

Professor Dr. Iqbal Ahmad

M. Sc. (Kar.), Ph. D. (London), D. Sc. Royal Society Fellow Tamgha-e-Imtiaz

Department of Pharmaceutical Chemistry Baqai Institute of Pharmaceutical Sciences Baqai Medical University, Karachi

ORCID # 0000-0001-8817-3595

POSTAL ADDRESS 51, Deh Tor, Toll Plaza, Super Highway

Gadap Road, Karachi-74600.

Telephone Off: +92-21-34410293-98

Res: +92-21-34660002 Fax: +92-21-34410439

E-mail: iqbal.ahmed@baqai.edu.pk

ali sheraz80@hotmail.com

ACADEMIC QUALIFICATIONS

B. Sc.	Karachi University	1960
M. Sc. Chemistry	Karachi University	1962
Ph. D. Pharmaceutical Chemistry	London University	1968
Thesis "A Study of Degradation of	f Riboflavin and Related Compour	ıds''
Postgraduate Diploma Statistics	Karachi University	1975
D. Sc. Pharmaceutical Chemistry	Karachi University	2014

PROFESSIONAL QUALIFICATIONS

Registered Pharmacist (Category A) Pharmacy Council of Sind 1976

RESEARCH INTERESTS

Drug Analysis, Drug Stability, Preformulation and Formulation Development, Vitamin Interactions in Solution Media, Photochemistry of Medicinal Compounds, Laser Flash Photolysis Studies of Biochemical and Pharmaceutical Systems, Pharmaceutical and Herbal Drug Development.

EXPERIENCE

POSTDOCTORAL RESEARCH

1. Royal Society Fellow, Department of Biology, Imperial College, London, September 1989–December 1990.

Worked with **Professor Lord G. Porter, O.M., P.R.S., Nobel Laureate** on "Laser Flash Photolysis Studies of Redox Reactions of Photosystem II D1/D2 Cytochrome b 559 Reaction Centres of Higher Plants".

2. Research Associate, Department of Biochemistry, University of Arizona, Tucson, Arizona 85721, U.S.A., July 1980 - September 1981.

Worked with **Professor G. Tollin, Regents' Professor of Biochemistry and Chemistry** on "Laser Flash Photolysis Studies of Flavoproteins and Cytochromes".

3. Postdoctoral Fellow, Research Division, North E. Wales Institute of Higher Education, Connah's Quay, Clwyd CH5 4BR, U.K., September 1978–June 1980.

Worked with **Professor G.O. Phillips** on "Photochemical Investigations of Flavins and Other Drug Systems".

TEACHING

- 1. Professor, Department of Pharmaceutical Chemistry, Institute of Pharmaceutical Sciences, Baqai Medical University, Karachi, August 2006–todate.
- 2. Professor, Department of Pharmaceutical and Medicinal Chemistry, Dubai Pharmacy College, Dubai, January 1995–July 2006.
- 3. Professor, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Karachi, Karachi, December 1985–July 1999 (From 25th January 1995 to 25th July 1999, on Foreign Service Leave, to take up a teaching assignment at Dubai Pharmacy College).
- 4. Associate Professor, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Karachi, Karachi, October 1975–December 1985.
- 5. Assistant Professor, Department of Pharmacy/Pharmaceutical Chemistry, University of Karachi, Karachi, November 1969–October 1975.

INDUSTRIAL

- 1. Research Chemist, Beecham Products/Pharmaceuticals, U.K., 1968-1969.
- 2. Technical Assistant, P.C.S.I.R. Laboratories., Karachi, 1962-1963.

ADMINISTRATIVE

- 1. Director, Postgraduate Research Programme, Department of Pharmaceutical Chemistry, Baqai Institute of Pharmaceutical Sciences, Baqai Medical University, Karachi, August 2006-todate.
- 2. Head, Department of Pharmaceutical and Medicinal Chemistry, Dubai Pharmacy College, Dubai, UAE, January 1995–July 2006.

Established the Department at Dubai Pharmacy College as its First Head in January 1995.

- 3. Chairman, Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Karachi, September 1973–August 1975, October 1981–September 1987.
 - Established the Department at the Faculty of Pharmacy, University of Karachi as its First Chairman in September 1973.
- 4. In charge, Pharmaceutical Chemistry Section, Department of Pharmacy, University of Karachi, April-September, 1973.

OTHER POSITIONS

- 1. Member, Editorial Board, Journal of Pharmacy, University of Punjab, Lahore.
- 2. Referee, Journal of the Chemical Society of Pakistan. Pakistan.
- 3. Referee, Pakistan Journal of Pharmaceutical Sciences. Pakistan.
- 4. External Examiner for Ph. D. Degree, University of Punjab, Lahore.
- 5. External Examiner for Ph. D. Degree, Hamdard University, Karachi.
- 6. Elected Member, Academic Council, University of Karachi, 1977.
- 7. Warden, Students Hostel, Wrexham, North E. Wales Institute of Higher Education, Connah's Quay, Clwyd CH5 4BR, U.K., 1978-1980.
- 8. Head, Alumni Unit, Dubai Pharmacy College, Dubai, UAE.
- 9. Head, Qualitative and Quantitative Analysis Group, Herbal Medicine Development Committee, Dubai Pharmacy College, Dubai, UAE.
- 10. Member Board of Studies, Institute of Tibbi Research, Hamdard University, Kaerachi.
- 11. Member Board of Studies in Pharmaceutical Chemistry, Faculty of Pharmacy, University of Karachi.
- 12. Member Board of Studies in Pharmaceutical Chemistry, college of Pharmacy, Dow University of Health Sciences, Karachi.
- 13. Member Board of Studies in Pharmaceutical Chemistry, Faculty of Pharmacy, University of Karachi.
- 14. Member Board of Studies in Pharmaceutical Chemistry, Faculty of Pharmacy, Hamdard University, Karachi.
- 15. Member of Board of Studies, Faculty of Pharmacy, Baqai Medical University, Karachi.
- 16. Member Editorial Advisory Board, The Open Analytical Chemistry Journal (Bentham).

AWARDS

- 1. Royal Society, U.K. Fellowship Award, 1989.
- 2. Research Productivity Award, 2011, Ministry of Science and Technology, Government of Pakistan.
- 3. Dr. Prof. Khurana Prize for Best Article Published in Indian Journal of Pharmaceutical Sciences in 2012.
- 4. *Tamgha-e-Imtiaz* awarded by the President of Pakistan on 23rd March 2014.

RESEARCH GRANT

Award of Research Grant of Rs. 5,808,308/- by Higher Education Commission on Project entitled "Photostability Studies on Selected Drugs and Formulated Products", 2015.

MEMBERSHIP OF LEARNED SOCIETIES (PRESENT/PAST)

- 1. Federation Internationale Pharmaceutique.
- 2. American Society for Photobiology.
- 3. British Photobiology Society.
- 4. European Photochemistry Association.
- 5. Pharmaceutical Society of Pakistan.
- 6. Chemical Society of Pakistan (Life).
- 7. Scientific Society of Pakistan.
- 8. Pakistan Pharmacological Society (Life).
- 9. Pakistan Association for Advancement of Science.
- 10. Pakistan Association of Scientists and Scientific Profession.

CURRENT RESEARCH PROJECTS

- 1. Evaluation and development of analytical methods for herbal drugs.
- 2. Study of the formulation of pharmaceutical dosage forms.
- 3. Photochemical studies of vitamins and fluoroquinolones in liquid preparations.
- 4. Stability studies of pharmaceutical compounds and their preparations under various climatic conditions.
- 5. Development of stability-determining assay methods for multicomponent pharmaceutical systems.
- 6. Development of liposomal-drug delivery systems.

RESEARCH PUBLICATIONS

Books, Chapters, Reviews

and Research Articles More than 150 in International and National Journals

Research Supervision 65 Ph.D., M.Phil., M.Pharm., M.Sc. Theses

COUNTRIES VISITED

Belgium, France, Germany, Holland, Irish Republic, Italy, Jordan, Lebanon, Mexico, Oman, Saudi Arabia, Singapore, Switzerland, Turkey, U.A.E., U.K., U.S.A.

LIST OF PUBLICATIONS

Books/ Chapters/ Reviews Books

No 1	Authors Iqbal Ahmad, Khan Usmanghani	Title Analysis of Medicinal Compounds and Plant Drugs	Publisher/ Journal Research Institute of Indusyunic Medicine, Karachi (2003)
2	Iqbal Ahmad , Sofia Ahmed, Muhammad Ali Sheraz, Faiyaz H.M. Vaid	BORATES Chemical, Pharmaceutical and Pharmacological Aspects	Nova Science Publishers, Inc., New York (2011)
3	Chapters Iqbal Ahmad	Stability-Indicating Assays in Pharmaceutical Quality Control, Proceedings International Seminar on Policies, Management and Quality Assurance of Pharmaceuticals, (T. Ahmad and R. Khalid, Eds.)	Quality Control Authority, Ministry of Health, Government of Pakistan, Islamabad 256-264 (1985)
4	Iqbal Ahmad, Tauqeer Ahmed, Khan Usmanghani	Oxamniquine, Analytical Profiles of Drug Substances, (K. Florey, Ed.)	Academic Press, New York, 20 , 601-625 (1991).
5	Iqbal Ahmad, Tauqeer Ahmed, Khan Usmanghani	Amodiaquine Hydrochloride, Analytical Profiles of Drug Substances and Excipients (H.G. Brittain, Ed.)	Academic Press, New York, 21 , 43-73 (1993).
6	Iqbal Ahmad, Tauqeer Ahmed, Khan Usmanghani	Sulphacetamide, <i>Analytical Profiles</i> of Drug Substances and Excipients (H.G. Brittain, Ed.)	Academic Press, New York, 23 , 471-510 (1994).
7	K Usmanghani, Iqbal Ahmad, Amir Shadmani, Iqbal Azhar	Extraction Efficiency and Kinetics of Herbal Materials, Herbal Medicine Industry In Pakistan: Issues Product Manufacturing Quality Control Research Development	Research Institute of Indusyunic Medicine, Karachi 139-149 (2000)
8	Khan Usmanghani, Iqbal Ahmad	Medical Plants and Plant Extracts Sources, Utilization and Trades Herbal Medicine Industry In Pakistan: Issues Product Manufacturing Quality Control Research Development	Research Institute of Indusyunic Medicine, Karachi 157-200 (2000)

9	Iqbal Ahmad, Faiyaz H.M. Vaid	Photochemistry of Flavins in Aqueous and Organic Solvents, <i>Flavins Photochemistry and Photobiology</i> (E. Silva and A.M.	Royal Society of Chemistry, Cambridge, 13-40 (2006).
10	Iqbal Ahmad , Sofia Ahmed, Muhammad Ali Sheraz and Faiyaz H. M. Vaid	Edwards, Eds.) Borate: Toxicity, Effect on Drug Stability and Analytical Applications, <i>Handbook on</i> Borates: Chemistry, Production and Applications (M.P. Chung, Ed.)	Nova Science Publishers, Inc., NY, USA, 19–58 (2010)
11	Iqbal Ahmad , Sofia Ahmed, Muhammad Ali Sheraz, Kefi Iqbal and Faiyaz H. M. Vaid	Pharmacological Aspects of Borates, In: <i>Advances in Materials</i> <i>Science Research</i> (Maryann C. Wythers, Editor)	Volume 9, Nova Science Publishers, Inc., New York, USA, pp. 27–55, ISBN: 978–1–61324– 485–2 (2012).
12	Iqbal Ahmad, Muhammad Ali Sheraz, Sofia Ahmed and Faiyaz H. M. Vaid	Analytical Applications of Borates, In: <i>Advances in Materials Science</i> <i>Research</i> (Maryann C. Wythers, Editor)	Volume 9, Nova Science Publishers, Inc., New York, USA, pp. 27–55, ISBN: 978–1–61324– 485–2 (2012).
13	Iqbal Ahmad, Kefi Iqbal, Sofia Ahmed, Muhammad Ali Sheraz, Mohammad Aminuddin	Applications of Laser Flash Photolysis, Spectroscopy and Electron Microscopy in Photopolymerization and Development of Glass Ionomer Dental Cements, In: Clinical Dentistry Research Compendium (Giuseppe Alessandro Scardina, Editor)	Nova Science Publishers, Inc., New York, USA, pp. 57–74, ISBN: 978–1– 62257–574–9 (2013).
14	Muhammad Ali Sheraz, Marium Fatima Khan, Sofia Ahmed, Iqbal Ahmad	Pharmacological Effects of Ascorbic Acid", In: Vitamin C: Dietary Sources, Technology, Daily Requirements and Symptoms of Deficiency (Raquel P. F. Guine, Editor)	Nova Science Publishers, Inc., New York, USA, Chapter 10, ISBN: 978–1– 62948–154–8 (2013).
15	Reviews Sofia Ahmed, MA	Advances in antioxidant activity	J. Baqai Med. Univ., 10 (2),
16	Sheraz, Iqbal Ahmad MA Sheraz, Sofia	of vitamin E Development in the clinical and	J. Baqai Med. Univ., 10 (2), 13-18, (2007). J. Baqai Med. Univ., 10 (2),
17	Ahmed, Iqbal Ahmad Kefi Iqbal, Iqbal Ahmad ,	food analysis of vitamin C Development of glass- ionomer	19-24, (2007). <i>J. Bagai Med. Univ.</i> , 10 (2),
1/	M Aminuddin	cements as dental restorative	9-12, (2007).

18	MA Sheraz, Sofia Ahmed, Iqbal Ahmad	materials Effect of borates on the stability of chemical and pharmaceutical compounds	J. Baqai Med. Univ., 11 (1), 13-15, (2008).
19	Sofia Ahmed, Muhammad Ali Sheraz and Iqbal Ahmad	Vitamin A: Nutritional value and role in public health	J. Baqai Med. Univ., 11 (2), 35–40 (2008).
20	MA Sheraz, Sofia Ahmed, Iqbal Ahmad , SR Khattak	Mechanism of bacterial resistance	J. Baqai Med. Univ., 12(1) , 35-38, (2009).
21	Kefi Iqbal, Iqbal Ahmad , MA Sheraz, Sofia Ahmed, M Aminuddin, Tania Mirza	Use of different-curing units in setting of dental restorative materials	J. Baqai Med. Univ., 12(1) , 51-54, (2009).
22	Tania Mirza, Kiran Qadeer and Iqbal Ahmad	Clinical Analysis of Vitamin-D and Metabolites	<i>J. Baqai Med. Univ.</i> , 12(1) , 25-28 (2009).
23	Tania Mirza, Kiran Qadeer, Sadia Hafeez, Kefi Iqbal and Iqbal Ahmad	Folic Acid and Deficiency Diseases	J. Baqai Med. Univ., 12(1) , 47-50, (2009).
24	Tania Mirza, Urooj Nazim,Rahela Bano, Kefi Iqbal and Iqbal Ahmad	Clinical Analysis, Metabolism and Bioavailibility of Thiamine	J. Baqai Med. Univ., 12(2) , 45-49,(2009).
25	Tania Mirza, Sadia Hafeez Kazi, Zufi Shad, Kefi Iqbal and Iqbal Ahmad	Biochemical Importance, Deficiency and Clinical Assay of Cyanocobalamin	J. Baqai Med. Univ., 12(2) , 51-55 (2009).
26	Muhammad Ali Sheraz, Sofia Ahmed, Sadia Hafeez Kazi, Tania Mirza and Iqbal Ahmad	The Malpractices in Drugs Sale and Implementation of Pharmaceutical Care	J. Baqai Med. Univ., 12 (2), 19-25 (2009).
27	Sofia Ahmed, Muhammad Ali Sheraz, Zufi Shad and Iqbal Ahmad	Botulinum Toxin: Biochemical Aspects, Applications and Adverse Effects	J. Baqai Med. Univ., 12 (2), 39-43 (2009).
28	Iqbal Ahmad , MA Sheraz, Sofia Ahmed, Faiyaz HM Vaid	Analytical applications of borates	Mater. Sci. Res. J. 3 (3/4), 173–202 (2009).
29	Kefi Iqbal, Iqbal Ahmad , M Aminuddin	Spectroscopic techniques in the development of glass ionomer cements	J. Pak. Dent. Assoc., 18 (2), 70-73, (2009)
30	Iqbal Ahmad , Faiyaz HM Vaid, Sofia Ahmed, MA Sheraz, Sohail Hasan	Advances in biochemical functions and the photochemistry of flavins and flavoproteins.	Int. J. Chem. Anal. Sci. 1 (2), 18–21 (2010).
31	MA Sheraz, Sofia Ahmed, Iqbal Ahmad ,	Photodegradation and photostabilization of ascorbic acid	Int. J. Chem. Anal. Sci. 1 (4), 68–70 (2010).
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	Kiran Qadeer, Faiyaz HM Vaid	in pharmaceutical preparations.	
32	Sofia Ahmed, MA Sheraz, Kefi Iqbal, Iqbal Ahmad	Surgical trends in the treatment of Parkinson's disease and their outcome	J. Med. Sci. 3 (3), 142-152 (2010).
33	Iqbal Ahmad, Sofia Ahmed, MA Sheraz, Kefi Iqbal, Faiyaz HM Vaid	Pharmacological aspects of borates	Int. J. Med. Biol. Front. 16 (9/10), 977–1003 (2010).
34	Tania Mirza, SH Kazi, Iqbal Ahmad	Physiological functions, role in metabolism and clinical analysis of riboflavin	J. Baqai Med. Univ., 13(1) , 21-26,(2010).
35	Iqbal Ahmad , Kefi Iqbal, Sofia Ahmed, MA Sheraz	Applications of laser flash photolysis, spectroscopy and electron microscopy in photopolymerization and development of glass ionomer dental cements	Int. J. Clin. Dent. 4 (1), 57–73 (2011).
36	MA Sheraz, Sofia Ahmed, Iqbal Ahmad , Faiyaz HM Vaid, Kefi Iqbal	Formulation and stability of ascorbic acid in topical preparations	Syst. Rev. Pharm. 2 (2), 86–90 (2011).
37	Tania Mirza, Kiran Qadeer, Iqbal Ahmad	Biochemical functions and clinical/pharmaceutical analysis of nicotinamide	J. Baqai Med. Univ. 13(2) , 35-39 (2012)
38	Adeel Arsalan, Arif Sabah, Iqbal Ahmad, SBS Naqvi, SI Ali	The role of antiseptics in surgery	J. Baqai Med. Univ. 13(2) , 47-54 (2012)
39	Tania Mirza, Kiran Qadeer, Iqbal Ahmad and Riaz H Shaikh	Biochemical functions and pharmaceutical and clinical analysis of nicotinamide	J. Baqai Med. Univ. 13(2) , 41-45 (2012)
40	Adeel Arsalan, Arif Sabah, Iqbal Ahmad	Liposomes as drug delivery systems	Pak. J. Pharm. Sci. (2014), submitted
41	Tania Mirza, Kiran	Clinical and pharmaceutical	J. Baqai Med. Univ. (2014),
42	Qadeer, Iqbal Ahmad Iqbal Ahmad, Tania Mirza, Kiran Qadeer, Urooj Nazim, Faiyaz HM Vaid	analysis of vitamin A Vitamin B ₆ : Deficiency diseases and methods of analysis	submitted <i>Pak. J. Pharm. Sci.</i> , (2014) in press
43	Kiran Qadeer, Tania Mirza, Iqbal Ahmad	Developments in the clinical use of asprin	Baqai J. Health Sci. (2014), in press
44	Arif Sabah, Adeel Arsalan, Iqbal Ahmad	Packaging of solid dosage form	Baqai J. Health Sci. (2014), in press

INTE	INTERNATIONAL RESEARCH ARTICLES / PRESENTATIONS			
No.	Authors	Title	Journal / Presentation	
45	Iqbal Ahmad	Thermal and photochemical	Drug Purity Research Symposium,	
		degradation of riboflavin and	London,	
		related substances (Abstract).	26 th June, 1968	
46	K Usman Ghani,	Photodegradation of	Proc. CENTO Panel Meeting on	
	Iqbal Ahmad , SMS	ephiderine hydrochloride.	Natural Drugs and Their Commercial	
	Zoha	-	Exploitation, Peshawar, 60-63 (1972).	
47	Iqbal Ahmad , AE	Multicomponent	Abstr: 35 th International Congress of	
	Beg, SMS Zoha	spectrophotometric assay of	Pharmaceutical Sciences, Dublin, 20	
		riboflavin and degradation	(1975)	
		product in thermolysed		
		solutions.		
48	Iqbal Ahmad	Statistical methods in the	International Congress of Mathmatical	
		design of pharmaceutical	Sciences, Karachi, 14-20 July, 1975	
		formulations (Abstract).		
49	K Usman Ghani, Q	Studies on the spogenin	Lloyida (Currently J. Nat. Prod.), 4,	
	Najum Saqib, Iqbal	constituents of Androsace	281-282, (1978)	
	Ahmad, V Ahmad	rotundifolia,		
50	Iqbal Ahmad , MA	Spectrophotometric	<i>Die Pharmazie</i> , 34, 402-403, (1979)	
	Khan, K Usman	determination of hydrolytic		
	Ghani, T Salam	products of Resrpine		
51	Iqbal Ahmed,	The alkaline hydrolysis of	J. Org. Chem., 45 , 731-733 (1980)	
	HDC Rapson, PF	7,8-dimethyl-10-		
	Heelis, GO Phillipis	formylmethylisoalloxazine -		
		A kinetic study		
52	PF Heelis, GO	The photodegradation of	Photobiochem. Photobiophys., 1, 125-	
	Phillips, Iqbal	formylmethylflavin- A	130 (1980).	
	Ahmad, HDC	continuous and flash		
50	Rapson	photolysis study	D: N	
53	Tauqir Ahmad,	Degradation studies on	<i>Die Pharmazie</i> , 36 , 619-621 (1981).	
	Iqbal Ahmad	sulphacetamide eye drops:		
<i>-</i> 1	T.J. J. Al J	Part-I	DI . I DI . I . I . 34 441 445	
54	Iqbal Ahmad,	Flavin triplet quenching and	Photochem. Photobiol., 34 , 441-445	
	Gordon Tollin	semiquinone formation by	(1981).	
		aliphatic α-substituted acetic		
		acids. Intermediates in		
		flavin-sensitised		
55	Iahal Ahmad	photodecarboxylation	Biochamiata, 20, 5025, 5029 (1001)	
55	Iqbal Ahmad , Gordon Tollin	Solvent effects on flavin electron transfer reactions	<i>Biochemistry</i> , 20 , 5925-5928 (1981)	
56	Iqbal Ahmad,	Laser flash photolysis studies	Proc. Natl. Acad. Sci., USA, 68, 6724-	
50	Michael A.	on electron transfer between	6728 (1981).	
	Cussanovich,	semiquinone and fully	0/20 (1/01).	
	Gordon Tollin	reduced free flavins and		
	GOLGOII TOITIII	reduced free fravills allu		

57	Iqbal Ahmad, Micheal A. Cussanovich, Gordon Tollin	horse heart cytochrome-c Laser flash photolysis studies on electron transfer between semiquinone and fully reduced free flavins and cytochrome-c oxidase complex.	Biochemistry, 21 , 3122-3128 (1982).
58	Nasima Jamil, Hasan A Rizvi, Iqbal Ahmad , AE Beg	Studies on the photostability of reserpine in parenteral solutions.	Pharmazie, 38 , 467-469 (1983).
59	Tauqir Ahmad, Iqbal Ahmad	The effect of antioxidants on the photolysis of aqueous sulphacetamide and sulfanilamide solutions.	Pol. J. Pharmacol. Pharm., 35 , 69-74 (1983)
60	S Navarantum, EJ Land, BJ Parsons, Iqbal Ahmad , GO Phillips	Primary processes in the laser flash photolysis and pulse radiolysis of 1-ephedrine	Photochem. Photobiol., 38 , 153-158 (1983)
61	Tasneem Ahmad and Iqbal Ahmad	Modern techniques in pharmaceutical quality control (Abstract).	International Seminar on Policies Management and Quality Assurance of Pharmaceuticals, Karachi, 21-25 April, 1985
62	Iqbal Ahmad	Analytical problems in pharmaceutical industry (Abstract).	UNESCO-UGC Regional Workshop (Bangladesh, India and Pakistan) on University Industry Interaction in Chemistry, Islamabad, 7-9 October, 1985.
63	Iqbal Ahmad	Stability of drugs in relation to extreme climatic conditions of temperature, humidity and light (Abstract)	Seventh Pharmaceutical conference of PPA, Islamabad, 28-30 March, 1986
64	Iqbal Ahmad , MA Khan, S Wasif Azeem	Nitric acid induced oxidation of reserpine in organic solvents	Die Pharmazie, 44 , 612-613 (1989).
65	Iqbal Ahmad , HDC Rapson	Multicomponent spectrophotometric assay of riboflavin and photoproducts	J. Pharm. Biomed. Anal., 8 , 217-223 (1990).
66	Iqbal Ahmad, Wahid Hussain	Photolysis of cyanocobalamin in aqueous solution (Abstract)	First International Conference of Pharmaceutical Sciences, Karachi, 18- 21 January, 1992
67	PJ Booth, B Crystall, Iqbal Ahmad , J Barber, G Porter, DR Klug	Observation of multiple radical pair states in photosystem 2 reaction centers	Biochemistry, 30 , 7573-7586 (1991).

68	Iqbal Ahmad , Wahid Hussain, AA Faridi	Photolysis of cyanocobalamin in aqueous solution	J. Pharm. Biomed. Anal., 10 , 9-15 (1992).
69	Iqbal Ahmad, Wahid Hussain	Riboflavin induced photolysis of cyanocobalamin in aqueous solutions (Abstract)	Fourteenth Asian Congress of Pharmaceutical Sciences, Lahore, 5-9 November, 1992
70	Iqbal Ahmad , LB Giorgi, J Barber, G Porter,s DR Klug,	Redox potentials of cytochrome b-559 in D1/D2/cytochrome b-559 reaction centres of photosystem 2	Biochim. Biophys. Acta., 1143 , 239-242 (1993).
71	Waseemuddin Ahmed, K Usmanghani, Iqbal Ahmad , V Ahmad, Toshio Miyase	Isolation and characterization of saponins from castansopermum- australe Cunn. & Fraser	Chem. Pharm. Bull. (Japan) 47 , 314-317 (1994).
72	M. Jamil Akhtar, MA Khan, Iqbal Ahmad	High performance liquid chromatographic determination of folic acid and its photodegradation products in the presence of riboflavin	J. Pharm. Biomed. Anal. 16 , 95-99 (1997).
73	M. Jamil Akhtar, MA Khan, Iqbal Ahmad	Photodegradation of folic acid in aqueous solution	J. Pharm. Biomed. Anal., 19 , 269-275 (1999)
74	M. Jamil Akhtar, MA Khan, Iqbal Ahmad	Effect of riboflavin on the photolysis of folic acid in aqueous solution	J. Pharm. Biomed. Anal., 23 , 1039-1044 (2000).
75	Iqbal Ahmad	Effect of nicotinamide on the Photolysis of Cyanocobalamin in Aqueous Solution (Abstract)	1st International Conference of Faculty of Pharmacy and Health Sciences, Ajman University of Science and Technology, Ajman, UAE, 19-21 October, 2002
76	M. Jamil Akhtar, MA Khan, Iqbal Ahmad	Identification of photoproducts of folic acid and its degradation pathways in aqueous solution	J. Pharm. Biomed. Anal., 31 , 579-588 (2003).
77	Iqbal Ahmad , IA Ansari, T Ismail	Effect of nicotinamide on photolysis of cyanocobalamin in aqueous solution	J. Pharm. Biomed. Anal., 31 , 369-374 (2003).
78	Iqbal Ahmad , Q Fasihullah, A Noor, IAAnsari, QNM Ali	Photolysis of riboflavin in aqueous Solution: A kinetic study	Int. J. Pharm., 280 , 199-208 (2004).

79	Iqbal Ahmad, Q Fasihullah, Faiyaz HM Vaid	A study of simultaneous photolysis and photoaddition reactions of riboflavin in aqueous solution	J. Photochem. Photobiol. B:Biol., 75, 13-20 (2004).
80	Iqbal Ahmad	Stability-indicating spectrophotometric methods and their applications to degradation studies of vitamins/other drugs and mixture analysis (Abstract).	Dubai Pharmacy College Seminars, 2nd Semester 2003-2004, 5th June 2004.
81	Iqbal Ahmad , Q Fasihullah, Faiyaz HM Vaid	Effect of phosphate buffer on photodegradation reactions of riboflavin in aqueous solution	J. Photochem. Photobiol. B:Biol., 78 , 229-234 (2005).
82	Iqbal Ahmad, Q Fasihullah, Faiyaz HM Vaid	Effect of light intensity and wavelengths on photodegradation reactions of riboflavin in aqueous solution	J. Photochem. Photobiol. B:Biol., 82 , 21-27 (2006)
83	Iqbal Ahmad , Q Fasihullah, Faiyaz HM Vaid	Photolysis of Formylmethylflavin in Aqueous and Organic Solvents	Photochem. Photobiol. Sci., 5 , 680-685 (2006).
84	B. M. El-Haj, A. M. Al-Amri, H. S. Ali, Iqbal Ahmad	GC-MS detection and characterization of thebaine as a urinary marker of opium use	Forensic Toxicol. 25 , 62–68 (2007).
85	Iqbal Ahmad , S. Ahmed, MA Sheraz and Faiyaz HM Vaid	Effect of borate buffer on the photolysis of riboflavin in aqueous solution	J. Photochem. Photobiol. B: Biol. 93 , 82-87 (2008).
86	Iqbal Ahmad, Sofia Ahmed, MA Sheraz, M Aminuddin, Faiyaz HM Vaid	Effect of caffeine complexation on the photolysis of riboflavin in aqueous solution: A kinetic study	Chem. Pharm. Bull. (Japan) 57 (12), 1363–1370 (2009).
87	Iqbal Ahmad, MA Sheraz, Riaz Hussain Shaikh, Sofia Ahmed, Faiyaz HM Vaid	Photostability of ascorbic acid in aqueous and organic solvents	J. Pharm. Res. 3 (6), 1237-1239 (2010).
88	Iqbal Ahmad, Sofia Ahmed, Muhammad Ali Sheraz, Faiyaz H.M. Vaid and	Effect of Divalent Ions on Photodegradation Kinetics and Pathways of Riboflavin in Aqueous Solution	Int. J. Pharm. 390 (2), 174–182 (2010).

89	Izhar A. Ansari. Sofia Ahmed, MA Sheraz. M Aminuddin, Iqbal Ahmad , Karamat Mahmood, Kefi	Analysis of amino acids by paper chromatography	Int. J. Chem. Ana. Sci. 1 (8), 174–176 (2010).
90	Iqbal M Aminuddin, Sofia Ahmed, MA Sheraz, Iqbal Ahmad, Karamat Mahmood, J.N. Miller	Fluorescent Labeling of Human Albumin using the New Aromatic Dialdehyde Labels and the Study of Inner Filter Effect	J. Pharm. Bioallied Sci. 2 (4), 369–371 (2010).
91	Iqbal Ahmad, MA Sheraz, Sofia Ahmed, Sadia Hafeez Kazi, Tania Mirza, M Aminuddin	Stabilizing effect of citrate buffer on the photolysis of riboflavin in aqueous solution	Results Pharma Sci. 1 (1), 11–15 (2011).
92	Iqbal Ahmad, MA Sheraz, Sofia Ahmed, Riaz Hussain Shaikh, Faiyaz HM Vaid, SR Khattak, Shakeel A Ansari	Photostability and interaction of ascorbic Acid in cream formulations	AAPS PharmSciTech 12 (3), 917–923 (2011).
93	SR Khattak, Iqbal Ahmad , K Usmanghani, MS Qazi	In vitro evaluation of betamethasone esters for phototoxic potential	Drug Chem. Toxicol., 1–5 (2011).
94	Muhammad Aminuddin, Urooj Nazim, Iqbal Ahmad	Photo- and thermal degradation of piroxicam in aqueous solution	Ind. J. Pharm. Sci. 73(4) , 387-391 (2011).
95	Iqbal Ahmad, MA Sheraz, Sofia Ahmed, Raheela Bano, Faiyaz HM Vaid	Photochemical interaction of ascorbic acid with riboflavin, nicotinamide and alpha- tocopherol in cream formulations	Int. J. Cosmet. Sci., 34 , 123-131 (2012).
96	Iqbal Ahmad, Muhammad Ali Sheraz, Sofia Ahmed, Riaz Hussain Shaikh and Faiyaz HM Vaid	Photostabilization of Ascorbic Acid with Citric Acid, Tartaric Acid and Boric Acid in Cream Formulations	Int. J. Cosmet. Sci., 34, 240-245 (2012).

97	Iqbal Ahmad, Ambreen Hafeez, Naheed Akhter, Faiyaz HM Vaid, Kiran Qadeer	Effect of riboflavin on the photolysis of cyanocobalamin in aqueous solution	The Open Anal. Chem. J., 6 , 22-27 (2012).
98	SR Khattak, Iqbal Ahmad, Dilnawaz Shaikh, K Usmanghani	Kinetics of thermal degradation of betamethasone valerate and betamethasone dipropionate in different media.	Ind. J. Pharm. Sci. 74 (2), 133-140 (2012).
99	Iqbal Ahmad, Tania Mirza, Kefi Iqbal, Sofia Ahmed, MA Sheraz, Faiyaz HM Vaid	Effect of pH, buffer and viscosity on the photolysis of formylmethylflavin: A kinetic study	Aust. J. Chem. 65 (5), 579-585 (2013).
100	S.R.Khatak, D. Sheikh, Iqbal Ahmad , K.Usman Ghani, M.A.Sheraz, S.Ahmad.	Photodegradation and stabilization of betamethasone-17 valerate in aqueous/organic solvents and topical formulations	AAPS PharmSciTech.14 (1), 177-182, (2013).
101	Iqbal Ahmad, Raheela Bano, MA Sheraz, Sofia Ahmed, SA Ansari	Photodegradation of levofloxacin in aqueous and organic solvents: A kinetic study	Acta Pharm. 63 (2), 221–227 (2013).
102	Iqbal Ahmad, Kefi Iqbal, MA Sheraz, Sofia Ahmed, Tania Mirza, Sadia Hafeez Kazi, M. Aminuddin	Photoinitiated polymerization of 2-hydroxyethyl methacrylate by riboflavin/triethanolamine in aqueous solution: A kinetic study	ISRN Pharmaceutics 2013, 958712 (2013).
103	Iqbal Ahmad, Kiran Qadeer, Kefi Iqbal, Sofia Ahmed, Muhammad Ali Sheraz, Syed Abid Ali, Tania Mirza, Ambreen Hafeez	Correction for Irrelevant Absorption in Multicomponent Spectrophotometric Assay of Riboflavin, Formylmethylflavin and Degradation Products: Kinetic Applications.	AAPS PharmSciTech, 14 (3), 1101–1107 (2013).
105	Iqbal Ahmad, Kefi Iqbal, MA Sheraz, Sofia Ahmed, S. Abid Ali, Sadia Hafeez Kazi, Tania Mirza, Raheela Bano, M Aminuddin	Solvent Effect on Photoinitiator Reactivity in the Polymerization of 2- Hydroxyethyl Methacrylate	Adv Phys Chem. 2013, 838402 (2013).

104	Muhammad Ali Sheraz, Sadia Hafeez Kazi, Sofia Ahmed, Tania Mirza, Iqbal Ahmad , Maxim P.	Effect of Phosphate Buffer on the Complexation and Photochemical Interaction of Riboflavin and Caffeine in Aqueous Solution: A Kinetic Study.	J Photochem Photobiol. A: Chem. 273, 17–22 (2014).
106	Evstigneev Muhammad Ali Sheraz, Sadia Hafeez Kazi, Sofia Ahmed, Kiran Qadeer, Marium Fatima Khan, Iqbal Ahmad	Multicomponent Spectrometric Analysis of Riboflavin and Photoproducts and their Applications in Kinetic Studies.	Central European Journal of Chemistry, 12(6), 635-642 (2014).
107	Muhammad Ali Sheraz, Sadia Hafeez Kazi, Sofia Ahmed, Zubair Anwar, Iqbal Ahmad	Photo, Thermal and Chemical Degradation of Riboflavin.	Beilstein Journal of Organic Chemistry, 10, 1999-2012 (2014).
108	Iqbal Ahmad, Kiran Qadeer, Saima Zahid, Muhammad Ali Sheraz, Tehmina Ismail, Waqar Hussain, Izhar Ahmad Ansari	Effect of Ascorbic Acid on the Degradation of Cyanocobalamin and Hydroxocobalamin in Aqueous Solution: A Kinetic Study	AAPS PharmSci Tech, 15 (5), 1324-1333 (2014).
109	Iqbal Ahmad, Raheela Bano, Syed Ghulam Musharraf, Sofia Ahmed, Muhammad Ali Sheraz, Qamar ul Arfeen, Muhammad Salman Bhatti, Zufi Shad	Photodegradation of Moxifloxacin in Aqueous and Organic Solvents: A Kinetic Study	AAPS PharmSci Tech, 15 (6), 1588–1597 (2014)
110	Iqbal Ahmad, Raheela Bano, Syed Ghulam Musharraf, Muhammad Ali Sheraz, Sofia Ahmed, Hajra Tahir, Qamar ul Arfeen, Muhammad Salman Bhatti, Zufi	Photodegradation of Norfloxacin in Aqueous and Organic Solvents: A Kinetic Study.	Journal of Photochemistry and Photobiology A: Chemistry, 302, 1–10 (2015).

111	Shad, Syed Fazal Hussain. Iqbal Ahmad, Syed Haider Abbas, Zubair Anwar, Muhammad Ali Sheraz, Sofia Ahmed, Adeel Arsalan, Raheela Bano.	Stability-Indicating Photochemical Method for the Assay of Riboflavin: Lumichrome Method.	Journal of Chemistry, 2015, 256087 (2015).
112	Muhammad Ali Sheraz, Marium Fatima Khan, Sofia Ahmed, Sadia Hafeez Kazi, Iqbal Ahmad .	Stability and Stabilization of Ascorbic Acid: A Review.	Household and Personal Care Today, 10 (3), 22–25 (2015).
113	Iqbal Ahmad, Adeel Arsalan, Syed Abid Ali, Muhammad Ali Sheraz, Sofia Ahmed, Zubair Anwar, Iqra Munir, Muhammad Raza Shah.	Formulation and Stabilization of Riboflavin in Liposomal Preparations.	Journal of Photochemistry and Photobiology B: Biology, 153, 358– 366 (2015)
114	Iqbal Ahmad, Muhammad Ali Sheraz, Sofia Ahmed, Sadia Hafeez Kazi, Marium Fatima Khan, Faiyaz H.M. Vaid.	Effect of Boric Acid on the Photostabilization of Ascorbic Acid in Creams Containing Different Humectants and Emulsifiers.	Latin American Journal of Pharmacy, 34 (10), 2021–2026 (2015)
115	Iqbal Ahmad, Zubair Anwar, Sofia Ahmed, Muhammad Ali Sheraz, Raheela Bano, Ambreen Hafeez.	Solvent Effect on the Photolysis of Riboflavin.	AAPS PharmSciTech, 16 (5), 1122–1128 (2015)
116	Sofia Ahmed, Nafeesa Mustaan, Muhammad Ali Sheraz, Syeda	Validation of a UV Spectrometric Method for the Assay of Tolfenamic Acid in Organic Solvents.	Journal of Pharmaceutics, 2015, 216249 (2015).

Ayesha Ahmed Un Nabi, **Iqbal Ahmad**.

117 **Iqbal Ahmad**, Sofia Ahmed, Muhammad Ali Sheraz, Zubair Anwar, Kiran Qadeer, Adnan Noor, Maxim P.

Evstigneev.

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NATIONAL RESEARCH ARTICLES / PRESENTATIONS

		I AKTICLES / I KESENTATIO	
110	Iqbal Ahmad , AE	Studies on degradation of	J. Sci. Univ. Kar., 1 (2), 38-43
	Beg, SMS Zoha	riboflavin and related	(1972).
		compounds-I: Thermal	
		degradation of riboflavin in	
		alkaline solution.	
111	Iqbal Ahmad, N	Statistical evaluation of assay	J. Sci. Univ. Kar., 1 (2), 63-68
	Jamil, SMS Zoha	procedures for ascorbic acid in	(1972).
		tablet formulations	(/ - /)
112	T Ahmad, Iqbal	Studies on stability of sulpha	J. Sci. Univ. Kar., 1 (2), 33-37
	Ahmad, SMS	drugs- I: Identification of	(1972).
	Zoha	photodegradation products of	(15/2).
	Zona	sulphacetamide	
113	Iqbal Ahmad , AE	Studies on degradation of	J. Sci. Univ. Kar., 2 (1), 84-91
115	Beg, SMS Zoha	riboflavin and related	(1973).
	D05 , 51115 Z 011 a	compounds- II:	(1575).
		multicomponent spectro-	
		photometric determination of	
		thermal degradation products	
		of riboflavin	
114	Iqbal Ahmad, N	Statistical evaluation of	J. Sci. Univ. Kar., 2 (2), 269-287
117	Jamil and SMS	antioxidants used in the	(1973).
	Zoha	manufacture of ascorbic acid	(1973).
	Zona	tablets	
115	T Ahmad, Iqbal	Studies on stability of sulpha	J. Sci. Univ. Kar., 2 (2), 289-295
113	Ahmad, SMS	drugs- II: Photolysis of	(1973).
	Zoha	sulphanilamide in aqueous	(1973).
	Zona	solution	
116	T Ahmad, Iqbal	A study of pregnandiol and	J. Sci. Univ. Kar., 2 (1), 58-61
110		, , ,	
	Ahmad, S Anwar	oestriol in pregnancy urine	(1973).
117	and G Chisti	Multipampapant	Drog Coord Armyol Hoolds
117	Iqbal Ahmad , AE	Multicomponent	Proc. Second Annual Health
	Beg	spectrophotometric	Symposium, Islamabad, 84-85
		determination of	(1974).

118	Iqbal Ahmad , T Ahmad	pharmaceutical compounds Chromatographic Assay of Sulphacetamide and Photodegradation Products	Proc. Second Annual Health Symposium, Islamabad, 86-87 (1974).
119	K Usmanghani, Iqbal Ahmad , SMS Zoha	Studies on quantitative determination and photodegradation of ephedrine.	Pak. J. Sci. Ind. Res., 18, 229-230 (1975).
120	Iqbal Ahmad	Role of pharmacist in research and development	Seminar "Role of Pharmacist in Health Profession" Karachi, 25-28 (1976)
121	K Usmanghani, Iqbal Ahmad , SMS Zoha	Photodegradation of ephedrine in aqueous solution.	Kar. Univ. J. Sci., 5 (1 & 2), 65–69 (1977).
122	K Usmanghani, Iqbal Ahmad , Q. Nawab Manzar Ali, S. Nasimur Rahman	Determination of pyridoxine HCl in multivitamin preparations	Pak. J. Sci. Ind. Res., 23, 207-210 (1980).
123	Nasima Jamil, Iqbal Ahmad , AE Beg	Effect of UV and tungsten light on physical characteristics of ascorbic acid tablets - commercial samples-III	Kar. Univ. J. Sci., 8, 117-126 (1980).
124	Nasima Jamil, Iqbal Ahmad , AE Beg	The effect of UV and tungsten light on physical characteristics of ascorbic acid tablets - laboratory prepared samples-IV	Kar. Univ. J. Sci., 8, 77-87 (1980).
125	Nasima Jamil, Iqbal Ahmad , Surrayia Nusrat	Release of salicylic acid from ointment and cream bases	Pak. J. Sci. Ind. Res., 25 , 198-200 (1982).
126	Iqbal Ahmad , Syed Abid Sayeed	A study of the evaluation of commercial and laboratory prepared tooth paste preparations	J. Pharm. Univ. Kar., 1 (1), 31-37 (1982).
127	Nasima Jamil, Iqbal Ahmad , Surraiya Nusrat	Evaluation of containers for creams and ointments	J. Pharm. Univ. Kar., 1 (2), 97-101 (1983).
128	Surraya Nusrat, Nasima Jamil, Iqbal Ahmad	Effect of pH on the diffusion of salicylic acid	Tehqique, 1 (2), 53-57 (1983).
129	Nasima Jamil, Iqbal Ahmad , Ali Akbar Sial	Statistical Methods Applied to Quality Control of Reserpine Tablets	J. Sci. Univ. Kar., 11 (1), 53-59 (1983).
130	Nasima Jamil, Iqbal Ahmad, AE	Tests on physical characteristics of commercial	J. Pharm. Univ. Pb., 4, 41-50 (1983).

	Beg	ascorbic acid tablets stored at various temperatures and humidities	
131	Nasima Jamil, Iqbal Ahmad and Anwar Ejaz Beg	Tests on physical characteristics of ascorbic acid tablets stored at various temperatures and humidities in the presence of antioxidants	J. Pharm.Univ.Pb. 4, 63–72 (1983).
132	Nasima Jamil, Iqbal Ahmad	Moisture content of ascorbic acid tablets Stored at various temperatures and humidities	Pak. J. Sci. Ind. Res., 27 , 252 (1984).
133	Nasima Jamil, Iqbal Ahmad , Ali Akbar Sial	Photostability of Reserpine Tablets on UV Irradiation	J. Pharm. Kar. Univ., 3 (1), 9-13 (1984).
134	Nasima Jamil, Iqbal Ahmad	Stability of effervescent tablets of ascorbic acid	<i>Tehqique</i> , 3 (1), 7–14 (1985).
135	Nasima Jamil, Iqbal Ahmad	Statistical evaluation of the assay procedures for reserpine in aqueous solution	<i>Pharm. Univ. Kar.</i> 4 (2), 101-104 (1986).
136	Tauqir Ahmad, Iqbal Ahmad	Isolation of azobenzene-4, 4-disulphonamide from commercial sulphacetamide sodium eye drop preparations	J. Pharm. Kar. Univ., 5 (1), 61-63 (1986).
137	Tauqir Ahmad, Iqbal Ahmad	Effect of pH on the photostability of sulphacetamide eye drops solutions	J. Pharm. Sci. Kar. Univ., 1 (1), 1–4 (1988).
138	Tauqir Ahmad, Iqbal Ahmad	Stability-indicating assay of sulphacetamide in thermally degraded solutions	Pak. J. Pharm. Sci., 1 (2), 83-85 (1988).
139	Tauqir Ahmad, Iqbal Ahmad	Photo-oxidation of sulphanilamide to azo and azoxy compounds	Pak. J. Pharm. Sci., 2 (1), 1-5 (1989).
140	Tauqir Ahmad, Iqbal Ahmad	Photo-oxidation of sulphanilamide to blue product	Pak. J. Pharm. Sci., 2, 13–15 (1989).
141	Tauqir Ahmad, Iqbal Ahmad	Multicomponent spectrophotometric assay of sulphacetamide and photodegradation products	Pak. J. Pharm. Sci. 3 (1), 29-39 (1990).
142	Iqbal Ahmad , Q Fasihullah	Effect of solvent on UV-vis Spectra of Formylmethyl- flavin and Photoproducts	Pak. J. Pharm. Sci., 3 (1), 7-11 (1990).
143	M. Ataullah Khan, S. Wasif Azeem, Iqbal Ahmad	Oxidation of yohimbine alkaloids in organic solvents	Proc. Natl. Chem. Conf. II, 249-254 (1990).

144	Iqbal Ahmad , Q. Fasihullah	Spectrophotometric assay of formylmethylflavin and photoproduct- lumichrome in organic solvents	Pak. J. Pharm. Sci., 4 (1), 21-26 (1991).
145	Iqbal Ahmad , Kamran A. Chishti	Evaluation of preservative in eye drop preparations	Pak. J. Pharm. Sci., 5 (1), 25-36 (1992).
146	Iqbal Ahmad Wahid Hussain	Multicomponent spectrophotometric assay of cyanocobalamin, hydroxocobalamin and riboflavin	Pak. J. Pharm. Sci., 5 (2), 121-127 (1992).
147	Ozra Ahsan, A.R. Memon, Iqbal Ahmad	A study of comparative blood absorption of vitamin B ₁ from different B-complex preparations	Pak. J. Pharm. Sci., 5 (2), 147-154 (1992).
148	Iqbal Ahmad , Wahid Hussain	Stability of cyanocobalamin solutions in sunlight and artificial light	Pak. J. Pharm. Sci., 6 (1), 23-28 (1993).
149	Iqbal Ahmad , Wahid Hussain	Stability of cyanocobalamin in parenteral preparations	Pak. J. Pharm. Sci., 6 (1), 53-58 (1993).
150	Tauqir Ahmad, Iqbal Ahmad, Arshad Majeed	A study of the photostability of ergocalciferol (vitamin D ₂) in organic solvents ergocalciferol	Pak. J. Pharm. Sci., 6 (2), 1-7 (1993).
151	Iqbal Ahmad , R.H. Shaikh	Stability of paracetamol in packaged tablet formulations	Pak. J. Pharm. Sci., 6 (2), 37-45 (1993).
152	Iqbal Ahmad , RH Shaikh	Prediction of shelf-Life of packaged paracetamol tablet formulations	Pak. J. Pharmacol., 11 (1), 53-58 (1994).
153	Iqbal Ahmad , RH Shaikh	Effect of temperature and humidity on the disintegration Time of packaged paracetamol formulations	Pak. J. Pharm. Sci., 7 (1), 1-7 (1994).
154	Iqbal Ahmad , RH Shaikh	Effect of temperature and humidity on hardness and friability of packaged paracetamol formulations	Pak. J. Pharm. Sci., 7 (2), 69-78 (1994).
155	Hassan Adil, Dilnawaz Shaikh, Iqbal Ahmad, M Rafi Sheikh, Ghulam Ali	Seven day viable analysis of some opthelmic preparations with different concentrations of benzalkonium chloride	Pak. J. Pharm. Sci. 8 (2), 1-10 (1995)
156	Iqbal Ahmad , RH Shaikh	Effect of moisture on the stability of packaged paracetamol formulations	Pak. J. Pharm. Sci., 16 (2),13–16 (2003).

157	Izhar A Ansari, Faiyaz HM Vaid, Iqbal Ahmad	Chromatographic study of photolysis of aqueous cyanocobalamin solutions in presence of vitamins B and C	Pak. J. Pharm. Sci., 17 (1), 19-24 (2004).
158	A Shadmani, I Azhar, F Mazhar, M.M. Hassan, SW Ahmad, Iqbal Ahmad , K Usmanghani and S Shamim	Kinetics studies on the extraction of Zingiber officinale	Pak. J. Pharm. Sci., 17 (1), 47-54 (2004).
159	Izhar A Ansari, Faiyaz HM Vaid, Iqbal Ahmads	Spectral study of photolysis of aqueous cyanocobalamin solutions in presence of vitamins B and C	Pak. J. Pharm. Sci., 17 (2), 93-99 (2004).
160	S. Wasif Azeem, M. Ataullah Khan, Iqbal Ahmad	Characterisation of oxidation products of Rauwolfia alkaloids	Pak. J. Pharm. Sci., 18 (1), 33-35 (2005).
161	Faiyaz HM Vaid, Riaz H. Shaikh, Izhar A. Ansari, Iqbal Ahmad	Spectral study of the photolysis of aqueous thiamine hydrochloride and ascorbic acid solutions in the presence and absence of riboflavin	J. Chem. Soc. Pak., 27 , 227-232 (2005).
162	Sobhi A Said, Saeed A Khan, Iqbal Ahmad, Hayam S Ali	Chemical composition of Egyptian and UAE Propolis	Pak. J. Pharm. Sci., 19 (1), 58-61 (2006).
163	Saeed A Khan, Iqbal Ahmad, Siddiq Mohajirs	Evaluation of mineral contents of some edible medicinal plants	Pak. J. Pharm. Sci., 19 (2), 148-152 (2006)
164	Faiyaz HM Vaid, Riaz H Shaikh, Izhar A Ansari, Iqbal Ahmad	Chromatographic study of the photolysis of aqueous thiamine hydrochloride and ascorbic acid solutions in the presence and absence of riboflavin	J. Chem. Soc. Pak., 28 (5), 461-464 (2006).
165	Iqbal Ahmad	Ethical practices in pharmaceutical marketing	Symposium "Marketing of Pharmaceutical Products Assessing the Moral and Ethical Issues" Karachi, 17 August (2006)
166	Iqbal Ahmad	Effect of complexing agents on photodegradation of riboflavin in aqueous solution	Medical Symposium, Baqai Medical University, Karachi, 18-20 February, 2007
167	Iqbal Ahmad , Faiyaz HM Vaid	Thermal degradation of 7,8-dimethyl-10-formylmethylisoalloxazine in	J. Chem. Soc. Pak., 30 (5), 688-691 (2008).

168	Iqbal Ahmad and F.H.M. Vaid	acid solution: A kinetic study Determination of benzoic acid and salicylic acid in commercial benzoic and salicylic acids ointments by	Pak. J. Pharm. Sci. 22 (1), 18-22 (2009).
169	Kefi Iqbal, Sana Adeba Islam, Iqbal Ahmad , Maria Asmat and Mohammad	spectrophotometric method Variations in powder/liquid ratio of a restorative and luting glass ionomer cement in dental clinics	JCPSP. 19 (7), 464-465 (2009)
170	Aminuddin Iqbal Ahmad	Stability studies of drug and formulated products	Seminar "Current Trends and Future Scope of Pharmacy in Pakistan", Baqai Medical University, Karachi, 11 th May 2010
171	Iqbal Ahmad	Photodegradation of riboflavin in aqueous solution	Seminar "Research and Development Strategies in Pharmaceuticals" Hamdard University, Karachi, June 10, 2010.
172	Iqbal Ahmad	Photostability of drugs and its evaluation	Seminar "the Concept of modern pharmacy" Baqai Medical University, Karachi, 30 th November, 2011
173	Iqbal Ahmad, Kiran Qadeer, Ambreen Hafeez, Faiyaz HM Vaid	Multicomponent spectro- photometric assay of cyanocobalamin, hydroxocobalamin and ascorbic acid in aqueous solution	Pak. J. Pharm. Sci., 27 (2), 209-215 (2014)
174	Noureen Anwar, Sofia Ahmed, Sadia Hafeez Kazi, Muhammad Ali Sheraz, Iqbal Ahmad.	Sulfacetamide: An Ophthalmic Anti-Infective Agent.	Journal of Pharmacy and Pharmaceutical Sciences, 1 (2), 28– 33 (2014)
175	Marium Fatima Khan, Muhammad Ali Sheraz, Sofia Ahmed, Sadia Hafeez Kazi, Iqbal Ahmad.	Emulsion Separation, Classification and Stability Assessment.	Journal of Pharmacy and Pharmaceutical Sciences, 2 (2), 56– 62 (2014).
176	Nafeesa Mustaan, Sofia Ahmed,	Ultraviolet and Visible Spectrometry: Structural	Journal of Pharmacy and Pharmaceutical Sciences, 3 (1), 7–13

Muhammad Ali Applications and Solvent (2015).Sheraz, Syeda Effects Ayesha Ahmed un Nabi, Iqbal Ahmad. 177 Wajeeha Method of analysis of vitamin Gul, Journal of Pharmacy and K: A review Zubair Anwar. Pharmaceutical Sciences, 2015; 3 (1): Kiran Oadeer. 14-21. Shaheen Perveen, Igbal Ahmad.

PARTICIPATION IN NATIONAL/INTERNATIONAL CONGRESS / CONFERENCES / EXHIBITIONS / MEETINGS / SEMINARS / SYMPOSIA / WORKSHOPS (NO PRESENTATION)

Symposium "Interaction of Drugs with Receptors". Chelsea College of Science and Technology London, 5-8 April, 1965. 2 WHO Travelling Seminar "Quality Control of Islamabad/Lahore/**Karachi**/Tehran/ Pharmaceutical Preparations" Cairo, 9-21 March, 1970. First International Symposium "Natural Products Karachi, 5-9 February, 1984. 3 Chemistry combined with a Pak-US workshop" 4 Second International Symposium, Pakistan-U.S. Karachi, 18-25 January, 1986. Binational and UNESCO-SCAPM Workshop "Natural Products Chemistry" 5 British Photobiology Society Annual Meeting London, 18 December, 1989. Fifth AFRC Meeting on Photosynthesis London, 4-6 April, 1990. 6 International Conference on Lasers in Chemistry Trieste, Italy, 11-15 June, 1990. 7 Fifth International Symposium and Pakistan-U.S. Karachi, 5-9 January, 1992. Binational Workshop "Natural Products Chemistry" 9 WHO-Ministry of Health workshop on Pharmacy Lahore, 10-11 November, 1992. Education Arab Pharma'96 - International Exhibition & Dubai, UAE, 12-14 October, 1996. Conference for Pharmaceutical Products & Technology Dubai, UAE, 18th September, Saturn GC/MS and GC/MS/MS Seminar, Varian Instruments, USA, Organised by Gulf Scientific 1999. Corporation 12 Dubai Pharmaceuticals & Technologies Conference Dubai, UAE, 20-22 November, and Exhibition 1999. Seminar on FT-IR & FT-NMR Spectroscopy, Bruker Dubai, UAE, 9th March, 2001. Analytic, Germany, Organised by BDH Middle East

Dubai, UAE, 20-21 April, 2001.

14 Dubai World Pharmacy Meeting

15	Dubai International Pharmaceuticals & Technology Conference & Exhibition	ologies	Dubai, UAE, 9-11 March, 2002.
16 17 18	Gulf Education and Training Exhibition Symposium "Micromedex Drug Information Database" Dubai International Pharmaceuticals and Techn	nologies	Dubai, UAE, 9-12 April, 2002. Dubai Pharmacy College, Dubai, UAE, 30th October, 2002. Dubai, UAE, 1-3 March, 2003.
19	Conference & Exhibition	C	
19	Seminar and Workshop on Public Speaking,		Dubai Pharmacy College, Dubai, UAE, 4th March 2003.
20	Pharmaceutical Care Workshop		Dubai Pharmacy College, Dubai, UAE, 23rd March, 2003.
21	Glovit Symposium on "Drug-Herb Interactions Neutraceuticals"	s and	Sharjah, UAE, 13th May, 2003.
22	Workshop on LC/MS/MS in Pharmaceutical Ir Micromass MS Technologies	ndustry,	Dubai, UAE, 9th December, 2003.
23	Seminar "Total Quality Management in Educa Institutions"	ntional	Dubai, UAE, 10th March, 2004.
24	Inductively Coupled Plasma and UV-Vis-NIR Spectrophotometry Seminar, Varian Instrumen	ta IICA	Dubai, UAE, 15th March, 2004.
25	Dubai International Pharmaceuticals and Techn Conference & Exhibition		Dubai, UAE, 20 - 22 March, 2004.
26	Dubai International Pharmaceuticals and Techn Conference & Exhibition	nologies	Dubai, UAE, 21-23 March, 2005.
27	Dubai International Pharmaceuticals and Techn Conference & Exhibition	nologies	Dubai, UAE, 13-15 March, 2006.
28	Workshop "Chemistry for Life Science Profess	sionals"	University of Karachi, Karachi,
29	Seminar "The Expert Speaks",		May 5-10, 2008 Baqai Medical University, Karachi,
30	"Pharmaceutical Exhibition-2011",		November 11, 2010. Baqai Medical University, Karachi, April 21, 2011.
	GUEST SPEAKER		
1	Standardisation of Drug Substances and	Institute	of Pharmaceutical Sciences, Baqai
	Formulated Products.		University, Karachi, August 1999.
2	"	-	of Pharmacy, University of Karachi,
2			August 1999.
3	Pharmacopoeial Assay Methods - A		of Pharmaceutical Sciences, Baqai
	Comparative Study of British Pharmacopoeia and United States Pharmacopeia	Medicai	University, Karachi, August 2000.
4	"	Faculty o	of Pharmacy, University of Karachi,
•		-	August 2000.
5	Assay of Drugs and Metabolites in		of Eastern Medicine, Hamdard
	Biological Fluids	Universi	ty, Karachi, August 2001
6	"		of Pharmaceutical Sciences, Baqai
7	"		University, Karachi, August 2001 of Pharmacy, University of Karachi,

8 9 10	Pharmacy Profession and Career Opportunities for Pharmacists Pharmacopoeial Methods of Quality Control of Plant Drugs and Their Preparations	Department for Women of Eastern Karachi, A Institute of Medical U	August 2001 nt of Pharmacy, Jinnah University n, Karachi, 19 August 2002. Medicine, Hamdard University, August 2002. f Pharmaceutical Sciences, Baqai University, Karachi, August 2002.
11	Pharmacopoeial Methods of Quality Control of Plant Drugs and Their Preparations	Faculty of August 20	Pharmacy, University of Karachi, 002
12	Standardization of Drug Substances and Formulated Products	the Depart	tment of Pharmacy, Jinnah for Women, Karachi, 18 August
13	Herbal Medicines	Faculty of	Eastern Medicine, Hamdard
14	"	University Institute of	f Pharmaceutical Sciences, Baqai
1.5			University, Karachi
15	"	August 20	Pharmacy, University of Karachi in
16	Quality Control and Standardization of	_	Pakistan Limited, Karachi, 15 June
	Herbal/Plant Drugs and Their Preparations	2012	
17	Stability Studies of Drugs and Formulated Products	Ziauddin ı	university, Karachi, 2 April 2013
	THESES DIRECTED FOR HIGHER DEG	REES	
	Ph.D.		
1	Studies on the Stability of Sulphacetamide and	[Tauqir Ahmad, 1978.
	Degradation Products	4 C	
	First Ph.D. in Pharmacy From the Universit Karachi	ty of	
2	Photolysis of Flavins in Aqueous and Organic	Solvents	Qazi Fasihullah, 1988.
3	Studies on the Oxidation Reaction of Yohimba Alkaloids (In collaboration with Professor Dr.	ine	Syed Wasif Azeem, 1995.
4	Ataullah Khan) Riboflavin Sensitised Photodegradation of Asc	orbic	Riaz Hussain Shaikh, 1997.
7	Acid	oroic	Kiaz Trussain Shaikii, 1777.
5	Photolysis and Interaction of Thiamine Hydrod	chloride	Faiyaz Hussain Madani Vaid,
	with Riboflavin in Aqueous Solution		1998.
6	Degradation Kinetics and Interaction of Folic A with Riboflavin in Aqueous Solution (In collab with Professor Dr. M. Ataullah Khan)		M. Jamil Akhter, 1998.
7	A Study of Photochemical Interaction of		Masroor Ahmad, 2001.
8	Cyanocobalamin with Thiamine and Pyridoxin Photolysis and Interactions of Cyanocobalamin some B-Vitamins and Ascorbic Acid in Parent Solutions (In collaboration with Professor Qazi Nawab Manzar)	n with eral	Izhar Ahmad Ansari, 2002.

9	Phytochemical and Pharmacological Studies on <i>Castanospermum australe</i> (In collaboration with Prof. Dr. Usmanghani Khan)	Sayed Waseemudin Ahmad, 1993.
10	Effect of Complexing Agents on Photodegradation of Riboflavin in Aqueous Solution	Sofia Ahmed, 2009.
11	Photostability of Ascorbic Acid in Creams and Lotions	Muhammad Ali Sheraz, 2009.
12	Stability of Betamethasone Esters in Some Topical Dosage Forms and Its Impact on Their Biological Potential (In collaboration with Prof. Dr. Dilnawaz Shaikh and Prof. Dr. Usmanghani Khan)	Saif ur Rehman Khattak, 2010
13	Determination of Drug Impurities in Drug Substances (In collaboration with Prof. Dr. Dilnawaz Shaikh and Prof. Dr. Usmanghani Khan)	Najam us Saquib, 2010
14	Development of Glass Ionomer Cements as Dental Restorative Material	Kefi Iqbal, 2011.
15	Photochemical and Computational studies on the Intraction of Riboflavin and Cyanocobalamin (In collaboration with Prof. Dr. Naheed Akhter)	Ambreen Hafeez, 2012, Submitted
16	Clinical Efficacy of Herbal Coded Formulation Gouticin in Gouty Arthritis and in Vitro Xanthine Oxidase Inhibition (in collaboration with Prof. Dr. Usmanghani Khan)	Muhammad Akram Khan, 2012, submitted
17	Formulation and Stability of Some Fluoroquinolone Derivatives in Liquid Preparations	Raheela Bano, 2015
18	Photostabilization of Some Drugs Using Liposome- based Systems	Adeel Arsalan, in progress
19	Evaluation and Development of Packaging Material for Selected Solid and Liquid Dosage Forms	Arif Sabah, in progress
20	Effect of Ascorbic Acid and Reducing Agents on the Stability of Cyanocobalamin	Kiran Qadeer, in progress
21	Degradation of Flavins in Aqueous and Organic Solvents M. Phil.	Tania Mirza, in progress
22	A Study of the Thermal Degradation of Riboflavin in Alkaline Solution First M. Phil. in Pharmacy From the University	Anwar Ejaz Beg, 1974
	of Karachi	
23	Multicomponent Spectrophotometric Analysis of Pharmaceutical Compounds	Azhar Ali Fareedi, 1976.
24	A Study of the Photostability of Reserpine in Parenteral Solutions (In collaboration with Dr. Anwar Ejaz Beg)	Nasima Jamil, 1980.
25	A study of the Stability and Interaction of Hydroxocobalamin with Ascorbic Acid, (In collaboration with Dr. Waqar Hussain)	Tehmina Ismail, 1996

26	Solvent Effect on the Photostability of Vitamin A and Analogues (In collaboration with Professor Dr. Tauqir Ahmad)	Tasneem Mubeen, 1996.
27	Photo- and thermal degradation of piroxicam in aqueous solution.	Urooj Nazim, 2010.
28	Effect of Buffers and Solvents on the Hydrolysis of Aspirin and its Stability in Solid Formulation	Kiran Qadeer, 2010.
29	Stability Testing of the Pharmaceutical Products in Aluminium Foil as Packaging Material	Arif Sabah, 2010
30	Stabilization of Ascorbic Acid Solutions in Presence of Different Antioxidants and Additives	Zufi Shad, 2013
31 32	Phostability of Ofloxacin in Aqueous Solutions Effect of phosphate buffer on the photodegradation of riboflavin in the presence of caffeine (In collaboration with Dr. Muhammad Ali Sheraz)	Tania Mirza, 2013 Sadia Hafeez Kazi, 2013
33 34	Effect of certain buffers on the photolysis of Riboflavin Simultaneous Spectrophotometric Determination of Drugs in Various Pharmaceutical Preparations (In collaboration with Prof. Dr. M Aminuddin)	Zubair Anwar, 2013 Aqeela Khurshid, 2013
35	Stability and Interaction of Ascorbic Acid in Liquid Preparations	Adeela Khurshid, 2013
36	Stability of Ascorbic Acid In Semisolid Preparations (In collaboration with Dr. Muhammad Ali Sheraz)	Marium Fatima Khan, 2013
37	Stability of sulfacetamide sodium in ophthalmic preparations (In collaboration with Dr. Sofia Ahmed)	Noureen Anwar, 2014
38 39	The Interaction of nicotinamide with Ascorbic Acid Riboflavin Sensitized Photooxidation of Amino Acids in Parenteral Solutions	Muhammad Furqan Mobin, 2014 Waqas Bin Aftab, 2014
39	M. Pharm A Study of the Stability of Thiamine-HCl in Vitamin B-Complex Syrups	Mirza Anees Ahmad, 1972.
40	First M. Pharm. from University of Karachi. A Study of the Stability of Ascorbic Acid in Solid Formulations	Nasima Jamil, 1972.
41	A Study of the Stability of Sulphacetamide Sodium Eye-Drops	Yaqoob Noor, 1972.
42	A Study of the Thermal Degradation of Procaine HCl in Aqueous Solution	Manzar Ahmad Qureshi, 1973.
43	Diffusion of Salicylic Acid from Ointment and Cream Bases	Surraiya Nusrat, 1974.
44	A Study of the Thermal Degradation of Reserpine in Acid Solution	Muddasir Ali Khan, 1974.
45	Assay of Pyridoxine-HCl in Vitamin Preparations and its Photostability in Alkaline Solution (in collaboration with K. Usmanghani)	Syed Nasim-ur-Rehman, 1974.

Dissolution Rate Studies in Sulpaguanidine Tablets Waqar Hussain, 1974. Effect of Buffer Salts on Photolysis of Riboflavin Saleem Ahmad Tatari, 1975. **Solutions** 48 A Study of the Decomposition of Acetylsalicylic Acid Mirza Mohammad Hussain, 1975. in Solid Formulations Evaluation of Acid-Dye Method for the Assay of Tasneem Ahmad, 1975. Vitamin B₁ in Pharmaceutical Preparations Statistical Methods in Analytical Control and 50 Ali Akbar Sial, 1975. Standardisation of Reserpine Tablets Thermal Stability of Reserpine Injections Tanweer Salam, 1976. Effect of Metal Ions on Photolysis of Riboflavin Shaheen Salam, 1976. **Solutions** Formulation and Stability of Tooth Paste Preparations 53 Syed Abid Saeed, 1976. 54 A Study of the Thermal Degradation of Riboflavin in Salma Jamil, 1977. **Acid Solution** 55 Stability of Vitamin C in Liquid Preparations Salahuddin Qureshi, 1977. Photostability of Vitamin B₁₂ in Liquid Preparations Syed Izhar Hussain, 1978. 56 Effect of pH on the Photostability of Cyanocobalamin Wahid Hussain, 1987. 57 Evaluation of Preservatives in Eye Drop Preparations Kamran Ahmad Chisti, 1988. 58 Photolysis of Cyanocobalamin Solutions in Presence of S.M.A.G. Hasani, 1993. Ascorbic Acid Stabilization of Cyanocobalamin Solutions 60 Masroor Ahmad, 1993. Effect of Packaging Materials on the Stability of Riaz Hussain Shaikh, 1993. Acetaminophen (Paracetamol) in Solid Dosage Forms Effect of Nicotinamide on the Photolysis of 62 Izhar Ahmad Ansari, 1994. Cyanocobalamin Effect of Solvent on the Photolysis of Ergocalciferol Arshad Majeed 1994. (In collaboration with Dr. Taugir Ahmad) Photostability of Ciprofloxacin in Aqueous Solution (in

M.Sc. Acetylation Phenotyping of Local UAE Population using Caffine as a Probe (in collaboration with Prof. J.S. Qadry) First M.Sc. from Dubai Pharmacy College

collaboration with Dr. Sohail Hassan)

Shamma Saeed Lootah, 2002

Maria Qureshi, 2011

IMPORTANT CONTRIBUTION TO PHARMACEUTICAL AND BIOCHEMICAL RESEARCH

- 1. Laser flash photolysis studies of biochemical and pharmaceutical systems. International Publications No. 48, 50-53, 56, 63.
- **2.** Quantitative and kinetic studies of photodegradation of vitamins in aqueous and organic solvents. International Publications No. 47, 61, 64, 69, 72, 74, 75, 77- 79, 81, 83, 84, 86, 91, 95.
- **3.** Bimolecular interactions of vitamins in aqueous and organic solvents. First and subsequent studies in the last five decades. International Publications No. 68, 70, 71, 73, 82, 87, 90, 92.
- **4.** Determination of rate-pH profiles for the photolysis of vitamins in aqueous solution. First studies on these vitamins in last five decades. International Publications No. 47, 64, 69, 70, 71, 73, 74, 83, 87, 92, 95. Other publications are in progress.
- **5.** Development of stability-indicating multicomponent spectrophotometric methods for degradation studies of vitamins. International Publications No. 43, 46, 47, 61, 64, 75, 76.
- 6. Study of solvent characteristics (e.g. dielectric constant, viscosity, solvent donor-accepter number) on the kinetics of chemical reactions. International Publications No. 51, 60, 79, 83, 95. Other publications are in progress.
- 7. Determination of dual character of life times of primary radical pair in photosystem 2 reaction centres and redox potentials of Cytochrome b-559. International Publications No. 63.
- **8.** Photodegradation / photostability studies on drugs and pharmaceutical systems. International Publications No. 42, 49, 54, 55, 60, 87-89, 94, 96, 97.
- **9.** Contribution to structural studies of plant constituents. International Publication No. 45, 66, 67, 80.
- **10.** Buffer effect on photodegradation of riboflavin. International Publication No. 75, 77, 78, 81, 86, 93, 95.

CONTRIBUTION TO THE DEVELOPMENT OF EDUCATION AND RESEARCH

Professor Dr. Iqbal Ahmad obtained Ph.D. degree in Pharmaceutical Chemistry from the University of London in 1968 and joined the Department of Pharmacy, University of Karachi in 1969. He was responsible for the organization of the Department, as its first Chairman, under the newly established Faculty of Pharmacy at the University of Karachi, in 1973 and played a leading role in the development of the academic programmes of the Faculty. He initiated research activities in the Department of Pharmacy/Pharmaceutical Chemistry and supervised the first M. Pharm. (1972), first M. Phil. (1974) and first Ph. D. (1978) thesis in the Faculty of Pharmacy. He has guided 65 students for M. Sc./ M. Pharm. / M. Phil. / Ph. D. degrees.

Professor Ahmad has conducted extensive Postdoctoral Research in academic institutions and industry in the United Kingdom and United States for about five years mainly in the field of Laser Flash Photolysis Studies of Electron Transfer Reactions in Flavoproteins and Cytochromes and Photochemical Investigations of Several Drug Systems. He has the privilege of working as a Royal Society Fellow with Professor Lord G. Porter, O.M., PRS, Nobel Laureate at Imperial College London, on Redox and Kinetic Studies of Photosystem II D1/D2 Cytochrome b559 reaction Centres of Higher Plants. He has more than 150 publications to his credit including books, chapters, reviews and research articles in the field of Drug Stability, Drug Analysis, Formulation Development, Flavin and other Drugs Photochemistry and Biological Electron Transfer Reactions. He has contributed three monographs on "Oxamniquine, Amodiaquine Hydrochloride and Sulphacetamide" in the series on "Analytical Profiles of Drug Substances" (Klaus Florey/H.G. Brittain, Ed.) published by Academic Press, New York. He has also contributed chapters on the "Photochemistry of Flavins in Aqueous and Organic Solvents" in a monograph published on Flavins (E. Silva and A. M. Edwards, Eds.) by Royal Society of Chemistry, U.K and on "Borate: Toxicity, Effect on Drug Stability and Analytical Applications" in Handbook of Borates: Chemistry, Productions and Applications (M. P. Chung, Ed.) by Nova Science Publishers, New York. He has also published books on the "Analysis of Medicinal Compounds and Plant Drugs" and "Borates Chemical, Pharmaceutical and Pharmacological Aspects".

Professor Ahmad established the Department of Pharmaceutical and Medicinal Chemistry at Dubai Pharmacy College in 1995 as its first Chairman, designed the B. Pharm. curricula and organised the academic programmes of the Department. He continued active participation in the research programmes of the Department of Pharmaceutical Chemistry, University of Karachi and guided several students for Ph. D. degrees during his stay at Dubai.

Professor Ahmad has participated in several National and International Conferences / Symposia / Workshops and has presented research papers on various aspects of Physical and Analytical Pharmacy and Quality Control of Drugs. He has delivered lectures as Invited/Guest Speaker on many subjects of current interest to Pharmacy students in various Universities of Pakistan. He is a member of several National / International Learned Societies.