

DR. LIAQAT ALI

BRIEF PROFILE

Matriculation (1991) from Chakrala, Mianwali; FSc (Pre-Medical 1993) from GC Sargodha; and Graduation (Chemistry, Botany, Zoology 1996) from University of the Punjab, Lahore; M.Sc. Organic Chemistry (2002) from the Urdu University; MPhil and PhD from HEJRIC, ICCBS, University of Karachi on “**phytochemical investigations of medicinal plants and solid-phase peptide synthesis**”; 740 scores (68 percentile) in GRE Chemistry (International) by ETS; and 94.5 percentile in General GRE by NTS (GAT); **HEC Indigenous Scholarship** awarded in **2004**.



On **30th August 2017**, joined sub-campus Mianwali of University of Sargodha (reconstituted as University of Mianwali on 29th August 2019) as Assistant Professor. Before that, served the University of Nizwa (Sultanate of Oman) since **1st January 2011**. In addition to teaching various undergraduate and graduate courses of Organic Synthesis, Organic Spectroscopy, and Organic Chemistry, the overall outcome of the research included **1 Australian Patent** entitled “**method development for the yield enhancement of AKBA**”, **80** research articles (**13** as first author and **14** as corresponding author), **210** impact factor and **2100⁺** citations. Won 2nd prize on poster presentation in an international conference during the year 2012. Won **the National Research Award** for the best research in Environmental and Biological Sector for the year 2016 entitled “Two pyrolysate products from Omani frankincense smoke (Published in *Journal of Analytical and Applied Pyrolysis*). The overall professional experience includes **4** years (**2002** to **2006**) of research in Pakistan as **Junior Research Fellow** (phase I, MPhil), **4** years (**2006** to **2010**) of research in Pakistan as **Senior Research Fellow** (phase II, PhD), **1** years and **4** months (January **2011** to April **2012**) of research in Sultanate of Oman as **Research Assistant** (phase III), **5** years and **4** months (May **2012** to August **2017**) of teaching and research in Sultanate of Oman as **Researcher / Research Assistant Professor** (phase IV), and more than **6** years of teaching and research in Pakistan as **Assistant Professor** since **August 30, 2017** (phase V) till date. The **administrative experience** of approximately **2** years as **Registrar** (additional charge) extended from **December 2020** to **April 2023**. The research interests include, but not limited to, the Natural Products Chemistry with special reference to spectroscopic studies (Mass, UV, IR, and NMR) of secondary metabolites from terrestrial and marine resources and the endophytic microorganisms associated with them.

Current responsibilities/achievements include:

- Focal Person as Head of ORIC and Head of P&D as Assistant Director, University of Mianwali
- Provided Secretarial Support to the Vice Chancellor and Syndicate as Registrar, University of Mianwali
- The supervision of Research Laboratory and MSc and BS student's projects
- Teaching Organic Spectroscopy and Organic Chemistry at Department of Chemistry, University of Mianwali
- HEC Focal Person for Benazir UG Scholarship Project at University of Mianwali
- HEC Focal Person for Processing DDWP Level Projects Through i-PAS at University of Mianwali
- Member Technical Consultation Committee for Re-opening Educational Institutes after COVID situation
- Member of the reviewer panel of “WILEY”, “ELSEVIER”, “ACG” and “Taylor & Francis” Journals
- Member of the Board of Governors of "The Quaid College" under READ Society, Mianwali
- Member of the Phytochemical Society of Europe
- Member of the Chemical Society of Pakistan
- Highest Research Incentive Awards (2018 and 2019) at Sub-Campus Mianwali, University of Sargodha
- Member of thesis evaluation panel of University of Malakand; University of Karachi; KFUEIT, Rahim Yar Khan; UOL, Sargodha; and University of Nizwa, Sultanate of Oman

DETAILED RESUME

Address: **Off:** Department of Chemistry, University of Mianwali, Mianwali-42200, Pakistan.
Res: Mohallah Thall Tugwaal, Vill. & P/O Chakrala, Mianwali-42230, Pakistan.
Contact#: 00923332219474
E-mail: malikhejric@umw.edu.pk, malikhejric@gmail.com
Twitter: @DrLiaqtMalikUMW
Current Job: Assistant Professor of Organic Chemistry (HEC approved Supervisor)

Ph.D. Thesis: “Synthetic Studies on Anticancer Cyclic Peptides and Phytochemical Investigations on *Gratiola officinalis* and *Prunus cerasoides*”
M.Phil. Thesis: “Bio-assay Guided Phytochemical Investigations on *Tamus communis*, *Plantago major*, and *Delphinium kohatense*”

ACADEMICS

Ph.D. Organic Chemistry (Thesis submitted, July 26, 2010; Degree awarded, April 2, 2012)
Solid-Phase Synthesis of Cyclic Peptides and Phytochemical Investigations on Medicinal Plants,
ICCBS, University of Karachi, Karachi-75270, Pakistan
M.Phil. Organic Chemistry (1st Division, 2006)
Bioassay Guided Phytochemical Investigations on Medicinal Plants,
ICCBS, University of Karachi, Karachi-75270, Pakistan
M.Sc. (Organic Chemistry) (1st Division, 2002)
University of Karachi, Karachi-75270, Pakistan
B.Sc. (Chemistry, Botany, Zoology) (2nd Division, 1996)
University of the Punjab, Lahore, Pakistan
HSSC (Chemistry, Biology, Physics) (2nd Division, 1993)
BISE, Sargodha
SSC (Chemistry, Biology, Physics, Mathematics) (1st Division, 1992)
BISE, Sargodha

ADVANCED TRAININGS ATTENDED

- ❖ “**AVANCE 1D/2D NMR Spectrometer Operation**” held during 16-20 March 2015 at BRUKER BioSpin AG, Industriestrasse 26, 8117-Fallanden, Switzerland.
- ❖ “**HPLC Analyses – Theory and Application by Shodex (Germany)**” held on October 12, 2015; November 09, 2014; May 22, 2014, at Shangri La Barr Al Jissah, Muscat, Oman.
- ❖ “**Lecture Series on Modern Mass Spectrometry**” by Prof. Dr. David Smith, during February 7-29, 2008, at ICCBS, University of Karachi, Karachi-75270, Pakistan.
- ❖ “**Advanced NMR Concepts and Operating Techniques**” by Dr. Daniel D. Traficante, during January 10-24, 2007, at ICCBS, University of Karachi, Karachi-75270, Pakistan.
- ❖ “**Quantum Mechanics for Chemists**” by Prof. Dr. Mehboob Muhammad, during October 2005 to March 2006 at ICCBS, University of Karachi, Karachi-75270, Pakistan.
- ❖ “**Basics of X-Ray Crystallography**” by Dr. Masood Parvez, during May-June 2005 at ICCBS, University of Karachi, Karachi-75270, Pakistan.
- ❖ “**An Introduction to the bioinorganic and medicinal chemistry of metals**” by Dr. Mahroof Tahir, during May 17-31, 2003, at ICCBS, University of Karachi, Karachi-75270, Pakistan.
- ❖ “**Scientific Integrity in Research Laboratory**” by Dr. Mohsin Raza, during September 2-16, 2002, at ICCBS, University of Karachi, Karachi-75270, Pakistan.

PROFESSIONAL EXPERIENCES (*ACADEMICS*)

1. Assistant Professor at the Department of Chemistry, University of Mianwali, Mianwali, Pakistan (August 29, 2019 – present), with the following responsibilities:
 - ❖ Teach Various Chemistry Courses in Department of Chemistry
 - ❖ Carry out Various Indigenous Research Projects
 - ❖ Supervision of the Research Student's Projects
 - ❖ Manage, Operate and Maintain the Experiments/Instruments in Organic Section
 - ❖ Structure Elucidation of Pure Constituents by NMR and other Characterization Methods
 - ❖ Publish High Quality Research Articles in Peer Reviewed Journals
2. Assistant Professor at the Department of Chemistry, University of Sargodha, sub-campus Mianwali, Pakistan (August 30, 2017 – August 29, 2019), with the following responsibilities:
 - ❖ Teach Various Chemistry Courses in Department of Chemistry
 - ❖ Supervision of the Research Student's Projects
 - ❖ Structure Elucidation of Pure Constituents by NMR and other Characterization Methods
 - ❖ Publish High Quality Research Articles in Peer Reviewed Journals
3. Research Assistant Professor / Researcher / Research Assistant at UoN Chair of Oman's Medicinal Plants and Marine Natural Products (currently Natural and Medical Sciences Research Center), University of Nizwa, Oman (January 2011 – August 2017), with the following responsibilities:
 - ❖ Carry out Various Indigenous Research Projects
 - ❖ Teaching Various Chemistry Courses in DBSC
 - ❖ Supervision/Co-supervision of the Graduate Student's Projects
 - ❖ Supervision of the Undergraduates/Graduates Trainees for the Basic Research Skills
 - ❖ Manage, Operate and Maintain the Analytical and Recycling HPLCs and other Chromatography Instruments
 - ❖ Structure Elucidation by NMR and other Characterization Methods
 - ❖ Publish High Quality Research Articles in Peer Reviewed Journals
 - ❖ Establish an advanced and equipped Marine Natural Products Unit in the Chair
 - ❖ Maintain a Competitive Research Environment among the Research Students
4. Visiting Faculty (non-paid community service) at Pakistan School Muscat (Nizwa Branch) for teaching the subject of Chemistry to the Higher Secondary Level Students at Nizwa, Sultanate of Oman (Session 2012 –2013).
5. Senior Research Fellow under the Supervision of Dr. Farzana Shaheen (Professor of Organic Chemistry at ICCBS) for PhD (October 2006 – December 2010), with the following responsibilities:
 - ❖ Carry out Solid-Phase Peptide Synthesis (SPPS) and Isolation of Secondary Metabolites from Medicinal Plants of Pakistan
 - ❖ Operate and Maintain the Recycling HPLC and other Chromatography Instruments
 - ❖ Structure Elucidation by NMR and other Characterization Methods
 - ❖ Publish High Quality Research Articles in Peer Reviewed Journals
 - ❖ Write the bi-annually progress/fiscal reports to Higher Education Commission
 - ❖ Guide and Train, the Young Graduates for Course Work and Research Work
6. Junior Research Fellow under the Supervision of Dr. Farzana Shaheen (Professor of Organic Chemistry at ICCBS) for MPhil (April 2002 – September 2006)
 - ❖ Study the mandatory course work conducted at the ICCBS
 - ❖ Responsible to Isolation and Characterization of Secondary Metabolites

PROFESSIONAL EXPERIENCES (ADMINISTRATIVE & COMMUNITY SERVICES)

1. **Registrar, UMW (Add. Charge)**, December 6, 2020, to April 5, 2023.
2. **Incharge** Department of Botany, University of Mianwali, April 4, 2022, to March 01, 2023.
3. **Incharge** Department of Biotechnology, April 8, 2022, to March 01, 2023.
4. **Focal Person as Head** of Office of Research, Innovation, and Commercialization (ORIC), University of Mianwali since April 19, 2021, till date.
5. **Assistant Director as Head** of Planning and Development (P&D) Section, University of Mianwali since August 11, 2021, till date.
6. **Chairman Statutes Committee** to compare statutes of various universities and select one to be adopted by the University of Mianwali, Mianwali-42200, Pakistan.
7. **Departmental Student Advisor** at the Department of Chemistry, University of Mianwali.
8. **HEC Focal Person** for Prime Minister National Laptop Scheme from the year 2017 to 2022.
9. **HEC Focal Person** for HEC EHSAAS program at University of Mianwali.
10. **HEC Focal Person** to Process DDWP Level Projects through *i*-PAS at University of Mianwali.
11. **Course Coordinator (BS Degree Program)**, Department of Chemistry, University of Sargodha, sub-campus Mianwali, Mianwali, Pakistan (Year 2017 – 2019).
12. **Course Coordinator (MPhil)**, Department of Chemistry, University of Mianwali.
13. **Member** of the **Board of Governors** of "The Quaid College" under the umbrella of **Rural Education & Development Society (READS)**, Ban Hafiz G, Mianwali.
14. **Coordinator** of the **Research Group of Dr. Ahmed Al-Harrasi** at the department of Biological Sciences and Chemistry, **University of Nizwa, Oman** (2011-2017)
15. **Member** of thesis evaluation panel of **University of Malakand, University of Karachi, KFUIT, RYK, UOL, Sargodha** in Pakistan, and **University of Nizwa, Oman**.
16. **Member** of the **Phytochemical Society of Europe** January 2012.
17. **Member** of the **Chemical Society of Pakistan** January 2012.
18. **Reviewer** of the "**WILEY**", "**ELSEVIER**", "**ACG**", and "**Taylor & Francis**" Journals.

STATUTORY BODIES (MEMBERSHIPS)

1. **Member, Short-Listing Committee for Registrar/Treasure/Controller of Examination** at University of Mianwali since September 2021.
2. **Member, Board of Studies of Chemistry** at University of Mianwali since June 2021.
3. **Secretary, Syndicate** at University of Mianwali since December 2020 to April 2023.
4. **Secretary, Selection Board** at University of Mianwali since October 2021 to April 2023.
5. **Secretary, Academic Council** at University of Mianwali since July 2022 to April 2023.

Teachings at University of Mianwali at BS and MSc Level:

No.	Name of the Course	Course Code
1	Organic Synthesis	CHEM 6140/6240
2	Chemistry of Natural Products	CHEM 6139/6239
3	Spectroscopic Methods in Organic Chemistry	CHEM 6124/6224
4	Organic Reaction Mechanism	CHEM 6123/6223
5	Organic Chemistry-II	CHEM 6109/6209
6	Organic Chemistry-I	CHEM 6104/6204
7	Organic Chemistry	CHEM 5103

Teachings at University of Nizwa at BS and MS Level:

No.	Name of the Course	Course Code
1	Synthetic Methodologies and Advanced Stereochemistry	CHEM 605
2	Identification of Organic Compounds	CHEM 422
3	Organic Chemistry II Lab	CHEM 275L
4	Organic Chemistry I Lab	CHEM 265L

S. No	Publication Title and Author Names	Journal Name, Vol, Page, Year	I.F.
Year 2024 (In Process/Submitted)			
84	Bio-guided isolation of new sesquiterpenoids from <i>Ochradenus aucheri</i> for diabetes, HKM Al-Rabani, A Khan, TS Rizvi, Liaqat Ali , J Hussain, F Mabood, SA Halim, and A Al-Harrasi	<i>Metabolites</i> , (submitted)	
83	Estimation of quercetin in different fractions of <i>Ochradenus aucheri</i> and <i>Capparis cartilaginea</i> by fluorescence spectroscopic method coupled with PLSR, J. Hussain, H Al-Rabaani, S Al-Ghawi, F Mabood, Liaqat Ali , TS Rizvi, Najeeb Ur Rehman, Ajmal Khan, Z Naureen, SA Gilani, S Muhammad, and A Al-Harrasi	<i>Separations</i> (submitted)	
82	Secondary metabolites from fungal endophyte <i>Preussia</i> sp. BSL10, isolated from the bark of <i>Boswellia sacra</i> , A. L. Khan, A. S. H. Al-Mamari, T. S. Rizvi, Liaqat Ali , S. Ali, J. Hussain, and A. Al-Harrasi	<i>Rec Nat Prod</i> , (In Process)	
81	Impacts of five selected heavy metals (Cd, Cu, Ni, Pb & Zn) on growth performance of wheat crop (<i>Triticum aestivum</i> L.); A brief review, M Kabir, UE Habiba, M Hammad, A Shah, S Rahim, Liaqat Ali , Z Ali, PRDR Escalante, EI Arancibia	<i>J KSU Sci</i> (submitted)	
Year 2024 (Total Impact; 1.8 of 209.55)			
80	Quantification of Rutin, an Anti-glycating drug, in Selected <i>Euphorbia</i> Species by Fluorescence Spectroscopy and Partial Least Squares Regression Analysis, M Ali, A. Khan, SA Gilani, Liaqat Ali , R Maqsood, A Hussain, H Al-Rabaani, Najeeb Ur Rehman, F Jabeen, F Mabood, A Al-Harrasi, and J. Hussain	<i>Current Analytical Chemistry</i> , 22, 125, 2024	1.8
Year 2023 (Total Impact; 3.8 of 207.75)			
79	Climate change due to increasing concentration of carbon dioxide and its impacts on environment in 21 st century; a mini review, M Kabir, UE Habiba, W Khan, A Shah, S Rahim, PRDR Escalante, ZR Farooqi, and Liaqat Ali	<i>J KSU Sci</i> , 35, 102693, 2023	3.8
Year 2022 (Total Impact; 0.8 of 203.95)			
78	Elemental analysis of carrageenans isolated from <i>Hypnea musciformis</i> red algae of Karachi coast using SEM-EDX, W Iqbal, S Andalib, SNH Mohani, MM Hasan, M Arman, and Liaqat Ali	<i>Pak J Pharm Sci</i> , 35, 561, 2022	0.8
Year 2021 (Total Impact; 7.9 of 203.15)			
77	New Carbonic Anhydrase-II inhibitors from marine macro brown alga <i>Dictyopteris hoytii</i> supported by <i>in silico</i> studies, K Rafiq, A Khan, N Rehman, SA Halim, M Khan, Liaqat Ali , AH Al-Balushi, HK Al-Busaidi, and A Al-Harrasi	<i>Molecules</i> , 26, 7074, 2021	4.6
76	Integration of an aminopyridine derived cobalt based homogenous cocatalyst with a composite photocatalyst to promote H ₂ evolution from water, RM Irfan, SA Khan, MH Tahir, T Ahmad, Liaqat Ali , M Afzal, H Ali, A Abbas, KS Munawar, J Zhao, and L Gao	<i>New Journal of Chemistry</i> , 45, 5561, 2021	3.3
Year 2020 (Total Impact; 7.0 of 195.25)			
75	Robust FT-IR spectroscopy coupled with multivariate methods for detection and quantification of urea adulteration in fresh milk samples, F Mabood, Liaqat Ali , R Boque, G. Abbas, F Jabeen, QMI Haq, J Hussain, AM Hamaed, Z Naureen, M Al-Nabhani, MZ Khan, A Khan, and A Al-Harrasi	<i>Food Science & Nutrition</i> , 8, 5249, 2020	3.9
74	Diketopeprazin and Methyl-5-docosenoate from endophytic fungi <i>Aureobasidium pollulans</i> BSS6 with α -Glucosidase inhibition and its validation through molecular docking, S Al-Hosni, TS Rizvi, A Khan, Liaqat Ali , N Rehman, U Rashid, J Hussain, AL Khan, and A Al-Harrasi	<i>S Afr J Bot</i> , 134, 322, 2020	3.1
Year 2019 (Total Impact; 15.1 of 188.25)			
73	α -Glucosidase inhibition and molecular docking studies of natural brominated metabolites from marine macro brown alga <i>Dictyopteris hoytii</i> , N Rehman, K Rafiq, A Khan, SA Halim, Liaqat Ali , N Al-Saady, AH Al-Balushi, and A Al-Harrasi	<i>Marine Drugs</i> , 17, 666, 2019	5.4
72	Differential cytotoxic potential of <i>Acridocarpus orientalis</i> leaf and stem extracts with the ability to induce multiple cell death pathways, SOMS Balhamar, NG Panicker, S Akhlaq, MM Qureshi, W Ahmad, N Rehman, Liaqat Ali , A Al-Harrasi, J Hussain, and F Mustafa	<i>Molecules</i> , 24, 3976, 2019	4.6
71	Chemical constituents of <i>Acridocarpus orientalis</i> and their chemotaxonomic significance, N Rehman, H Hussain, Liaqat Ali , A Khan, F Mabood, ZK Shinwari, J Hussain, and A Al-Harrasi	<i>Chem Nat Comp</i> , 55, 586-88, 2019	0.8
70	New gorganane sesquiterpenoid from <i>Teucrium mascatense</i> as α -glucosidase inhibitor, TS Rizvi, I Hussain, Liaqat Ali , F Mabood, AL Khan, S Shuja, N Rehman, A Al-Harrasi, J Hussain, A Khan, and SA Halim	<i>S Afr J Bot</i> , 124, 218-22, 2019	3.1
69	Application of fluorescence spectroscopy coupled with PLSR for the estimation of quercetin in 4 medicinal plants, J Hussain, N Rehman, F Mabood, A Al-Harrasi, Liaqat Ali , TS Rizvi, A Khan, K Rafiq, H Al-Rabani, & F Jabeen	<i>Chem Data Collect</i> , 21, 100228, 2019	
68	Evaluation of biological potential and physico-chemical properties of <i>Acridocarpus orientalis</i> (Malpighiaceae), N Rehman, F Mabood, AL Khan, Liaqat Ali , SA Gilani, G. Abbas, A Khan, A Al-Harrasi, and J Hussain	<i>Pak J Botany</i> , 51, 1099-06, 2019	1.2
Year 2018 (Total Impact; 26.8 of 173.15)			
67	<i>In vitro</i> oxidative stress regulatory potential of <i>Citrullus colocynthis</i> and <i>Tephrosia apollinea</i> , TS Rizvi, AL Khan, Liaqat Ali , N Al-Mawali, F Mabood, J Hussain, M Adnan, and A Al-Harrasi	<i>Acta Pharm</i> , 68, 235-42, 2018	2.8
66	Endophytic <i>Paecilomyces formosus</i> LHL-10 produces sester-terpenoid YW 3548 and cyclic peptide that inhibit urease and α -glucosidase enzymes, S Bilal, Liaqat Ali , AL Khan, R Shahzad, S Asaf, M Imran, SM Kang, SK Kim, and IJ Lee	<i>Arch Microbiol</i> , 200, 1493-02, 2018	2.8
65	Characterization of new bioactive enzyme inhibitors from endophytic <i>Bacillus amyloliquefaciens</i> RWL-1, R Shahzad, AL Khan, Liaqat Ali , S Bilal, M Imran, KS Choi, A Al-Harrasi, and IJ Lee	<i>Molecules</i> , 23, 114, 2018	4.6
64	New Robust sensitive fluorescence spectroscopy coupled with PLSR for estimation of quercetin in <i>Ziziphus mucronata</i> and <i>Ziziphus sativa</i> , J Hussain, F Mabood, A Al-Harrasi, Liaqat Ali , TS Rizvi, F Jabeen, SA Gilani, S Shinwari, M Ahmad, Z Al-Abri, and S Al-Ghawi	<i>Spectrochim Acta A</i> , 194, 152-57, 2018	4.4
63	Fluorescence spectroscopy-partial least square regression method for the quantification of quercetin in <i>Euphorbia masirahensis</i> , Z Al-Abri, J Hussain, F Mabood, N Rehman, Liaqat Ali , A Al-Harrasi, A Hameed, AL Khan, TS Rizvi, F Jabeen, A Khan, Z Naureen, and S Farooq	<i>Measurement</i> , 121, 355-59, 2018	5.6
62	Quantification of AKBA in <i>Boswellia sacra</i> using NIRS coupled with PLSR as alternative method and cross validation by HPLC, N Rehman, Liaqat Ali , A Al-Harrasi, F Mabood, M Al-Broumi, AL Khan, H Hussain, J Hussain, and R Csuk	<i>Phytochem Anal</i> , 29, 137-43, 2018	3.3
61	Total polyphenols quantification in <i>Acridocarpus orientalis</i> and <i>Moringa peregrina</i> by NIR spectroscopy coupled with PLS regression, Liaqat Ali , F Mabood, TS Rizvi, S Al-Shidani, Z Al-Abri, M Arman, J Hussain, and A Al-Harrasi	<i>Chem Data Collect</i> , 13-14, 104-12, 2018	
60	Application of NIRS coupled with PLS for quantification of total polyphenol contents from <i>Citrullus colocynthis</i> , TS Rizvi, F Mabood, Liaqat Ali , M Al-Broumi, H Al-Rabani, J Hussain, F Jabeen, S Manzoor, and A Al-Harrasi	<i>Phytochem Anal</i> , 29, 16-22, 2018	3.3
Year 2017 (Total Impact; 37.6 of 146.35)			
59	New enzyme inhibitory triterpenoid from marine macro brown alga <i>Padina boergesenii</i> Allender & Kraft, Liaqat Ali , AL Khan, M Al-Broumi, R Al-Harrasi, L Al-Kharusi, J Hussain, and A Al-Harrasi	<i>Marine Drugs</i> , 15, 19, 2017	5.4
58	Endophytes from medicinal plants and their potential in producing indole-acetic acid, improving seed germination, and culminating oxidative stress, AL Khan, A Al-Harrasi, K Al-Hosni, S Al-Khiziri, SA Gilani, M Waqas, Y-H Kim, Liaqat Ali , S-M Kang, S Asif, R Shehzad, J Hussain, and IJ Lee	<i>J Zhejiang University Sci B</i> , 18, 125-37, 2017	5.1
57	Development of new NIR-spectroscopy method combined with multivariate analysis for detection of adulteration in camel milk with goat milk, F Mabood, F Jabeen, J Hussain, M Ahmad, R Boque, Z Hussain, Liaqat Ali , and M Idrees	<i>Food Chemistry</i> , 221, 746-50, 2017	8.8

56	Two new sulfonoglycolipids from green alga <i>Codium dwarkense</i> , Liaqat Ali , L Al-Kharusi, and A Al-Harrasi	<i>Nat Prod Comm</i> , 12, 583-85, 2017	1.8
55	Hydroquinone; A novel bioactive compound from plant-derived smoke can cue seed germination of lettuce, M Kamran, AL Khan, Liaqat Ali , M Waqas, J Hussain, A Al-Harrasi, Y-H Kim, S-M Kang, B-W Yun, IJ Lee, and QM Imran	<i>Frontiers Chem</i> , 15, 30(1-8), 2017	5.5
54	One new phthalate derivative from <i>Nepeta kurramensis</i> , N Rehman, N Ahmad, J Hussain, Liaqat Ali , H Hussain, N Bakht, A Al-Harrasi, and ZK Shinwari	<i>Chem Nat Comp</i> , 53, 426-28, 2017	0.8
53	Multivariate and univariate statistical analyses of heavy metal concentration in vegetables and soil samples, M Idrees, Z Rehman, S Bibi, F Shah, H Gulab, J Hussain, Liaqat Ali , AL Khan, ZK Shinwari, and F Mabood	<i>Pak J Botany</i> , 49, 1167-71, 2017	1.2
52	Application of NIRS coupled with PLS regression as a rapid, non-destructive alternative method for quantification of KBA in <i>Boswellia sacra</i> , A Al-Harrasi, N Rehman, F Mabood, M Al-Broumi, Liaqat Ali , J Hussain, H Hussain, R Csuk, and S Al-Ameri	<i>Spectrochim Acta A</i> , 184, 277-85, 2017	4.4
51	Enzyme inhibitory metabolites from endophytic <i>Penicillium citrinum</i> isolated from frankincense producing <i>Boswellia sacra</i> , S Ali, AL Khan, Liaqat Ali , TS Rizvi, S Afzal, M Hamayun, and A Al-Harrasi	<i>Arch Microbiol</i> , 199, 691-00, 2017	2.8
50	New <i>p</i> -terphenyl from the fruit of <i>Citrullus colocynthis</i> (cucurbitaceae), TS Rizvi, Liaqat Ali , SS Al-Rawahi, and A Al-Harrasi	<i>Nat Pro Comm</i> , 12, 1099-00, 2017	1.8
Year 2016 (Total Impact; 5.0 of 108.75)			
49	Sorokinol, a new Enzymes inhibitory Metabolite from endophytic <i>Bipolaris sorokiniana</i> LK12, Isolated from <i>Rhazya stricta</i> , Liaqat Ali , AL Khan, J Hussain, A Al-Harrasi, M Waqas, S-M Kang, A Al-Rawahi, & I-J Lee	<i>BMC Microbiol</i> , 16, 103, 2016	4.2
48	Chemical composition of the essential oil from <i>Rynchosia reniformis</i> (Fabaceae) by GC-MS, N Ahmad, N Rehman, Liaqat Ali , TS Rizvi, AL Khan, JN Al-Sabahi, F Mabood, ZK Shinwari, A Al-Harrasi, and J Hussain	<i>Cienc Tec Vitivinic</i> , 31, 508-16, 2016	0.8
47	The phytochemical investigation and biological activity of <i>Nepeta clarkei</i> , N Rehman, H Hussain, N Bakht, Liaqat Ali , AL Khan, A Al-Harrasi, J Hussain	<i>Int J Phytomed</i> , 8, 202-207, 2016	
Year 2015 (Total Impact; 33.3 of 103.75)			
46	Norditerpenoid alkaloids from <i>Delphinium kohatense</i> Munz, Farzana Shaheen, Manzoor Ahmad, Tania Shamim Rizvi, and Liaqat Ali ,	<i>Rec Nat Prod</i> , 9, 76-80, 2015	1.9
45	Endophytic bacteria <i>Sphingomonas</i> sp. LK11 and gibberellins can improve <i>Solanum lycopersicum</i> growth and oxidative stress under salinity, BA Halo, AL Khan, M Waqas, A Al-Harrasi, J Hussain, Liaqat Ali , M Adnan, and I-J Lee	<i>J Plant Interact</i> , 10, 117-125, 2015	3.2
44	New Indole alkaloid from <i>Cleome droserifolia</i> , J Hussain, H Khan, Liaqat Ali , AL Khan, N Rehman, S Jahangir, and A Al-Harrasi	<i>Helv Chim Acta</i> , 98, 719-23, 2015	1.8
43	<i>In vivo</i> evaluation of analgesic, anti-inflammatory, and neuro-pharmacological activities of the chemical constituent from <i>Nepeta clarkei</i> , J Hussain, N Rehman, A Al-Harrasi, AL Khan, TS Rizvi, Mehjabeen, & Liaqat Ali ,	<i>Arch Pharmacol Res</i> , 38, 1188-94, 2015	6.7
42	Benzaldehyde as an insecticidal, antimicrobial, and antioxidant compound produced by <i>Photobacterium temperata</i> M1021, I Ullah, AL Khan, Liaqat Ali , AR Khan, M Waqas, I-J Lee, and J-H Shin	<i>J Microbiol</i> , 53, 127-133, 2015	3.0
41	Antioxidant Flavonoids from <i>Nepeta floccosa</i> Benth., Liaqat Ali , Samina Ali, Tania Shamim Rizvi, Abdul Latif Khan, Zahid Hassan, Ahmed Al-Harrasi, and Javid Hussain	<i>Rec Nat Prod</i> , 9, 567-571, 2015	1.9
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39	New α -glucosidase inhibitory triterpenic acid from <i>Codium dwarkense</i> , Liaqat Ali , Abdul Latif Khan, Lubna Al-Kharusi, Javid Hussain, and Ahmed Al-Harrasi	<i>Mar Drugs</i> , 13, 4344-56, 2015	5.4
38	A New cyclopropyl triterpenoid from <i>Ochradenus arabicus</i> , Liaqat Ali , R. Ahmad, N. Rehman, AL Khan, Z. Hassan, TS Rizvi, A. Al-Harrasi, ZK Shinwari, Javid Hussain	<i>Helv Chim Acta</i> , 98, 1240-4, 2015	1.8
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Year 2014 (Total Impact; 32.1 of 70.45)			
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34	Floccosic Acid, A New Triterpenic Acid from <i>Nepeta floccosa</i> , Liaqat Ali , Samina Ali, Javid Hussain, Ahmed Al-Harrasi, Syed Tasleem Hussain Shah, and Tania Shamim Rizvi	<i>Helv Chim Acta</i> , 97, 556-60, 2014	1.8
33	Nutritional Assessment and Mineral Composition of Selected Edible Vegetables, N Rehman, J Hussain, Liaqat Ali , AL Khan, SA Gillani, and A Al-Harrasi	<i>Europ J Med Pl</i> , 4, 444-457, 2014	
32	Two new and four known triterpenoids from <i>Boswellia sacra</i> Fluckiger, Liaqat Ali , Javid Hussain, Ahmed Al-Rawahi, and Ahmed Al-Harrasi	<i>Rec Nat Prod</i> , 8, 407-411, 2014	1.9
31	Nutritional assessment and antioxidant analysis of twenty two date palm (<i>Phoenix dactylifera</i>) varieties growing in Sultanate of Oman, A Al-Harrasi, N Rehman, J Hussain, M Al-Broumi, AL Khan, Liaqat Ali ,	<i>APJT Med</i> , 7(S1), S591-S598, 2014	3.1
30	First quantitative analysis of essential and trace elements in Omani frankincense resin and leaves using ICP-OES, A Al-Harrasi, S Al-Maawali, N Al-Azri, A Al-Rawahi, M Al-Sibani, N Rehman, J Hussain, Liaqat Ali	<i>Cienc Tec Vitivinic</i> , 29, 57-66, 2014	0.8
29	Isolation and bioactivities of Morin and Morin-3-O- β -D-glucopyranoside from <i>Acridocarpus orientalis</i> : a wild Arabian medicinal plant, J Hussain, Liaqat Ali , AL Khan, N Rehman, F Jabeen, J-S Kim, A Al-Harrasi	<i>Molecules</i> , 19, 17763-72, 2014	4.6
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26	An insecticidal compound produced by an insect-pathogenic bacterium suppresses host defenses through phenoloxidase inhibition, I Ullah, AL Khan, Liaqat Ali , AR Khan, M Waqas, I-J Lee, and J-H Shin	<i>Molecules</i> , 19, 20913-28, 2014	4.6
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23	Phytochemical and biological investigation of medicinally important plant <i>Ochradenus arabicus</i> , J Hussain, A Al-Harrasi, AL Khan, N Rehman, Liaqat Ali , J-S Kim, G Abbas, and A Zakarova	<i>Pak J Botany</i> , 46, 2027-2034, 2014	1.2
Year 2013 (Total Impact; 11.9 of 38.35)			
22	Isolation and Structure Elucidation of a New Triterpenoid from <i>Prunus cerasoides</i> , Liaqat Ali and Farzana Shaheen	<i>Rec Nat Prod</i> , 7, 80-85, 2013	1.9

21	Proximate Based Comparative Assessment of 5 Medicinal Plants to Meet the Challenges of Malnutrition, J. Hussain, N Rehman, AL Khan, Liaqat Ali , A Al-Harrasi, ZK Shinwari, H Hussain, and TS Rizvi	<i>Europ J Med Pl</i> , 3, 444-453, 2013	
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15	1st <i>in vitro</i> lipid peroxidation and <i>in vivo</i> anti-inflammatory activity of Omani frankincense of <i>Boswellia sacra</i> Flueck., A Al-Harrasi, A Al-Rawahi, J Hussain, Liaqat Ali , H Hussain, N Rehman, G Abbas, Mehjabeen, and R Al-Harrasi	<i>Int J Phytomed</i> , 5, 73-77, 2013	
14	Qualitative characteristics of the commonly used vegetables in Usterzai of Kohat Region, J Hussain, N Rehman, ZK Shinwari, Liaqat Ali , A Al-Harrasi, AL Khan, and F Mabood	<i>Pak J Bot</i> , 45, 2071-74, 2013	1.2
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13	Two New Phthalate derivatives from <i>Nepeta clarkei</i> , Javid Hussain, Najeeb Ur Rehman, Hidayat Hussain, Liaqat Ali , and Ahmed Al-Harrasi	<i>J Asian Nat Pro Res</i> , 14, 22-26, 2012	1.7
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11	Ajuganone: a new phenolic compound from <i>A. bracteosa</i> , Javid Hussain, Hidayat Hussain, Farmanullah Khan, Najeeb Ur Rehman, Ahmed Al-Harrasi, and Liaqat Ali	<i>Nat Prod Comm</i> , 7, 615-16, 2012	1.8
10	Cichorins B & C: two new isochromenes from <i>C. intybus</i> , H Hussain, J Hussain, S Ali, A Al-Harrasi, M Saleem, GA Miana, M Riaz, S Anwar, S Hussain, and Liaqat Ali	<i>J Asian Nat Pro Res</i> , 14, 297-00, 2012	1.7
9	Proximate Analysis of the Resins and Leaves of <i>Boswellia sacra</i> , Ahmed Al-Harrasi, Ahmed Al-Rawahi, Javid Hussain, Najeeb Ur Rehman, and Liaqat Ali	<i>J Med Plant Res</i> , 6, 3098-04, 2012	
8	Rhizonin A from <i>Burkholderia</i> sp. KCTC11096 and its growth promoting role in lettuce seed germination, S-M Kang, AL Khan, J Hussain, Liaqat Ali , M Kamran, M Waqas, and I-J Lee	<i>Molecules</i> , 17, 7980-88, 2012	4.6
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6	New iridoid glycoside from <i>Gratiola officinalis</i> , Liaqat Ali , Tania Shamim Rizvi, Manzoor Ahmad & Farzana Shaheen	<i>J Asian Nat Pro Res</i> , 14, 1191-95, 2012	1.7
Year 2011 (Total Impact; 3.0 of 8.9)			
5	Nepetalates A and B: Two New Phthalate Derivatives from <i>Nepeta clarkei</i> , J. Hussain, N. Rehman, H Hussain, Liaqat Ali , A. Al-Harrasi, and VU Ahmad	<i>Helv Chim Acta</i> , 94, 2106-10, 2011	1.8
4	Nutritional prospects and mineral compositions of selected vegetables from Dhoda sharif-Kohat, J Hussain, N Rehman, A Al-Harrasi, Liaqat Ali , H Hussain, and M Ismail	<i>J Med Plant Res</i> , 5, 6509-6514, 2011	
3	Determination of Macro and Micronutrients and Nutritional Prospects of six vegetable species of Mardan, Pakistan, J Hussain, N Rehman, AL Khan, A. Al-Harrasi, Liaqat Ali , and ZK Shinwari	<i>Pak J Bot</i> , 43, 2829-33, 2011	1.2
Year 2009 (Total Impact; 0.8 of 5.9)			
2	Antioxidant Flavonoids from <i>Tamus communis</i> ssp. <i>cretica</i> , Farzana Shaheen, Liaqat Ali , Sajjad Ali, Nurgun Erdemoglu, Bilge Sener	<i>Chem Nat Comp</i> , 45, 346-49, 2009	0.8
Year 2008 (Total Impact; 5.1 of 5.1)			
1	Solid Phase Total Synthesis of cyclic Decapeptide Phakellistatin 12, Liaqat Ali , Syed Ghulam Musharraf, and Farzana Shaheen	<i>J Nat Prod</i> , 71, 1059-62, 2008	5.1

Research Projects as PI/Co-PI:

No.	Title of the Research Project	Year/Duration	Funding Agency	Worth of Project	Status
1	Synthetic Studies on Anticancer Cyclic Peptides Phakellistatin 12 & 13 and Phytochemical Investigations on <i>Gratiola officinalis</i> and <i>Prunus cerasioides</i>	2006 (5 years)	HEC Pakistan	\$15,270	Completed
2	Phytochemical Investigations, Proximate Analysis, and Biological Activity of Some Selected Omani Medicinal Plants	2011 (1 year)	University of Nizwa	\$51,170	Completed
3	Exploration of <i>Padina boergesenii</i> from Marine Resources of Sultanate of Oman as a Source of Potential Lead Compounds for the Development of New Drugs	2014 (1 year)	University of Nizwa	\$72,730	Completed
4	Synthesis and Biological Screening of Organo-tin Complexes	2014 (1 year)	The Oman Research Council	\$6,235	Completed
5	Phytochemical Investigations on Omani Seaweeds species <i>Codium dwarkense</i>	2015 (1 year)	The Oman Research Council	\$5,715	Completed
6	Phytochemical and Biological Evaluation of Polar Secondary Metabolites from <i>Aloe dhufarensis</i>	2016 (1 year)	University of Nizwa	\$23,900	Completed

Team Member of the Research Projects:

No.	Title of the Research Project	Year/ Duration	Funding Agency	Worth of the Project	Status
1	Bio-assay Guided Phytochemical Investigations on <i>Tamus communis</i> , <i>Plantago major</i> and Related Medicinal Plants	2002 (3 years)	Islamic Development Bank	\$1,000,000	Completed
2	Phytochemical, Microbiological, and Proximate Analysis of Omani Frankincense (<i>Boswellia sacra</i>)	2011 (3 years)	The Oman Research Council	\$461,140	Completed
3	Phytochemical Investigations, Proximate Analysis, and Biological Activity of Some Selected Omani Medicinal Plants	2012 (3 years)	The Oman Research Council	\$1,371,430	Completed

PEER REVIEWED PUBLICATIONS

INTERNATIONAL PATENT

Method of purifying AKBA, Ahmed Al-Harrasi, Javid Hussain, and **Liaquat Ali, WO 2015166462 A1 (2015)**

PAPERS IN PEER REVIEWED JOURNALS

SUPERVISION/CO-SUPERVISION of RESEARCH STUDENTS

PhD Research Students:

No.	Name of Student	Title of the Research Project	Year
1	Samina Ali	Isolation, Structure Elucidation, and Biological Activities of <i>Nepeta fluccosa</i>	2014
2	Muhammad Nisar	Biological Evaluation of <i>Nepeta laevigata</i> , <i>Nepeta kurramensis</i> , and <i>Rhynchosia reniformis</i>	2013

MPhil Research Students:

No.	Name of Students	Title of the Research Project	Year
1	Amjad Khan	Isolation, Structure Elucidation, and Biological Activities of <i>Acridocarpus orientalis</i>	2015
2	Riaz Ahmad	Phytochemical and Biological Investigations of <i>Ochradenus arabicus</i>	2015
3	Hidayatullah Khan	Phytochemical and Biological Investigations of <i>Cleome droserifolia</i>	2014
4	Imtiaz Hussain	Phytochemical Studies of <i>Teucrium mascatense</i> and Biological Screening of the Chemical Constituents	2014

Graduation Research Students:

No.	Name of Students	Title of the Research Project	Year
1	Rubina Malik	Phytochemical and Biological Studies of various fractions of the aerial parts of <i>Gratiola officinalis</i> .	2019
2	Hira Karim	Phytochemical and Biological Studies of various fractions of the aerial parts of <i>Plantago major</i> .	2018
3	Sidra Faryal	Synthesis, characterization and biological screening of organotin complexes of 4-hydroxycoumarin.	2018

4	Bushra Anbreen	Phytochemical and Biological Studies of various fractions of the seeds of <i>Plantago major</i> .	2018
5	Rehana Khan	Synthesis, characterization and biological screening of organotin complexes of coumarin-3-carboxylate.	2018
6	Samata Obaid Al-Wahaibi	Phytochemical Investigations on Omani Seaweed <i>Codium dwarkense</i> Boergesen in search for Potential Lead Compounds for the Drug Discovery Process	2016
7	Ibtisam Ali Al-Wadhahi	Phytochemical Investigations on Omani Seaweed <i>Codium dwarkense</i> Boergesen in search for Potential Lead Compounds for the Drug Discovery Process	2016
8	Samah Ali Al-Khiyari	Synthesis, Characterization, and Biological Screening of Organotin Complexes	2015
9	Rahma Salim Al-Ameri	Synthesis, Characterization, and Biological Screening of Organotin Complexes	2015
10	Thuraya Saud Al-Nabi	Synthesis, Characterization, and Biological Screening of Organotin Complexes	2015
11	Raya Salim Al-Mashrafi	Phytochemical and Biological Investigations on <i>Cleome droserifolia</i>	2014
12	Aseela Rashid Al-Shabibi	GC-MS Analysis and Biological Evaluation of Essential oil of <i>Ziziphus mucronata</i>	2014
13	Koloud Ahmed Al-Balushi	Phytochemical and Biological Investigations on <i>Ochradenus arabicus</i>	2014
14	Jahina Juma Said Al-Skaiti	First and Reproducible Pyrolysate Products from Omani Frankincense Smoke: First Evidence of Thermal Aromatization of Boswellic Acids	2013
15	Iman Sultan Hamood Al-Hadhrami	First and Reproducible Pyrolysate Products from Omani Frankincense Smoke: First Evidence of Thermal Aromatization of Boswellic Acids	2013
16	Sara Ahmed Hamood Al-Hadhrami	First and Reproducible Pyrolysate Products from Omani Frankincense Smoke: First Evidence of Thermal Aromatization of Boswellic Acids	2013
17	Ms. Marwa Surur Harib Al-Alawi	Phytochemical Investigations on <i>Ochradenus arabicus</i>	2013
18	Ms. Zainab Zayid Al-Qasmi	Phytochemical Investigations and Nutritional Evaluation of the Omani Frankincense Obtained from <i>Boswellia sacra</i>	2012
19	Ms. Fatma Ali Al-Moqbali	Isolation and Structure Elucidation of AKBA from Omani Frankincense	2011
20	Mr. Khalid Ahmed Al-Ryami	GC-MS Analysis and Phytochemical Investigations on Omani Frankincense	2011

PUBLISHED BOOKS

- 1- Syntheses of Anticancer Cyclic Peptides, Phakellistatin 12 & 13: A comparative study of various linkers and cyclization strategies employed in Solid-Phase Peptide Synthesis, **Liaqat Ali**, Tania Rizvi, and Farzana Shaheen, LAP LAMBERT Academic Publishing, AV Akademikerverlag GmbH & Co. KG, Heinrich-Böcking-Str. 6-8, 66121 Saarbrücken, Germany (2012), ISBN: 978-3-8443-8589-2.
- 2- Phytochemical Investigations on Medicinal Plants I: Isolation, Structure Elucidation and Biological Evaluation of *Tamus communis*, *Plantago major*, and *Delphinium kohatense*, **Liaqat Ali**, Javid Hussain, and Farzana Shaheen, LAP LAMBERT Academic Publishing, AV Akademikerverlag GmbH & Co. KG, Heinrich-Böcking-Str. 6-8, 66121 Saarbrücken, Germany (2013), ISBN: 978-3-659-32582-3.
- 3- Phytochemical Studies on Medicinal Plants: Isolation, Structure Elucidation and Biological Evaluation of *Prunus cerasoides* and *Gratiola officinalis*, **Liaqat Ali**, Tania Rizvi, and Farzana Shaheen, LAP LAMBERT Academic Publishing, AV Akademikerverlag GmbH & Co. KG, Heinrich-Böcking-Str. 6-8, 66121 Saarbrücken, Germany (2013), ISBN: 978-3-659-34196-0.
- 4- Total Syntheses of Sansalvamide A, Cherimolapeptide C, E, & Analogues: The use of Safety-catch linker for SPPS and KB & MDA-MB-231 cell lines for Anticancer activity, Tania Rizvi, **Liaqat Ali**, and Farzana Shaheen, LAP LAMBERT Academic Publishing, AV Akademikerverlag GmbH & Co. KG, Heinrich-Böcking-Str. 6-8, 66121 Saarbrücken, Germany (2013), ISBN: 978-3-659-32870-1.
- 5- Phytochemical Investigations on *Sorbus cashmiriana*: Isolation, Structure Elucidation and Biological Evaluation of the chemical constituents, Tania Rizvi, **Liaqat Ali**, and Farzana Shaheen, LAP LAMBERT Academic Publishing, AV Akademikerverlag GmbH & Co. KG, Heinrich-Böcking-Str. 6-8, 66121 Saarbrücken, Germany (2013), ISBN: 978-3-659-34564-7.
- 6- Phytochemical Investigations of *Nepeta clarkei*: Isolation, Extraction, and Structural Elucidation of the chemical constituents, Najeeb Ur Rehman, Javid Hussain, and **Liaqat Ali**, LAP LAMBERT Academic Publishing, AV Akademikerverlag GmbH & Co. KG, Heinrich-Böcking-Str. 6-8, 66121 Saarbrücken, Germany (2013), ISBN: 978-3-659-34563-0.

ORAL PRESENTATIONS

1. Fraction Enhancement of the most Potent Component (AKBA) of *Boswellia* resin, **Liaqat Ali**, National Conference on Medicinal Plants from Food to Phytomedicine, Jointly Organized by University of Sargodha and University of Malakand, Oral (Abstract), NCPFP-73, **May 3-4, 2018**.
2. Fraction Enhancement of the most Potent Component (AKBA) of *Boswellia* resin, **Liaqat Ali**, First International Conference on Frankincense and Medicinal Plants: Recent Advances in Research and Industry, jointly organized by University of Nizwa and Sultan Qaboos University, Muscat, Sultanate of Oman, **October 30 to November 1, 2018**.

POSTER PRESENTATIONS

1. Active principles of bioactive constitute from *Aconitum Violaceum*. Muhammad Zeeshan, Manzoor Ahmad, M. Liaquat Raza, Humera Perveen, Tania Shamim Rizvi, Huma Javed, **Liaqat Ali**, Shabana U Simjee and Farzana Shaheen. AFASSA Symposium on Natural Products and Regional Meeting, Organized by ICCBS, University of Karachi. Poster (Abstract), PO-18, p. 33, July 25-27, 2005.
2. Extraction of bioactive constituents from *Delphinium nordhagenii*, Muhammad Liaquat Raza, Humera Perveen, Muhammad Zeeshan, **Liaqat Ali**, Manzoor Ahmad, Farzana Shaheen and Shabana U Simjee. 40th IUPAC Congress, Innovation in Chemistry Beijing China. Poster (Abstract), 2-P-076, August 14-19, 2005.
3. Anticonvulsant activity of DNS-II acetone fraction of *Delphinium nordhagenii*, M. Liaquat Raza, H. Perveen, M. Zeeshan, Manzoor Ahmad, **Liaqat Ali**, Tania Shamim Rizvi, Farzana Shaheen and Shabana U Simjee. AFASSA Symposium on Natural Products and Regional Meeting, Organized by ICCBS, University of Karachi. Poster (Abstract), PO-10, p. 25, July 25-27, 2005.
4. An efficient solid phase total synthesis of anticancer cyclic decapeptide phakellistatin 12, **Liaqat Ali**, and Farzana Shaheen, 11th International symposium on Natural product Chemistry Organized by ICCBS, University of Karachi. Poster (Abstract), PO-057, p. 137, October 30 to November 2, 2008.
5. The first phytochemical and pharmacological study on the Omani frankincense, **Liaqat Ali**, Najeeb Ur Rehman, Ahmed Al-Harrasi, Ahmed Al-Rawahi, Hidayat Hussain, Javid Hussain, and Fatma Ali Al-Moqbali, 1st International conference: Pharmacy in the era of globalization organized by the college of pharmacy and nursing, University of Nizwa, Oman. Poster (Abstract), PO-021, p. 49, January 24-26, 2012.
6. Analgesic, anti-inflammatory, and CNS depressant activities of new constituents of *Nepeta clarkei*, Javid Hussain, Najeeb Ur Rehman, **Liaqat Ali**, Hidayat Hussain, and Ahmed Al-Harrasi, 1st International conference: Pharmacy in the era of globalization 2012 organized by the college of pharmacy and nursing, University of Nizwa, Oman. Poster (Abstract), PO-020, p. 48, January 24-26, 2012.
7. Physico-chemicals properties and volatile compositions of Omani date palm (*Phoenix dactylifera*) fruits and seeds at different maturation stages. Najeeb Ur Rehman, **Liaqat Ali**, Ahmed Al-Harrasi, Ahmed Al-Rawahi, Javid Hussain, and Hidayat Hussain, 1st International conference: Pharmacy in the era of globalization 2012 organized by the college of pharmacy and nursing, University of Nizwa, Oman. Poster (Abstract), PO-023, p. 50, January 24-26, 2012.
8. Volatile compositions and proximate analysis of the six grades of Omani olibanum resin and leaves of *Boswellia sacra*. Rashid Al-Harrasi, Najeeb Ur Rehman, **Liaqat Ali**, Ahmed Al-Harrasi, Ahmed Al-Rawahi, Javid Hussain, and Hidayat Hussain, 1st International conference: Pharmacy in the era of globalization 2012 organized by the college of pharmacy and nursing, University of Nizwa, Oman. Poster (Abstract), PO-022, p. 49, January 24-26, 2012.
9. New Boswellic acid derivatives from the Omani frankincense (*Boswellia sacra*), **Liaqat Ali**, Najeeb Ur Rehman, Ahmed Al-Harrasi, Ahmed Al-Rawahi, Javid Hussain, and Hidayat Hussain, 12th National & 3rd International conference of Botany organized by Pakistan Botanical Society at Quaid-i-Azam University, Islamabad, Pakistan. Poster (Abstract), PPTE-020, p. 218, September 1-3, 2012.
10. Evaluation of Physico-chemical Characteristics and GC-MS Profile of Fruits and Seeds of Omani Date Palm (*Phoenix dactylifera* L.), Najeeb Ur Rehman, **Liaqat Ali**, Ahmed Al-Harrasi, Ahmed Al-Rawahi, Rashid Al-Harrasi, Javid Hussain, and Hidayat Hussain. 12th National & 3rd International conference of Botany organized by Pakistan Botanical Society at Quaid-i-Azam University, Islamabad, Pakistan. Poster (Abstract), PPTE-031, p. 222, September 1-3, 2012.
11. Nutritional Assessment and the Composition of Essential Oils Obtained from Different Grades of Omani Frankincense Resin and Leaves from *Boswellia sacra*, **Liaqat Ali**, Najeeb Ur Rehman, Ahmed Al-Harrasi, Ahmed Al-Rawahi, Javid Hussain, and Hidayat Hussain. 12th National & 3rd International conference of Botany organized by Pakistan Botanical Society at Quaid-i-Azam University, Islamabad, Pakistan. Poster (Abstract), PPTE-021, p. 219, September 1-3, 2012.
12. Phytopharmacology of *Nepeta clarkei*, Najeeb Ur Rehman, **Liaqat Ali**, Hidayat Hussain, Javid Hussain, and Ahmed Al-Harrasi, 12th National & 3rd International conference of Botany organized by Pakistan Botanical Society at Quaid-i-Azam University, Islamabad, Pakistan. Poster (Abstract), PPTE-032, p. 223, September 1-3, 2012.

13. Solid-Phase Total Synthesis of Phakellistatin 13 and its Alanine Substituted Analogues. **Liaqat Ali**, A. Ganesan, and Farzana Shaheen, 13th International symposium on Natural product Chemistry Organized by ICCBS, University of Karachi. Poster (Abstract), p. 137, September 22-25, 2012.

SEMINARS/PRESENTATIONS/CONFERENCES/WORKSHOPS

Seminars/Presentations Delivered:

1. A seminar on “Air stable catalysts for highly efficient enantioselective hydrogenation of aromatic ketones” at ICCBS, University of Karachi, January 2003.
2. A seminar on “Total synthesis of Didmolamide A and B with special reference to Solid Phase Synthesis” at ICCBS, University of Karachi, July 2005.
3. A seminar on “Recent Developments in the field of Biodegradation with special reference to Oil Contaminated Sea Water” at ICCBS, University of Karachi, October 2005.
4. Presentation on “Phytochemical Investigations on *Tamus communis*, *Plantago major*, and *Delphinium kohatense*” at ICCBS, University of Karachi, August 2006.
5. Seminar on “A Diosphenol based strategy for the total synthesis of (-)-terpestacin” at ICCBS, University of Karachi, August 2007.
6. Presentation on “Synthetic Studies on Anticancer Phakellistatins 12, 13 & Phytochemical Investigations on *Gratiola officinalis* and *Prunus cerasoides*” at ICCBS, University of Karachi, January 2010.
7. Presentation on “Solid-Phase Synthesis of Cyclic Peptides and Phytochemical Investigations on Medicinal Plants” at the office of the Dean of Sciences, University of Karachi, March 2012.
8. A lecture on “**Fraction enhancement of the most potent component (AKBA) of *Boswellia resin***” delivered in “**National Conference on Medicinal Plants: From Food to Phytomedicine**” jointly organized by University of Sargodha and University of Malakand, May 3-4, 2018.
9. A lecture on “**Exploring the bioactive potential of selected medicinal plants of soon valley of Pakistan**” delivered in “**First International Conference on Frankincense and Medicinal Plants: Recent Advances in Research and Industry**” jointly organized by University of Nizwa and Sultan Qaboos University, Muscat, Sultanate of Oman, October 30 to November 1, 2018.

Conferences/Workshops Organized:

1. Member of the organizing team in “9th International symposium on Natural product Chemistry” organized by HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, January 10-13, 2004.
2. Member of the organizing team in “3rd National Science Conference on Practical and Clinical Research on Products of Biological and Pharmaceutical Origin in Hospitals” organized by Department of Pharmacy, University of Karachi, Karachi-75270, April 17, 2004.
3. Member of the organizing team in “AFASSA Symposium on Natural Products and Regional Meeting” organized by HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, July 25-27, 2005.
4. Member of the organizing team in “10th International symposium on Natural product Chemistry” jointly organized by Pakistan Academy of Sciences, HEJ Research Institute of Chemistry, and Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, January 6-9, 2006.
5. Member of the organizing team in “Workshop on New Instrumentation and Applications of Mass Spectrometry” organized by HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, August 7-9, 2006.
6. Member of the organizing team in “11th International symposium on Natural product Chemistry” organized by HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, October 30-November 2, 2008.

Conferences/Workshops Attended:

1. 7th Eurasia conference organized by HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, **March 8-12, 2002.**

2. International Seminar on the role of science and technology in sustainable development, organized by HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, **September 22-23, 2002.**
3. Bangladesh-Pakistan bi-national Seminar on Natural Product Chemistry organized by HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, **September 24-26, 2002.**
4. 3rd International and 13th National Chemistry Conference jointly organized by Department of Chemistry and HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, **December 28-31, 2002.**
5. 6th International Symposium on protein Structure and Function organized by HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, **January 20-24, 2003.**
6. HEJ-COMSTECH (CPC)–TWAS International Workshop on the Development of Medicines from Plants held at HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, **September 8-13, 2003.**
7. 12th International symposium on Natural product Chemistry organized by HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, **November 22-25, 2010.**
8. 1st International conference: Pharmacy in the era of globalization 2012 organized by the college of pharmacy and nursing, University of Nizwa, Oman, **January 24-26, 2012.**
9. 12th National & 3rd International conference of Botany organized by Pakistan Botanical Society at Quaid-i-Azam University, Islamabad, Pakistan, **September 1-3, 2012.**
10. 13th International symposium on Natural product Chemistry organized by HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, **September 22-25, 2012.**
11. Workshop on Usage of Digital Resources, **Writing Peer Review Paper and Presenting Scientific Research at International Level** organized by University of Nizwa in collaboration with the US Civilian Research and Development Foundation (CRDF) at the University of Nizwa, Oman, **October 5-7, 2012.**
12. Marine Biotechnology Symposium, **Emerging Opportunities and Future Perspectives** organized by Centre of Excellence in Marine Biotechnology, Sultan Qaboos University, Oman, **November 12-13, 2013.**
13. International Workshop on **Saponins: A Group of Useful Natural Products** organized by Organization of Islamic Cooperation (OIC) Standing Committee on Scientific and Technological Cooperation (COMSTECH), Islamabad, Pakistan, **June 24-26, 2014.**
14. Workshop on **Writing Scientific Proposals and Research Papers as well as Managing Project Funds** by COACH International” organized by The Oman Research Council at University of Nizwa, Nizwa-616, Oman, **October 7-8, 2015.**
15. National Conference on **Medicinal Plants: From Food to Phytomedicine** jointly organized by University of Sargodha and University of Malakand, **May 3-4, 2018.**
16. **First International Conference on Frankincense and Medicinal Plants: Recent Advances in Research and Industry** jointly organized by University of Nizwa and Sultan Qaboos University, Muscat, Oman, **October 30 to November 1, 2018.**
17. **International Conference on Renewable Energy and Advanced Materials** organized by Center of Excellence in Physical chemistry, University of Peshawar, Pakistan, **March 6-8, 2023.**

AWARDS and ACHIEVEMENTS

1. Won a grant of Rs. 8,42,200/- to conduct a Conference in the Department of Chemistry, University of Sargodha, Sub-Campus Mianwali, Pakistan, **2018.**
2. The National Research Award for the best research in Environmental and Biological Sector for the year 2016 entitled “Two pyrolysate products from Omani frankincense smoke: First evidence of thermal aromatization of boswellic acids”, The Oman Research Council, October **2016.**
3. Won 2nd Prize on Poster Presentation in 1st International conference: Pharmacy in the era of globalization 2012 organized by the college of pharmacy and nursing, University of Nizwa, Sultanate of Oman, January 24-26, **2012.**
4. Obtained 740 marks with 68 percentiles in GRE Chemistry (ETS, International) in **2007.**

5. HEC Indigenous Scholarship (5 Years) awarded based on obtaining 69 marks with 97.5 percentile in NTS test (GAT) in **2004**.
6. HEJ Fellowship awarded on getting 1st position in the entry test at ICCBS in April **2002**.
7. Certificate awarded by the DG, National Guards for the services rendered in The National Cadet Corps in Govt Degree College for Boys Sargodha from 5th June **1991** to 18th May **1993**.

ACADEMIC REFERENCES

Prof. Dr. Shahid Munir
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Prof. Dr. Javid Hussain
Professor of Organic Chemistry
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