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## **PROF. DR. NOUSHEEN MUSHTAQ**

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### **DESIGNATIONS**

**Professor**

2016-till to date

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

**Associate Professor**

2011-2016

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

**Assistant Professor**

2004-2011

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

**Lecturer**

2002-2004

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

**ASSOCIATE EDITOR**

20016-till to date

Pakistan Journal of Pharmaceutical Sciences

### **EDUCATION**

**Ph.D.**

2004

Department Of Pharmaceutical Chemistry,  
Faculty of Pharmacy and Pharmaceutical Sciences  
University of Karachi, Karachi.

**M.Phil.**

1999

Department Of Pharmaceutical Chemistry,  
Faculty of Pharmacy and Pharmaceutical Sciences  
University of Karachi, Karachi.

**B. Pharm**  
1994

Department Of Pharmaceutical Chemistry,  
Faculty of Pharmacy and Pharmaceutical Sciences  
University of Karachi, Karachi.

**TEACHING**

**Classes**  
**Courses**

Pharm-D, M.Phil. and PhD  
Analytical Chemistry/ Medicinal Chemistry (Labs & Theory)

**ON LINE COURSE**

Nominated by HEC

**LTTS Department, Indiana University USA**

- 1- Integration of technology in to my class room 2005
- 2- Integrating Technology into individual search projects 2006
- 3- The information search process 2006

**COURSES DESIGNED**

**Theory**  
**Lab**

M.Phil. and PhD.  
Pharm D. Lab (PHC-506)

**MANUALS FOR**  
**LABORATORY**

Designed Lab Manual for Lab PHC 506 comprising material on brief introduction and preparation of different chemical compounds, Lab techniques and instrumental methods for their identification  
Manual for Lab PHC-607 based on Pharmaceutical Analysis (Chemical Methods)

**TEACHERS TRAINING**  
**PROGRAM**

**Attended**

**Advanced Level Overseas Training Program at AIT Bangkok from Ensuring Training Effectiveness.** (16<sup>th</sup> Jan. to 3<sup>rd</sup> Feb. 2012). Organized by Learning Innovation Department, Higher Education Commission in collaboration with Asian Institute of Technology (AIT) in Thailand.

**Faculty development Course** (19<sup>th</sup> July-15<sup>th</sup> Oct. 2004). Organized by Learning Innovation Department of Higher Education Commission.

**Organized**

**Staff development program** (May 28-2006-24Jun-2006). Organized by Human Resource Center University of Karachi.

**Staff development program** (Dec-2005-Jan-2006). Organized by Human Resource Center University of Karachi

**EXTERNAL EXAMINER**

**Theory and Lab examiners**

Ziauddin Medical University of health sciences  
College of Pharmacy DowUniversity of Health sciences  
Jinnah Medical and Dental college Karachi

## Thesis Examiner

Hamdard University of Health and Management Sciences  
Baqai University of Health Sciences

## STUDENT ACTIVITIES

Student advisor committee  
(2010-2014)

Member of student advisory committee looking different students affairs and activities

## PATRON

*Scientific Society of  
Pharmacy students*

Students are involved to complete different task and challenges  
Organized Seminars and activities to inculcate research interest in students.  
Organized Bio camps providing counselling on health issues

## “PHARMATIMES”

*Jan2009- till to date*

Started First Official News Letter of Faculty (*In-Charge*).

## “FARMACIA”

2005-2006

Official Magazine of Faculty of pharmacy, University of Karachi.

## RESEARCH

**HEC approved supervisor** (Higher Education Commission selects and approves research scholars throughout the country on the basis of research productivity and standard to supervised students who get HEC scholarship.

## COLLABORATION

- Prof. Dr. Shamim Akhtar  
Department of Pharmaceutical Chemistry, University Of Karachi
- Prof. Dr. Z.S. Saify  
Research scholar  
HEJ research institute of Chemistry (ICCBS)
- Prof. Darkhshan Jabeen Haleem  
Neurochemistry Lab.  
Dr. Panjwani Center for Molecular Medicine and Drug Research
- Prof. Dr. Kaniz Fizza  
Pakistan center of scientific and industrial research (PCSIR)
- Prof. Dr. Zaheer ul Haq Qasmi  
Computational Chemistry lab.  
Dr. Panjwani Center for Molecular Medicine and Drug Research,

## RESEARCH STUDENTS

More than twenty M.Pharm M.Phil and PhD students have been produced and more than ten research students are currently working under the supervision

## RESEARCH PROJECTS

HEC National research projects  
of universities(NRPU) 2017

Acridine derivatives as antialzheimer agents; Insilico studies, synthesis and biological studies

In past HEC research projects awarded in 2009, 2005 and 1999 on drug designing

## SEMINARS /WORKSHOP ORGANIZED/ATTENDED

Number of seminars, workshops and conference attended/organized from 1997 to 2017

## MEMBERSHIPS

- Board of Studies (Faculty of Pharmacy, University of Karachi, 2002-2004, 2013- till todate)
- Board Of Faculty (Faculty of Pharmacy, University of Karachi, 2004-2006, 2013 till todate)
- Faculty catalogue review committee
- Faculty Student Advisory Committee
- Organizing committee for golden jubilee celebration events
- Pakistan Association of Scientists and Scientific Professions
- Drug Information association (DIA)
- Board of Studies Hamdard University
- Board of Studies Federal Urdu University
- Board of Studies Ziauddin University of Health Sciences
- Member, Human Resource Centre (HRC), University of Karachi (2005-2006)
- Faculty Library Committee (2001-2004)

## RESEARCH PAPERS

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1. **Synthesis, Pharmacological Evaluation and In-Silico Studies of Some Piperidine Derivatives as Potent Analgesic Agents** Sumaira Ansari, **Nousheen Mushtaq**, Sadia Arif, Ahsaan Ahmed, Shamim Akhtar, Rabya Munawar, Huma Naseem, Sadia Meer, Z. S. Saify, Muhammad Arif and Qurratul-ain Leghari *J Dev Drugs* 2017, 6:1
2. **Synthesis, characterization and antimicrobial studies of novel pyridine quaternary analogs** Sabahat Naeem Shamim Akhtar **Nousheen Mushtaq** Muhammad Arif; *World J. of Pharm. Res.h* 2016 5(7):160-170
3. **Analgesic activity of alkyl piperidine derivatives** Sarwat Jahan , Shamim Akhtar , Arfa Kamil , **Nousheen Mushtaq** , Zafar Saied Saify and Muhammad Arif *Pak. J. Pharm. Sci.*, Vol.29, No.1, January 2016, pp.77-82
4. **Synthesis of 9-Aminoacridine Derivatives as Anti-Alzheimer Agents** Rabya Munawar · **Nousheen Mushtaq** · Sadia Arif · Ahsaan Ahmed · Shamim Akhtar · Sumaira Ansari · Sadia Meer · Zafar S Saify · Muhammad Arif, *American Journal of Alzheimer s Disease and Other Dementias*, 2015, 1-7
5. **Antimicrobial and antioxidant screening of N'-substituted sulphonyl and benzoyl derivatives of 4-Pyridine carboxylic acid hydrazide**, Sabahat Naeem · Shamim Akhtar · Nadia Asghar · Sikarder Khan Sherwani · **Nousheen Mushtaq** · Arfa Kamil · Shaista Zafar ·Mohammad Arif · Zafar Saeed Saify 2015· *Pak J. Pharm Sci* 28(6):2129-2134
6. **2-(2'-pyridyl) benzimidazole analogs and their  $\beta$ -glucuronidase inhibitory activity** A. Kamil · S. Akhtar · S. Noureen · Z.S. Saify · S. Jahan · K.M. Khan · F. Rahim· M. Taha· **Nousheen. Mushtaq** · M. Arif · S. Perveen · M.I. Chaudhary *J. of the Chem. Soci. of Pak.* 2015, 37 (4) 787-791
7. **Analgesic and anxiolytic evaluation of N-substituted arylsulphonyl and benzoyl derivatives of 4-Pyridine-carbohydrazide.** Sabahat Naeem, Shamim Akhtar, **Nousheen Mushtaq**, Arfa Kamil, Iffat

Mehmood, Shaista Zafar, Muhammad Arif and Z. S. Saify. *FUUAST Journal of Biology* 2014; 4(2):123-126.

8. **Synthesis and Biological Screening of 4-(1-Pyrrolidiny) Piperidine Derivatives As Effective Analgesics.** Zafar Saeed Saify, Shazia Haider, Nighat Sultana, **Nousheen Mushtaq**. And Tabinda Zarreen. *J. of chem. Soci. of Pak.* 2014 36(5).
9. **Synthesis and Pharmacological evaluation of novel Benzoyl derivatives of Piperidine-4-carboxamide.** Azra Rauf, Shamim Akhtar, Sabahat Naeem, **Nousheen Mushtaq** and Muhammad Arif. "*IJRPC* , 4(3), 2014 pp. 509-516
10. **Synthesis of novel derivatives of 4-Pyridine carboxylic acid hydrazide and their activity on central nervous system .** Sabahat Naeem, Shamim Akhtar, **Nousheen Mushtaq**, Arfa Kamil, Shaista Zafar, Nadia Asghar, Sana Anwar and Muhammad Arif. "*Pak. J. Pharm. Sci.* 27(5) (special), 2014, pp. 1401-1408.
11. **Determination of pKa values of new phenacyl-piperidine derivatives by potentiometric titration method in aqueous medium at room temperature (25±0.5°C)** Shaista Zafar, Shamim Akhtar, Talat Tariq, **NousheenMushtaq**, Ahsaan Ahmed, Muhammad Arif and Sana Anwar. "*Pak. J.Pharm .Sci.* 27 (4) 2014 pp 925-929.
12. **Synthesis of 4-(1-pyrrolidiny)piperidine derivatives as antibacterial and antifungal agents.** ShaziaHaider, Z.S. saify, **NousheenMushtaq**, Mehrun- Nisa, Tabinda Z., M. A. Arain, S. M. ghufuran Saeed and Seema Ashraf. *World. j. Pharm. Res*, 3 (3) 3723-3730, 2014
13. **Design and synthesis of potent and selective beta glucuonidase inhibitors by virtual and in vitro screening** ShaziaHaider, Z.S. saify, Mehrun- Nisa, **NousheenMushtaq**, Afshan Naz, Ajmal Khan, Bishnu P. Marasani, seema Ashraf, Tabinda Z. and M. A. Arain, S. M. ghufuran Saeed and Seema Ashraf. "*World j. Pharm. Sci.*, 2(5) 455-461, 2014
14. **Synthesis and Cytotoxic activity of some derivatives of alkyl piperidine** Sarwat Jahan, Shamim Akhtar, Z. S. Saify, **Nousheen Mushtaq**, Ali Akber Sial, Arfa Kamil and Muhammed Arif. "*Pak. J. Pharm.Sci.* 26(3), 2013, pp. 517-523.
15. **Disposal Practices of unused and expired Pharmaceuticals in Karachi and their impact on health and environment** Ahsaan Ahmed , **Nousheen Mushtaq**, Shamim Akhtar, Muhammad Arif and Ghazala Yasmeen; *JUMDC Vol. 4, Issue 2, July-December 2013.*
16. **Investigation of Piperidine derivatives in Ex Vivo Models of pain and platelet aggregation** Zafar Saeed Saify, Huma Rasheed, **Nousheen Mushtaq**, Mehrun Nisa, Shazia Haider, Afshan Naz, Kaniz Fizza Azhar, and G.A. Miana, *Arch Pharm Res* 35 (11) 1953-59 2012
17. **Behavioral and Neurochemical Profile of some Novel Phenacyl based Isonipecotamide Derivatives** Shamim Akhtar; M. Arif; **Nousheen Mushtaq**; Z.S. Saify, Ahsaan Ahmed and D.J. Haleem. *Pak. J. P. S.* 25(4), 2012, 705-714.
18. **Characterization of Plasmodium falciparum aspartic protease inhibition by piperidine derivatives.** Zafar Saied Saify, Mehrun Nisa, Kaniz Fizza Azhar, M. Kamran Azim, Huma Rasheed, **Nousheen Mushtaq**, M. Arshad Arain, **Shazia Haider**, Manawar Khanum, and Waseem Ahmed (2011). *J. of Nat. Prod. Res.* 2011 Dec;25(20):1965-68
19. **Synthesis of some novel analogues of 4-(-1-pyrrolidiny) piperidine and their effect On Plasma glucose level** **Nousheen Mushtaq**, Z.S. Saify, Shamim Akhtar, Muhammad Arif, Saida Haider and Nazish Saba, *Pak. J. Pharm. Sci.* 2010 vol. 23 (2), 220-23
20. **Molecular approaches toward Alzheimer's disease.** Faiza Tahir, Att-ur-Rahman, M. Iqbal Choudry, Z.S. Saify, Mehrunnisa, Shazia Haider and **Nousheen Mushtaq**; *Alzheimer's and Dementia*, 4(4), suppl 2008 ppT474
21. **Synthesis and Behavioral study of 4-(1-pyrrolidiny)Piperidine and its derivatives** **Nousheen Mushtaq**, Z.S. Saify, Shamim Akhtar Viqar-uddin Ahmed and M.Arif *Pak. J. Pharmacol.* 2008 vol. 25 (1), 19-24
22. **Synthesis and Evaluation of novel phenacyl based carboxamide derivatives of Piperidine as antihypertensive agents** Shamim Akhtar, Z. S. Saify, M. Arif, **Nousheen Mushtaq**, Ahsana Dar and Ashfaq Ahmed. *Pakistan Journal of Physiology*, 2006 2 (1), 42-8

23. **Synthesis and biological activities of novel 4-(4'-chlorophenyl)-4- hydroxypiperidine derivatives** Z.S. Saify , **Nousheen Mushtaq**, Khalid M. Khan, S. Perveen , S.T. Shah, Abdel-Jalil RJ, M. Fecker, Voelter W. *Chem Pharm Bull* 2005 Jan;53(1):64-6.
24. **Antibacterial Activity of 1-methyl-7-methoxy- $\beta$ -carboline and its phenacyl and coumarine analogues** Z.S. Saify, Jawaid Farhad, **Nousheen Mushtaq**, Fozia Noor, Shamim Akhtar Baqir Shyum Naqvi, Muhammad Haris Shoaib and Khalid M. Khan *Pak. J. Pharm. Sci*, 2005 vol.18 (3),.39-41
25. **Neurochemical estimations of some new quaternary phenacyl-bromo-piperidinium compounds** Z.S. Saify, Shamim Akhtar ,Muhammad Arif, **Nousheen Mushtaq** and D.J. Haleem, *Pak. J. Pharm. Sci*, 2005; vol. 18 (2),.52-4
26. **Effects of Fish oil and lipid lowering drugs on serum triglycerides alone and in combination.** Z.S. Saify, Faheem Ahmed, Shamim Akhtar, **Nousheen Mushtaq**, M. Arif and Sonia Siddiqui. *Pak. J. Pharmacol.* 2004, Vol 21(2), 1-7.
27. **Effect of Diazepam on CNS excitation and other behavioral changes induced by Harmaline and its newly synthesized analogues;** Z. S. Saify, Jawaid Farhad, **Nousheen Mushtaq**, Fozia Noor, Shamoona Takween, Shamim Akhtar and Khalid M. Khan; *Pak. J. Pharm. Sci.* 2004 vol. 17 (1),.31-6
28. **Biochemical studies on Marine Fish oil Part-I: Effects of fish oil and lipid lowering drugs on LDL /HDL cholestrol levels** Z.S. Saify, Faheem Ahmed, Sonia Siddiqui, Shamim Akhtar, Sohail Hasan, Shaheen A. Hussain and **Nousheen Mushtaq**; *Pak. J. Pharm. Sci.*2003 vol. 16 (2) 1-8.
29. **Synthesis of some phenacyl derivatives of 1-methyl-7-methoxy-beta carboline and their behavioral study** Z.S. Saify, Jawaid Farhad, **Nousheen Mushtaq**, Fozia Noor, Shamoona Takween, Shamim Akhtar, Waqar Hussain, Shaheen A. Hussain and Khalid M. Khan, *Pak. J. Pharm. Sci.* 2003.Vol. 16 (1) 73-7
30. **Comparative Studies on Nicotinic Acid Derivatives As Hypolipoproteinemic Agents** Z. S. Saify, M. Arif, Shamim Akhtar, **Nousheen Mushtaq**, and Farah Mazhar; *Pak. J. Pharm. Sci.*, 2001, Vol. 14 (2), July, 33-42
31. **Analgesic and Antimicrobial activity of the Leaves Extract of *Calendula officinalis*** Z.S. Saify, **Nousheen Mushtaq**, Fozia Noor, M. Arif , Shamoona Takween and Shahida Parveen Ahmed; *Hamdard medicus*, 2000, Vol. XLIII, No. 1, Jan-March, 34-7.
32. **Antimicrobial Activity of Some Commonly Used Herbs** Saify Z S, **Nousheen Mushtaq**, Fozia Noor, S Baqir Shyum Naqvi, S Amir Mahdi; *Pak J Pharm Sci* Jul 2000;13(2):1-3.
33. **Role of Quinone moiety as antitumor agent; A Review** Z.S. Saify, **Nousheen Mushtaq**, Fozia Noor Shamoona Takween and M. Arif; *Pak. J. Pharm. Sci.*, 1999, Vol. 12 (2), July, 21-31
34. **Assessment of *Anemone pulsatilla* for some biological Activities** Z.S. Saify, Fozia Noor, **Nousheen Mushtaq** and Ahsana Dar; *Pak. J. Pharm. Sci.*, 1998, vol. 11, No. 1, 47-53