

Dr. Sana Sarfaraz



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Address: Flat no A2/4 Maymar Heights Block 14,

Gulshan-e-Iqbal Karachi, Pakistan

Pharmacy Council Registration #: A6066

HEC Recognized Supervisor

PERSONAL INFORMATION

Citizenship Pakistani

EDUCATION

- 2018** **PhD**
(Neuropharmacology, Hematological & biochemical analysis)
CGPA 4
Department of Pharmacology, Faculty of Pharmacy, University of Karachi
- 2014** **M.Phil**
(Neuropharmacology, Hematological & biochemical analysis)
CGPA 3.8
Department of Pharmacology, Faculty of Pharmacy, University of Karachi
- 2008** **Pharm.D**
CGPA 3.8
Faculty of Pharmacy, University of Karachi

WORK HISTORY

- July 24th, 2019 - Present **ASSISTANT PROFESSOR**
Department of Pharmacology, University of Karachi
- February 2015 to **ASSISTANT PROFESSOR**
July, 2019 Department of Pharmacology, Faculty of Pharmacy, Jinnah University for
Women
- January 2013 to **LECTURER**
January 2015 Department of Pharmacology, Faculty of Pharmacy, Jinnah University for
Women
- January 2010-April 2011 **OUTPATIENT PHARMACIST**
Agha Khan University Hospital, Karachi Pakistan
- January 2009- January 2010 **TRAINEE PHARMACIST**
Agha Khan University Hospital, Karachi, Pakistan

BOARD OF STUDIES

2022	MEMBER Salim Habib University, Department of Basic Medical Science
2022	MEMBER Faculty of Pharmacy, Jinnah Sindh Medical University
2023	MEMBER Department of Pharmacology, Faculty of Pharmacy & Pharmaceutical Sciences UoK

EXTERNAL EXAMINER

I have been invited as an external examiner in multiple universities for Physiology, Anatomy, and Pharmacology (Dow, JSMU, JUW, Hamdard, Saleem Habib, Baqai, Sohail University, Deewan, and Nazeer Hussain University etc)

RESPONSIBILITIES

- Teaching undergraduate (theory and practical)
- Teaching Postgraduate (M.Phil and Ph.D.)
- Research Supervision

ADDITIONAL RESPONSIBILITIES

2020-till date	FACULTY-STUDENT ADVISOR Faculty of Pharmacy & Pharmaceutical Sciences, University of Karachi
2021till date	CO-PATRON, SCIENCE CLUB Faculty of Pharmacy & Pharmaceutical Sciences, University of Karachi
2021 till date	CO-PATRON COMMUNITY SERVICES Faculty of Pharmacy & Pharmaceutical Sciences, University of Karachi
2020 till date	COORDINATOR KARACHI UNIVERSITY CAREER FAIR COMMITTEE Faculty of Pharmacy & Pharmaceutical Sciences, University of Karachi
2020 till date	COORDINATOR PHARMACY ALUMNI COMMITTEE Faculty of Pharmacy & Pharmaceutical Sciences, UoK
2020 till date	FOCAL PERSON ORIC Department of Pharmacology, Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi
2017-2019	FOCAL PERSON ORIC Faculty of Pharmacy, Jinnah University for Women
2013-2016	INCHARGE PHYSIOLOGY LAB Faculty of Pharmacy, Jinnah University for Women
2016-2017	INCHARGE PHARMACOLOGY LAB Faculty of Pharmacy, Jinnah University for Women

2016-2019

INCHARGE ANIMAL HOUSE
Faculty of Pharmacy, Jinnah University for Women

2014 to 2015

MEMBER ADVISORY BOARD
Faculty of Pharmacy, Jinnah University for Women

RESEARCH SUPERVISION

- I have **Co-Supervised** 7 M.Phil. Students from 2016 till date. 5 students (JUW) and 2 students (UoK)
- Currently, I am **Supervising** 5 M.Phil. Students. 1 student has been awarded M.Phil Degree (2024)
- I have **Co-Supervised** 1 Ph.D. Student (Uok) in the Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi and currently co-supervising 5 Ph.D students (Uok).
- Currently **Supervising** 2 Ph.D. students in the Faculty of Pharmacy and Pharmaceutical Sciences, University of Karachi.

AREA OF RESEARCH INTEREST

- Neuropharmacology and Clinical Pharmacology (Cardiovascular and Endocrinology)

PROFESSIONAL MEMBERSHIP

1. **Editorial Board Member** Journal of Pharmacokinetics & Experimental Therapeutic
2. **Editorial Board Member** Enzyme Engineering.
3. **Editorial Board Member** Enliven Biosimilars and Bioavailability
4. **Associate Editorial Committee** LOJ Pharmacology and Clinical Research
5. **Editorial Committee** Journal of Medicine and Surgical Sciences
6. **Editorial member** International Journal of Pharmaceutical Sciences and Clinical Pharmacy
7. **Reviewer (Multiple Journals)**
8. Member of the Health and Education Subcommittee of Karachi Chambers of Commerce and Industry (KCCI) from 2018-2019
9. Core Committee member Nurturing Community Pharmacy in Pakistan (NCPP)
10. Core member Learning Collaborative and Pharmacy Circle (LCPC)

ACADEMIC MEMBERSHIP

- Registered Pharmacist by Pakistan Pharmacy Council

RESEARCH PUBLICATIONS – INTERNATIONAL (LATEST MENTIONED ONLY)

-
- Maqbool, Tahmina, Rabia Ismail Yousuf, Farrukh Rafiq Ahmed, Muhammad Harris Shoaib, Asma Irshad, Muhammad Talha Saleem, Faaiza Qazi, **Sana Sarfaraz**, Syed Adnan Rizvi, and Zafar Alam Mahmood. "Cellulose ether and carbopol 971 based gastroretentive controlled release formulation design, optimization and physiologically based pharmacokinetic modeling of ondansetron hydrochloride minitabets." *International Journal of Biological Macromolecules* 276 (2024): 133841.
 - Ali, Fatima Ramzan, Muhammad Harris Shoaib, Syed Abid Ali, Rabia Ismail Yousuf, Farrukh Rafiq Ahmed, Fahad Siddiqui, **Sana Sarfaraz**, and Rameez Raja. "Fabrication and evaluation of nanoemulsion based insulin loaded microneedles for transdermal drug delivery." *Therapeutic Delivery* (2024): 1-13.
 - Sheikh, K. U., Sarfaraz, A., Sarfaraz, S., Zehra, A., Amir, M., & Amir, H. (2024). Frequency of multi-vessel disease and its association with N Terminal-Pro Brain Natriuretic Peptide Levels among patients with First ST-Elevation Myocardial Infarction. *Nepalese Heart Journal*, 21(1), 37-42.
 - Munawwar, R., **Sarfaraz, S.**, Ikram, R., Zehra, T., Anser, H., & Ali, H. (2024). Anxiolytic and Antidepressant Effect of *Phaseolus vulgaris* on Animal Models. *Scientifica*, 2024.
 - Munawwar, R., **Sarfaraz, S.**, Ikram, R., Anser, H., & Zubair, S. (2023). Vigna Unguiculata as an Anxiolytic Agent: Evidence from Animal Model Studies. *Journal of Hunan University Natural Sciences*, 50(12).
 - Zubair, S., Naveed, S., **Sarfaraz, S.**, Afshan, H., Jamil, S., Raees, H., & Eraj, A. (2022). Anxiolytic and memory boosting effect of Fruit cocktail (Cherry Juice, Pineapple Juice, and Coconut milk) *Journal of Population Therapeutics and Clinical Pharmacology*, 29(04), 809-818.
 - Sikandar M, Shoaib MH, Yousuf RI, Ahmed FR, Ali FR, Saleem MT, Ahmed K, **Sarfaraz S**, Jabeen S, Siddiqui F, Husain T, Qazi F, Imtiaz MS. Nanoclay-Based Composite Films for Transdermal Drug Delivery: Development, Characterization, and in silico Modeling and Simulation. *Int J Nanomedicine*. 2022;17:3463-3481.
 - Ayatollahi, S. A., Asgary, S., Ghanbari, F., Karimi, R., Kobarfard, F., **Sarfaraz, S.**, ... & Pour, P. M. (2022). Quantifying the Impact of Algae Supplement on Blood Pressure: Systematic Review and Meta-analysis of Randomized Controlled Trials. *Current Problems in Cardiology*, 101336.
 - Ghafouri-Fard, S., Khoshbakht, T., Hussen, B. M., **Sarfaraz, S.**, Taheri, M., & Ayatollahi, S. A. (2022). Circ_CDR1as: a circular RNA with roles in the carcinogenesis. *Pathology-Research and Practice*, 153968.
 - Ali, F. R., Shoaib, M. H., Ali, S. A., Yousuf, R. I., Siddiqui, F., Raja, R., ...**Sarfaraz, S** & Ahmed, F. R. (2022). A nanoemulsion based transdermal delivery of insulin: Formulation development, optimization, in-vitro permeation across Strat-M® membrane and its pharmacokinetic/pharmacodynamic evaluation. *Journal of Drug Delivery Science and Technology*, 71, 103338.
 - Rizvi, S. Q. A., Ikram, R., **Sarfaraz, S.**, & Munawwar, R. (2022). Beneficial effects of oral vitamin D supplementation in diabetes mellitus type II patients-a clinical study in Karachi. *Pakistan journal of pharmaceutical sciences*, 35(3), 845-850.
 - Zehra, T., **Sarfaraz, S.**, & Ikram, R. (2021). Dose dependent anticonvulsant activity of Morus nigra in strychnine induced seizures model. *Pakistan Journal of Pharmaceutical Sciences*, 34(6), 2167-2171.
 - Munim, A., Abbas, S., Ahmed, A., **Sarfaraz, S.**, & Ikram, R. (2021). The incidence and awareness of Rhegmatogenous retinal detachment in Pakistani population. *Pakistan Journal of Pharmaceutical Sciences*, 34(5):1693-1698.

- **Sarfaraz, S.**, Ikram, R., Munawwar, R., Fatima, S., Anser, H., & Fatima, M. (2021). Evaluation of Hepatoprotective effects of different doses of Lyophilized Beetroot powder in albino rabbits. *Pak. J. Pharm. Sci*, 34(5), 1917-1922.
- Asadullah, M., **Sarfaraz, S.**, Tanzil, S., Ikram, R., & Kamil, N. (2021). The effects of alendronate treatment in the diagnosis and management of proximal femur osteoporosis: A real-life scenario. *Pakistan Journal of Pharmaceutical Sciences*, 34(4):1393-1396.
- **Sarfaraz, S.**, Ikram, R., Munawwar, R., Osama, M., Gul, S., & Sufian, M. (2021). Rising trend of Nutraceuticals: Evaluation of lyophilized beetroot powder at different doses for its hypolipidemic effects. *Pak. J. Pharm. Sci*, 34(4), 1315-1322.
- Anser.H , Imam.S , Khatoon.H , **Sarfaraz.S** , Iffat.W, Fatima.S , Ishaq.S , Israr.F , Munawwar.R and Zubair.S (2021). Determination of anxiolytic and antidepressant like activity of hydro alcoholic fruit extract of *Pyrus communis* (L.) and its impact on the memory after chronic dosing in animal models. *Pak.J.Pharm.Sci.*,34(3)(special):1261-1269.
- Ishaq.S, Rizwani.G, Shareef.H, Fatima.S, Anser.H, **Sarfaraz.S.** (2021). A herbal treatment approach for the management of clinical, hormonal and ultrasound parameters in reproductive age group women with polycystic ovarian syndrome: A randomized clinical trial. *Pak.J.Pharm.Sci.*, 34(3) (Supp):1097-1102
- Munawwar R, Jamil.S, fatima.S, **Sarfaraz.S**, et al., (2021). Higher incidence of prescribing rates and utilization of broad spectrum cephalosporin in young patients: A retrospective observational study in a tertiary care hospital. *Pak.J.Pharm.Sci.*,34(3)(Supp):1103-1109.
- Sheikh.K , Sarfaraz.A , **Sarfaraz.S** , Farooq.A , Munawwar.R and Aamir.M (2021). To assess the co-relation between corrected qt interval prolongation and abnormal scan during vasodilator nuclear stress test. *Pak. J. Pharm. Sci.*,34 (1) (Special): 417-421
- Bokhari, S. W. A., Gul, S., Fatima, R., **Sarfaraz, S.**, Hasan, M. M., & Abbas, A. (2020). Antiemetic Effect of Fruit Extracts of *Trapa bispinosa* Roxb. in Chick Emesis Model. *Journal of Pharmaceutical Research International*, 116-123.
- Abbas, A., Ikram, R., Hasan, F., & **Sarfaraz, S.** (2020). Fennel fortified diet: New perspective with regard to fertility and sex hormones. *Pakistan Journal of Pharmaceutical Sciences*, 33(6).
- Sheikh, K. U., Sarfaraz, A., **Sarfaraz, S.**, Bano, T., & Ikram, R. (2020). Assessment of the co-relation between 1 st set of Troponin I, age, duration of chest pain and LVEF in patients presenting with first stemi and treatment protocol followed. *Pak. J. Pharm. Sci*, 33(6), 2793-2799.

RESEARCH PUBLICATIONS - NATIONAL (LATEST MENTIONED)

-
- Shaikh, K. U., Sarfaraz, A., **Sarfaraz, S.**, Anwar, M. W., Salari, F., & Fatima, F. (2024). Clinical Inertia in Terms of Recurrent Hospitalization in the Treatment of Heart Failure Between General Physicians and Cardiologists: Clinical Inertia in Terms of Recurrent Hospitalization in the Treatment of Heart Failure. *Pakistan BioMedical Journal*, 34-38.
 - Sheikh, K. U., Farooq, A., Sarfaraz, A., **Sarfaraz, S.**, Athar, S., & Zehra, A. (2023). Comparison between the Levels of N Terminal Pro-Brain Natriuretic Peptide and Troponin I to Predict Left Ventricular Ejection Fraction in Patients Presenting with First ST-Elevation Myocardial Infarction. *Pakistan Heart Journal*, 56(1), 87–91. <https://doi.org/10.47144/phj.v56i1.2328>.
 - Haider, M. A., Khaqan, H. A., Usman, N., Ahmed, A., Sattar, U., Buksh, H. M., ... &

- Sarfaraz, S.** (2023). Visual Outcomes With Intraocular Trifocal Lens Implant. *Journal of Ayub Medical College, Abbottabad: JAMC*, 35(1), 76-79.
- **Sarfaraz, S.**, Ikram, R., Munawwar, R., & Gul, S. (2022). Screening of different doses of lyophilized beetroot for their hematopoietic potential. *International Journal of Endorsing Health Science Research (IJEHSR)*, 10(2), 195-201.
 - Munim, A., Abbas, S., Ahmed, A., **Sarfaraz, S.**, & Ikram, R. (2022). Measurement Of Retinal Nerve Fiber Layer Thickness In Patients Of Unilateral Amblyopia Using Optical Coherence Tomography. *Journal of Ayub Medical College, Abbottabad: JAMC*, 34(1), 141-144.
 - Eraj.A, **Sarfaraz.S**, Munawwar.R, Usmanghani.K (2020). Evaluation of hepatoprotective effects of *Commiphora mukul*. . *Pakistan Journal of Pharmacology*, 37 (2): 91-97.
 - Moin.H, **Sarfaraz.S**, Munawwar.R, Gul.S and Sarwar.G (2020). Evaluation of analgesic potential of different doses of *Manilkara zapota* fruit puree . *Pakistan Journal of Pharmacology*, 37 (2): 77-84.
 - **Sarfaraz.S**, Ikram.R, Munawwar.R and Iqbal.S (2020). Effect of different doses of *Beta vulgaris* on thyroid profile. *Pakistan Journal of Pharmacology*, 37 (2): 59-64.
 - Ahmed, S.,Asadullah, M., Wahid, S., **Sarfaraz, S.**, Hassan, F., (2020). [Anxiolytic effect of *Tribulus terrestris* in an open field test at different doses](#). *Pakistan Journal of Pharmacology*, 37 (1) :53-57.
 - Osama, M., Ikram, R., & **Sarfaraz, S.** (2020). Evaluation of Cytotoxic potential of aqua distillate of *Rosa damascena* mill using brine shrimp lethality assay evaluation, *Pakistan Journal of Pharmacology*, 37(1), 9-12.

ACADEMIC REPRESENTATION

2024

- Invited as Session Chair in the 1st International Conference on Pharmacology and Allied Sciences held on 24-25 August 2024 at the ICBBS, University of Karachi, Pakistan.
- Moderated a Session in the 1st International Conference on Pharmacology and Allied Sciences held on 24-25th August 2024 at the ICBBS, University of Karachi, Pakistan.
- Invited as a Chief Guest in the Women's Day Celebration held by Sois Life Sciences on 7th March 2024 at Sois Life Sciences.

2023

- Invited as a Judge in 'Innovations and Perspectives of Developing Countries Towards Global Health Responsibilities.' At Hamdard University on 18-7-2023.
- Invited as a Judge in The Pharmacon 2.0 - Poster Competition, in Salim Habib University's Faculty of Pharmacy, in honour of this year's World Pharmacists Day on September 21, 2023.
- Invited as a Panelist in the Pharmaceutical Industry -Academia Linkage Seminar held on 16th November 2023 at 20th Pharm Asia 11th Pharma Convention Expo Center.

2022

1. Invited as Speaker in the World Pharmacist Day 2022 held by Dvago Pharmacy and

Wellness Expert on " Role of Community Pharmacy in Pakistan and addressing Patient Challenges.' On 26th September 2022 at Ramada Hotel Pakistan.

2. Moderated Session on Bridging for Success in the Third International Innovation in Pharmacy Conference held on 24th September 2022.

2021

3. Invited to Deliver an online Awareness Session on Management of Diabetes: A Possible Alternative Approach by Giving back to Pharmacy in Pakistan on 27th November 2021.
4. Moderated a session on Pharmacist Trust for your health: Past, Present, and Future in Conference on World Pharmacist Day Pharmacy Trusted for your Health, held on 12th October in HEJ institute.
5. Invited as a Panelist for panel discussion on Pharmacy trusted for your health at Saleem Habib University on World Pharmacist day held on 23rd September 2021.
6. Moderated a session on Bridging the gap between Community Pharmacy and academia in the 2nd International Innovative Conference being held on 17-18th September 2021 by Giving back to Pharmacy in Pakistan.
7. Invited as Reviewer by the Scientific Committee for selection of abstracts in the 2nd International Innovative Conference being held on 17-18th September 2021.
8. Invited as speaker to deliver a lecture on Career Pathway Selection as part of the mentorship program held by Ignite Group on 11th July 2021.
9. Invited as speaker to deliver a lecture on Antibiotic dispensing in Community Pharmacy by Ehad Pharmacy on 17th March 2021.
10. Invited as speaker to deliver a lecture on the Artificial Intelligence role of Pharmacist organized by Aspirations on 28th March 2021.

Also delivered multiple sessions in the period between 2013 to 2021.

PROJECTS ACCEPTED

1. Awarded Dean's Research Grant for the year 2021-2022 on "Neuropharmacological and Toxicological evaluation of *Phaseolus vulgaris*" from the University of Karachi.
2. Project accepted and Completed in ORIC JUW titled "Herbal tea bag for diabetic population" (2019-2020).
3. Project accepted and in progress "Learning and Collaborative Pharmacy Circle" initiated in January 2019.

PROFESSIONAL DISTINCTION AND AWARDS

1.	AmnaFeroz Gold Medal	For securing First position in Pharm D examination in
2.	Fauzia Rashid Gold Medal	

3.	Hakeem Son's Chemical Industries Gold Medal	Pharmacy.
4.	Pharm Evo Medal	
5.	Prof.SMSZoha Gold Medal	For best CGPR in Pharm D examination in Pharmacy.

PUBLISHED ABSTRACTS

- Sheikh, K., Sarfaraz, A., **Sarfaraz, S.**, Janjua, A., Shoaib, S., & Devi, S. (2022). IMPACT OF LOW-DOSE SACUBITRIL-VALSARTAN ON HEALTH-RELATED QUALITY OF LIFE IN PATIENTS WITH HEART FAILURE AND REDUCED EJECTION FRACTION. *Pakistan Heart Journal*, 55.
- Sana Sarfaraz, Rahila Ikram, Sabiha gul. Addressing the myth that polio vaccination leads to Infertility through scientific evidence. Presented in FIP 2020 abstract published in Pharmacy Education (2020) 20(3) 91 – 132.
- Sabiha Gul, Sana Sarfaraz. Association of gestational diabetes with age and its risk factors: A cross-sectional study in Pakistan. Presented in Fip 2020 abstract published in Pharmacy Education (2020) 20(3) 91 – 132.
- Sarfaraz S, Ikram R (2020) Evaluation of hypolipidemic Effect of Lyophilized Beetroot at different doses. SciTech Central Pharma 2020. Mauritius.

CLINICAL/ COMMUNITY TRAINER

Have conducted multiple clinical and community internship programs as a trainer and coordinator since 2015 till date.

CONFERENCES/ EVENTS ORGANIZED

2024

- Part of the organizing committee of the 1st International Conference on Pharmacology and Allied Sciences held on 24-25th August 2024 at the ICBBS, University of Karachi, Pakistan.
- Career Orientation Summit and Fair Organized in Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi on 30th April, 2nd, 3rd and 7th May 2024.

2023

- Career Orientation Summit and Fair Organized in Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi on 23-25th January and 31st January 2023.
- Webinar arranged on 7-05-2023 on topic ' Pathway for Pharmacist in Australia under KUPScC
- Webinar arranged on 11-05-2023 on topic 'Clinical Practices in Neonates' under KUPScC
- Seminar arranged on 24-05-2023 in Pharmacy Auditorium on ' How to apply for Canada as Pharmacist' under KUPScC.
- Organized and Supervised Research Poster Presentation for Undergraduate and Post graduate students at Department of Pharmacology Uok on 15-06-2023.
- Seminar organized on 22-06-2023 in Pharmacy Auditorium on ' Web Development and E-commerce' under KUPScC.
- Seminar arranged on 8-7-2023 in Pharmacy Auditorium on ' Digital Health' under KUPScC.
- Brand Planning Competition ' Marketers Edge 20.' Arranged on 1-11-2023 in Pharmacy Auditorium under KUPScC.

- Conference on World Pharmacist Day organized in Chinese Memorial Auditorium UoK on 2-11-2023.
- World Diabetes Day Seminar organized on 14 November 2023 at Pharmacy Auditorium under KUPCS.

2022

- Career Orientation Summit and Fair Organized in the Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi on 2-4th February and 09th February 2022.
- Workshop on ‘The Science of Drug Safety: Pharmacovigilance’ in collaboration with The Searle Company Ltd., held on 12th May 2022 at Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi
- Research workshop, ‘Undergrad Talent Hunt 1.0,’ held on 30th August 2022 at the Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi
- Workshop, ‘360° Planning and Execution Zone,’ held on 7th September 2022 at the Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi
- Session on ‘How to Make and Present Research Poster’ held on 9th September 2022 at the Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi
- Workshop, ‘Creative Suit,’ held on 13th and 14th September 2022 at Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi
- Workshop, ‘The Marketer’s Edge,’ held on 21st September 2022 at the Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi
- Workshop on ‘World Patient Safety Day’ in collaboration with Martin Dow, held on 28th September 2022 at the Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi
- Breast cancer awareness symposium, ‘The Pink’s Endeavor’ in collaboration with KUPCS, held on 20th October 2022 at the Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi
- Conference on World Pharmacist Day’22 - ‘Pharmacy united in action for a healthier world,’ held on 25th and 26th October 2022 at the Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi
- Research Olympiad held on 16th November 2022 at Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi

2021

1. Organized World Pharmacist Day held on 11 and 12th October 2021 at HEJ Institute.
2. Poster Competition organized for 2nd Year students titled Learning the Practical Skills in Physiology Lab, in Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi on 7th July 2021.
3. Career Fair Organized in the Faculty of Pharmacy & Pharmaceutical Sciences University of Karachi on 18th March 2021.

POSTERS/ MODELS SUPERVISED(LATEST MENTIONED ONLY)

2021

- Supervised the Oral Presentation given in 7th International Conference on Psychophysiology, Held on 4th December 2021 titled Positive impact of *Vigna unguiculata* and *Phaseolus vulgaris* on depression model.

- Supervised the Oral Presentation presented in International Conference on Pharma, Food and Health Care on 24th November 2021 titled Effect of different doses of beetroot on seizure model.
- Supervised the Oral Presentation given in 7th Annual NeuroScience Conference held on 9th October 2021 titled Neuropharmacological effect of Vigna unguiculata and Phaseolus vulgaris on depression model.
- Supervised Model for Role of Pharmacist in Changing World held on World Pharmacist day 24th September by Martin Dow.
- Supervised Poster titled “Influence of Internships in determining career prospects for undergraduate pharmacy students” held on 17 and 18th September 2021 at 2nd Virtual International Conference by Giving Back to Pharmacy in Pakistan. (2nd Prize was awarded).
- Supervised Poster in International Annual Medication Management Conference titled “ Importance of incorporating Pharmacist in ward rounds in a Government based tertiary care hospital to avoid medication errors ” held on 24 and 25th September 2021 in Shifa Hospital Islamabad (1st Prize was awarded)

MANUAL/ BOOK/ CHAPTER IN BOOK PUBLISHED

- Designed and published Manual of Physiology and Histology course #407 including experiments on Hematology, Cardiovascular system, Respiratory system, Muscle preparation, Eye, Taste, and smell in Karachi University Department of Pharmacology Faculty of Pharmacy.