Public event).
4	Motivational talk with the title “ <i>What doesn’t kill you makes you stronger</i> ”	2 nd March, 2016 SQU	Motivational talk to the Omani youth from inside and outside SQU addressing and unleashing the potentials of hundreds of students. The talk had excellent responses that it

			was covered in the local newspapers next day. (Refer to Attachment CS 3.4.2)
5	Several national inspirational & motivational talks by invitation	Years 2015-2016	Given motivational talks to the Omani Youth from inside and outside SQU addressing and unleashing the potentials of hundreds of the countries youth both inside and outside SQU.

3.2.2.6 Diplomatic Engagements

S.N.	Event	Inviting body	Date and Place
1	Selected by the Arab Gulf State Institute in Washington to serve as a Board Member to assist in a better understanding and fostering international collaborations between Gulf States and the USA	AGSIW - USA	A 5 year term (2020-2025)
2	Private invite to meet and greet HE Mariya Fernanda, Minister of Foreign Affair of Ecuador and President of the United Nations General Assembly for the 73rd session	Oman Woman Association Muscat - Oman	24 th January, 2019
3	Handpicked as one of the " <i>Young Arab Leaders</i> " to meet His Royal Highness, Princes Charles of Wales	British Council in association with British Embassy	6 th November, 2016 Al- Bustan Place Muscat – Oman Link to Evidence
4	Personal invite to meet HE Alistair Burt, UK MP and UK Middle East minister of foreign affairs to discuss woman in leadership positions in higher education being seen as a role model for Omani woman in science	British Embassy – Oman	2018 Hormoz Hotel Oman
5	Meeting & greeting France Ex-president Nicolas Sarkozy	New York University Abu Dhabi	March 2018 University of New York Abu Dhabi UAE
6	US embassy deputy ambassador visited my office to congratulate me for winning the L'Oréal UNESCO award in science and the U.S Embassy Muscat tweeted about my achievements in their official social media pages	U.S Embassy Oman	December 2018 My office - SQU

3.3 Administrative Positions and/or Chairing Committees

3.3.1 Administrative positions

S.N.	Administrative Position	Period	Place
1	Acting for the HoD	During HoD Leave	Biology Department
2	Coordinator of BIOL2101	2018 - current	Biology Department

3.4 Popularization, Dissemination and Simplification of knowledge

3.4.1 International Media Talks and Interviews

S.N.	Media	Date & Place	Comments
1	Several interviews and interviews throughout 2020	Zoom online Live Instagram	Invited several times by Student groups and National Youth Commission to deliver motivation and inspirational talk to students and youth in general throughout 2020. www.lamyaaalhaj.com
1	Several UAE and gulf newspapers and magazines	28 th November 2018 UAE & on UNESCO and L'Oréal news, articles & social media platforms	Being a winner of the <i>L'Oréal-UNESCO Award for Woman In Science</i> and gaining the Middle East fellowship for 2018 was extensively covered in many media platforms nationally and Internationally Link to evidence 1 Link to evidence 2 Link to evidence 3
2	Mon Carlo global radio Interviews	France 2018	Invited to speak in a lengthy discussion live “on air” with “Mont Carlo International Radio” that has a follower’s database of ~7 million across the world which was a perfect platform to highlight the status, progress and development of R&D in Oman & SQU specifically Link to evidence
3	French Newspaper	10 th October 2014 France	Appearance in the French daily newspapers after being interviewed by the French press to understand the current and future plans SQU/Oman has for establishing biofuels in the region.
4	French Magazine	17 th November 2014 France	Interviewed by French journalists describing my research and general, the status of research in Oman and the role of Omani woman in R&D.
5	Fanar Media	December 4 th , 2018 MENA	Invited to speak about the status of female leadership in higher education in Oman. I highlighted the privileges we have in Oman to climb up the ladder under the care and attention given to Omani woman by His Majesty the Sultan Qaboos. Fanar Media is a media platform that focuses on Education, Research and Culture and has a wide based audience. Link to Evidence
6	SciDevNet MENA	16 th October, 2018 MENA	Invited by SciDevNet MENA to share my science to the “Middle East and North Africa Region” via a detailed interview. Link to Evidence
7	Make a Difference platform (MAD talks)	May 2016 Dubai UAE	Invited by MAD talks to share my aspirations as n Omani female role model in higher academia and research Link to evidence

3.4.2 National Media Talks and Interviews

S.N.	Media Type	Media Title	Date	Comments
1	Oman TV Live	Min Oman	November 2018	For Winning the L'Oréal UNESCO Award for woman in Science Middle East fellowship 2018
2		Qahwat Al Sabah	6 th January 2016	TRC grant update: Shared research team’s idea & progress on the production of biodiesel from waste date pits

				Link to Interview
3		Qahwat Al Sabah	2017	PDO contract update: Shared our research team's latest findings on production of biodiesel from waste date pits
4		Qahwat Al Sabah	17 th October 2017	Oman Woman Day Link to Interview
5		Oman news	12th July 2018	News coverage of my PDO research contract via Ejad platform Evidence to news link
6	Newspapers	Oman observer	2017 – Microalgal Biofuel Production	Invited to share my work and progress in the fields of research, workshops & motivational talks on several national newspapers Link to L'Oréal UNECO clip explaining my research Link to evidence 1 Link to evidence 7 Link to evidence 2 Link to evidence 8 Link to evidence 3 Link to evidence 9 Link to evidence 4 Link evidence 10 Link to evidence 5 Link to evidence 11 Link to evidence 6 Link to evidence 12
7		Al Watan - Anwaar	5 th Jan 2015 (issue 360)	
8		Anwar	5 th January, 2015	
9		Horizon	30 th January, 2015	
10		Shabiba	December 2014	
11		Al Watan	14 th March, 2016	
12		Shabiba	1 st March 2016	
13		Oman	1 st March 2016	
14		Oman Observer	18 th September 2019	
15		Oman daily observer	17 th September 2018	
16		AL Takween Magazine	August 2018 issue (34)	Lengthy interview with the title “A Made in Oman Biofuel” describing findings on production of biodiesel from waste date pits (Featured article) Interviewed to share some of my life's experiences in a 4 page interview
17	Magazines	Interview on “Her Story” launched by “The Arabian Stories” on “You Tube”	3 May, 2019	Interviewed by HH Sayyed Maya Al Said on “Arabian Stories” to share “Her Story” where I shared my life experiences as an assistant prof, educator and mother of 3 boys with an audience of over 200 enthusiastic people. “Her Story” Celebrates women excelling in different fields and I was honored with a trophy and a recorded interview in this event for my excellence in Science. Link to Evidence
18		Al Waha	June 2016 Issue (99)	Coverage on my participation as the first Omani invited guest speaker and panelist at Harvard Business School cross Road conference
19	Newsletter	Several local on-line news articles	November 2018	For Winning the L'Oréal UNESCO Award for woman in Science Middle East fellowship 2018 Link to 3 evidences

20		Co-express	Fall 2015	Sharing my news on research developments , conference participation and community service
21	Radio Interviews / Shows	90.4 FM		My radio program entitled “The Art of Living”
22		Muscat FM	July 2019	Oman National day Link to interview
23		AL Wisal FM	2019	45 min Interview on “Leadership Parenting”
24		Hi FM	November 2018	Coverage on my participation as the first Omani invited guest speaker and panelist at Harvard Business School cross Road conference
25		AL Wisal FM	28 th of November 2018	Two hours long interview with Moosa Al Fari on winning the L’Oréal UNESCO award for woman in science middle east fellowship 2018.
26		Muscat FM	2017	Interviewed to share tips on effective time management

3.4.3 School Engagement Activates

S.N.	School Engagement	Period	Role
1	The Sultan’s School Private School	25 th February, 2019	Motivational speaker to all of The Sultan’s School’s students during general school assembly.
2	Zahrat Quraish Government School	13 th March, 2019	Motivational speaker to the school’s students during general school assembly.
3	Teaching Learning Communities Private School (TLC)	14 th October 2015	Organized a visit for 3rd grade students from TLC private school to the physics department at SQU to learn about the concept of "Light, reflection and refraction". The event was run in collaboration with the Physics department. (Refer to Attachment TL 3.4.4)
4	Teaching Learning Communities Private School (TLC)	11 th November, 2015	Because of the inspiration, enthusiasm and excitement that was received in the first visit of TLC school children (S.N.3) There was a follow up request for another similar visit for 6 th Grade students. (Refer to Attachment TL 3.4.4)
5	Teaching Learning Communities Private School (TLC)	12 th of May, 2015	Volunteered to speak to 5 th & 6 th grade school children at TLC international school about my carrier as an academic & researcher at SQU on career day. Such events inspire the children and sparks their interest in dreaming big and aspiring high. The students were very motivated and inspired (Refer to Attachment TL 3.4.4)

3.4.4 My Personal Radio Show

Designed and hosted a radio program on Oman English FM 90.4 titled “*The Art of Living*” which discusses topics of vital importance especially to the youth and the community as whole. The radio program was initiated in 2015 by myself and colleague Dr. Wail Al Harrasi and was running live for 2 years and until recently, the recorded sessions were still being played on the radio. **(Refer to Attachment CS 3.4.4)**