

Syed Nawazish-i-Husain

*Professor of Pharmacology
Punjab University College of Pharmacy,
University of the Punjab old Campus,
Lahore 54000, Pakistan.
nawazish.pharmacy@pu.edu.pk*

Summary of Qualifications

Ph.D. (Pharmacology), University of Strathclyde, Glasgow, UK
M.Phil. (Pharmacology), University of the Punjab, Lahore, Pakistan
B.Pharmacy, University of the Punjab, Lahore, Pakistan

Work Experience

Teaching positions

Joined the University College of Pharmacy, University of the Punjab, Lahore, Pakistan as a Lecturer in Physiology & Pharmacology (1994); presently working as a Professor of Pharmacology.

Teaching & Research Assignments

Currently, teaching Physiology and Pharmacology to under-graduate students of Pharm.D and Pharmacology to post-graduate students (M.Phil. and Ph.D. in Pharmacology), in addition supervising the research projects of post-graduate research scholars which include devising the research project, monitoring progress, figuring out the solutions for hazards or difficulties and finally helping them to write up their theses for defence.

Post Doctoral Research Positions

Post doctorate positions at Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS), Strathclyde University, Glasgow, UK (2011 – 2013)

Worked in Professor Robert L. Jones lab at SIPBS, University of Strathclyde, Glasgow, UK (2012 - 2013) and investigated the role of novel prostanoid analogues on isolated vascular smooth muscle. It involved the laboratory studies investigating the biological profiles of several prostacyclin receptor agonists. One of these, treprostinil, is currently used for the treatment of pulmonary hypertension in humans. The work focused on the use of selective prostanoid receptor antagonists to determine the extents to which DP₁, EP₂, EP₄ and IP receptor systems contribute to relaxation of various vascular smooth muscles. Also, Ca²⁺-imaging experiments on 1321N1 cells expressing rP₂Y₆ receptors using P2Y receptor agonist UDP and P2Y receptor antagonists such as suramin, PPADS, MRS2578 were under taken at Dr. Charles Kennedy's lab.

Visiting Research Scholar

In Dr. Charles Kennedy's lab in SIPBS, University of Strathclyde, Glasgow, UK (2011 - 2012), myography was used to investigate the pharmacological properties of P2Y receptors expressed in pulmonary artery smooth muscle and the role of $Ca_v1.2$, Ca^{2+} -dependent chloride ion channels, ryanodine-sensitive sarcoplasmic reticulum stores, Ca^{2+} -sensitisation pathways and store operated Ca^{2+} channels (SOCC) in P2Y receptor-mediated rat pulmonary vasoconstriction. In addition, Ca^{2+} -imaging experiments on 1321N-rP₂Y₆ receptor cells involving measurement of intracellular Ca^{2+} using Ca^{2+} -sensitive dyes (fluo-4 and fura-2) were also carried out.

Research Project Supervision

SIPBS, University of Strathclyde, Glasgow, UK

In Dr. Kennedy's lab, I co-supervised research projects, which were undertaken by students from Brunei, UK and Brazil to investigate signalling pathways involved in UTP-evoked contractions in rat tail artery as well as performed experiments using Ca^{2+} -imaging technique on 1321N-rP₂Y₆ receptor cells which involved measurement of intracellular Ca^{2+} using Ca^{2+} -sensitive dyes.

University of the Punjab, Lahore, Pakistan

Supervised more than 30 M. Phil. (Pharmacology) students' research projects. This included devising the research projects and over seeing their development and completion.

Presently, two Ph.D. (Pharmacology) and ten M.Phil. (Pharmacology) students are undertaking their research projects in the lab.

Lab Demonstrator

Involved with teaching of pharmacology, physiology, pharmacy practice and pharmaceutical sciences (sterile labs), as a demonstrator, to undergraduate and postgraduate students, during my PhD studies (2005-2009) and post doc assignments (2011-2013) at the SIPBS, University of Strathclyde, Glasgow, UK.

Hospital/Clinical Pharmacist

Worked in Infectious Diseases Hospital (1992-1993) and Drug Information and Poison Control Centre, Alamiri Hospital, (1999-2000) as a pharmacist after joining Kuwait Pharmaceutical Services, Ministry of Health, Kuwait.

Presentations

Oral

A talk entitled, “Antiulcer effect of *Aegle marmalos* and *Caralluma tuberculata* in rats”, was delivered at national Conference on Plants: From Food to Phytomedicine at department of Pharmacy, University of Malakand, KP, Pakistan which was held from 3rd to 4th May, 2018.

An invited talk entitled, “Engagement of Purinergic receptors in Cardiovascular Diseases”, was delivered at 3rd International Health trigonSummit-2018, Inter-Professional Cooperation in Pharmacotherapy organised by Faculty of Pharmacy, University of Lahore, Lahore, Pakistan from 17th to 18th April, 2018.

As a resource person delivered a talk entitled, “Occupational and Health hazards in Pharmacology Research lab”, at Occupational Safety and Laboratory Handling training Programme organised by Punjab University College of Pharmacy, University of the Punjab, Lahore, Pakistan on 31st March, 2018.

An invited talk entitled, “Purinergic receptors in Cardiovascular Diseases”, at 1st National Conference on Recent Advancements in Pharmaceutical Sciences organised by College of Pharmacy, University of Sargodha from 7th to 8th March, 2018.

An invited talk entitled, “Discovering a drug: An Avenue for Pharmacists”, was delivered at International Pharmaceutics Conference, organised by the Department of Pharmaceutics, Faculty of Pharmacy, Bahauddin Zakariya University, Multan from 12th to 13th February, 2018.

An invited talk entitled, “Exploring new avenues for drug discovery”, was delivered at 1st GRIP’s International Conference on Pharmaceutical and Biochemical Sciences (PBS), 7th Pak Pharma & Health care Expo, 2018 from 23rd to 24th January, 2018 at Expo Centre, Lahore, Pakistan.

A talk entitled, “Investigation of antidiabetic activity of *Caralluma tuberculata* in rats”, was presented at Three Days International Conference, Recent Approaches in Research and Applications, organised by Chemical and Pharmaceutical Sciences, Forman Christian College University, Lahore from 17th to 19th January, 2018.

A talk entitled, “Antiinflammatory and Analgesic Activities of Chitosan-based Serrapeptidase Microcapsules”, was presented at Ist International Conference on Emmerging trends in pharmaceutical Activities in Pharmaceutical Sciences organised by the Department of Pharmacy, University of Malakand, KP, Pakistan from 16th to 18th October, 2017.

Being a resource person, delivered a talk entitled, “Conventional Pharmacological Tools and Techniques in CV Research”, in a seminar and a workshop on Ischemia Reperfusion Injury, Structural Design and Use of Rodents in Physiology and Pharmacology Research, organised by the College of Pharmacy, University of The Punjab, Lahore, Pakistan on 2nd December, 2016.

Being a resource person, delivered a talk entitled, “How to employ conventional and modern tools of teaching to Pharmacy students”, in one day workshop on Empowering Effective Teaching in Pharmacy Education, organised by the College of Pharmacy, University of The Punjab, Lahore, Pakistan on 19th November, 2016.

An invited talk entitled, “Drug Discovery; An Eye View of a Pharmacist”, was presented at IPCE, 2016 which was held in Pearl Continental, Hotel, Lahore Pakistan from 21st 23rd April, 2016 under the auspices of Pakistan Pharmacists’ Association.

Talk entitled, “Ca²⁺-signalling pathways involved in P2X receptor-induced contractions of rat small pulmonary artery,” was presented at Purines, 2008 Copenhagen, Denmark on 1st July, 2008.

Posters

Syed, N.H. and Jones, R.L. Comparison of the agonist activities of treprostinil and naxaprostene in rat tail and pulmonary arteries. *Presented at Pharmacology, 2015 at London, UK, from 15th December to 17th December, 2015. Poster communication number PO148.*

Syed, N.H., Tengah, A., Talip, S.T.A., Bujang, S.N.B. and Kennedy, C. Differences in the signalling mechanisms underlying UTP-evoked vasoconstriction of pulmonary and systemic-like arteries. *Presented at “IUPS, 2013” Birmingham, UK (21st July to 26th July, 2013). Poster communication number PCD370.*

Syed, N.H. and Jones, R.L. Comparison of the agonist activities of treprostinil and naxaprostene in systemic blood vessels. *Presented at “IUPS, 2013” Birmingham, UK (21st July to 26th July, 2013). Poster communication number PCD103.*

Syed, N.H., Tengah, A. and Kennedy, C. Characterisation of signalling mechanisms that underlie P2Y receptor-mediated vasoconstriction of rat intrapulmonary artery. *Presented at “Scottish Cardiovascular Forum” Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, Scotland, UK, on 2nd February, 2013. Poster communication number P1.*

Syed, N.H. and Jones, R.L. Comparison of the agonist activities of treprostinil and naxaprostene in systemic blood vessels. *Presented at “Scottish Cardiovascular Forum” Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, Scotland, UK, on 2nd February, 2013. Poster communication number P13.*

Syed, N.H., Tengah, A., Talip, S.T.A., Bujang, S.N.B. and Kennedy, C. Differences in the signalling mechanisms underlying UTP-evoked vasoconstriction of pulmonary and systemic-like arteries. *Presented at "Scottish Cardiovascular Forum" Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, Scotland, UK, on 2nd February, 2013. Poster communication number P44.*

Syed, N.H., Tengah, A., Talip, S.T.A., Bujang, S.N.B. and Kennedy, C. Differences in the signalling mechanisms underlying UTP-evoked vasoconstriction of pulmonary and systemic-like arteries. *Presented at "The British Pharmacological Society" Winter Meeting, London, UK, on 19th December, 2012. Poster communication number PO97.*

Syed, N.H., Tengah, A. and Kennedy, C. Characterisation of signalling mechanisms that underlie P2Y receptor-mediated vasoconstriction of rat intrapulmonary artery. *Presented at "The British Pharmacological Society" Winter Meeting, London, UK, on 13th December, 2011. Poster communication number PO32.*

Syed, N.H., Tengah, A. and Kennedy, C. Characterisation of signalling mechanisms that underlie P2Y receptor-mediated vasoconstriction of rat intrapulmonary artery. *Presented at, The Physiological Society, Themed Meeting on "Vascular and Smooth muscle physiology" at Edinburgh, UK, 6th December, 2011. Poster communication number PC37.*

Syed, N.H., Tengah, A. and Kennedy, C. Characterization of signalling mechanisms that underlie P2Y receptor-mediated vasoconstriction of rat intrapulmonary artery. *Presented at 3rd UK Purine Symposium, held at Cardiff, UK, 2nd November, 2011. Poster communication number 22.*

Memberships

British Pharmacological Society, UK

The Physiological Society, UK

Punjab Pharmacy Council, Pakistan, as a Registered Pharmacist

Academic Staff Association of University of the Punjab, Lahore, Pakistan

Kuwait Pharmaceutical Services, Ministry of Health, Kuwait

Senate, University of the Punjab, Lahore, Pakistan

Syndicate of University of the Punjab, Lahore, Pakistan (2002 – 2005)

Board of Studies of Punjab University College of Pharmacy

Board of Faculty of Pharmacy, University of the Punjab, Lahore, Pakistan

Academic Council of University of the Punjab, Lahore, Pakistan

Interests and Achievements

Sports

International Basketball Player; Represented Pakistan's Basketball Team in Asian Basketball Confederation Championship at Hong Kong (1983)
Punjab University Blues in Basketball (1982-83)
Pakistan University's Colour in Basketball (1984-85 and 1985-86)
President Punjab University Teaching Department Basketball Club
President Punjab University Basketball club (2004 – 2005)
Watch sports

Others

Tourism, Hiking, Trekking and Hill walking
Music
Reading and Writing