

Dr. Shamim Akhtar

Professor

Department of Pharmaceutical Chemistry Faculty of Pharmacy, University of Karachi e-mail: dr_shamimakhtar58@yahoo.com

<u>Date of Birth</u> February 5, 1958

Gender Female

Married with one son

Nationality Pakistani

Experience 20 years (Teaching, Research and Professional)

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dr_shamimakhtar58@yahoo.com

Academic Qualification

Ph.D. (2003) "Design and Synthesis of some new Derivatives of Isonipecotamide as Potential Therapeutic

Agents".

Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Karachi,

Karachi

M.Pharm. (1990) "A study on stability of Mestranol and other Oestrogens".

Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Karachi,

Karachi

B.Pharm. (1986) Faculty of Pharmacy, University of Karachi, Karachi

B.Sc. (1980) University of Karachi

H.S.C. (1976) Lahore Board

S.S.C. (1974) Lahore Board

Employment Record

Professor Department of Pharmaceutical Chemistry, **May 2011 to date** Faculty of Pharmacy, University of Karachi

Assistant Professor Department of Pharmaceutical Chemistry, Sept. 2003 to May 2011 Faculty of Pharmacy, University of Karachi

Lecturer Department Of Pharmaceutical Chemistry, Jan. 2002-Sep. 2003 Faculty of Pharmacy, University of Karachi

Full-timecooperative teacherDepartment Of Pharmaceutical Chemistry, Jan1999-Jan 27, 2002 Faculty of Pharmacy, University of Karachi.

Research fellowDepartment ofPharmaceutical Chemistry, Dec. 1998-Jan 1999Faculty of Pharmacy, University of Karachi.

Research Scholar Department of Pharmaceutical Chemistry, Dec 1997 to Nov. 1998 Faculty of Pharmacy, University of Karachi.

Lecturer Asim Girls College, Lahore.

Sept 1991-Sept 1997

Research Officer NSRD Project, University of Karachi.

1988-1990

Pharmacist M/S Paragon Pharmaceuticals Pvt. Ltd.,

April 1987-Dec 1987 Karachi.

Trainee Pharmacist M/S Parke-Davis & CO. Pvt. Ltd., Karachi.

Jan.1987-Feb 1987

Responsibilities and Activities

(Administrative, Teaching and Research)

Administrative

Incharge Dept. Pharm. Chem.

- 09/07/2012 20/07/2012
- 12/07/2010
- 06/04/2010 08/04/2010

Co-curricular Responsibility

Currently engaged in the Supervision of co-curricular activities of students as Advisor in

- i. Official **news-letter** of the faculty of Pharmacy (biannual)
- ii. Official magazine, Farmacia (Annual)

Student Advisor (2008-2010)

Being student advisor (during 2008-2010), following activities were supervised by me:

- StudentsGuidance and Counseling
- Training programs arrangement for Pharm D students (Hospital Pharmacy)
- Arrangements for seminars, workshops symposia etc.
- Poster Exhibitions and other co-curricular activities for students
- Supervision of Extracurricular activities of students:
 - i. Sports activities
 - ii. Annual functions like welcome, farewell and picnic etc.
 - iii. Student week activities including competitions of Qirat, Naat, Quiz, Painting, Flower arrangement, cooking and other exhibitions.

Special Assignment at Faculty Level

- Involved students in cleanliness programs in the Faculty
- Gardening and beautification of Pharmacy lawns competition in different classes and among the morning and evening batches of Students in the Faculty.
- Fund raising campaigns and camps to help flood affecties during Flood disaster situation in the country.

Special Assignment at University Level

- Flood relief activities, planning for rehabilitation of flood affecties
- Achieved Flood Relief Excellence Award, 2010-2011
- Disaster risk management activities and trainings are planned for the volunteers in KU

Teaching Activities

Teaching the following courses to:

• Under graduate (Pharm D)

- 1. Pharmaceutical Chemistry (Theory)
- 2. Physical Chemistry (Theory)
- 3. Organic Pharmaceutical Chemistry (Lab).
- 4. Organic Pharmaceutical Preparations (Lab)
- 5. Instrumental methods of Analysis (Theory)
- 6. Chemical methods of Analysis (Lab)

• Graduate and Post graduate (M.Pharm, M.Phil, MS and PhD)

- 1. Advance Physical Chemistry and Pharmacy
- 2. Analytical Chemistry
- 3. Physico organic Chemistry
- 4. Instrumental Methods of Analysis

Teaching Methodology

- Students are made to be involved in study through **assignments**, **presentations** in the form of charts, posters and **class discussions** to enhance their understanding, communication skills and to develop their critical and analytical thinking.
- Mentoring the students through large class management techniques.
- Emphasizing the grooming of students ethically and morally and preparing them to accept the challenges in the practical and professional life for future prospects.

Course Designing

- Theory courses for MS and PhD. Related to **Physicochemical** and **Physico-organic parameters** in drug development; **Polymer chemistry** and **Solubility problems** in drug development.
- Introduction to new lab course for Pharm D under graduates on Synthetic Chemistry and Quality Control

Lab Manuals (designed and modified)

- Designed Manual for new lab (Synthesis and Quality Control)
- Modified and elaborated the material for lab on Chemical methods of Analysis comprising the compilation of different Pharmacopeial assay methods for drugs and drug related substances.

Visiting Faculty

Teaching of Lab and theory courses for Pharm D students of JMDC, College of Pharmacy, Karachi (2006-2010)

External Examiner

Theory and Lab Examiner for Pharm D students of JMDC College of Pharmacy and Dow University of Health Sciences, Karachi.

Research Activities

• Gained experience in synthesis of biologically active compounds and evaluation of their pharmacological properties as the part of drug designing

Supervision/ Guidance

- Supervision and guidance of M.Pharm, M.Phil, MS and Ph.D. research students
- Produced two Ph.D degrees and several M.Phil and M.Pharm students got degrees while many M.Pharm, M.Phil, MS and PhD students are pursuing their research work under my supervision.

External Examiner for Thesis evaluation and viva-voce

Involved in the evaluation of thesis and taking of viva-voce of students from different universities in Pakistan.

Research article reviewer

Involved in reviewing of research articles for various research journals

Projects

1. Personal Research Project (2013-2014)

Computational studies of some indole and piperidine derivatives for their effects on Biogenic amines

2. Personal Research Project (2012-2013)

Determination of pKa values of novel piperidine derivatives by different methods"

3. Personal Research Project (2011-2012)

Synthesis and in-silico determination of ionization constant of some novel derivatives of benzimidazole as Pharmacological agents

4. Personal Research Project (2009-2011)

Synthesis and Pharmacological Studies of Benzimidazole Derivatives

5. Personal Research Project (2007-2009)

Design and Synthesis of some new Derivatives of Nitrogen containing heterocyclic compounds

6. Personal Research Project (2004-2006)

Synthesis And SAR Studies Of Piperidin-4-Carboxamide Derivatives Having Analgesic, Anti-inflammatory And Anti-microbial Activities

- 7. **Project in collaboration with HEC (2003-2004)**Synthesis and Biological studies of Anti-narcotic drugs
- 8. **NSRD Project, University of Karachi (1987-1990)**A study on stability of Mestranol and other Oestrogens

Publications

More than 30 research papers presented/published/accepted for publication in National and International Journals. (detail of research publications can be furnished upon request)

Achievements

Trainings obtained

- Basic Certificate in Principles of Thermal Process Control.
 Organized by KU-ASM Bio-Resource Centre-Department of
 Microbiology, University of Karachi in collaboration with USDA,
 Washington State University. June 3-4 and July 28, 2012
- Disaster Risk Management. Organized by AHK NCRD & MA, Ministry of Professional and Technical Training Government of Pakistan, Islamabad. Jan. 16-20, 2012
- Overseas "Training of Trainers" 7-25 March 2011 Organized by Learning Innovation DepartmentofHigher Education Commission, Islamabad in collaboration with AIT, Thailand.
- Advance Specified Course for Master Trainer, Faculty Professional Development Program Alumni on Advance Communication Skills organized by Learning Innovation Department, Higher Education Commission. November, 20-25, 2009
- Faculty development Course Organized by Learning Innovation 19th July-15th Oct. 2004 Department of Higher Education Commission, Islamabad

Trainings organized

- **2nd. Staff Development Program** for teachers in Higher Education. May 29-June 24, 2006.
- **1st.Staff Development Program** for teachers in Higher Education. Dec. 12- January 7, 2006
- One Day Seminar on **Examination Standards** arranged by Quality Enhancement Cell and Department of Physiology, University of Karachi, Karachi, Pakistan-August 6, 2005.

• One day Seminar on "Written Assessment and Tools" arranged by HEC at the HEC Regional Centre, Karachi. 19th Jan. 2005

Seminars organized

As the coordinator of the Seminar Committee, Faculty of Pharmacy, following Seminars were arranged during September, 2007-November, 2008

- "Work Flow of Manufacturing and Analysis in Pharmaceutical Industry" by Mr. Muhammad MushahidRiaz from Pfizer Laboratory Pak. Ltd. Sept.8, 2007
- 2. "Role of Pharmacist and Natural Medicines" by Prof. Dr. Aftab Saeed, Faculty of Estern Medicine, Hamdard University. Feb.9, 2008
- 3. **"Colorectal Cancer"** by Dr. Nehal Masood, Medical Oncologist, Ahga Khan University Hospital. March 15, 2008
- 4. "A World of Opportunities-Exploring the Best" by GlaxoSmithKline Pak. April 3, 2008
- 5. "Dimagh Ki BattiJallao" by Mr. Muhammad MuneebQidwai, Corporate Training Manager, Pfizer Lab. Pak. Ltd. April 12, 2008
- 6. "**Breast Cancer**" by Dr. AzminaTajValimohammad, Medical Oncologist, Ahga Khan University Hospital. August 09, 2008
- 7. **"Pharmaco-vigilance"** by Dr. M. Aslam, Technical Director, Otsuka Pak. Ltd. August 30, 2008
- 8. "Lymphoma Cancer and Related Issues" by Dr. Salman NaseemAdil Associate Professor, Consultant Hematologist, Ahga Khan University Hospital. November 1, 2008
- 9. "Pharmaceutical Operations and Social Responsibilities of Pharmacists" by Mr. Mohd. Abdullah Feroz, MD. Efroz Chemical Industries Ltd. November 5, 2008
- 10. "Zinc and its Efficacy in the Treatment of Diarrhea" by Mr. Omar Taha, Public Health Consultant, Nutriset-France. November 15, 2008

Conferences/Seminars/Symposia/Workshops

Posters Presentation

A number of posters are presented in National and International Conferences

Attended

More than forty International and National conferences, seminars, symposia and workshops attended (**detail can be furnished upon request**).

Professional membership

- Pakistan Pharmacy Council of Sind (Registration # 970)
- Pakistan Pharmacist Association (PPA)
- Departmental research Committee (DRC)
- Board of studies, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Karachi
- Board of Faculty, Faculty of Pharmacy, University of Karachi
- Faculty Student Advisor Committee
- Board of Studies, Faculty of Pharmacy, FUUSAT
- Ex-member, Human Resource Centre (HRC), University of Karachi.