

Curriculum Vitae
DILEEP K. ROHRA



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Date of Birth: May 1st, 1965

Nationality: Pakistan

Marital status: Married

Education:

<u>Type</u>	<u>University</u>	<u>Location</u>	<u>Year</u>	<u>Subjects</u>
Ph.D.	Tohoku University	Sendai, Japan	March, 2003	Pharmacology
M.Phil.	Jinnah Post-graduate Medical Center, Karachi University	Karachi, Pakistan	April, 1996	Pharmacology
M.B.B.S	Sindh Medical College, Karachi University	Karachi, Pakistan	August, 1989	Basic Medical Degree

Experience:

<u>Name of Institution</u>	<u>Location</u>	<u>Position</u>	<u>From-to</u>
Tohoku University	Sendai, Japan	Visiting Professor	29/06/2012-28/07/2012
Alfaisal University	Riyadh, Kingdom of Saudi Arabia	Associate Professor (Pharmacology)	01/10/2010 - date
University of Nizwa	Nizwa, Oman	Associate Professor (Pharmacology)	09/02/2009 - 30/09/2010
Aga Khan University	Karachi, Pakistan	Associate Professor (Pharmacology)	01/07/2006 - 08/02/2009
University of Alberta	Edmonton, Canada	Visiting Scientist	13/08/2005 - 8/10/2005
Aga Khan University	Karachi, Pakistan	Assistant Professor (Pharmacology)	30/06/2003 - 30/06/2006
Chandka Medical College	Larkana, Pakistan	Assistant Professor (Pharmacology)	17/09/1999 - 28/06/2003
Chandka Medical College	Larkana, Pakistan	Assistant Professor (Pharmacology)	29/10/1998 - 16/09/1999
Chandka Medical College	Larkana, Pakistan	Lecturer (Pharmacology)	21/06/1992 - 28/10/1998

Jinnah Postgraduate Medical Center	Karachi, Pakistan	House Officer (Anesthesia)	05/1991-10/1991
Jinnah Postgraduate Medical Center	Karachi, Pakistan	House Officer (Surgery)	09/1990-03/1991
Jinnah Postgraduate Medical Center	Karachi, Pakistan	House Officer (Medicine)	04/1990-09/1990

Title of Ph.D. thesis: Mechanism of acidic pH-induced contraction in isolated aortas from spontaneously hypertensive and Wistar Kyoto rats

Title of M.Phil thesis: Comparative study of role of sub-antihypertensive doses of methyldopa and lisinopril in hypertensive left ventricular hypertrophy

Awards/Honors/Memberships:

1. Recipient of Monbusho Scholarship from Government of Japan to pursue Ph.D. course at Tohoku University, Sendai
2. Member of Japanese Pharmacological Society
3. Registered with Pakistan Medical & Dental Council (Reg. No. 19428-S)
4. Member of Pakistan Medical Association
5. Recipient of Faculty Development Award, 2005 from The Aga Khan University, Karachi for training at the University of Alberta, Edmonton, Canada (US\$ 6,500).
6. Life Member; Pakistan Physiological Society
7. Recipient of OUTSTANDING TEACHER AWARD 2007, Aga Khan University
8. Included in the Directory of "Productive Scientists of Pakistan"

Academic & Administrative activities:

1. Head, Section of Pharmacology, Department of Biological & Biomedical Sciences, Aga Khan University, Karachi (July 15, 2008 – Feb 8, 2009)
2. Chair, Year 1 Curriculum Sub-Committee, Aga Khan University, Karachi (June 2006-October 2007 and September 2008 - Feb 8, 2009)
3. Co-chair, Respiration & Circulation Module, Aga Khan University, Karachi (October 2003 - September 2007)
4. Chair, Respiration & Circulation Module, Aga Khan University, Karachi (October 2007 - Feb 8, 2009)
5. Member, Neurosciences Module, Aga Khan University, Karachi
6. Co-chair, Multisystem II & Neoplasia Module, Aga Khan University, Karachi
7. Member Curriculum Committee, Aga Khan University, Karachi (June 2006-October 2007 and September 2008 - Feb 8, 2009)

- 8.** Member Ph.D Committee, Aga Khan University, Karachi (October 2003 - April 2008)
- 9.** Member, Bioethics Groups, Aga Khan University, Karachi (July 2006 - Feb 8, 2009)
- 10.** Co-Chair, Year 1 Curriculum Sub-Committee, Aga Khan University, Karachi (November 2007 - September 2008)
- 11.** Member Academic Council, Faculty of Health Sciences, Aga Khan University (October 1 2003 – September 30, 2007)
- 12.** Director of the course ‘Pharmacology I’ for undergraduate students at University of Nizwa
- 13.** Director of the course ‘Pharmacology III’ for undergraduate students at University of Nizwa
- 14.** Director of the course ‘Pharmacology IV’ for undergraduate students at University of Nizwa
- 15.** Director of the course ‘Pharmacotherapy II’ for undergraduate students at University of Nizwa
- 16.** Director of the course ‘Pharmacogenetics & Pharmacoepidemiology’ for undergraduate students at University of Nizwa
- 17.** Chair “Research Committee”, College of Pharmacy & Nursing, University of Nizwa, Oman (November 1, 2009- September 30, 2010)
- 18.** Head Department of Pharmacology, University of Nizwa, Oman
- 19.** Member, Research & Research Ethics Regional Committee, Dakhilyia Region, Oman (April 2, 2010- September 30, 2010)
- 20.** Member, Pharmacovigilance Committee, Nizwa Hospital, Nizwa, Oman
- 21.** Head, Section of Pharmacology, Department of Pharmacology & Pathology, Alfaisal University (October 1, 2011-date)
- 22.** Member, Research Committee, College of Medicine, Alfaisal University (January 10, 2012-date)
- 23.** Member, Curriculum Committee, College of Medicine, Alfaisal University (September 1, 2012-date)
- 24.** Member, Phase I Curriculum Committee, College of Medicine, Alfaisal University (September 1, 2012-date)
- 25.** Member, Phase II Curriculum Committee, College of Medicine, Alfaisal University (September 1, 2012-date)
- 26.** Director, PBL, College of Medicine, Alfaisal University (September 1, 2012-date)
- 27.** Member, Clinical Research Committee, King Faisal Specialist Hospital & Research Centre, Riyadh (September 2012-date)

Undergraduate Projects supervised:

1. Causes of chronic liver disease in patients attending Sur Hospital, Oman (Ms Maha Khamis Mohammed Al-arimi)
2. Analysis of drug use during pregnancy at Ibra Hospital, Oman (Zahiwa Al-Hajri)
3. Impact factor-based quality assessment of biomedical research in Oman (Ms Raya Nasser Hamed Al-Habsi)
4. Distribution of various types of cancers in patients attending Royal Hospital, Muscat, Oman (Ms Sahwa Mubarak Al Muhrami)
5. Comparative analysis of biomedical research in Oman from 2007-2009 (Ms Aisha Nasser Saif Al Sinawi)
6. Osteoporosis: knowledge and awareness among students of University of Nizwa (Ms Siham Yahya Al-Rashdi)
7. Prevalence of insomnia in University of Nizwa students (Ms Amani Abdullah Hilal Al Balushi)
8. Comparative analysis of biomedical research in Oman and United Arab Emirates from 2007-2009 (Ms Afiya Ali Sultan Al Shukaili)
9. Comparative analysis of biomedical research in Oman and Qatar from 2007-2009 ()
10. Comparative analysis of biomedical research in Oman and Bahrain from 2007-2009 (Ms Sanida Rashid Salim Al Maradi)
11. Comparative analysis of biomedical research in Oman and Kuwait from 2007-2009 (Ms Iman Khamis Al Alaawi)

Skills:

1. Fluent in English, Sindhi, Japanese & Urdu. Can read Arabic.
2. Competency in computer skills and expertise in using all the commonly used soft wares

Scholarly Activities:

1. Reviewer, Canadian Family Physician (February 2004 - date)
2. Reviewer, Journal of the College of Physicians and Surgeons, Pakistan
3. Reviewer, Canadian Medical Association Journal
4. Reviewer, Journal of Dow University of Health Sciences
5. Reviewer, Journal of Postgraduate Medicine
6. Reviewer, Journal of the American Pharmacists Association
7. Reviewer, International Journal of Health Geographics
8. Designer and Coordinator of the course "Ion Channels: a tool for investigating drug-cell interactions" for graduate students.
9. Faculty Advisor to Journal of Pakistan Medical Students (March 6, 2011 – date)

10. Visiting Professor at the Department of Pharmacy and Pharmacology, Jinnah Medical and Dental College, Karachi (October 27, 2004 – date)
11. Higher Education Commission-approved Ph.D. Supervisor (May 29, 2006 – date)
12. Member, Curriculum Committee, College of Medicine, Alfaisal University (November 2010-date)
13. Member, Research Committee, College of Medicine, Alfaisal University (November 2010-date)
14. Certificate Holder of Human Participants Protection Education for Research Teams Online Course sponsored by the National Institute of Health.
15. Member, Editorial Board, Journal of Autacoids
16. Editor, MASAUM Journal of Medicine and Medical Sciences (January 1, 2012-date)
17. Member, Clinical Research Committee of the King Faisal Specialist Hospital & Research Centre (September 18, 2012-date)

Grants:

1. Seed Money Grant No. SM030707 (2004), Aga Khan University, Karachi, Pakistan
Project Title: Influence of changes in pH on the contractile status of human vascular tissue (Completed)
Principal Investigator: Dileep K. Rohra
Amount: US\$ 5,860

2. University Research Council Grant (2004), Aga Khan University, Karachi, Pakistan
Project Title: Antiviral activity of Fluoroquinolones against Human Papilloma Virus
Principal Investigator: Syed Hamid Ali
Co-Principal Investigator: Dileep K. Rohra
Amount: US\$ 22,920

3. University Research Council Grant No. 052008BBS (2005), Aga Khan University, Karachi, Pakistan
Project Title: Assessment of sFlt-1, VEGF, PlGF as biochemical markers for the prediction of preeclampsia
Principal Investigator: Dileep K. Rohra
Amount: US\$ 34,570

4. Higher Education Commission (2006), Islamabad, Pakistan
Project Title: Drug prescription for pregnant women: a pharmaco-epidemiological study (Completed)
Principal Investigator: Dileep K. Rohra

Amount: PKR 430,100 (US\$ 7,200)

5. Higher Education Commission (2006), Islamabad, Pakistan

Project Title: Quantification of cell-free fetal mRNA in maternal plasma: an approach towards the development of a predictive biochemical marker for preeclampsia

Principal Investigator: Dileep K. Rohra

Amount: PKR 3,105,900 (US\$ 51,200)

6. Higher Education Commission, Islamabad, Pakistan; Travel Grant to participate in the 4th International Symposium on Diabetes & Pregnancy held at Istanbul from March 29-31, 2007 (PKR 120,710 = US\$ 2,010).

7. Higher Education Commission, Islamabad, Pakistan; Travel Grant to participate in the 22nd. MSPP Scientific Meeting 2008 held at Kualalampur, Malaysia from April 3-8, 2008 (PKR 85,404 = US\$ 1,300).

8. Higher Education Commission (2009), Islamabad, Pakistan

Project Title: Determination of calcium absorption from intestine at various Vitamin D levels using strontium as the surrogate marker in Pakistani population

Principal Investigator: Dileep K. Rohra

Amount: PKR 821,100 (US\$ 10,263)

9. University of Nizwa, Oman (2010)

Project Title: Assessment of Vitamin D status among healthy adult students of University of Nizwa

Principal Investigator: Dileep K. Rohra

Amount: RO 21,257 (US\$ 55,206)

10. University of Nizwa, Oman (2010)

Project Title: A multi-center study on Gestational diabetes mellitus (GDM) and pregnancy outcome among Omani Population

Principal Investigator: Dr. Shyam Sundar

Amount: RO 7,370 (US\$ 19,140)

11. Alfaisal University, Riyadh. Travel grant to work on a collaborative research project in Tohoku University, Sendai, Japan from June 28-July28, 2012. (SAR 25,000 = US\$ 6,666)

12. Alfaisal University, Riyadh (2013)

Project Title: A cross section study to assess the impact of β blockers on hearing function in patients at the KFSH&RC heart centre

Principal Investigator: Dileep K. Rohra

Amount: SAR 50,000 (US\$ 13,333)

13. Alfaisal University, Riyadh. Travel grant to attend 2013 Annual Meeting of the American College of Clinical Pharmacology, Bethesda, Maryland, USA, September 22-24, 2013 (SAR 19,415 = US\$ 5,177)

14. Boeing (2013)

Project Title: Pattern of self-medication among university students of Saudi Arabia

Principal Investigator: Osama Mufid Mustafa

Amount: SAR 37,500 (US\$ 10,000)

Publications:

Scientific Journals:

1. ***Rohra DK**, Khuwaja MA, Mahessar Z. Role of sub-antihypertensive dose of lisinopril in regression of hypertensive left ventricular hypertrophy. *Pak J Med Res* 1997; **37**:26-29.
2. Yamakuni T, Hashimoto M, Sakagami H, Yamamoto T, Kobayashi M, Fujii Y, Yamamoto H, **Rohra DK**, Yusuke Hiwatashi, Honma T, Kondo H, Shido O, Ohizumi Y. Expression of V-1, a novel catecholamine biosynthesis regulatory protein, is enhanced by hypertension in atrial myocytes of Dahl salt-sensitive rats. *Biochem Biophys Res Comm* 2002; **298**:793-797.
3. **Rohra DK**, Saito S, Ohizumi Y. Functional role of Cl^- channels in acidic pH-induced contraction in aorta of spontaneously hypertensive and Wistar Kyoto rats. *Eur J Pharmacol* 2002; **453**:279-286.
4. **Rohra DK**, Yamakuni T, Furukawa K-I, Ishii N, Shinkawa T, Isobe T, Ohizumi Y. Stimulated tyrosine phosphorylation of phosphatidylinositol 3-kinase causes acidic pH-induced contraction in spontaneously hypertensive rat aorta. *J Pharmacol Exp Ther* 2002; **303**, 1255-1264.
5. **Rohra DK**, Saito S, Ohizumi Y. Functional role of ryanodine-sensitive Ca^{2+} stores in acidic pH-induced contraction in Wistar Kyoto rat aorta. *Life Sci* 2003; **72**:1259-1269.
6. **Rohra DK**, Saito S, Ohizumi Y. Extracellular acidosis results in higher intracellular acidosis and greater contraction in spontaneously hypertensive rat aorta. *Eur J Pharmacol* 2003; **465**:141-144.

7. Rohra DK, Saito S, Ohizumi Y. Strain-specific effects of acidic pH on isolated aortas from Wistar and WKY rats. *Eur J Pharmacol* 2003; **476**:123-130.
8. *Rohra DK. Effects of changes in pH on the contractility of vascular smooth muscle. *J Coll Phys Sur Pak* 2003; **13**:544-548.
9. Rohra DK, Saito S, Ohizumi Y. Mechanism of acidic pH-induced contraction in spontaneously hypertensive rat aorta: role of Ca²⁺ release from the sarcoplasmic reticulum. *Acta Physiol Scand* 2003; **179**:273-280.
10. *Rohra DK, Yamakuni T, Ito S, Saito S, Ohizumi Y. Evidence for the involvement of protein kinase C in acidic pH-induced contraction in spontaneously hypertensive rat aorta. *Pharmacology* 2004; **71**:10-16.
11. *Rohra DK. Adverse drug reactions in developing countries. *J Coll Phys Sur Pak* 2004; **14**:325.
12. Rohra DK, Yamakuni T, Ohizumi Y. Acidosis-induced protein tyrosine phosphorylation depends on Ca²⁺ influx via voltage-dependent Ca²⁺ channels in SHR aorta. *Eur J Pharmacol* 2004; **504**:105-111.
13. *Rohra DK, Qidwai N. Biochemical screening for the prediction of preeclampsia. *J Pak Med Assoc* 2005; **55**:79-82.
14. *Rohra DK, Sharif HM, Zuberi HS, Sarfraz K, Ghayur MN, Gilani AH. Acidosis-induced relaxation of human internal mammary artery is due to activation of ATP-sensitive potassium channels. *Eur J Pharmacol* 2005; **514**:175-181.
15. *Rohra DK, Saito S, Ohizumi Y. Low extracellular Cl⁻ environment attenuates changes in intracellular pH and contraction following extracellular acidosis in Wistar Kyoto rat aorta. *Pharmacology*; 2005; **75**:30-36.
16. *Rohra DK, Jawaid Ali, Rehman T, Zaidi AH. Reliability of rodent animal models in biomedical research. *J Coll Phys Sur Pak*, 2005; **15**:809-812.
17. *Rohra DK, Gilani AH, Memon IK, Perven G, Khan MT, Zafar H, Ahuja RK. Critical evaluation of the claims made by pharmaceutical companies in drug promotional material in Pakistan. *J Pharm Pharm Sci*, 2006; **9**:50-59.
18. *Lakho GR, Rohra DK. Targeting apoptosis with commonly used medicinal plants: an approach to fight against cancer (Invited Review). *Med Hypoth Res*, 2006; **3**:643-650.
19. *Jawaid A, Rehman T, Rohra DK. Regulation of human coronary vasculature tone: further evidence must be sought before ruling out the direct role of ATP-sensitive potassium channels. *Circ Res*, 2006; **98**:73 (DOI: 10.1161/01.RES.0000225256.68436.66).
20. *Rohra DK, Memon IK. ATP-sensitive K⁺ channels: current and putative target for the prevention and treatment of cardiovascular diseases (Invited Review). *Vasc Dis Prev*, 2006; **3**:247-252.
21. *Rohra DK, Maheshwary AR, Gauba SS. Prevalence of cardiovascular events in diabetic patients taking sulphonylureas: need for assessment. *J Pak Med Assoc* 2007; **57**:163.

22. ***Rohra DK**, Imdad A, Samad F, Gangwani R. Similar looking drug names in Pakistan: a potential source of medication errors. *Med Channel* 2007; **13**:39-44.
23. ***Rohra DK**, Zuberi HS, Ohizumi Y. Endothelial dysfunction underlying the increased contractility in aorta from older rats. *Pak J Physiol*, 2007; **2**: 8-11.
24. ***Rohra DK**, Jawaid A, Rehman T, Sukkurwala AQ, Palanpurwala AS, Gangwani R. Prescription of new drugs by general practitioners in Pakistan: an exploration into information sources, prescription influences and general attitudes. *Pak J Med Res*, 2007; **46**:5-10.
25. ***Zeb A**, Rajabali S, **Rohra DK**. Mechanism underlying hypertension and proteinuria caused by Bevacizumab. *J Coll Phys Sur Pak*, 2007, **17**:448.
26. ***Rohra DK**, Jawaid A, Zuberi HS, Rehman T, Rashid M. Fetal DNA in maternal circulation: implications in non-invasive pre-natal diagnosis. *Med Today*, 2007, **5**:78-82.
27. ***Rohra DK**, Bashir MU, Khwaja UA, Nazir MR. Critical appraisal of evidence-based advertising in Pakistan. *Pharm World Sci*, 2008, **30**:216-21.
28. ***Rohra DK**, Jaipal, Khowaja AA, Mahmood K, Ahuja KL. Precipitating factors of hepatic encephalopathy in patients with chronic liver disease at Civil Hospital Karachi. *J Coll Phys Sur Pak*, 2008, **18**:131-131.
29. ***Rohra DK**, Solangi NA, Memon Z, Khan NH, Azam SI, Ahuja KL. Hemoglobin status of pregnant women visiting tertiary care hospitals of Pakistan. *Pak J Med Res* 2008, **47**:33-36.
30. ***Rohra DK**, Das N, Azam SI, Solangi NA, Memon Z, Shaikh AM, Khan NH. Drug-prescribing patterns during pregnancy in the tertiary care hospitals of Pakistan: a cross sectional study. *BMC Pregnancy Childbirth* 2008, **8**:24 doi:10.1186/1471-2393-8-24.
31. ***Rohra DK**, Memon A, Khan KM. Ototoxicity — the hidden menace of beta-blockers. *J Coll Phys Sur Pak* 2008, **18**:297-298.
32. Memon I, Panhwar A, **Rohra DK**, Azam SI, Khan MN. Prevalence of byssinosis in textile workers of Karachi. *Arch Environ Occup Health* 2008, **63**:137-142.
33. Shah NA, Hafeezullah, Qureshi S, Abbasi MA, Sheikh MH, **Rohra DK**. Role of calcium channel antagonism in vasodilator effects of 17 β -estradiol. *Pak J Physiol* 2008, **4**:8-12.
34. ***Rohra DK**, Jaipal, Khowaja AA, Mahmood K, Ahuja KL. Modes of presentation and reasons of hospitalization for patients with decompensated chronic liver disease at Civil Hospital Karachi. *J Dow Uni Health Sci*, 20008, **2**:50-54.
35. ***Rohra DK**, Khan NB, Azam SI, Sikandar R, Zuberi HS, Zeb A, Qureishi RN, Hasan R. Reasons of refusal and drop out in a follow up study involving primigravidae in Pakistan. *Acta Obs Gynecol Scand*, 2009, **88**: 178-182.
36. ***Rohra DK**, Juriasinghani V, Rai K. Prevalence of immediate vasovagal reactions in blood donors visiting two blood banks of Karachi. *Transfusion Med*, 2010, **20**:129-133.

37. Shah N, Rohra DK, Shams H, Khan NH. Home deliveries: reasons and adverse outcomes in women presenting to a tertiary care hospital. *J Pak Med Assoc*, 2010, **60**:555-558.
38. *Rohra DK. Representation of less-developed countries in Pharmacology journals: an online survey of corresponding authors. *BMC Med Res Method*, 2011 May 5;**11**:60.
39. *Rohra DK, Azam SI. Quantitative and qualitative analysis of Pubmed-indexed biomedical publications in Oman from years 2005-2009. *Oman Med J*, 2011, **26**: 160-165.
40. *Rohra DK. Let's build our own international journals. *Pak Med Students J*, 2011, **1(2)**:65-66.
41. Shah N, Rohra DK, Shuja S, Liaquat NF, Solangi NA, Kumar K, Kumar K, Ahuja KL, Azam SI, Khan N. Comparison of obstetric outcome among teenage and non-teenage mothers from three tertiary care hospitals of Sindh, Pakistan. *J Pak Med Assoc*, 2011, **61**:963-967.
42. Khan AH, Rohra DK, Saghir, SA, Udani SK, Wood R, Jabbar A. Response of a single 'Mega Intramuscular Dose' of Vitamin D on serum 25OHD and parathyroid hormone levels. *J Coll Phys Sur Pak*, 2012, **22**:207-212.
43. Khan AH, Rohra DK, Saghir, SA, Udani SK, Wood R, Jabbar A. No change in calcium absorption in adult Pakistani population before and after vitamin D administration using strontium as surrogate. *Osteoporosis Int*, 2012 (PMID: 22572965).
44. *Rohra DK, Zeb A, Qureishi RN, Azam SI, Khan NB, Zuberi HS, Sikandar R. Prediction of preeclampsia during early pregnancy in primiparas with soluble fms-like tyrosine kinase-1 and placental growth factor. *N Med J India*, 2012, **25**:68-73.
45. *Rohra DK. Need to redefine population-specific reference values of Vitamin D. *J Autacoids* 2012, **1**:e110.
46. *Jawaid A, Rohra DK, Zafar AM, Jawaid A. Do general practitioners know what they are prescribing? *J Coll Phys Sur Pak*, 2013 **23**:375-377.
47. AlTuhaifi TM, AlAmodi AA, Awad AMA, *Rohra DK. Critical appraisal of references provided in advertising brochures in the Kingdom of Saudi Arabia. Submitted for publication to *Saudi Phar J*.

*indicates publications in which I am the corresponding author.

Book Chapter:

1. Rohra DK, Qazi Y. Reliability of rodent models. In "Sourcebook of Models for Biomedical Research", The Humana Press Inc. Totowa, NJ, USA; 2008, 1st Edition: 213-217.

Other Publications:

1. Rohra DK, Memon IK. Suicide and society. *Daily News*, October 9, 2005.
2. Rohra DK, Rohra VK. Giving a bad name. *Daily News*, February 12, 2008.

3. Rohra DK, Clinical Quiz. *Pharmaco Logical*; The Newsletter of the Rational Use of Medicine Directorate, Ministry of Health, Sultanate of Oman, Volume 6(1); May 2010:2&4.

Abstracts / Presentations / Workshops:

1. Rohra DK, Mahesar AL, Amir K, Ali M. Comparative study of methyldopa and lisinopril in hypertensive left ventricular hypertrophy. 33rd Annual Symposium of Jinnah Post Graduate Medical Centre, Karachi, December, 1995.
2. Mahesar AL, Rohra DK, Amir Kausar, Ali M. Role of calcium channel blockers as tocolytic agents. 33rd Annual Symposium of Jinnah Post Graduate Medical Centre, Karachi, December, 1995.
3. Rohra DK, Saito S, Ohizumi Y. Inhibitory effects of chloride channel blockers on acidic pH-induced contraction in rat aorta. *Jpn. J. Pharmacol* 2001, **85**, suppl. 1:92P. The 74th annual meeting of the Japanese Pharmacological Society, March 21-23, 2001, Yokohama, Japan.
4. Rohra DK, Saito S, Ohizumi Y. The role of Ca²⁺ release in acidic pH-induced contraction. *Folia Pharmacol. Jpn* 2001, **118**, suppl. 1:116P-117P. The 29th symposium on drug activity, Nov. 1-2, 2001, Sendai, Japan.
5. Rohra DK, Saito S, Ohizumi Y. Effect of low extracellular Cl⁻ environment on acidic pH-induced contraction and intracellular pH in SHR and WKY rat aorta. Abstract published in *Jpn J Pharmacol* 2002, **88**, Suppl 1:70P. The 75th annual meeting of the Japanese Pharmacological Society, March 13-15, 2002, Kumamoto, Japan.
6. Rohra DK, Saito S, Ohizumi Y. Comparative study of extracellular low pH-induced decrease of intracellular pH in aortas isolated from SHR or WKY. *J Smooth Muscle Res* 2002, **6**:J-34. The 44th annual meeting of the Japan Society of Smooth Muscle Research, July 17-19, 2002, Sendai, Japan.
7. Rohra DK, Yamakuni T, Furukawa K-I, Ishii N, Shinkawa T, Isobe T, Ohizumi Y. Stimulated tyrosine phosphorylation of PI3-kinase causes acidosis-induced contraction in SHR aorta. *J Pharmacol Sci* 2003, **91**, suppl. 1:1P262. The 76th annual meeting of the Japanese Pharmacological Society, March 24-26, 2003, Fukuoka, Japan.
8. Rohra DK, Saito S, Ohizumi Y. Difference of strain affects the effect of acidic pH on contractile force of aortas isolated from Wistar and Wistar-Kyoto rats. *Abstract* of the 123rd annual meeting of the Pharmaceutical Society of Japan, March 27-29, 2003, Nagasaki, Japan.
9. Saito S, Rohra DK, Ito S, Ohizumi Y. Acidic pH-induced contraction and relaxation in rat arteries and aorta – vascular site-specific and strain-specific responses. *Kor J Physiol Pharmacol* 2003, **7**, suppl. 1:43. The 9th South Asian-Western Pacific regional meeting of pharmacologists, August 19-23, 2003, Busan, Korea.

10. Tutorial facilitation skills workshop for problem-based learning. The Aga Khan University, Karachi, October 2-3, 2003.
11. Epidemiology, Biostatistics and Surveillance Course. The Aga Khan University, Karachi, August 2-27, 2004.
12. Khawar T, Zeb A, Ali I, Khan N, Rattani A, **Rohra DK**, Zaidi AH, Kasi PM, Nawaz H, Qidwai W. Attempts at devising strategies for educating women of childbearing age about tetanus immunization. 15th European Students' Conference, October 19-23, 2004, Berlin, Germany. Abstract published in Abstract Book 2004:267.
13. Saito S, Ito S, **Rohra DK**, Yasushi O. Different response to acidic pH in aorta and tail artery isolated from spontaneously hypertensive rat. *J Pharmacol Sci*, 2004, **94**:221.
14. Arshad M, Qidwai W, Memon AS, Dahiri MM, Ayub A, Khalid O, Javaid S, Kasi PM, Khawar T, Zaidi AH, **Rohra DK**. Self and alternative treatment in pre-surgery patients. 15th European Students' Conference, October 19-23, 2004, Berlin, Germany. Abstract published in Abstract Book 2004:268.
15. **Rohra DK**, Sharif HM, Zuberi HS, Sarfraz K, Ghayur MN, Gilani AH. ATP-sensitive potassium channels mediate acidosis-induced relaxation of human internal mammary artery. 1st Annual Symposium of Dow University of Health Sciences, December 16- 20, 2004, Karachi, Pakistan.
16. Rehman T, **Rohra DK**, Sharif HM, Zuberi HS, Jawaid A, Sarfraz K, Ghayur MN, Gilani AH. Acidosis-induced relaxation of human internal mammary artery is due to activation of ATP-sensitive potassium channels. 13th Annual International Ain Shams Medical Students' Congress, February 13-16, 2005, Cairo, Egypt.
17. Panhwar A, Memon IK, **Rohra DK**. Prevalence of byssinosis in textile workers in Karachi. 4th National Seminar on Occupational Health Safety & Environment, Nov 14-15, 2005, Karachi, Pakistan. Abstract published in Abstract Book 2005:28-30.
18. **Rohra DK**, Yamakuni T, Ohizumi Y. Ca²⁺ influx via voltage-dependent Ca²⁺ channels mediates acidosis-induced tyrosine phosphorylation of PI₃-kinase in SHR aorta. 2nd Annual Symposium of Dow University of Health Sciences, December 26-29, 2005, Karachi, Pakistan. Published in *J Pak Med Assoc* 2005; 55 (Suppl 2):S9.
19. **Rohra DK**, Gilani AH, Memon IK, PervenG, Khan MT, Zafar H, Kumar R. Critical evaluation of the claims made by pharmaceutical companies in drug promotional material in Pakistan. 2nd Health Science Assembly, Aga Khan University, March 7-8, 2006, Karachi, Pakistan.
20. Memon IK, Panhwar A, **Rohra DK**, Khan MN, Sabir S. Prevalence of Byssinosis in textile workers of Karachi. 2nd Health Science Assembly, Aga Khan University, March 7-8, 2006, Karachi, Pakistan.
21. **Rohra DK**, Imdad Aamer, Samad Fatima, Kumar R. Similar looking drug names in Pakistan: a source of medication errors. 2nd Health Science Assembly, Aga Khan

University, March 7-8, 2006, Karachi, Pakistan.

22. **Rohra DK**, Jawaid A, Rahman T, Zaidi AH. Reliability of rodent animal models in biomedical research. 2nd Health Science Assembly, Aga Khan University, March 7-8, 2006, Karachi, Pakistan.
23. Memon IK, **Rohra DK**. ATP-sensitive K⁺ channels: current and putative target for the prevention and treatment of cardiovascular diseases. 10th Biennial International Conference of the Pakistan Physiological Society, April 7-8, 2006, Liaquat University of Medical & Health Sciences, Jamshoro, Pakistan.
24. **Rohra DK**, Saito S, Ohizumi Y. Acidosis-induced depolarization is due to activation of Cl⁻ channels in SHR and WKY rat aorta. 10th Biennial International Conference of the Pakistan Physiological Society, April 7-8, 2006, Liaquat University of Medical & Health Sciences, Jamshoro, Pakistan.
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40. Workshop on “Critical Thinking”, University of Nizwa, Oman; February 23, 2009
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42. Invited lecture on “Treatment of lower respiratory tract infections” in workshop “Infectious Diseases”, University of Nizwa, Oman; April 13, 2010.
43. Workshop on “Evidence-based practice”, University of Nizwa, Oman; April 28-29, 2010.
44. **Rohra DK**, Zeb A, Qureishi RN, Azam SI, Khan NB, Zuberi HS, Sikandar R. Presentation on “Prediction of preeclampsia during early pregnancy in primiparas with soluble fms-like tyrosine kinase-1 and placental growth factor” at Alfaisal University, May 22, 2011.
45. AH Khan, **D Rohra**, S Saghir, S Udani, R Wood, A Jabbar. Response of a single ‘mega intramuscular dose’ of vitamin D on serum 25OHD and parathyroid hormone levels in vitamin D deficient volunteers in Karachi Pakistan.. *Osteoporosis Int*, 2011; **22** (Suppl 5):S738.

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- 47. Kumar S, Senok A, Rohra DK, Alshedoukhy A.** Refinement of problem based learning evaluation criteria by tutors results in enhanced active engagement of students and a more objective evaluation process. 10th Asia Pacific Medical Education Conference (APMEC) 2013, 16th - 20th January 2013, Singapore.

Brief about the involvement in Teaching & Administration: I have over 20 years' experience of teaching Pharmacology to undergraduate medical students and nursing students (both undergraduate and postgraduate) and advanced course on Cell Biology to Ph.D. students at the Aga Khan University. I have been consistently evaluated as an excellent teacher by the students. On top of that being a medical graduate, I am at much ease to correlate the teaching of Pharmacology with Physiology, Pathology and Clinical Sciences. Based on my contributions in teaching, I was awarded the highly prestigious OUTSTANDING TEACHER AWARD of 2006 by the Aga Khan University. Aga Khan University has a hybrid mode of curriculum combining PBL with didactic teaching. I have been consistently rated as an outstanding facilitator of the PBL sessions by the students. I also worked at University of Nizwa, where I was coordinating and delivering four courses (Pharmacology I, Pharmacology III, Pharmacology IV and Pharmacogenetics & Pharmacoepidemiology) to undergraduate students. Currently, I am working at Alfaisal University, Riyadh, Saudi Arabia as a section head of the Pharmacology.

As is evident from CV, I have been an active member of several of the University-wide and Departmental Committees of the Aga Khan University. In addition to prestigious Ph.D. Committee, Academic Council and Curriculum Committee, I was Chair as well as member of a number of Year Committees and Module Committees for undergraduate medical education. At University of Nizwa, I was the Chair of the College Research Committee and was member of various college and Regional (Dakhiliya region) Committees. At Alfaisal University, I am the member of Curriculum Committee, Phase I & II Committees and Research Committee. Besides, I am the Director of PBL. In this capacity, I am the head of a committee, which is responsible for review of current PBL cases, development of new cases, obtaining of feedback of students on PBL cases as well as facilitators and assignment of PBL facilitators.

As a senior teacher, I always look at the Pharmacology curriculum critically since I believe

that the curriculum is dynamic. It needs to be reviewed continuously with changing needs. Even before joining Alfaisal, I was actively involved in curriculum development at Alfaisal. I am proud that I have streamlined the teaching of Pharmacology at Alfaisal and have prepared the detailed course documents, blue print of Pharmacology teaching spread over several semesters, well-defined learning objectives of all sessions, and a Student Drug Formulary.