

Dr. Farwa Nadeem

1. Demographics

- ❖ First Name: Farwa
- ❖ Last Name: Nadeem
- ❖ Father's Name: Nadeem Anwar
- ❖ Husband's Name: Muhammad Saqib Alahi
- ❖ Gender: Female
- ❖ Marital Status: Married
- ❖ Nationality: Pakistani
- ❖ Religion: Islam



2. Personal Information

- ❖ CNIC No: 33100-6508019-0
- ❖ Date of Birth: 15.12.1993
- ❖ Domicile: Faisalabad, Punjab, Pakistan
- ❖ Departmental Address: Department of Chemistry, UAF, Pakistan
- ❖ Mobile Number: 0370-6544290
- ❖ Email Address: farwa668@gmail.com

3. Academic Record

Doctor of Philosophy (2022)

- ❖ Degree: Ph.D. (Chemistry)
- ❖ Year of Passing: 2022
- ❖ Institution: University of Agriculture, Faisalabad, Pakistan
- ❖ Registration No: 2014-ag-1220
- ❖ Specialization: Chemistry (Analytical Chemistry)
- ❖ Grade/CGPA: 3.63/4.00
- ❖ Title of Dissertation: Effects of structurally different plant growth regulators (PGRs) on the menthol contents of *Mentha arvensis*
- ❖ Notification: 11th Aug, 2022

Master of Philosophy (2018)

- ❖ Degree: M.Phil (Chemistry)
- ❖ Year of Passing: 2018
- ❖ Institution: University of Agriculture, Faisalabad, Pakistan
- ❖ Registration No: 2014-ag-1220
- ❖ Specialization: Chemistry (Analytical Chemistry)
- ❖ Grade/CGPA: 4.00/4.00
- ❖ Title of Dissertation: Production and characterization of *Pongamia pinnata* fatty acid methyl esters by optimizing carbon chain length
- ❖ Honors: "Silver Medal–The Highest Award at Post-Graduate Level" by Chancellor, University of Agriculture, Faisalabad, Pakistan
- ❖ Notification: 1st Nov, 2018

Master of Science (2016)

- ❖ Degree: M.Sc (Chemistry)
- ❖ Year of Passing: 2016
- ❖ Institution: University of Agriculture, Faisalabad, Pakistan
- ❖ Registration No: 2014-ag-1220
- ❖ Specialization: Chemistry (Organic Chemistry)

- ❖ Grade/CGPA: 3.77/4.00
- ❖ Title of Report: Morphine: Synthesis, Characterization and Applications
- ❖ Notification: 6th Aug, 2016

Bachelor of Science (2014)

- ❖ Degree: B.Sc (Botany, Zoology and Chemistry)
- ❖ Year of Passing: 2014
- ❖ Institution: University of the Punjab, Lahore, Pakistan
- ❖ Registration No: 2012-pfs-44
- ❖ Major Subjects: Botany, Zoology and Chemistry
- ❖ Marks Obtained: 546/800 (1st Division)
- ❖ Notification: 20th Aug, 2014

Faculty of Science (2012)

- ❖ Degree: F.Sc (Pre-Medical)
- ❖ Year of Passing: 2012
- ❖ Institution: Punjab College (for women), Jaranawala Road, Faisalabad, Pakistan
- ❖ Board: Board of Intermediate and Secondary Education, Faisalabad
- ❖ Registration No: 2-200158-00373-2010
- ❖ Marks Obtained: 927/1100 (A⁺ Grade)
- ❖ Notification: 8th Sep, 2012

Matriculation (2010)

- ❖ Class: Matriculation (Bio-Group)
- ❖ Year of Passing: 2010
- ❖ Institution: Rabia Public High School, 7-Gulshan Colony, Faisalabad, Pakistan
- ❖ Board: Board of Intermediate and Secondary Education, Faisalabad
- ❖ Registration No: 2-0657-00032-08
- ❖ Marks Obtained: 905/1050 (A⁺ Grade)
- ❖ Notification: 4th Aug, 2010

4. Professional Degrees and Diplomas

Bachelor of Education (2019)

- ❖ Degree: B.Ed (1.5 Years)
- ❖ Year of Passing: 2019
- ❖ Institution: Allama Iqbal Open University, Islamabad, Pakistan
- ❖ Registration No: 16PLR11979
- ❖ Specialization: Science Education
- ❖ Marks Obtained: 1332/1800 (A Grade)
- ❖ Title of Dissertation: Comparative Analysis of Electronic Learning Aids and Conventional Methods on Science Education at Government MC Girls Higher Secondary School, Bhawana Bazar, Faisalabad, Pakistan
- ❖ Notification: 17th April, 2019

Diploma in Homoeopathic Medicine and Surgery (2017)

- ❖ Diploma: D.H.M.S (Four Years)
- ❖ Year of Passing: 2017
- ❖ Institution: National Council for Homoeopathy, Government of Pakistan
- ❖ Registration No: 039-P/FAB/2012-13
- ❖ Specialization: Homoeopathic Medicines and Minor Surgery
- ❖ Marks Obtained: 1941/2600
- ❖ Honors: I got "1st Position" in National Council for Homoeopathy (NCH) in the year 2013 (1st Year of D.H.M.S) and won gold medal for being a

"Council Topper" and stood 1st in Faisalabad Division in the year 2015
(3rd Year of D.H.M.S)
16th Feb, 2017

❖ Notification:

5. Publications

Impacted Papers

- 1) **Farwa Nadeem**, Muhammad Asif Hanif, Najla Al Masoud, Taghrid S. Alomar, and Adnan Younis. 2024. Efficient nanostructured materials to reduce nutrient leaching to overcome environmental contaminants. *Scientific Reports*. Accepted (8th February, 2024) and Published Online (27th February, 2024). 14: 4772. (IF (2024): 4.996). (ISSN: (Online): 2045-2322).
- 2) Ifrah Javed, Muhammad Asif Hanif, Umer Rashid, **Farwa Nadeem**, Fahad A. Alharthi and Elham Ahmed Kazerooni. 2022. Enhancing Functionalities in Nanocomposites for Effective Dye Removal from Wastewater: Isothermal, Kinetic and Thermo-dynamic Aspects. *Water*. Accepted (18th August, 2022) and Published Online (24th August, 2022). 14(17): 2600-2618. (IF (2024): 3.53). (ISSN: 2073-4441).
- 3) Summayia Inam, Muhammad Asif Hanif, Umer Rashid, **Farwa Nadeem**, Fahad A. Alharthi and Elham Ahmed Kazerooni. 2022. The Novel Approach of Catalytic Interesterification, Hydrolysis and Transesterification of *Pongamia pinnata* Oil. *Catalysts*. Accepted (9th August, 2022) and Published Online (15th August, 2022). 12(8): 896-909. (IF (2024): 4.501). (ISSN: 2073-4344).
- 4) **Farwa Nadeem**, Muhammad Asif Hanif, Khurram Shahzad, Ahmed Saleh Ahmed Summan and Arshid Mahmood Ali. 2022. Cost-efficient biodiesel production from *Pongamia pinatta* by optimizing carbon chain length using condensation polymerization, catalytic breakdown, kink production, and double bond induction in the feedstock oil. *Chemical Papers*. Accepted (8th June, 2022) and Published Online (28th July, 2022). 76: 6915–6929. (IF (2023): 2.146). (ISSN: 03666352, 13369075).
- 5) **Farwa Nadeem**, Muhammad Asif Hanif, Ijaz Ahmad Bhatti and Rashad Waseem Khan Qadri. 2022. Improved spectrophotometric method for fast and accurate quantitative determination of menthol in essential oils. *Food Analytical Methods*. Accepted (7th December, 2021) and Published Online (27th January, 2022). 15: 1575-1580. (IF (2024): 3.498). (ISSN: 1936-9751).
- 6) Marrium Almas Dutt, Muhammad Asif Hanif, **Farwa Nadeem** and Haq Nawaz Bhatti. 2020. A review of advances in engineered composite materials popular for wastewater treatment. *Journal of Environmental Chemical Engineering*. Accepted (17th May, 2020) and Published Online (25th May, 2020). 8(5): 104073. (IF (2024): 7.7). (ISSN: 2213-3437).
- 7) Mirza Muhammad Ikram, Muhammad Asif Hanif, Ghufrana Samin Khan, Umer Rashid and **Farwa Nadeem**. 2019. Significant Seed Oil Feedstocks for Renewable Production of Biodiesel: A Review. *Current Organic Chemistry*. Accepted (6th December, 2018) and Published Online (1st June, 2019). 23(14): 1509-1516. (IF (2024): 2.226). (ISSN: (Print): 1385-2728 and (Online): 1875-5348).

International Book Chapters

- 1) Muhammad Asif Hanif, **Farwa Nadeem**, Muhammad Zahid, Farkhanda Ghafoor Khan, Asma Hanif and Muhammad Nadeem Akhtar. 2021. Use of Nanotechnology based Nano-Adsorbents for Wastewater Treatment. In: *Aquananotechnology: Applications of Nanomaterials for Water Purification*. Elsevier. 1: 523-548.
(Paperback ISBN: 9780128211410 and eBook ISBN: 9780128211427)
- 2) **Farwa Nadeem**, Muhammad Asif Hanif, Asma El Zerey-Belaskri, Muhammad Irfan Majeed and Haq Nawaz. 2020. Anti-Diabetic and Anti-Hypertensive Potentials of Essential Oil Bearing Medicinal Plants. In: *Phytotherapy in the Management of Diabetes and Hypertension*. Bentham Science. 3: 61-94.
(Paperback ISBN: 978-981-14-5911-5 and eBook ISBN: 978-981-14-5913-9)

- 3) **Farwa Nadeem**, Muhammad Asif Hanif, Ijaz Ahmad Bhatti, Muhammad Idrees Jilani and Rashid Al-Yahyai. 2020. Basil. In: Medicinal Plants of South Asia: Novel Sources for Drug Discovery. Elsevier. 1: 47-62.
(Paperback ISBN: 9780081026595 and eBook ISBN: 9780081026601)
- 4) **Farwa Nadeem**, Muhammad Asif Hanif, Ijaz Ahmad Bhatti and Shahzad Maqsood Ahmed Basra. 2020. *Moringa oleifera*. In: Medicinal Plants of South Asia: Novel Sources for Drug Discovery. Elsevier. 1: 509-523.
(Paperback ISBN: 9780081026595 and eBook ISBN: 9780081026601)

International Books

- 1) Muhammad Asif Hanif, **Farwa Nadeem**, Umer Rashid and Rida Tariq. 2021. Renewable and Alternative Energy Resources. Elsevier.
(Paperback: ISBN-10: 0128181508 and ISBN-13: 978-0128181508)
- 2) Muhammad Asif Hanif, **Farwa Nadeem**, Ijaz Ahmad Bhatti and Hafiz Muhammad Tauqeer Khan. 2020. Environmental Chemistry: A Comprehensive Approach. Wiley-Scrivener.
(Paperback: ISBN-10: 1119650917 and ISBN-13: 978-1119650911)

Abstracts Published

- 1) **Farwa Nadeem**, Muhammad Asif Hanif and Ijaz Ahmad Bhatti. "Preparation and application of novel nano-formulated biostimulants for enhanced aromatic productions with better environmental assimilation" in International Conference of Functional Materials and Emerging Technologies (ICFMET-2024) under ICFMET/89 on 25-26 November, 2024 in Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 2) **Farwa Nadeem**, Muhammad Asif Hanif and Ijaz Ahmad Bhatti. "Combating environmental challenges to ensure higher production of industrially valuable secondary metabolites of *Mentha arvensis* L." in International Conference of Functional Materials and Emerging Technologies (ICFMET-2024) under ICFMET/88 on 25-26 November, 2024 in Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 3) **Farwa Nadeem**, Muhammad Asif Hanif, Ijaz Ahmad Bhatti and Rashad Waseem Khan Qadri. "Fast and accurate quantitative determination of menthol contents in essential oil of *Mentha arvensis* L." in the two days' 5th National and 1st International Symposium on Writing Science and Leveraging Scientific Research (WSLSR-2022) on 2-3 March, 2022 in Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 4) Summayia Inam, Muhammad Asif Hanif, Ayesha Mushtaq, **Farwa Nadeem** and Ijaz Ahmad Bhatti. "Impacts of derivatization on physiochemical properties of fatty acid methyl esters (FAME)—A comprehensive review" in the two days' 5th National and 1st International Symposium on Writing Science and Leveraging Scientific Research (WSLSR-2022) on 2-3 March, 2022 in Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 5) **Farwa Nadeem**, Muhammad Asif Hanif, Ijaz Ahmad Bhatti and Muhammad Jafar Jaskani. "Optimization of Carbon Chain Length for Production of Superior Quality Biodiesel from waste Seed Oil" in International Conference on Green Energy Technologies: Opportunities and Challenges (GET) held on October 29-30, 2019 in Abstract Book under ISBN: 978-969-9035-18-0 edited by Anjum Munir, Oliver Hensel, Allah Bakhsh, Waseem Amjad and Rizwan Tabassum.
- 6) **Farwa Nadeem**, Muhammad Asif Hanif, Haq Nawaz and Muhammad Jafar Jaskani. "*Pongamia Pinnata* Waste Oil Gold for Green Economy" in International Symposium on Technologies and Materials for Renewable Energy, Environment and Sustainability under TMREES/OP/52 held on 6-7th Feb 2019 in Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.

6. Workshops, Conferences and Symposiums

Professional Achievements

- 1) Received "Certificate for successfully completing Post Induction Training and Professional Development" from 10th October, 2024 to 1st November, 2024 organized by Directorate of Academics and Teaching Resource Centre under supervision of Director Academics (Prof. Dr.

Babar Shahbaz) and Vice Chancellor (Prof. Dr. Muhammad Sarwar Khan), University of Agriculture, Faisalabad, Pakistan.

- 2) Received "**Silver Medal Certificate**" for being at the top in the "Master of Philosophy" (M.Phil) in Chemistry in the Examination Year 2018, by the Controller of Examinations, University of Agriculture, Faisalabad, Pakistan on 22nd October, 2022.
- 3) Received "**Ph.D. Completion Certificate**" with remarks of Dr. Farwa Nadeem (2014-ag-1220), Congratulations on receiving a Ph.D. which is no less than a coronation. Felicitations for being crowned as "**Doctor**". Best wishes for your futuristic endeavors by Prof. Dr. Zahir Ahmad Zahir, Director ORIC (Office of Research Innovation and Commercialization), University of Agriculture, Faisalabad, Pakistan under No. 6162/ORIC on 15th September, 2022.
- 4) Received "**Certificate of Excellence**" and "**Best Book Award**" for publication of "Environmental Chemistry – A Comprehensive Approach" written by Muhammad Asif Hanif, Farwa Nadeem, Ijaz Ahmad Bhatti and Hafiz Muhammad Touqeer by Martin Scrivener (President of Scrivener Publishing) and Phil Carmical (Publisher of Scrivener Publishing) on 29th July, 2022.

Formal Proceedings

- 1) Certificate of appreciation for participation in International Conference of "**Chemistry, Materials and Technology (CMT-2023)**" and "**Alumni Gathering**" on 15-16 March, 2023, organized by the Prof. Dr. Ijaz Ahmad Bhatti (Chairman/Principle Organizer) and Dr. Muhammad Asif Hanif / Dr. Nazish Jahan (Organizing Secretary) at Iqbal Auditorium, Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 2) Certificate of appreciation for participation in the one day workshop on "**Helping People to Develop Safe and Sustainable Water for Use**" for sharing output of the Endowment Fund Secretariat (EFS) project entitled "Solar Powered Electrocoagulation Based Systems For Providing Purified Water" on 23rd December, 2022, organized by Prof. Dr. Ijaz Ahmed Bhatti (Chairman) and Dr. Muhammad Asif Hanif (Principal Investigator (PI)/Organizer/Associate Professor), Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 3) Certificate of appreciation in recognition for her meritorious service and participation in 1st International Symposium on "**Frontiers in Computational Chemistry**" on 4-5 July, 2022, organized by the Prof. Dr. Ijaz Ahmad Bhatti (Chairman/Principal Organizer), Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 4) Certificate of participation in the two days' 5th National and 1st International Symposium on "**Writing Science and Leveraging Scientific Research (WSLSR-2022)**" on 2-3 March, 2022, organized by the Prof. Dr. Ijaz Ahmad Bhatti (Chairman) and Dr. Muhammad Zahid (Organizing Secretary), Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 5) Certificate of participation in the one day workshop on "**The Production of Menthol Crystals for Commercial Applications**" on 06th January, 2022, organized by the Prof. Dr. Ijaz Ahmad Bhatti (Chairman) and Dr. Muhammad Asif Hanif (Organizer), Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 6) Certificate of participation in one day workshop on "**Discovering the innovative progressions in catalysis**" held on 20th December, 2021, organized by Prof. Dr. Ijaz Ahmad Bhatti (Chairman and Principle Organizer) and Dr. Muhammad Asif Hanif (Co-Organizer), Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 7) Certificate of participation in "**The Future of Frankincense on-line Workshop 15th, 17th, 18th March 2021 1-4 GMT**" in recognition and appreciation of the field work carried out and presentation made at the Future of Frankincense (FOF) On-line Workshop, organized by the Global Frankincense Alliance (GFA).
- 8) Certificate of participation in "**Online training workshop on Computational Density Functional Theory**" under Certificate ID: RWH9UQ-CE000458 on 04-07-2020 and 05-07-2020, organized by the Dr. C. Ravikumar (Coordinator) and Mr. S. Alfred Xavier (Principal), Thanthai Periyar Government Polytechnic College Vellore-632 002, Tamil Nadu, India.

- 9) Certificate of participation in "**Research, Scientific and Technical (RSCITECH-2020) Writing**" held on 27-28th February, 2020, organized by Prof. Dr. Ijaz Ahmad Bhatti (Chairman/Principle Organizer) and Dr. Muhammad Asif Hanif (Co-Organizer), Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 10) Certificate of participation in workshop on "**Effective Scientific Writing**" on 30th January, 2020, organized by Prof. Dr. Ijaz Ahmad Bhatti (Chairman) and Dr. Muhammad Asif Hanif (Associate Professor), Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 11) Certificate of participation in "**2-day National Training Workshop on Plant DNA Barcoding**" held on 7-8 December, 2019, organized by Molecular Care, University of Agriculture, Faisalabad under supervision of Project In-charge Molecular Care, Prof. Dr. Amer Jamil, Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan.
- 12) Certificate of participation in "**International Conference on Green Energy Technologies: Opportunities and Challenges (GET)**" on October 20-30, 2019, organized by University of Agriculture, Faisalabad, Pakistan, International Centre for Development and Decent Work and Higher Education Commission, Pakistan.
- 13) Certificate of participation in "**One Day Nano-Tech Meeting on Wastewater Treatment**" on May 3rd 2019, organized by Prof. Dr. Ijaz Ahmad Bhatti, Chairman Department of Chemistry in collaboration with Endowment Fund Secretariat, University of Agriculture, Faisalabad, Pakistan.
- 14) Certificate of participation in "**National Symposium on Green Chemistry: Recent Trends and Opportunities**" held on April 30, 2019, organized by Department of Chemistry, University of Sargodha, Sargodha, Pakistan, chaired by Dr. Farooq Anwar, Chairman Department of Chemistry under supervision of Dr. Ishtiaq Ahmad, Vice Chancellor, University of Sargodha.
- 15) Certificate of participation in "**International Symposium on Technologies and Materials for Renewable Energy, Environment and Sustainability**" on 06.02.2019 to 07.02.2019 at Department of Chemistry, University of Agriculture, Faisalabad, Pakistan, chaired by Prof. Dr. Hassan Mahmood Khan, Prof. Dr. Tapas Malick, Prof. Dr. Farah Kanwal, Prof. Dr. Tahira Iqbal, Prof. Lamia Hamrouni, Dr. Anjum Munir and Dr. Asma El Zerey-Belaskri and co-chaired by Prof. Dr. Haq Nawaz Bhatti, Prof. Dr. Umer Rashid, Prof. Dr. Amer Jamil, Prof. Dr. Farooq Anwar, Dr. Abdul Ghaffar, Dr. Muhammad Shahid and Dr. Ahsan.
- 16) Certificate of participation in "**2nd International Conference of Biochemistry, Biotechnology and Biomaterials**" from 09.12.2018 to 11.12.2018 with motto of "Biochemistry for Better Health and Environment in the Developing World", organized by Prof. Dr. Amir Jamil, Dr. Muhammad Shahid and Prof. Dr. Khalil-ur-Rehman in Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan.
- 17) Certificate of Participation in International Conference on "**New Frontiers in Experimental and Theoretical Physics**", organized by Dr. Abdul Ghaffar, Prof. Dr. Muhammad Asghar Bajwa and Prof. Dr. Muhammad Iqbal Zafar with the help of PARB, ORIC and USDA in Department of Physics, University of Agriculture, Faisalabad, Pakistan from 16.04.2018 to 17.04.2018.
- 18) Certificate of Appreciation in recognition of having active participation in one day training workshop on "**Bioassays for Exploration of Bioactivities**", jointly organized by Dr. Muhammad Shahid, Prof. Dr. Khalil-ur-Rehman and Prof. Dr. Muhammad Asghar Bajwa from Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan.
- 19) Certificate of Participation in 2nd workshop on "**Research Paper Writing**", jointly organized by Dr. Muhammad Asif Hanif and Prof. Dr. Ijaz Ahmad Bhatti, Chairman Department of Chemistry, University of Agriculture, Faisalabad, Pakistan on 29.01.2018.
- 20) Certificate of Participation in workshop on "**Writing Scientific Research**", organized by Dr. Muhammad Asif Hanif and Prof. Dr. Ijaz Ahmad Bhatti, Chairman Department of Chemistry, University of Agriculture, Faisalabad, Pakistan on 26.01.2018.
- 21) Certificate of Participation in 2nd workshop on "**Advanced Chemical Techniques in Natural and Applied Sciences**" from 18.09.2017 to 20.09.2017, organized by Dr. Bushra Sultana, Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.

- 22) Certificate of Appreciation for taking part in "**Workshop on Spectroscopic Techniques for Characterization of Organic Compounds**", organized by Dr. Raja Adil Sarfraz, Central High-Tech Laboratory, Department of Chemistry, University of Agriculture, Faisalabad, Pakistan from 15.08.2017 to 16.08.2017.
- 23) Certificate of Participation in "**International Workshop on Diversification Value Addition of Floriculture**" from 01.03.2017 to 02.03.2017, organized by Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Pakistan under Prof. Dr. Aman Ullah Malik, Prof. Dr. Muhammad Amjad and Prof. Dr. Iqrar Ahmad Khan (S.I).
- 24) Certificate of Participation for attending "**Technical and Patent Writing Workshop**" on 28.01.2017, organized by Prof. Dr. Haq Nawaz Bhatti, Chairman Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 25) Certificate of Appreciation for attending "**Training on Crystal Structure Determination by X-Ray Crystallography**" from 07.11.2016 to 02.12.2016, organized by Prof. Dr. Haq Nawaz Bhatti, Chairman Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.

Informal Proceedings

- 1) Received certificate of appreciation for recognition as "**Organizer**" in "International Conference of Functional Materials and Emerging Technologies (ICFMET-2024)" on 25-26th November, 2024 by Principle Organizer (Prof. Dr. Ijaz Ahmad Bhatti) and Organizing Secretary (Prof. Dr. Nazish Jahan and Dr. Saba Jamil), Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 2) Received certificate of appreciation for recognizing as "**Poster Session Student Organizer**" in "Research, Scientific and Technical (RSCITECH-2020) Writing", held on 27-28th February, 2020 by Principle Organizer (Prof. Dr. Ijaz Ahmad Bhatti) and Co-Organizer (Dr. Muhammad Asif Hanif), Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 3) Received certificate of excellence as group member of "Group 3" for "**Floral Arrangements and Orange Day Celebrations**", organized by Campus Coordinator at KIPS college (GC-3), Sargodha Road Campus, Faisalabad, Pakistan on 02.02.2019.
- 4) Certificate of Appreciation for acting as the "**Head of the Management Team in Certificate Distribution Ceremony**" in "Annual Function", arranged by the Chemical Society under guidance of senior advisor, Dr. Muhammad Asif Hanif and Prof. Dr. Ijaz Ahmad Bhatti, Chairman Department of Chemistry, University of Agriculture, Faisalabad, Pakistan on 15.03.2018.
- 5) Certificate of Appreciation for acting as the "**Member of Organizing Committee**" in "Annual Function", arranged by Chemical Society under guidance of senior advisor, Dr. Muhammad Asif Hanif and Prof. Dr. Ijaz Ahmad Bhatti, Chairman Department of Chemistry, University of Agriculture, Faisalabad, Pakistan on 15.03.2018.
- 6) Certificate of Appreciation for attending "**Two Days Workshop on Soft Skills and English Language Anxiety**" from 20.04.2017 to 21.04.2017, organized by In Charge Quiz Club, Office of the Senior Tutor in Collaboration with Department of Humanities and Linguistics, University of Agriculture, Faisalabad, Pakistan.
- 7) Certificate of Participation in "**One Day Training Workshop on Event Hosting, Comparing and Public Speaking**", organized by Office of the Senior Tutor, University of Agriculture, Faisalabad, Pakistan under guidance of Dr. Muhammad Ather Javed Khan on 28.10.2016.

Oral Presentations

- 1) Oral presentation on "**Effects of structurally different plant growth regulators (PGRs) on the menthol contents of *Mentha arvensis***" on 06.01.2022 in the one day workshop on "The Production of Menthol Crystals for Commercial Applications", organized by Dr. Muhammad Asif Hanif and Prof. Dr. Ijaz Ahmad Bhatti, Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 2) Oral presentation on "**Optimization of Carbon Chain Length for Production of Superior Quality Biodiesel from Waste Seed Oil**" on 29.10.2019 in "International Conference on Green Energy

Technologies: Opportunities and Challenges (GET)", in CAS Auditorium and Video Conference Room (DLC-II), University of Agriculture, Faisalabad, Pakistan.

- 3) Oral presentation on "*Pongamia Pinnata* Waste Oil Gold for Green Economy" on 07.02.2019 in "International Symposium on Technologies and Materials for Renewable Energy, Environment and Sustainability", organized by Chairman Department of Chemistry, Prof. Dr. Ijaz Ahmad Bhatti and co-organized by Principle PARS Campus, Prof. Dr. Haq Nawaz Bhatti.

Poster Presentations

- 1) Certificate of "Winner Poster Competition in Track-I" entitled "How to write a scientific book? Some effective tools for recognition in international scientific community" in 5th National and 1st International Symposium on "Writing Science and Leveraging Scientific Research (WSLSR-2022)", organized by Department of Chemistry, University of Agriculture, Faisalabad, Pakistan from 02/03/2022 to 03/03/2022.
- 2) Certificate of "Runner-up Poster Competition in Track-VI" entitled "Fast and accurate quantitative determination of menthol contents in essential oil of *Mentha arvensis* L." in 5th National and 1st International Symposium on "Writing Science and Leveraging Scientific Research (WSLSR-2022)", organized by Department of Chemistry, University of Agriculture, Faisalabad, Pakistan from 02/03/2022 to 03/03/2022.
- 3) Poster presentation on [A: Track-I] "How to write a scientific book? Some effective tools for recognition in international scientific community", [B: Track-VI] "Providing for the future: Major agricultural problems and probable outcomes", [C: Track-VI] "Fast and accurate quantitative determination of menthol contents in essential oil of *Mentha arvensis* L." and [D: Track-VII] "Cost-efficient production of *Pongamia pinatta* fatty acid methyl esters (FAME) by the optimization of carbon chain length" on 2-3 March, 2022 in the two days' 5th National and 1st International Symposium on "Writing Science and Leveraging Scientific Research (WSLSR-2022)", organized by Prof. Dr. Ijaz Ahmad Bhatti (Chairman) and co-organized by Dr. Muhammad Zahid, Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 4) Poster presentation on (a) "Highlighting the conventional agricultural practices and associated problems" (b) "Improved Spectrophotometric Method for Fast and Accurate Quantitative Determination of Menthol in Essential Oils" and (c) "Nanotechnology: A new frontier in agriculture" on 06th January, 2022 in the one day workshop on "The Production of Menthol Crystals for Commercial Applications", organized by Prof. Dr. Ijaz Ahmad Bhatti (Chairman) and co-organized by Dr. Muhammad Asif Hanif, Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 5) Poster presentation on (a) "Dye Sequestration using Calcinized, Alginate and Hybrid Materials" (b) "Dye Adsorption using Bentonite and Zeolite based Composite Material" and (c) "Wastewater treatment using biocomposite materials" on 27-28th February, 2020 in "Research, Scientific and Technical (RSCITECH-2020) Writing", organized by Prof. Dr. Ijaz Ahmad Bhatti (Chairman) and co-organized by Dr. Muhammad Asif Hanif, Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.
- 6) Poster presentation on "Optimization of Carbon Chain Length for Production of Superior Quality Biodiesel from Waste Seed Oil" on 29.10.2019 in "International Conference on Green Energy Technologies: Opportunities and Challenges (GET)", under chair of Prof. Dr. Muhammad Ashraf (Vice Chancellor), Prof. Dr. Zaoxiao Zhang (Xi'an Jiaotong University, China) and Engr. Dr. Nasir Mahmood Khan (Additional Registrar, Pakistan Engineering Council) with Poster Number E-34 and got 2nd position with cash prize of Rs. 2000/- by Prof. Dr. Zaoxiao Zhang.
- 7) Certificate of Poster Presentation awarded to Farwa Nadeem, Muhammad Asif Hanif, Haq Nawaz and Muhammad Jafar Jaskani on "*Pongamia Pinnata* Waste Oil Gold for Green Economy" in "International Symposium on Technologies and Materials for Renewable Energy, Environment and Sustainability", on 07.02.2019 at Department of Chemistry, University of Agriculture, Faisalabad, Pakistan.

Souvenirs, Awards and Medals

- 1) Received "**Silver Medal**" for standing first in the whole batch of M.Phil Chemistry (2018) by the Chancellor, Muhammad Baligh Ur Rehman and Vice Chancellor, Iqar Ahmad Khan (S.I.) at 25th Convocation of the University of Agriculture, Faisalabad, Pakistan on 22.10.2022.
- 2) Souvenir for winning "**1st Price in Poster Track-I with Cash Price 1500/-**" entitled "How to write a scientific book? Some effective tools for recognition in international scientific community" in 5th National and 1st International Symposium on "Writing Science and Leveraging Scientific Research (WSLSR-2022)", organized by Department of Chemistry, University of Agriculture, Faisalabad, Pakistan from 02.03.2022 to 03.03.2022.
- 3) Souvenir for winning "**2nd Price in Poster Track-VI with Cash Price 1000/-**" entitled "Fast and accurate quantitative determination of menthol contents in essential oil of *Mentha arvensis* L." in 5th National and 1st International Symposium on "Writing Science and Leveraging Scientific Research (WSLSR-2022)", organized by Department of Chemistry, University of Agriculture, Faisalabad, Pakistan from 02.03.2022 to 03.03.2022.
- 4) Souvenir for acting as "**Poster Session Student Organizer**" in 4th Annual Symposium on "Research, Scientific and Technical (RSciTech-2020) Writing", organized by Department of Chemistry, University of Agriculture, Faisalabad, Pakistan from 27.02.2020 to 28.02.2020.
- 5) Souvenir for acting as a "**Student Member of Organizing Committee**" in "International Symposium on Technologies and Materials for Renewable Energy, Environment and Sustainability", organized by Department of Chemistry, University of Agriculture, Faisalabad, Pakistan from 06.02.2019 to 07.02.2019.
- 6) Medal of "**Distinction Award**" from "All Pakistan Private School Alliance", for getting A⁺ grade in S.S.C Examination during session 2009-2010.