

Prof. Ahmed Sulaiman Al-Harrasi

- ✓ Vice Chancellor for Research, Graduate Studies, and External Relations, UoN
- ✓ Founder & Chair -UoN Chair Natural and Medical Sciences Research Center
- ✓ Professor of Organic Chemistry
- ✓ Adjunct Professor- University of Southampton, UK, 2012-2015
- ✓ Named in Stanford University's global list of top 2% Scientists in year 2019-20 & 2020-21

**College of Arts & Science, Department of Biological Sciences and Chemistry,
University of Nizwa | Sultanate of Oman**

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- Name: **Ahmed Al-Harrasi**
- Date of Birth: 13-10-1974
- Nationality: Omani
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- Google Scholar: <https://scholar.google.com/citations?user=1O6jEBEAAAJ>
- Researchgate: <https://www.researchgate.net/profile/Ahmed-Al-Harrasi>
- Wikipedia: https://en.wikipedia.org/wiki/Ahmed_Al-Harrasi
- Languages Known:
 - ✓ Arabic: (Mother tongue)
 - ✓ English: Fluent in written and spoken English
 - ✓ German: Good in written and spoken German

1. Education

Certificate	Award	Duration	School/University
Post doctorate in Chemical Biology	Fulbright Award	2008-2009	Cornell University/USA
PhD in Synthetic Organic Chemistry <i>Summa Cum Laude</i>	DAAD Award	2002-2005	Freie Universität Berlin/ Germany
MSc in Synthetic Organic Chemistry <i>(course work + research)</i>	SQU Scholarship	2000-2002	Freie Universität Berlin/ Germany
BSc Chemistry		1997-2000	Sultan Qaboos University/ Muscat/Oman
B.Ed. Chemistry/Physics		1993-1997	Sultan Qaboos University Muscat/Oman

2. Research Activities

2.1 Major Achievements

Founder of UoN Chair of Oman's Medicinal Plants and Marine Natural Products, now known as Natural and Medical Sciences Research Center (NMSRC) with a budget = 9,748,992.36 USD

The University of Nizwa (UoN) envisioned this chair and drew necessary implementation plans that emphasized dynamic sequential implementations and both internal as well as external funding. As a consequence, the UoN built and furnished required research facilities and labs, recruited highly qualified researchers, and capitalized effectively on its international networks.

The University of Nizwa has created this chair as a vital vehicle in delivering its research strategy's objectives among other means including research teams and research centers. This chair shall focus on medicinal plants and marine natural products. Accordingly, it has been named University of Nizwa Chair on Oman's Medicinal Plants and Marine Natural Products. Indeed, it comes as a direct response to the research strategy of the Sultanate of Oman that aims at creating an innovation culture where capacities are being built, collaboration and networking among researchers, scholars and institutions are being forged, and where innovation outcomes are transformed toward social economic growth. This new Chair embodies all those noble objectives.

This five-year Programme is set to further build on Omani excellence in the chemistry, pharmacognesy and pharmacology of medicinal plants and marine natural products of Oman. All of which are of immense economic potentials. No doubt, this chair will boost knowledge transfer, enhance Omani human resource building, and strengthen scientific bridging between Oman and other countries. The chair shall cater to various needs of the country in basic as well as applied and specialized areas of natural products research and education related to the chair scope of activities.

Oman is endowed with rich biodiversity both marine and terrestrial that has acclimated to the arid climate. Its agro systems both traditional and conventional encompasses a wide range of crops including herbs, vegetables, fruits, grains, and forges. Its mountains, villages, valleys, and coastline are alive with indigenous plants, animals, and species. This chair is pioneered by devoted researchers. Located at the University of Nizwa, our scientists enjoy tremendous opportunities of investigating numerous species growing in Jabel Al-Akhdar as well as other parts of Oman. Under the umbrella of the UoN Chair of Oman's Medicinal Plants and Marine Natural Products we are discovering lead compounds from medicinal plants as well as marine species of Oman by isolation through chromatographic techniques including CC and preparative HPLC followed by extensive spectroscopic analyses using 1D and 2D NMR, IR, MS and when possible, through X-ray diffraction analysis. Our research activities also include microbiology, pharmacology, and molecular biology research. We are also interested on drugs for cancer therapy. In addition, we are involved on remediation of heavy metals contamination in Oman using extremophilic endophytes. Our recent research topic focuses on plant DNA barcoding.

National Chair in Materials Science and Metallurgy with a budget = 13,319,320.80 USD in Collaboration with the University of Cambridge

This proposal for the creation of a Chair in Materials Science and Metallurgy at the University of Nizwa comes in response to the research strategy of the Sultanate of Oman that aims at creating an innovation culture where capacities are being built, collaboration and networking among researchers, scholars and institutions are being forged, and where innovation outcomes are transformed toward social economic growth. This new Chair embodies all those noble objectives. The creation of the Chair as a joint effort between the University of Nizwa and the University of Cambridge comes as an appreciation of His Majesty Sultan Qaboos bin Saeed endowed chair of Modern Arabic and His Majesty's endowed chair of Abrahamic Faiths and Shared Values at University of Cambridge. This joint initiative by the University of Nizwa and the Department of Materials Science and Metallurgy at the University of Cambridge in the United Kingdom, as a five-year program, is set to build further on Omani excellence in the development of Extractive Metallurgy, Electrometallurgy, and Energy Materials and Devices. All these possess immense economic potential. No doubt, this new Chair will boost knowledge transfer, enhance Omani human resource building, and strengthen scientific bridging between Oman and United Kingdom.

3. Teaching Activities

3.1 Courses Coordinated and Taught

Course Code	Course Name	Semester	No. of times taught	Role	Students Intake	Nature of the course	University
CHEM 602	Synthetic Methodologies & Stereochemistry	Spring 2016,	1	Coordinator & Instructor	4	Theory & Lab	University of Nizwa
CHEM 422	Identification of Organic Compounds	Spring 2013, Fall 2012, Fall 2011, Fall 2010	4	Coordinator & Instructor	10-25	Theory	University of Nizwa
CHEM 325	Advanced Organic Chemistry Laboratory	Spring 2013, Spring 2012, Fall 2010, Fall 2009	4	Coordinator & Instructor	5-20	Advanced laboratory	University of Nizwa
CHEM 499	Chemistry Project	Fall & Spring 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007	4	Coordinator & Instructor	5-10	Research Project	University of Nizwa
CHEM 275	Organic Chemistry II	Fall 2012, Fall 2011, Summer 2010, Spring 2010, Fall 2009, Spring 2008, Fall 2007, Spring 2007	8	Coordinator & Instructor	35-60	Theory & Laboratory	University of Nizwa
CHEM 280	Edible Oil Chemistry	Spring 2011, Spring 2010	2	Coordinator & Instructor	10	Theory	University of Nizwa

CHEM 265	Organic Chemistry I	Summer 2010, Fall 2009, Spring 2008, Fall 2007, Spring 2007	5	Coordinator & Instructor	60-120	Theory & Laboratory	University of Nizwa
CHEM 101	General Chemistry I	Summer 2006	1	Coordinator & Instructor	120 two sections	Theory and Laboratory	University of Nizwa
CHEM 386	Petroleum Chemistry	Fall 2007	1	Coordinator & Instructor		Theory	University of Nizwa
CHEM 3321	Introduction to organic chemistry	Fall 2006	1	Instructor	60	Theory and Laboratory	Sultan Qaboos University
CHEM 5000	Chemistry Project	Spring 2008, Fall 2007, Spring 2007, Fall 2006	4	Instructor	2	Research Project	Sultan Qaboos University
CHEM 2101	General Chemistry I	Spring 2006	1	Instructor	60	Theory and Laboratory	Sultan Qaboos University
CHEM 2091	Introduction to organic chemistry	Spring 2003	1	Instructor	60	Theory and Laboratory	Sultan Qaboos University
CHEM 011	General Chemistry for Foundation Program	Summer 2008, Winter 2009, Summer, 2010, winter 2010, Summer 2011	5	Coordinator & Instructor	30-50	Theory and Laboratory	German University of Technology in Oman
CHEM 022	Chemistry for Geosciences	Winter 2009	1	Coordinator & Instructor	35	Theory and Laboratory	German University of Technology in Oman

3.2 Curriculum Development

- Designed a curriculum for CHEM 602 Synthetic Methodologies and Stereochemistry
- Designed a curriculum for CHEM 480 Edible Oil Chemistry
- Designed a curriculum for CHEM 422 Identification of Organic Compounds
- Designed a curriculum for CHEM 265 Organic Chemistry I
- Designed a curriculum for CHEM 275 Organic Chemistry II
- Designed a curriculum for CHEM 422 Identification of Organic Compounds
- Designed a curriculum for CHEM 386 Petroleum Chemistry 2007
- Designed a curriculum for CHEM 380 Industrial Chemistry 2007
- Designed a curriculum for CHEM 101 General Chemistry I
- Designed a curriculum for CHEM 011 General Chemistry for Foundation Program-Oman German University of Technology 2008

3.3 Preparation of Laboratory Manuals and Lecture Notes

- Prepared the laboratory manual for CHEM 265 Organic Chemistry I
- Prepared the laboratory manual for CHEM 275 Organic Chemistry II
- Prepared the laboratory manual for CHEM 325 Advanced Organic Laboratory
- Prepared the laboratory manual for CHEM 101 General Chemistry I
- Prepared the laboratory manual for CHEM 011 General Chemistry for foundation studies

3.4 Final Year Projects Supervision

- Asiya Nasser Al-Azizi, Proximate Assessment and Biological Screening of *Juniperus excels*, 2015
- Maryam Al-Jabri, Proximate Analysis and Chemical Composition of *Dodonaea viscosa* grown in Oman, 2015
- Bashair Said Hilal Al-Dawdi, Phytochemical Investigation and Biological Activities of *Cleome droserifolia*, 2015
- Jahina Juma Said Al-Skaiti, First and Reproducible Pyrolysate Products from Frankincense Smoke: Thermal Aromatization of Boswellic Acids, 2014
- Iman Sultan Hamood Al-Hadhrami, First and Reproducible Pyrolysate Products from Omani Frankincense Smoke: First Evidence of Thermal Aromatization of Boswellic Acids, 2014
- Sara Ahmed Hamood Al-Hadhrami, First and Reproducible Pyrolysate Products from Omani Frankincense Smoke: First Evidence of Thermal Aromatization of Boswellic Acids, 2014
- Jawaher Mohammed Al-Sahai, Phytochemical Investigation of *Teucrium muscatense*, 2014
- Zahra Rashid Said Al-Hashmi, First and Reproducible Pyrolysate Products from Omani Frankincense Smoke: First Evidence of Thermal Aromatization of Boswellic Acids, 2014
- Aisha Al-Balushi, anti-microbial activities of 32 varieties of dates
- Laila Al-Shaibani, Isolation and Structure Elucidation of AKBA, 2013
- Marwa Al-Alawi, Isolation and Structure Elucidation of ABA, 2013
- Khalid Al-Riyami, Physicochemical Investigations of Frankincense, 2011
- Fatma Al-Maqbali, Isolation of boswellic acids from frankincense, 2011
- Zainab Al-Qasmi, Isolation of boswellic acids from frankincense, 2011
- Salma Al-Matani, Microwave distillation of boswellia sacra resins, 2011
- Maryam Al-Badi, Nutritive analysis of frankincense resin, 2011
- Ahlam Al-Hadidi, Synthesis of New coumarin Derivatives, Fall 2010
- Iman Al-Hosni, Synthesis of Coumarin 4 Derivatives, Fall 2010
- Mubarak Al-Ghafri, Chemical Composition of Varieties of Date Kernels
- Asma Al-Battashi, Phytochemical Analysis of *Boswellia sacra*, 2009
- Azza Al-Kalbani, Synthesis of New Coumarin Derivatives, 2007-2008, SQU
- Zainab Al-Hinai, Synthesis and Luminescence Properties of a Novel Label Based on Coumarin Nucleus, 2007 (co-supervisor), SQU

- Jan Jebers, Stereoselective Synthetic Approach to a 1,2-Diaminosugar Derivatives, 2005, Freie Universität Berlin
- Torsten Schwich, Lewis Acid Promoted Intramolecular Cyclisation of 1,2-Oxazines: Synthesis of Highly Functionalised Enantiopure Pyran Derivatives, 2004, Freie Universität Berlin
- Moritz Kühnel, Intramolecular Rearrangement of 3,6-Dihydro-2H-1,2-Oxazine, 2004, Freie Universität Berlin
- Markus Gerhard, Synthesis of 1,2-Oxazine Derivatives from D-Glyceraldehyde Derived Nitrone and 2-Trimethylsilylethoxyallene, 2004, Freie Universität Berlin
- Simon Grabowsky, Synthesis of 1,2-Oxazine Derivatives from D-Glyceraldehyde Derived Nitrone and 2-Trimethylsilylethoxyallene, 2004, Freie Universität Berlin
- Nadine Tetzlaff, Synthesis and Reactions of BDA-Protected-Glyceraldehyde derived N-Benzyl Nitrone, 2004, Freie Universität Berlin
- Eda Yegen, Synthesis of syn-1,2-Oxazine Derivatives, 2003, Freie Universität Berlin
- Michal Wieko, Synthesis and Reactions of New Derivatives of 1,2-Oxazines, 2003, Freie Universität Berlin

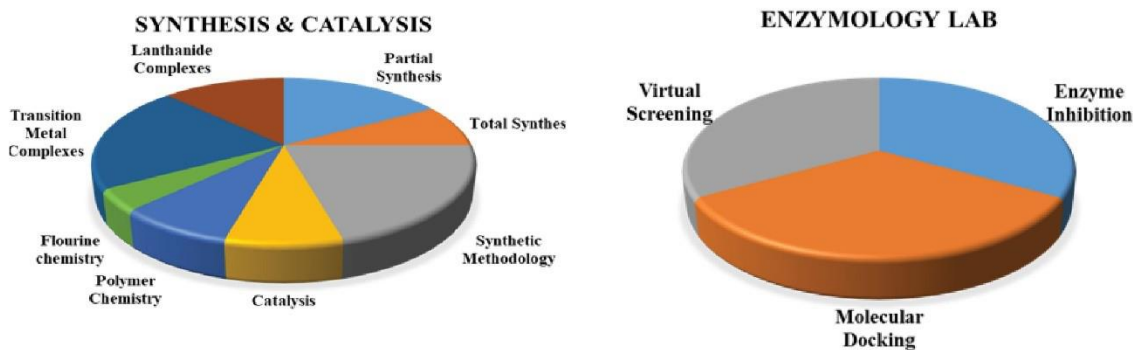
3.5 Degree plans preparations and revisions

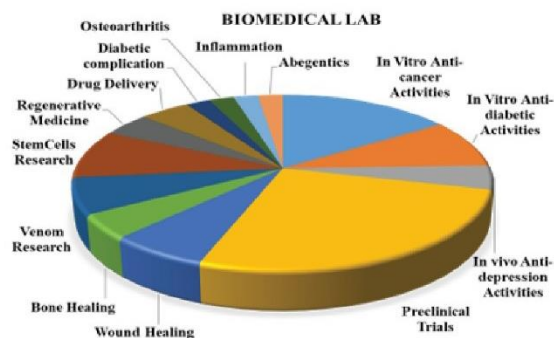
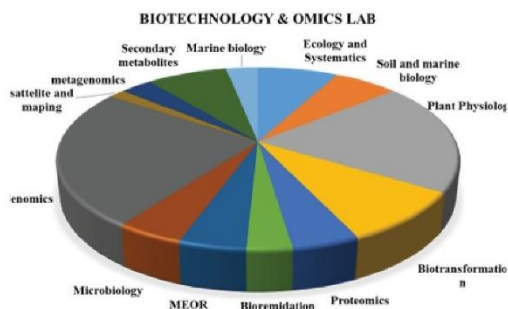
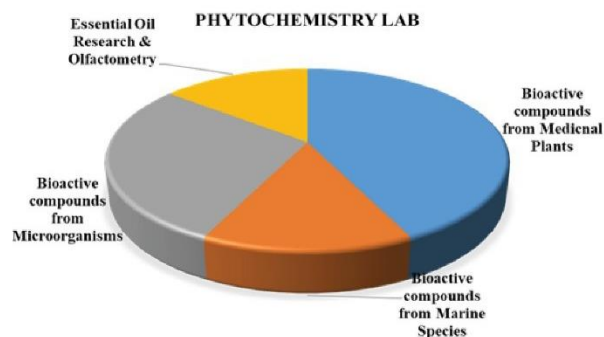
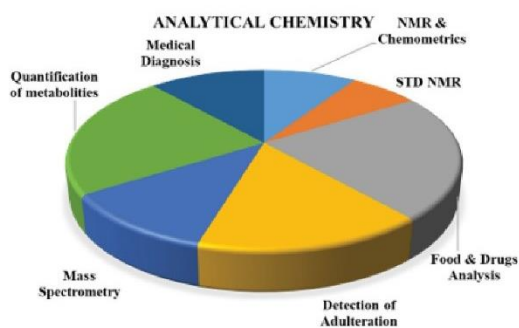
- ✓ Reviewed BSc Chemistry degree plan in 2006 and 2012 by chairing the degree plan departmental committee. I have also contributed significantly to the preparation of the MSc and PhD programs in Chemistry.

4. Professional Experience

4.1 Research Experience and Fund Raising

4.1.1 Research topics





4.1.2 Research & Research Infrastructure

1. **Contributed effectively to rising funds** through funded projects of an interdisciplinary nature. I managed to attract external funds that exceed **7 million USD** from different external sources including but not limited to Oman Research Council, Industrial Innovation Center, GCC CO-funding program and SQU-UoN CO-funding Program.
2. **Attracted highly qualified Omani and international researchers** with outstanding research profiles from world-leading institutes. Those include the full-time researchers and postdocs as a new practice for a focused research, in addition to hiring qualified instrumentalists, instrumental engineers and well-trained technicians.
3. **Established a University of Oxford-University of Nizwa exchange Program.** This unique program allows a flow of researchers from both institutes to conduct joint research projects.
4. **Co-founded** the GCC Co-funding program with 9 GCC universities including Qatar University, SQU, Kuwait University, University of Bahrain, American University of Sharjah, KAUST, KSU and PNU.
5. **Co-founded** the SQU-UoN co-funding program which has successfully funded five research projects jointly with SQU.

6. **Established Natural and Medical Sciences Research Centre (NMSRC)** comprises **12 state-of-the-art research laboratories** with a budget exceeds **18 million USD**. These include Natural Products and Marine Chemistry lab, Synthetic Chemistry Lab, Inorganic Chemistry and Crystallography lab, Analytical Chemistry lab, Mass Spectrometry lab, Biotechnology and OMICS lab, Microbiology lab, Biomedical Sciences lab, Enzymology lab, Stem Cells and Regenerative Medicine lab, In vivo lab and Venom lab. In addition, support facilities were established including Small Animal Facility, Herbarium, herpetarium, Green House and Cosmetic Production Unit.
7. **In collaboration with OAPGRC, established the gene bank of Oman.** This ambitious project hosts the plant, animal and microbial genetic resources of the Sultanate of Oman.
8. **Purchased Major Capital Equipment** that serve the whole Sultanate. In chemistry, these include: Bruker AVANCE-III 600MHz High Resolution FT- NMR spectrometer, Bruker single crystal X-Ray Diffraction (XRD), Powder X-Ray Diffraction (XRD), Agilent Technologies 6530 Accurate Mass Q-TOF LC/MS, PerkinElmer OPTIMA 8000 Inductively Coupled Plasma Optical Emission Spectrometry ICP-OES, Inductively Coupled Plasma-Mass Spectrometry (ICP-MS), Liquid Chromatography-Mass Spectrometry (LC-MS), Gas Chromatography-Flame Detector (GC-FID), Gas Chromatography-Mass Spectrometry (GC-MS), Atomic Absorption Spectroscopy (AAS), Bruker Fourier Transformer Infra-Red spectroscopy (FTIR; TENSOR 37), Perkin Elmer Near Infra-Red (NIR), Bruker SENTERRA II Compact Raman Microscope, Buchi Medium Pressure Liquid Chromatography (MPLC), JAI Automatic Preparative HPLC (Chloroform; JAI), JAI Preparative HPLC (Gradient Solvent System), Agilent Analytical HPLC (Agilent), Milestone New Microwave Essential Oil System (NEOS), Karl Fischer Coulometric Titrator, Microwave Synthesis Reactor (MSR), Kjeldahl Apparatus (KjelFlex K-360), Polarimeter, Cary 100 UV-Vis Spectrometer, PerkinElmer LS-55 Fluorescence Spectrometer (220 VAC), Differential Scanning Calorimeter (DSC), Particle Size Analyzer, Texture Analyzer.

In Biology the following major equipment were acquired through funded projects: QuantStudio™ 5 Real-Time PCR System, Bioanalyzer and Qubit 3.0; Instruments, Next Generation Sequencing setup (IonS5 NGS), Bioinformatics setup, BioFlo 320, next-generation bioprocess control station (Eppendorf USA), Applied Biosystems PCR System, xMark Microplate Absorbance Spectrophotometer, denaturing gradient gel Electrophoresis, Gel Documentation System, Tissue homogenizer, Autoclaves, Refrigerated centrifuges.

In medical research, the following instruments were acquired: IVIS Lumina XRMS In Vivo Imaging System, Guava® easyCyte Flow Cytometry, Inverted and fluorescence microscopes.

9. **The research outcomes of our labs have contributed immensely to the ranking of the university** to place it the second in Oman and the first in "paper per faculty". Various projects have resulted in filing

one patent, publication of 8 book chapters, many scientific reviews, many conference proceedings and more than 400 publications with thousands of citations.

4.1.3 Capacity Building & HR Development

- Freshly graduated Omani PhD students spent their full-time and part-time post doctorate degrees under my supervision.
- 23 PhD exchange students have successfully executed their PhD degrees in our laboratories under my supervision in collaboration with their home institutions.
- 9 MSc Omani students have successfully finished their MSc thesis in our laboratories.
- More than 70 BSc students did their final year project in our laboratories including FURAP-funded projects.
- More than 150 graduates from different higher education institutions in Oman and elsewhere did their 2-6 months training in our laboratories.
- Freshly graduated Omani PhD students spent their full-time and part-time post doctorate degrees under my supervision.

4.1.4 Funded Projects

Investigators	Title	Code	Funder	Budget
Eldeeb, Sami, Ahmed Al-Harrasi , Rostami, Ali Al-Broumi, Mohammed AAl-Thani, Ghani	Producing New Chiral Monolithic Silica Columns for Enantiomeric Separation and Determination by Liquid Chromatography and Liquid Chromatography-Mass Spectrometry	BFP/RGP/CBS/22/002	TRC	41600 USD
Al-Hatmi, Abdullah, Ahmed Al-Harrasi , Al Salmani, Majid Al Rawahi, Ahmed ALhousni, Saif	Antifungal-resistance in medically important fungi	BFP/RGP/HSS/22/181	TRC	52000 USD
Bhatia, Saurabh, Ahmed Al-Harrasi	Development, Characterization, and Microbiological Assessment of Multilayer Edible Films Composites against Food borne Pathogens in Sultanate of Oman	BFP/RGP/HSS/22/007	TRC	25655 USD

Al Amri, Issa, Ahmed Al-Harrasi , Kadim, Isam Rahman, Shaikh Al-Riyami, Khamis Rehman, Dr. Najeeb Al-Sulaimi, Sulaiman	Synergistic inhibitory effects of ursolic acid and boswellic acid on proliferation, apoptosis and invasion in human ovarian cancer cells	BFP/RGP/HSS/22/156	TRC	38740 USD
Ahmed Al-Harrasi , Al Hatmi, Saif, Cunningham, Anthony Johnson, Stephen, Al Harthy, Laila, Hoffmann Timm	Long-Term Population Dynamics and Conservation of the Sacred Frankincense Tree, <i>Boswellia sacra</i> , in Oman	BFP/RGP/EBR/22/021	TRC	52000 USD
Takallou, Ahmad, Ahmed Al-Harrasi , Al Shidhani, Sulaiman Anwar, Muhammad, AVULA, SATYA KUMAR	Transition Metal Catalyzed Synthesis of Bioactive Heterocyclic Cores Through Nucleophilic Addition to Allenes	BFP/RGP/EI/22/168	TRC	44200 USD
Rehman, Dr. Najeeb, Ahmed Al Harrasi , Al-Broumi, Mohammed Khan, Ajmal	Natural Products as Potential Sources for New Drug Leads: A Case study of Selected Omani Medicinal Plants	BFP/RGP/CBS/21/002	TRC	27300 USD
AVULA, SATYA, Ahmed Al Harras , Al Shidhani, Sulaiman Rehman, Dr. Najeeb, Khan, Ajmal	Design, synthesis and molecular modeling of novel 1H-1,2,3-triazole hybrid derivatives of 3-O-acetyl-11-keto- β -boswellic acid and 11-keto- β -boswellic acid: A new class of Anti-cancer/Anti-inflammatory active analogues	BFP/RGP/CBS/21/006	TRC	26520 USD
Al hashmi, Sulaiman, Jamshidi, Fatemeh, Ahmed Al Harrasi , VAKILIAN, SAEID	In situ osteochondral interface regeneration using layer-by-layer 3D-bioprinted scaffold through host stem cell recruitment: In vivo study in the Rabbit model	BFP/RGP/HSS/21/037	TRC	18044 USD
Anwar, Muhammad, Ahmed Al Harrasi	Exploring New Single Molecule Magnets for Next Generation Nano-Electronics	BFP/RGP/CBS/20/057	TRC	35100 USD

Khan, Ajmal, Ahmed Al-Harrasi	The Psychoactive Effect of new Derivatives of Incensole in Neuropharmacological Disorders and their Mechanism.	BFP/RGP/HSS/19/198	TRC	52000 USD
Dr. Tania, Ahmed Al-Harrasi	Solid-Phase Total Synthesis of Peptide and its Analogues to Develop the Structure Activity Relationship	BFP/RGP/CBS/19/127	TRC	50700 USD
Ahmed Al-Harrasi , Rehman, Dr. Najeeb , Khan, Abdul Latif, Al-Broumi, Mohammed, Al Shidhani, Sulaiman	Exploring Incensole, its putative precursors and its derivatives as a new class of anti-depressant drugs: Isolation, Enhancement and Quantification (Part I)	BFP/RGP/CBS/19/220	TRC	52000 USD
Khan, Abdul Latif, Ahmed Al-Harrasi , ASAF, SAJJAD, Ahmed al Rawahi	Genomics and transcriptomics for exploring putative genes involved in incensole, its precursors and derivatives in <i>Boswellia papyrifera</i> and <i>Streptomyces</i> for cembrenoids	BFP/RGP/CBS/19/221	TRC	52000 USD
Ahmed Al-Harrasi , Hussin, Javid,	DEVELOPMENT OF ROBUST NEAR INFRARED SPECTROSCOPIC METHODS COMBINED WITH CHEMOMETRICS FOR PHYSIOCHEMICAL CHARACTERIZATION OF HYDROCARBON FUELS, FROM OMANI PETROCHEMICAL INDUSTRIES	BFP/RGP/EI/18/049	TRC	18200 USD
Khan, Ajmal, Ahmed Al-Harrasi , Rehman, Dr. Najeeb	Anti-diabetics Potential of Boswellic acids and Improvement of their Efficacy by Nanoparticle Formulation and Glycosylation: A Novel Approach for Diabetics	BFP/RGP/HSS/18/018	TRC	7800 USD
Al Salmani, Majid, Alhashmi, Sulaiman, Al-	Cellular and molecular investigations of selected	BFP/RGP/HSS/18/030	TRC	24960 USD

Barwani, Sulayma, Ahmed Al-Harrasi	channelopathies in Omani patients: towards the advancement of population-specific personalised therapies				
Al Sibani, Mohammed, Ahmed Al-Harrasi ,	Enhancement of cross-linking efficiency of hyaluronic acid-based hydrogels via physical entanglements, hybrid macromolecules interaction and ionic electrostatic coacervation	BFP/RGP/HSS/18/020	TRC	17940 USD	
Hussin, Javid, Ahmed Al-Harrasi , Mabood, Fazal, Khan, Ajmal	Phytochemical Investigations, Biological Activity and Quantification of Active Constituents of Euphorbia masirahensis and Euphorbia larica.	BFP/RGP/CBS/18/096	TRC	10400 USD	
Abbas, Ghulam, Ahmed Al-Harrasi , Alhashmi, Sulaiman	Identification of New Promising Pharmacological Agents for the Management of Diabetes Mellitus and Diabetic Complications In Vitro and In Vivo Mice Model	BFP/RGP/HSS/18/001	TRC	13000 USD	
Rostami, Ali, Ahmed Al-Harrasi , Munam, Abdul	Carbon Dioxide and Isocyanate Organocatalysis: A Sustainable Approach in Turning Greenhouse Gas and Toxic Compounds into Chemical Feed stock	BFP/RGP/EI/18/021	TRC	13000 USD	
Rehman, Dr. Najeeb, Ahmed Al-Harrasi , Al-Broumi, Mohammed, Khan, Ajmal	Exploring the Lead Compounds from the Seaweeds of three Omani species; Dictyopteris hoytii, Codium dwarkense and Padina boergesenii for the Development of Drugs Discovery Process	BFP/RGP/CBS/18/011	TRC	13000 USD	
Jamshidi, Fatemeh, Ahmed Al-Harrasi ,	In vivo study of the effect of Acridocarpus Orientalis on breast cancer	BFP/RGP/HSS/18/024	TRC	13000 USD	

Alhashmi, Sulaiman, VAKILIAN, SAEID				
Khan, Abdul Latif, Ahmed Al-Harrasi , ASAF, SAJJAD, Ahmed al Rawahi	Genomic and Physiological Strategies for Ommatissus lybicus de Bergevin (Dubas Bug) on Date Palm (Phoenix dactylifera) in Oman	BFP/RGP/EBR/18/005	SQU	23400 USD
Ahmed Al-Harrasi , Mohammed Al- Marhoon, Khurram Siddiqui	Treatment of renal stones with frankincense (Boswellic acid)	IG/DVC/MRC/19/03	SQU	91,450 USD
Ahmed Al-Harrasi , Sulaiman Al-Hashmi, Issa Al-Amri, Hany Elsayed Marei Mady, Asma Ali Althani	Use of patient-specific induced pluripotent stem cells (iPSCs) to study stroke in Qatar and GCC countries	GCC-2017-004	University of Qatar	240,000 USD
Ahmed Al-Harrasi , Raeid Abed, Fahad Al-Senaf, Huda Mahmoud,	Biotechnological applications of marine biofilms developing on solid surfaces in the Arabian Gulf	GCC-2017-004	University of Kuwait	240,000 USD
Ahmed Al-Harrasi , Liaqat Ali	Biological Activities of Polar Secondary Metabolites from the Polar/Aqueous Extract of <i>Aloe dhufarensis</i>	A/16-17- UoN/01/Chair MPMNP/IF	University of Nizwa	23,313 USD
Ahmed Al-Harrasi , Abdulatif Khan	Mechanisms involved in Resin Production from endemic <i>Boswellia sacra</i>	ORG/EBR/15/007	TRC	497,921 USD
Sulaiman Al-Hashmi, Ahmed Al-Harrasi , Fahad Al-Zadjali	Use of fatal membrane stromal cells for the prevention of graft versus host disease after stem cell transplantation	ORG/HSS/15/006	TRC	636,694 USD
Ahmed Al-Harrasi , Fahad Al-Zadjali, Gilles Guillemen, Noaki Matsuda, Sulaiman Al- Hashmi, Husain Yar Khan,	Exploration of new Acetyl 11-Keto- β Boswellic acid (AKBA) Derivatives as Tumor sensitizing agents	ORG/HSS/14/004	TRC	810,810 USD
Ahmed Al-Harrasi , Liaqat Ali, Lubna Al- Kharousi, Javid Hussain	Exploration of <i>Padina</i> <i>boergesnii</i> from Marine Resources of Sultanate of	A/13-14- UoN/09/Chair MPMNP/IF	TRC	72,765 USD

	Oman as a source of Potential Lead compounds			
Ahmed Al-Harrasi, Ghulam Abbas, Sulaiman Al-Hashmi	Identification of new glucagon agents from natural and synthetic products	A/14-15- UoN/11/Chair/IF	University of Nizwa	72,765 USD
Ahmed Al-Harrasi, Gilles Guillemen, Faruck Hakkim, Javid Hussain	Exploration of new Acetyl 11-Keto- β Boswellic acid (AKBA) Derivatives as Tumor sensitizing agents	A/13-14- UoN/02/Chair MPMNP/IF	TRC	70,166 USD
Fazal Mabood, Ahmed Al-Harrasi, Javid Hussain, Najeen ur Rehman, Abdulatif Khan	Spectroscopic and chemometric Studies of date Palm fruits Grwoing in Sultanate of Oman	A/13-14- UoN/05/DBSC CAS/IF	University of Nizwa	48,206 USD
Zakira Naureen, Ahmed Al-Harrasi, Faik Kantar, Javid Hussain, Abdulatif Khan	Bio-priming with Silicate Solubilizing bacteria for Plant Growth Promotion of Phytopathogens in Selected Omani Crops	A/13-14- UoN/08/DBSC-CAS/IF	University of Nizwa	41,320 USD
Ghulam Abbas, Ahmed Al-Harrasi, Javid Hussain, Hidayat Hussain, Iqbal Choudhary	Discovery of New Antagonists of Glucagon Receptor and New Inhibitors of Protein Glycation	A/13-14- UoN/11/DBSC MPMNP/IF	University of Nizwa	25,467 USD
Abdul Latif Khan, Ahmed Al-Harrasi, Javid Hussain, Syed Gilani, Jae-Ho Shin, In- Jung Lee	Exploration Of Heavey Metal remediating Endophytic Bacteria from Extremophylic Ecosystems in Oman	A/13-14- UoN/01/Chair MPMNP/IF	University of Nizwa	46,257 USD
Ahmed Al-Harrasi, Javid Hussain, Simon Gibbons, Gilles J. Guillemin	Phytochemical Investigations, Proximate Analysis and Biological Investigation of Some Selected Omani Medicinal Plants	ORG/CBS/12/004	TRC	1,495,582.1 7 USD
Ahmed Al-Harrasi, Ahmed Al-Rawahi, Jamal Al-Sabahi, Javid Hussain	Comparative, Physicochemical and Microbiological Investigations of Omani Luban and Related Frankincense Species	ORG/CBS/10/002	TRC 2011-2014	460,879.51 USD

Issa Al-Amri, Ibraheem Mahmood, Abdulaziz Al-Kindy, Ahmed Al-Harrasi	The Effect of incubation temperature on sex determination in relation to reproductive steroid levels	A/09-10-UoN	University of Nizwa 2010	39,802 USD
Ahmed Al-Harrasi , Ahmed Al-Rawahi	Comparative and Phytochemical Study of Omani Luban	A/09-10-UoN/28/A&S/IF	University of Nizwa 2010	36358 USD
Javid Hussain, Ahmed Al-Harrasi	Phytochemical Investigations, Proximate Analysis of Some Selected Omani Medicinal Plants	A/URC/2011-12/CA and S/03/	University of Nizwa 2010	51,036 USD
Yahya Ismail, Ahmed Al-Harrasi	Fabrication of Conducting Polymer based Artificial Muscles and Evaluation of their Actuation and Sensing Characteristics	P-09-10/UoN/29/CA&S/IF	University of Nizwa 2010	22,074.77 USD
Ann Mothershaw, Ahmed Al-Harrasi , Basil Nzeako	Physicochemical Properties and Antimicrobial Activity of Omani Frankincense	SQU	SQU 2010	11,686.64 USD
Salma Al-Kindy, Ahmed Al-Harrasi	Synthesis and Luminescence Properties of a Novel Label Based on Coumarin Nucleus	SQU	SQU 2007	11,686.64 USD
Ahmed Al-Harrasi	The development of a new fragrance using endemic flowers and fruits of Oman	P-2012-001	Ministry of Commerce and Industry	82590 USD

4.2 Supervisory Experience

4.2.1 PhD Supervision

SN	Name	Project	Lab
1	Mohammed Al-Sibani	Chemical & Physical Cross Linking of hyaluronic acid	Synthesis and Catalysis Lab
2	Asma Bani Orabah	Synthesis of AKBA Derivatives	Synthesis and Catalysis Lab
3	Kashif Rafiq	Boswellic Acids from <i>Boswellia sacra</i>	Natural Products Lab
4	Syed Raza Shah	Synthesis of alkali metal complexes	Inorganic Chemistry and Crystallography Lab

5	Maroof Ali	Incense from <i>Boswellia papyrifera</i>	Natural Products Lab
6	Arif Khan	Chloroplast Genome/ Transcriptome sequencing	Biotechnology and OMICS Lab
7	Adil Khan	DNA barcoding of medicinal plants	Biotechnology and OMICS Lab
8	Muhammad Numan	Plant Molecular Biology & Biochemistry	Biotechnology and OMICS Lab
9	Samina Ali	identification of biologically active metabolites	Natural Products Lab
10	Nisar Ahmed	isolation of natural products from <i>Nepeta laevigata</i>	Natural Products Lab
11	Hidayat Ullah	Phytochemical Investigation of <i>Cleome droserifolia</i>	Natural Products Lab
12	Imtiaz Hussain	isolation of bioactive metabolites from medicinal plants	Natural Products Lab
13	Mr. Sajid Ali	endophytic microbial communities	Biotechnology and OMICS Lab
14	Amjad Khan	isolation of bioactive metabolites from medicinal plants	Natural Products Lab
15	Riaz Ahmed	isolation of bioactive metabolites from medicinal plants	Natural Products Lab
16	Aasim Seed	Synthesis of AKBA Derivatives	Synthesis and Catalysis Lab
17	Umair Shamraiz	Synthesis of AKBA Derivatives	Synthesis and Catalysis Lab
18	Wajid Hussain	Synthesis of macrocycles	Synthesis and Catalysis Lab
19	Amjad Ali	plant microbial interaction and plant biotic	Biotechnology and OMICS Lab
20	Fazal Akber	Genetic diversity of <i>Boswellia sacra</i>	Biotechnology and OMICS Lab
21	Farhad Golmohammadi	Synthesis of Heterocycles	Synthesis and Catalysis Lab

22	Kamran Amiri	Synthesis of Heterocycles	Synthesis and Catalysis Lab
23	Hormoz Khosravi	Synthesis of Heterocycles	Synthesis and Catalysis Lab
24	Mrs Farah Jabeen	Quantifications of Bioactive Compounds in Plants	Natural Products Lab
25	Saeed Ullah	Anti-diabetic research	Enzymology Lab
25	Muhammad Waqas	Computational Chemistry and Biology	Enzymology Lab
27	Wajid Zaman	Electrophysiological studies of disease causing mutations in hERG and CFTR ion channels	Biomedical Lab
28	Faiz Ullah Khan	Mechanisms mediated anti-apoptotic effects of (AKBA)	Biomedical Lab
29	Nasir Ali Khan	Role of exogenous GABA and bacteria in crude oil stress tolerance in date palm	Microbiology Lab
30	Muddaser Shah	Isolation of bioactive ingredients of ziziphus qatarense Hadidi: In vitro and Computational Approach	Natural Products Lab
31	Obaid Ullah	Phytochemical investigation and bioactive constituents from <i>Rhazya stricta</i> .	Natural Products Lab
32	Taimoor Khan	Molecular and Biochemical investigation of date palm tolerance towards abiotic stress with silicon and microbial applications	Biotechnology and OMIC Lab
33	Waqar Ahmad	Investigation of drought stress tolerance based transcriptomic responses in 72 wild land races of Omani wheat.	Biotechnology and OMIC Lab
34	Rabia Maqsood	Isolation and biomedical applications of secondary metabolites from <i>Anogeissus Dhofarica</i> .	Natural Products Lab
35	Ahmad Zaib	Cancer Biology Research	Biomedical Lab
36	Anam Rubbab	Synthetic Chemistry Research	Natural Products Lab
37	Muhammad Azeem	Metal complexes of O, N donor.	X-Ray Lab
38	Al-Hasan	Inhibitory immune checkpoints in CD8+ T cells in colorectal cancer + Small molecule inhibitors against PD-1 immune checkpoints	Immunology Lab

39	Mohammad Ali	Inhibitory immune checkpoints in CD4+ T cells in colorectal cancer. + Prediction of novel inhibitors of Cytotoxic T-lymphocyte antigen-4 (CTLA-4) structure	Immunology Lab
40	Hossein Zahedin	Catalysis Chemistry	Synthesis and Catalysis Lab
41	Zahra Bigdeli	Synthesis, characterization, biological screening of novel urea-thiourea derivatives and their potential in chemosensing.	Synthesis and Catalysis Lab
42	Razieh Navari	Synthesis, characterization, biological screening of novel urea-thiourea derivatives and their potential in chemosensing.	Synthesis and Catalysis Lab
43	Arezou Rahimi	Induction of anti-inflammatory immune responses in CLP septic mice using 3D-bioprinted artificial lymphoid tissue	DARIS center

4.2.2 MSc Supervision & Examinations

- Zahra Al-Kharusi, Physicochemical properties and antimicrobial activity of Omani frankincense, 2009-2010. (Co-supervisor).
- Sulaiman Al-Shidani, Synthesis of incensole derivatives as anti-depressant drugs, 2018.
- Mohammed Al-Buromi, FT-NIRS coupled with chemometric methods as a rapid alternative tool for the detection & quantification secondary metabolites, 2018.
- Ahmed Al-Ghafri, NMR Chemometrics, 2019.

4.2.3 Active National and International Collaborators

No.	Name of Collaborator	Institution	Research Area
1	Mr. Yaser Al-Salami	Office of the conservation of Environment, Diwan	Genomics of Arabic Tahr
2	Eng. Mahmood Al-Abri	Royal Affairs	Stem cells, anti-venom
3	Dr. Sultan Al-Maskri	SQUH	Osteoarthritis

4	Dr. Mohammed Al-Marhoon	SQUH	Kidney stones
5	Dr. Rashid Al-Yahyai	CAMS, SQU, Oman	Plants physiology, botany
6	Dr. Abdullah Al-Saadi	CAMS, SQU, Oman	Plant Microbe interactions
7	Dr. Fahad Al-Zadjali	CMHS, SQU, Oman	Cancer research
8	Dr. Raeid Abed	College of Science, SQU, Oman	Microbial ecology
9	Dr. Annette Patzelt	Oman Botanic Garden, Diwan	Plant taxonomy
10	Dr. Andrzej Golachowski	Royal Cavalry, Diwan of Royal Court, Oman	Bone and tendon injuries
11	Dr. Nadiya Al-Saadi	Oman Animal Plant Genetic Resources Center	Oman gene bank
12	Dr. Yasin Al- Mulla	SQU	Remote sensing and GIS
13	Dr. Lubna Al-Kharusi	Ministry of Agriculture and Fisheries Wealth Oman	Marine sciences
14	Dr. Saif Al-Shaqsi	DG of One Million Date Palm	Date palm research

4.2.4 Active National and International Collaborators

SN	Name of Collaborator	Institution	Research Area
1	Prof. Christopher Schofield	Department of Chemistry, University of Oxford, UK	Chemistry of Inflammation
2	Prof. Jose Prieto Garcia	Schools of Pharmacy, UCL, UK	Natural Products
3	Prof. Robert Harrison	LSTM, University of Liverpool, UK	Venom and anti-venom
4	Dr. Shahina Ghazanfar	KEW Botanic Garden	Plant Taxonomy
5	Prof. Nicolas Baldovini	Institut de Chimie de Nice, France	Chemical Diversity
6	Prof. Simon Gibbons	Schools of Pharmacy, UCL, UK	Medicinal Phytochemistry
7	Prof. Tadhg Begley	University of Texas A&M, USA	Chemical Biology
8	Prof. Gills Gullimen	University of New South Wales, Australia	Cancer Research
9	Prof. Hans Resissig	Free University of Berlin, Germany	Synthesis

10	Dr. John Langley	University of Southampton, UK	Mass Spectroscopy
11	Ms. Fatema Al-Khulaifi	Qatar Foundation	Botany
12	Prof. Dr. In-Jung Lee	Kyungpook National University, South Korea	Plant Physiology
13	Prof. Dr. Jae-Ho Shin	Kyungpook National University, South Korea	Microbial Biotechnology
14	Prof. Dr. Jong-Sang Kim	Kyungpook National University, South Korea	Cancer Biology
15	Dr. Nessar Ahmed	Manchester Metropolitan University, UK	Clinical Biochemistry
16	Dr. Naoki Matsuda	Nagasaki University, Japan	Cancer Biology
17	Dr. Motohiro Yamauchi	Nagasaki University, Japan	Cancer biology
18	Dr. Hyuk Song	Konkuk University, South Korea	Cancer Biology
19	Prof. Dr. Faik Kantar	Akendiz University, Anatalya, Turkey	Agriculture
20	Prof. Grant Burgess	University of Newcastle, UK	Chemical Ecology
21	Dr. Mark Evans	University of Leicester, UK	Cancer Research
22	Prof. Andrea Buttner	Fraunhofer-Institut, Munich, Germany	Neuroscience
23	Dr. Farah Mustafa	United Arab Emirates University, UAE	Cancer Reserach
24	Prof. Ivan R Green	University of the Western Cape, South Africa	Natural Products Chemistry
25	Prof. Teunis van Ree	University of Venda, South Africa	Natural Products Chemistry
26	Prof. Ali Reza Ghasanpur	Shaheed Baheshti University, Iran	Phytochemistry
27	Prof. Rene Csuk	Martin-Luther University, Halle, Germany	Boswellic Acids Chemistry
28	Dr. Lutz Mueller-Kuhrt	AnalytiCon Discovery, Germany	Natural Products
29	Dr. Gennaro Pescitelli	Dipartimento di Chimica, Università di Pisa, Italy	CD/ORD analysis
30	Prof. Bernhard Klausgraber	University of Applied Sciences Krems, Austria	Fermentaion Sciences

31	Prof. Jeremy Rawson	University of Windsor, Canada	Inorganic Materials
32	Prof. Ringdén	Karolinska Institute, Sweden	Mesenchymal stem cells
33	Prof. Christopher Schofield	University of Oxford, UK	Chemistry of inflammation

5. International Recognition

- Arab-American Frontier **Focal Point** National Academy of Science (NAS).
- **Conference Chair**: LabTech 2014 held in Manama, Bahrain from 28th-30th October 2014.
- **Conference Chair**, First International Conference of Frankincense and Medicinal Plants, SQU, 2018.

5.1 Contribution to Journals

- Guest editor for a special issue of frankincense, Phytochemistry, 2018.
- National Representative for the Gulf States for Journal ARKIVOK (Achieve for Organic Chemistry), Florida, USA).
- Reviewer for several organic and medicinal chemistry journals. including European Journal of Medicinal Chemistry and Phytochemistry Letters.

5.2 Awards

- First National Award in Environmental and Biological Sector from Oman Research Council, October, 2016.
- Best Researcher Award 2015, University of Nizwa.
- DAAD Award by the German Academic Exchange Service, 2003-2006.
- Fulbright Award by the Council for International Exchange of Scholars (CIES), USA, 2008-2009.

5.3 Invited Lectures & Research Invitations and Visits

1. **Keynote Speaker**, First Chemistry Conference on Recent Trends in Drugs Discovery, November **2015**, SQU, Oman.
2. **Invited Speaker**, Annual Meeting, TRC, Oman, October, **2015**.
3. **Invited Speaker**, Analyticon Discovery, Germany, August **2015**.
4. **Official visit**, Invitation by vice-chancellor of University of Agriculture Faisalabad, Faisalabad, September 2012, MOU will be signed.
5. **Official visit**, Invitation by vice-chancellor of COMSATS University, Islamabad, September 2012, MOU was signed.
6. **Official visit**, Invitation by chairperson of Pakistan Council for Science and Technology, Islamabad, September 2012, MOU will be signed for the establishment of Technology Incubation Centers at the University of Nizwa.

7. **Official visit**, Invitation by vice-chancellor of Quaid-I-Azem University, Islamabad, September 2012, MOU will be signed.
8. **Invited Speaker** and chair of session in First Pharmacy conference, 2012, University of Nizwa, Oman, 24-26 January **2012**.
9. Research visit, ETH Zurich, Zurich, Switzerland, November **2011**.
10. **Invited Speaker** and chair of session in LabTech 2011, Doha, Qatar, 09-12 October 2011.
11. Research visit, Department of Chemistry, University of Southampton, UK, July 2011.
12. Research visit, School of Pharmacy, University of London, UK, July 2011.
13. **Invited Lecture**, Department of Health Sciences, Qatar University, Doha 24th May **2011**.
14. **Invited Speaker** at the 3rd International Conference on Drug Discovery & Therapy, Dubai UAE, 7th-10th February **2010**.
15. **Invited Speaker** at the 11th Florida Heterocyclic Conference, Florida, USA, 6th -10th March **2010**.
16. **Invitation for Research Visit** at University of Manchester, UK, May **2009**.
17. **Invitation for Visiting Scientist** at Cornell University, USA, October **2008**-March **2009**.
18. **Invited Speaker as Fulbright OLP** at University of Wisconsin, USA, 5th – 7th February **2009**.
19. **Invited Speaker** at Cornell University (Department of Chemistry and chemical Biology), USA, December **2009**.
20. **Invited Speaker** at the 10th Florida Heterocyclic Conference, Florida, USA, 8th -11th March **2009**.
21. **Invited Speaker** at the Summer School, Technical University of Braunschweig, 23-29 March **2009**, Germany.
22. **Invited Speaker** at UNESCO World Conference on Education for Sustainable Development, Bonn, 1st-4th April **2009**, Germany.
23. **Invitation for Research Visit** at Cornell University, USA, October **2008**.
24. **Invited Speaker** and **Chairperson** of session XI at the 5th European – Asian (Euroasian) Meeting on Heterocyclic Chemistry (EAMHC 5) in Kuwait **2008**.
25. **Keynote Speaker, Member of the scientific committee** and **chairperson** of the second session in International Conference on Complementary System of Medicine, Singapore **2007**.
26. **Invited Speaker** at Arab Naturals 2007 -Traditional and Complementary Healthcare Expo & Conferences, Abu Dhabi, UAE, **2007**.
27. **Invitation for Research Visit** from Freie Universitat Berlin, Germany **2007**.
28. **Invitation for Research Collaboration** from Analyticon Discovery, Germany **2007**.
29. **Invited Speaker** at the COMSTECH-TWAS Young Scientists Conference at the Interface of Chemistry and Biology, Islamabad, Pakistan, **2006**.
30. **Invited Speaker** at the Biannual Conference in Chemistry, Egypt, **2006**.

6. Administrative Responsibilities and Committees

6.1 Country Level

- Chair of the Scientific Board of Frankincense, Ministry of Commerce and Industry.
- Member of the Frankincense registration and documentation committee, Ministry of Commerce and Industry.
- Member of the One Million Date Palm Project, Diwan of Royal Court.
- Chair of the Advisory Board, College of Science, SQU, 2017-2020.
- Chair of the Environmental and Bio resources Grant Committee at Oman Research Council
- Chair of the National Research Award Committee at TRC
- Member of the Arab-American Frontiers

6.2 University Level

- Vice chancellor for Research, Graduate Studies and External Relations, 2016 to date.
- Chair of the University Academic Promotion Committee, 2017 to date.
- Dean of Research, 2014-2016.
- Founder & Chair- Oman's Medicinal Plants and Marine Natural products 2012 to date.
- Institutional Focal Point to TRC
- Vice-chairperson of the Steering Committee of DARIS Research Center.
- Member & Convenor of the University Academic Promotion Committee (UAPC)
- Chair of the Students Projects Committee (FURAP)
- Member of the University Academic Council, 2010 to date.
- Member of the University Research Council 2011 to date.
- Member and Convenor of the University Research Committee (URC)
- Member of the University Executive Board (UEB)
- Member of the University Chairs Committee
- Member of the University Teaching Evaluation Committee
- Member of the University Graduate Studies Committee
- Member of the Academic Recruitment Committee
- Member of the University Publication Board

6.3 College Level from 2009-2014

- Acting Dean during the absence of the Dean CAS.
- Assistant Dean for Graduate Studies and Research, College of Arts and Sciences, 2011-to date.
- Assistant Dean for Training, College of Arts and Sciences, 2010-2011.

- Member and Convener of the College Promotion Committee.
- Member of the College Board.
- Member of the college executive committee.

6.4 Department Level from 2009-2014

Acting Head of Department of Biological Sciences and Chemistry during the absence of the HOD, several times.

- Head of degree Plan Committee 2009-date.
- Head of Training & Field Trips Committee 2010-2011.
- Member of the Department Promotion Committee.
- Member of the Department Reports Committee.
- Chemistry Department Representative to the College Board 2009-2010.
- Member of the Time Table Committee.
- Member of the Review and upgrading department committee.

6.5 Major Contributions to the University of Nizwa

- Published more than 300 papers in high impact journals
- Establishment of a Research Group in Natural Products Chemistry with 50 scientists.
- Founder of the Chair of Medicinal Plants and Marine Natural Products with a budget of more than 7 million Omani Riyals than becomes the Natural and Medicinal Sciences Research Center.
- Strongly involved in preparation of Cambridge Chair of material sciences & Metallurgy approved with a budget of 5,126,940 OMR from TRC.
- Revision and Amendment of UoN Research Strategy
- Preparation and revision of UoN research operational plan
- Preparation of the MSc program in Chemistry
- Contributed to the College of Arts and Sciences Strategic Plan
- Contributed to the Department of Biological Sciences Strategic Plan
- Contributed to the BSc in chemistry degree program

7. Memberships and Community Services

- Member of the Phytochemistry Society of Europe
- Member of the American Chemical Society
- Chairman of the Omani Chemical Society, Project pending for approval.
- External examiner for PhD and MSc students in Sultan Qaboos University.
- External examiner for the institutes of Health Sciences, Ministry of Health since 2010.
- External examiner, School of Pharmacy, University of Nizwa.

- Delivery of lectures at high schools of the ministry of education.

8. Publications

8.1 Patents

- IP Australia Patent Number: 2021104833, Alam, Tanveer; Khan, Shah Alam; Najam, Lubna; Al-Harrasi, Ahmed Sulaiman Fadhil And Alrawahi, Ahmed Bin Khalfan, Simple And Rapid Commercial Method For The Production Of Anthocyanin Pigment From The Black Carrot (Daucus Carota) Juice By Resin Column Chromatography.
- WO 2015166462 A1, Ahmed Al-Harrasi , Javid Hussain, Liaqat Ali, Ahmed Al-Rawahi, Method of Purifying 3-O-acetyl-11-keto- β -boswellic acid (AKBA).
- US Patent- 11,013,748, Budesonide Nano Prodrug, Invention Team Leader: Dr. Anil Philip, Invention Team: Mrs. Betty Annie Samuel, Mrs. Amna Nasser Al Senani, Dr. Afaf Mohammed Wali, Prof. Dr. Ahmed Al Harrasi, & Prof. Dr. Ahmed Al Rawahi.

8.2 Books

- Al-Harrasi, Ahmed, Saurabh Bhatia, Tapan Behl, Deepak Kaushik, Vineet Mittal, and Ajay Sharma. "Antibacterial Interactions between EOs and Currently Employed Antibiotics." In Role of Essential Oils in the Management of COVID-19, pp. 211-226. CRC Press, 2022. Book.
- Chemistry and Bioactivity of Boswellic Acids and Other Terpenoids of the Genus Boswellia, 1st Edition, ISBN: 9780081024416, Elsevier, 2018.
- Saurabh Bhatia, Ahmed Al-Harrasi, Basic microbiology: microbes, pharmaceutical techniques and procedures Academic Press, Elsevier, Volume 1 (June, 2022).
- Saurabh Bhatia, Ahmed Al-Harrasi, Applied microbiology: microbes, pharmaceutical techniques and procedures. Academic Press, Elsevier, Volume 2, Elsevier (June, 2022)
- <https://videleaf.com/product/prime-archives-in-immunology/>
- Saurabh Bhatia, Abdul Latif Khan, Ahmed Al-Harrasi, Advances in herbal drug technology. Apple academic press, CRC press (June, 2021).
- Ahmed Al-Harrasi, Saurabh Bhatia. Role of Essential Oils in the Management of COVID-19. CRC Press. (April, 2021)
- Prime Archives in Immunology Editor: Ajmal Khan and Ahmed Al-Harrasi, 2nd edition, 2021, Categories: Healthcare, Life Science, Medicine, ISBN: 978-81-945175-9-7 <https://videleaf.com/product/prime-archives-in-immunology-2nd-edition>
- Biology of Genus Boswellia, 1st Edition, ISBN 978-3-030-16724-0, Springer, 2019.

8.3 Book Chapters

- Bibi, Shabana, Mohammad Mehedi Hasan, Anastasiia Shkodina, Muhammad Ajmal Shah, Ghulam Mujtaba Shah, Ajmal Khan, and Ahmed Al-Harrasi. "Genetic effects of phytonutrients in metabolic disorders." In *The Role of Phytonutrients in Metabolic Disorders*, pp. 105-126. Edited by: Haroon Khan, Esra Küpeli Akkol and Maria Daglia, Academic Press, 2022.
<https://doi.org/10.1016/B978-0-12-824356-5.00006-0>
- Bibi, Shabana, Mohammad Mehedi Hasan, Partha Biswas, Anastasiia Shkodina, Muhammad Ajmal Shah, Ghulam Mujtaba Shah, Ajmal Khan, and Ahmed Al-Harrasi. "Phytonutrients in the management of lipids metabolism." In *The Role of Phytonutrients in Metabolic Disorders*, pp. 195-236. Edited by: Haroon Khan, Esra Küpeli Akkol and Maria Daglia, Academic Press, 2022.
<https://doi.org/10.1016/B978-0-12-824356-5.00010-2>
- Zunera Chaudhary, Muhammad Ajmal Shah, Malik Hassan Mehmood, Uzma Saleem, Azhar Rasul, Ghulam Mujtaba Shah, Ajmal Khan, Ahmed Al-Harrasi, Shabnoor Iqbal, Shabana Bibi ; Saponins in the Treatment of Gastrointestinal Tract Cancer, *Phytonutrients in the Treatment of Gastrointestinal Cancer (2023) 1*: 159. <https://doi.org/10.2174/9789815049633123010010>
- Shabnoor Iqbal, Muhammad Ajmal Shah, Azhar Rasul, Ajmal Khan, Ahmed Al-Harrasi, Shahid Rasool, Muhammad Naeem Amir; Plant Peptides in the Treatment of Gastrointestinal Cancer, *Phytonutrients in the Treatment of Gastrointestinal Cancer (2023) 1*: 263.
<https://doi.org/10.2174/9789815049633123010014>
- Al-Harrasi, Ahmed, Saurabh Bhatia, Deepak Kaushik, Mohammed Muqtader Ahmed, Khalid Anwer, and P. B. Sharma. "Mechanism of Action of Essential Oils as well as Its Components." In *Role of Essential Oils in the Management of COVID-19*, pp. 179-186. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Mohammed Muqtader Ahmed, and Khalid Anwer. "Hepatoprotective and Nephroprotective Effects of Essential Oils." In *Role of Essential Oils in the Management of COVID-19*, pp. 371-379. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tapan Behl, Deepak Kaushik, Mohammed Muqtader Ahmed, Khalid Anwer, and P. B. Sharma. "Antimicrobial Activity of Essential Oils in the Vapor Phase." In *Role of Essential Oils in the Management of COVID-19*, pp. 187-210. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tapan Behl, Deepak Kaushik, Vineet Mittal, and Ajay Sharma. "Toxicity Associated with Essential Oils." In *Role of Essential Oils in the Management of COVID-19*, pp. 391-399. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tapan Behl, Deepak Kaushik, Mohammed Muqtader Ahmed, and Khalid Anwer. "Antibacterial Mechanism of Action of Essential Oils." In *Role of Essential Oils in the Management of COVID-19*, pp. 227-237. CRC Press, 2022.

- Al-Harrasi, Ahmed & Bhatia, Saurabh & Behl, Tapan & Anwer, Md. Khalid. (2022). Essential Oil Stability. 10.1201/9781003175933-12.
- Al-Harrasi, Ahmed, and Saurabh Bhatia. "Origin, Morphology, Genome Organization, Growth, Replication, and Pathogenesis of SARS-CoV-2." In Role of Essential Oils in the Management of COVID-19, pp. 19-43. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tapan Behl, and Deepak Kaushik. "Effects of Essential Oils on CNS." In Role of Essential Oils in the Management of COVID-19, pp. 269-297. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tanvir Kabir, Tapan Behl, Deepak Kaushik, Vineet Mittal, and Ajay Sharma. "Effect of Methods of Extraction on Chemical Composition of Essential Oils." In Role of Essential Oils in the Management of COVID-19, pp. 145-157. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tapan Behl, and Deepak Kaushik. "Olfactory Aromatherapy vs. Human Psychophysiological Activity." In Role of Essential Oils in the Management of COVID-19, pp. 299-318. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tapan Behl, Deepak Kaushik, Mohammed Muqtader Ahmed, and Khalid Anwer. "Effect of COVID-19 on Different Organ Systems." In Role of Essential Oils in the Management of COVID-19, pp. 109-131. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tanvir Kabir, Tapan Behl, and Deepak Kaushik. "Epidemiology, Clinical Manifestations, Diagnostic Approaches, and Preventive Measures for COVID-19." In Role of Essential Oils in the Management of COVID-19, pp. 45-60. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tanvir Kabir, Tapan Behl, and Deepak Kaushik. "Essential Oil Dispensing Methods." In Role of Essential Oils in the Management of COVID-19, pp. 381-389. CRC Press, 2022.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tanvir Kabir, Tapan Behl, Deepak Kaushik, Mohammed Muqtader Ahmed, and Khalid Anwer. "Essential Oil Chemistry vs. Aromatherapy." In Role of Essential Oils in the Management of COVID-19, pp. 135-143. CRC Press, 2022.
- Al-Harrasi, Ahmed & Bhatia, Saurabh and Kaushik, Deepak & Ahmed, M.M & Anwer, Md. Khalid & Sharma, P.B.. (2022). Quality Control of Essential Oils. 10.1201/9781003175933-13.
- Al-Harrasi, Ahmed, Saurabh Bhatia, Tanvir Kabir, Tapan Behl, and Deepak Kaushik. "Role of Drug Repurposing and Natural Products." In Role of Essential Oils in the Management of COVID-19, pp. 61-97. CRC Press, 2022.

- Al-Harrasi, Ahmed, Saurabh Bhatia, P. B. Sharma, Mohammed Muqtader Ahmed, and Khalid Anwer. "Anti-Inflammatory, Antioxidant, and Immunomodulatory Effects of EOs." In *Role of Essential Oils in the Management of COVID-19*, pp. 239-255. CRC Press, 2022.
- Al-Harrasi, Ahmed, and Saurabh Bhatia. "Olfactory Aromatherapy vs COVID-19: A Systematic Review." *Role of Essential Oils in the Management of COVID-19*: 3-6, 2022.
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8.5 Conference Proceedings and Invited Lectures

- Ahmed Al-Harrasi, Towards Drugs Discovery from Omani Medicinal Plants & Marine Species, International Interdisciplinary Conference on Medical Herbs and Quranic Gardens in the Region: Mapping an Interdisciplinary Approach, October 18, 19, 2017, Qatar.
- Ahmed Al-Harrasi, Towards Drugs Discovery from *Boswellia sacra*, Bioactive Molecules: Current Trends in Synthesis, 9-12 January 2017 - Tehran, IRAN
- Ahmed Al-Harrasi, Towards Drugs Discovery from Omani Medicinal Plants 18th International Conference of the Union of Arab Chemists Scientific Program (26 -28/March /2017).
- Ahmed Al-Harrasi, Synthesis of Highly Functionalised Enantiopure Heterocycles from 1,2-Oxazines (Track: Stereoselective Synthesis of Bioactive Compounds), 3rd International Conference on Drug Discovery & Therapy, Dubai, UAE, February 7th to 10th, 2011.
- Ahmed Al-Harrasi, 1,3-dioxolanyl-substituted 1,2-Oxazines: Novel Precursors for Synthesis of Highly Functionalised Enantiopure Heterocycles, the 12th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Luxor-Egypt, 14-17 February 2011.
- Fathi A. Abu-Shanab, Sayed A. S. Mousa, E. A. Eshak, Ahmed Al-Harrasi, Ahmed Z. Sayed, New Routes for the Synthesis of Polysubstituted Pyridines, Pyrimidines, Pyridazine and their Fused Derivatives Using imethylformamide Dimethyl Acetal (DMFDMA), The 12th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Luxor-Egypt, 14-17 February 2011.

- Ahmed Al-Harrasi, Nitrogen Heterocycles from 1,2-Oxazines, 11th Annual Florida Heterocyclic and Synthetic IUPAC-Sponsored Conference, USA, 6th -10th March 2010.
- Ahmed Al-Harrasi, Nitrogen Heterocycles and More from 1,2-Oxazines, Fulbright OLP Invited Speaker, University of Wisconsin, USA, 5th – 7th February 2009.
- Ahmed Al-Harrasi, New Transformations from 1,2-Oxazines, Cornell University (Department of Chemistry and chemical Biology), USA, December 2009.
- Ahmed Al-Harrasi, Sustainability in the Organic Chemistry Lab Course, UNESCO World Conference on Education for Sustainable Development, Bonn, 1st-4th April 2009, Germany.
- Ahmed Al-Harrasi, New Transformations from 1,2-Oxazines: Synthesis of Highly Functionalised Enantiopure Heterocycles, University of Wisconsin Oshkosh, USA, February 2009.
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- Ahmed Al-Harrasi, The Date Palm Fruit, Arab Naturals: Complementary Medicine and Healthcare, Abu Dhabi, 2007.
- Ahmed Al-Harrasi, A Perfect Date, International Conference on Ayurved and Complementary System of Medicine, Singapore, 2007.
- Ahmed Al-Harrasi, Diastereoselective Synthesis of Carbohydrate Mimetics, Biannual Conference of Chemistry, University of Cairo, Egypt, 05/03/2006-08/03/2006.

8.6 Posters and Abstracts

- Ahmed Al-Harrasi, Diastereoselective Synthesis of Carbohydrate Mimetics, Biannual Conference of Chemistry 05/03/2006-08/03/2006, University of Cairo, Egypt.
- Ahmed Al-Harrasi, 1,3-dioxolanyl-substituted 1,2-Oxazines: Novel Precursors for Synthesis of Highly Functionalised Enantiopure Heterocycles, Kuwait 01/03/2008-08/03 2008.
- Ahmed Al-Harrasi, A Perfect Date, International Conference on Ayurved and Complementary System of Medicine, Singapore, 2007.
- Ahmed Al-Harrasi, The Fruit of Date Palm (*Phoenix dactylifera*): Its Use as a Promising Future Best Food, Abu Dhabi, UAE.

- Ahmed Al-Harrasi, COMSTECH-TWAS Young Scientists Conference at the Interface of Chemistry and Biology, Islamabad, Pakistan, 2007.
- Ahmed Al-Harrasi, Khwarizmi International Award, Tehran, Iran.
- Ahmed Al-Harrasi and Hans-Ulrich Reissig, Synthesis of Carbohydrate Mimetics, Annual Conference of Carbohydrates, Berlin, October 2005, Germany.
- Ahmed Al-Harrasi and Hans-Ulrich Reissig, Reactions of 1,2-oxazines: Internal Redox Ring Cleavage and Solvolytic Ring Enlargement, Tag der Chemie 2005, Berlin, July 2005, Germany.
- Vladimir Prisyazhnyuk, Ahmed Al-Harrasi, Hans-Ulrich Reissig, Reactions of 1,2-oxazines: Synthesis of highly functionalized enantiopure amino sugars and sugar amino acids, 11th Blue Danube Symposium on Heterocyclic Chemistry, September 2005, Czech Republic.
- Ahmed Al-Harrasi and Hans-Ulrich Reissig, Reactions of Lithiated Allenes with Chiral Nitrones: Synthesis of Amino Sugars and Pyrrolidine Derivatives, Tag der Chemie 2004, Potsdam, July 2004, Germany.
- Ahmed Al-Harrasi and Hans-Ulrich Reissig, Reactions of Lithiated Allenes with Chiral Nitrones: Synthesis of Highly Functionalized Sugar Derivatives, Jahresstagung Chemie 2003 (GDCh), Munich, 6-11 October 2003, Germany.
- Ahmed Al-Harrasi, Hans-Ulrich Reissig, Greg Roos, Allenes and allenamides as novel precursors in organic synthesis, SQU Open Day, April 2003.

9. Workshops

- Inconnet GCC2 Interenational Conference Collaboration for Innovation, Grand Hayat Muscat, 6-8 December 2015.
- Entrepreneurship for Scientists and Engineers, Holiday Inn, 13-15 December 2015.
- The Grant Writing & Research Management Symposium, January 24-26, 2011, Organized by Research Council, University of Nizwa. Panel Superevisor.
- Biodiversity: Efforts in Conservation and Sustainable Utilization of Oman's Genetic Resources, 10-12 January 2011, Organized by Research Council in Sultan Qaboos University.
- His Majesty's Sultan Qaboos bin Said Scientific Chairs, Sultan Qaboos University, 01-03 March 2010, Organized by Research Council.
- INCONET-GCC roundtable workshop, Muscat Intercontinental, 06-07 December 2010. Organized by Research Council.

- Date Palm Exhibition, Abu Dhabi, 22-24 November 2010.
- World Class University Research Outcomes, Intensive 2014, Abu Dhabi, UAE, 19-22 January 2014.

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