



CURRICULUM VITAE OF DR SARANJIT SINGH

Date of Birth 8 October 1956

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ACADEMIC QUALIFICATIONS

Ph.D., Panjab University, 1987
M. Pharm., Panjab University, Ranked First, 1979
B. Pharm., Panjab University, 1977

CURRENT POSITIONS

Dean, NIPER, S.A.S. Nagar, India
Professor and Head, Department of Pharmaceutical Analysis, NIPER, S.A.S. Nagar, India

PREVIOUS POSITIONS HELD

Coordinator at NIPER, SAS Nagar for training component under MOH&FW, GOI Capacity Building Project funded by IDA/World Bank with financial outlay of Rs. 8.8 crores, 1994-1997
Associate Professor, Department of Pharmaceutics, NIPER, S.A.S. Nagar, India, 1994-1999
Lecturer, Pharmaceutical Sciences (Pharmaceutics), UIPS, Panjab University, Chandigarh, India 1986-1994
Research Assistant in Pharmaceutics, Panjab University, Chandigarh, India 1981-1986
UGC Research Fellow, Panjab University, Chandigarh, India 1980-1981
CSIR Junior Research Fellow, Panjab University, Chandigarh, India 1980

AWARDS AND HONORS

Recipient, University Gold Medal (1979) for standing first in Master of Pharmacy examination of Panjab University, Chandigarh, India.

Professor M.L. Khorana Memorial Lecture Award, 2005 (57th Indian Pharmaceutical Congress, Hyderabad)

IDMA-APA Outstanding Analyst Award, 2002

IDMA-APA Eminent Analyst Award, 2008

Temporary Advisor, 45th Expert Committee on Specifications for Pharmaceutical Preparations, World Health Organization, Geneva (held from 18-22 October 2010)

Temporary Advisor, 44th Expert Committee on Specifications for Pharmaceutical Preparations, World Health Organization, Geneva (held from 13-17 October 2009)

Temporary Advisor, 43rd Expert Committee on Specifications for Pharmaceutical Preparations, World Health Organization, Geneva (held from 13-17 October 2008)

Temporary Advisor, 42nd Expert Committee on Specifications for Pharmaceutical Preparations, World Health Organization, Geneva (held from 15-19 October 2007)

Member, Expert Advisory Panel on the International Pharmacopoeia and Pharmaceutical Preparations, World Health Organization, Geneva

Member, Drug Information Association (DIA) Provisional Advisory Council of India (2008-2010)

Member, Scientific Committee, Indian Pharmacopoeia Commission

Chairman, IDMA-APA Working group on Development of Indian Drug Stability Test Guideline, 2001-2002

Member, IDMA-APA Expert Group for the preparation of Guidelines on Stability Testing of Biologicals

Chairman, Pharmaceutical Technology Session, 54th Indian Pharmaceutical Congress December 2002, Pune

Expert Member, Delhi Pharmaceutical Trust, New Delhi

Member, Board of Studies, Faculty of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak (2007-2009)

Outside Expert Member, Academic Council, Maharshi Dayanand University, Rohtak (2005–2007)

Outside Expert Member, Faculty of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak

Member, Research Degree Committee, Faculty of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak

Member, Board of Studies, NMIMS University, Mumbai

Member, Board of Studies, Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala (2004-2006)

Member, Board of Studies, Department of Pharmaceutical Sciences, Dr Hari Singh Gour University, Sagar (2001-2004)

Member, Research Advisory Committee, Guru Nanak Dev University, Amritsar

External Expert Member, Board of Studies, Manipal University, Manipal

Member, Advisory Council, Swami Vivekanand College of Pharmacy, Ram Nagar, Banur

Member, Editorial Advisory Board, Journal of Pharmaceutical and Biomedical Analysis (Netherlands)

Member, Editorial Board, Eurasian Journal of Analytical Chemistry (Turkey)

Member, Editorial Board, Indian Journal of Pharmaceutical Sciences

Member, Editorial Board, Asian Journal of Pharmaceutics

Member, Editorial Board, Indian Drugs

Member, Editorial Advisory Board, Pharmatimes 1999-2004, 2006-2007

Reviewer, Acta Chromatographica

Reviewer, Analytical Methods

Reviewer, Bioanalysis

Reviewer, Biopharm. and Drug Disposition
Reviewer, Chemical and Pharmaceutical Bulletin (Japan)
Reviewer, Chirality
Reviewer, Chromatographia
Reviewer, Current Drug Delivery
Reviewer, European Journal of Chemistry
Reviewer, Indian Journal of Chemistry, Section-A
Reviewer, Journal of Pharmaceutical and Biomedical Analysis, Netherlands
Reviewer, Journal of Applied Polymer Science, USA
Reviewer, Journal of Chromatographic Science
Reviewer, Journal of Chromatography A and B
Reviewer, Journal of Pharmacy and Pharmacology
Reviewer, Journal of Pharmacy & Pharmaceutical Sciences, Canada
Reviewer, Journal of Separation Science (Wiley)
Reviewer, Journal of Association of Analytical Chemists (JAOAC)
Reviewer, Journal of Scientific and Industrial Research
Reviewer, Phytochemical Analysis
Reviewer, Spectroscopy Letters
Reviewer, Talanta

PROFESSIONAL AFFILIATIONS

Life member, Association of Pharmaceutical Teachers of India (PU/LM_28)
Life Member, Indian Pharmaceutical Association
Member, IDMA Association of Pharmaceutical Analysts (IDMA-APA), Mumbai
Treasurer, Indian Pharmaceutical Association, Punjab Branch 2001-2003

TEACHING EXPERIENCE

A total of 29 years experience in teaching of graduate, post-graduate and doctoral classes.

RESEARCH ACTIVITIES

Engaged in active research for the last 30 years. The research areas of interest include:

- o Drug Stability and Degradation Chemistry
- o Development of Stability-Indicating Analytical Procedures
- o Validated Analytical Method Development
- o Pre-formulation and Formulation Studies
- o Impurity Profiling Studies

The publications include research papers in refereed journals and articles on Regulatory affairs, education, equipment improvisation and allied topics in reputed national and international journals (see list of publications).

STUDENTS GUIDED

Doctoral: 8 + 2 working presently
Masters': 40 + 10 working presently

FOREIGN VISITS

Have been to **US, UK, Germany, France, Switzerland, Netherlands, Turkey, Egypt, Philippines, Malaysia, Vietnam, Thailand, Singapore, Indonesia and Nepal** either in connection with consultancy assignments, delivering lectures, conducting full-day training sessions, or attending meetings.

PROJECTS/TECHNICAL SERVICES/ADVISORY CONSULTANCIES/INVITED LECTURES

Projects

Project	Sponsored by
Drug Degradation in Pharmaceutical Formulations	Ministry of Human Resource Development (MHRD), India
Studies on Stability of Drugs and Drug Products	MHRD, India
Computer-aided QSSR and QSPR studies – Application of Factorial Analysis	University Grants Commission (UGC), India
Drug Stability in Liposomes	UGC, India
Development of packaging norms	NPPA, New Delhi
Training program under Capacity Building Project	Ministry of Health & Family Welfare, GOI
Strengthening of impurity profiling facilities	Ministry of Chemicals and Fertilizers, GOI
Permeability studies on rifampicin in the presence of various anti-retroviral agents	Ministry of Chemicals and Fertilizers, GOI
Estimation of diastase activity in honey	Dabur Ltd., Baddi
Establishment of percentage of impurities in bulk drug samples	Themis Ltd., Bombay
Stability indicating analysis procedures of drugs	Panacea Biotec Ltd., Lalru
Establishment of stability test facilities	Panacea Biotec Ltd., Lalru
Validation of the method for establishment of percentage of impurities in cepheids	Orchid Chemicals and Pharmaceuticals Ltd., Chennai
Isolation and characterisation of unknown impurities in cepheids	Orchid Chemicals and Pharmaceuticals Ltd., Chennai
Isolation and characterisation of unknown impurity in a sample of drug	Medicorp Technologies, Hyderabad
Synthesis/Isolation and characterisation of unknown impurities in the sample of drug	Lupin Laboratories Ltd., Mandideep
Isolation and characterization of an impurity in a sample of drug	Medicorp Technologies, Hyderabad
Isolation and characterization of impurities of an anti-tuberculosis drug	Lupin Laboratories Ltd., Mandideep
Development of stability-indicating analytical method of drug	Panacea Biotec Ltd., Lalru
Stress decomposition studies on a drug	Atul Ltd., Gujarat
Testing of clinical trial samples for potential adulteration	Pfizer Ltd., Mumbai
Method development for analysis of a natural material and its validation	Pfizer Ltd., Mumbai
Determination of Iodine contents in thymol iodide	Cryogenics India Ltd., Ghaziabad
Development of stability-indicating assays for certain drugs	Panacea Biotec Ltd., Lalru
Analytical studies on doxorubicin and daunorubicin	RPG Life Sciences, Mumbai,
LS-MS-MS studies on doxorubicin impurity	RPG Life Sciences, Mumbai,
Instrumental analysis of tolbutamide	Quantum Drugs and Chemicals, Madurai
Analysis of tablets	Pfizer Ltd., Mumbai
Study on physical and chemical instability of anti-tuberculosis FDC products	Panacea Biotec Ltd., Lalru
Characterization of impurity in a sample of an ampicillin	DSM Anti-infectives, Toansa
Stress studies and stability-indicating method development of a new drug	Ind-Swift Ltd., Dera Bassi

Synthesis and characterization of an impurity	Ind-Swift Ltd, Dera Bassi
Stress studies, stability indicating assay method development and characterization of degradation products of a new drug	Ind-Swift Ltd, Dera Bassi
Identification of impurities	Malladi Drugs and Pharmaceuticals Ltd., Chennai
Identification and characterization of unknown impurity of cloxacillin	DSM Anti-infectives, Toansa
Development of stability-indicating methods for multi-ingredient eye drops	Promed Exports Pvt. Ltd., New Delhi
Isolation and characterisation of degradation product in a formulation	FDC Limited, Mumbai
Identification and characterization of unknown degradation product in an cloxacillin	DSM Anti-infectives, Toansa
Identification of impurities in a sample of Amphotericin B	Asence Pharma Pvt. Ltd., Vadodra
Studies on a four-drug combination	Dr Reddy's Labs., Hyderabad
Supply of software	Dr Reddy's Labs., Hyderabad
Testing of parenteral grade Amphotericin B sample according to Pharamaeuropa method	Asence Pharma Pvt. Ltd., Vadodra
Testing of oral grade Amphotericin B sample according to Pharamaeuropa method	Asence Pharma Pvt. Ltd., Vadodra
Identification and characterization of unknown degradation product in an dicloxacillin	DSM Anti-infectives, Toansa
Identification and characterization of unknown degradation product in an flucloxacillin	DSM Anti-infectives, Toansa
Analytical and LC-MS-TOF studies for characterization of an impurity of Cyclobenzaprine Hydrochloride	Polypharma S.A., Poland
Scale-up and supply of impurity standards of Amoxicillin Trihydrate	U.S. Pharmacopeia, USA.
Characterization of an unknown impurity in a sample of Ibuprofen	IOL Chemicals and Pharmaceuticals Ltd., Barnala.
Characterization of degradation products of Cefalexin Monohydrate	DSM Anti-infectives, Toansa
Scale-up and supply of impurity standards of Clarithromycin	U.S. Pharmacopeia, USA.
Identification and characterization of an unknown impurity of Landiolol	Mehta API Pvt. Ltd., Mumbai
Development and supply of cloxacillin Amide impurity	DSM Anti-Infectives, Toansa
Identification and characterization of a degradation impurity in a sample of Flucloxacillin sodium	DSM Anti-Infectives, Toansa
Identification and characterization of unknown impurity in Lorazepam Injection	Strides Arcolab Ltd., Bangalore
Identification and characterization of unknown impurities of Docetaxel Injection	Strides Arcolab Ltd., Bangalore
Identification and characterization of unknown impurity of Gemcitabine injection	Strides Arcolab Ltd., Bangalore
Identification and characterization of two impurities of Dexamethasone phosphate injection	Strides Arcolab Ltd., Bangalore

Technical services

<ul style="list-style-type: none"> • Panacea Biotec, Lalru • High Polymer Laboratories, New Delhi • DSM Anti-Infectives • CIPLA Limited, Mumbai • Himalaya Drug Co., Bangalore • Ind-Swift Limited., Mohali • Torrent, Ahmedabad • Ciron Drugs & Pharmaceuticals (P) Ltd., Mumbai • Medopharm Ltd., Chennai 	<ul style="list-style-type: none"> • J.B. Chemclas, Mumbai • Microlabs Ltd., Bangalore • Alpe, Australia • Oman Chemicals, Oman • Stiefel Research Institute, NY, USA • Mapichem AG, Russia • Baxter through Shanghai Dongfang • Cadila Pharmaceuticals, Ahmedabad • HFL Ltd., UK
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<ul style="list-style-type: none"> • Malladi Drugs & Pharmaceuticals, Chennai • Vimta Labs., Hyderabad • Medopharm, Mumbai • Mcleods Pharmaceuticals, Mumbai • BITS, Pilani • Morvek Biochemicals, USA • Lincoln Pharmaceutical Ltd., Ahmedabad • Windlas Biotech Ltd., Dehradun • Fortune Overseas Co. Pvt. Ltd, New Delhi. • Ind-Swift Ltd, Dera Bassi • DSM Anti-Infectives Ltd., Toansa • Pharmasolve, Mumbai • Apex Drugs and Intermediates, Hyderabad • Medreich Ltd., Bangalore • Ranbaxy Laboratories, Mohali • Suchem Laboratories, Ahmedabad • Flamingo Pharmaceuticals Ltd., Taloja, Distt. Raigad. • Intas Pharmaceuticals, Dehradun • Strides Acrolab, Bangalore • Bharat Serums and Vaccines Limited, Mumbai • Mehta API Pvt. Ltd., Mumbai • University of Melbourne, Melbourne, Australia • IMTECH, Chandigarh • Jince Analysis Technology Co. Ltd., Tianjin, China • NMIMS University, Shirpur, Dhule • Zydus Cadila Healthcare Ltd., Vadodara. • Dr. Dozo Laboratories, Mohali. • RPG Life Sciences Ltd., Mumbai 	<ul style="list-style-type: none"> • Shiono Chemical Co.,Ltd., Japan • ALDO International, Canada • Zentiva a.s., Prague, Czech Republic • Pt Phapros, Indonesia • Pharmaceutical Technology Co., Ltd, China • USV Limited, Mumbai. • Parabolic Drugs Ltd., Derabassi, Punjab • Sai Mirra Innopharm Pvt. Ltd., Chennai • Lupin Ltd., Pune • ACS DOBFAR, Italy • DA TIAN W. (TIANJIN) & Exp. Co. Ltd. (BBTINC), China • C.U. Shah College of Pharmacy, Mumbai • Venus Remedies, Panchkula • Wockhardt Research centre Aurangabad • Matrix Lab India, Hyderabad. • Pharmaffiliates Analytics & Synthetics Pvt. Ltd., Panchkula • Dhanuka Lab Ltd., Haryana • Dabur Ltd., Sahibabad. • Jubilant Organosys Ltd., NOIDA • Glenmark Pvt. Ltd., Mumbai • Punjabi University, Patiala • Shreeji Pharma International, Vadodara • GCU, Lahore • West-Coast Pharmaceutical Works Ltd., Ahmedabad.
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Advisory consultancies/Sponsored lectures

<ul style="list-style-type: none"> • Mehta API Pvt. Ltd., Mumbai • IOL Chemicals and Pharmaceuticals Ltd., Barnala • Tanzania Food & Drugs Authority, Tanzania • Polypharma, Poland • Panacea Biotec Ltd., Lalru • Atul Ltd., Valsad • Binder GmbH, Germany • Famy Care Ltd., Mumbai • Novartis Biochemie, Mumbai • Bilcare Research, Pune • INTAS Pharma, Ahmedabad • Ranbaxy Laboartories Ltd., SAS Nagar • Ind-Swift Laboratories, Dera Bassi • Saurav Chemicals Ltd., Panchkula • Lupin Ltd., Mandideep • Thermolab, Mumbai • Aurobindo Phamaceuticals, Hyderabad • Alkem Limited, Daman 	<ul style="list-style-type: none"> • USP, Hyderabad • Glenmark, Goa • Dr Reddy's Laboratory, Hyderabad • DSM Anti-Infectives, Toansa • Pharma Prescription Support , Mumbai • Orchid R&D, Chennai • CIPLA, Goa • FDC, Mumbai • United States Pharmacopoeia • CIPLA, Mumbai • Nicholas Piramal, Mumbai • Abdi Ibrahim, Turkey • Zydus Cadila, Ahmedabad • Novartis, Thane • Prescription Pharma Support, Mumbai • Medreich, Bangalore • Johnson & Johnson, Mumbai • Shodh, Aurangabad
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PATENT -1

Saranjit Singh and V. Rama Rao Kamala, Indian Patent, "A Process for Preparing Casted Gelatin Containing Composition" (Application, 1111/Del/2002, dated 6 November 2002; published 29 December 2006; granted 03.03.2008).

PUBLICATIONS (159)

Research Publications (Shaded –International publications)

92	Ravi P. Shah, Archana Sahu and Saranjit Singh , Identification and Characterization of Geometrical Isomeric Photo Degradation Product of Eprosartan using LC-MS and LC-NMR, European Journal of Chemistry (2010). Accepted for publication.
91	Amit Garg, Bhagwat Prasad, Hardik Takwani, Meenakshi Jain, Rahul Jain and Saranjit Singh , Evidence of the Formation of Direct Covalent Adducts of Primaquine, 2-Tert-butylprimaquine (NP-96) and Monohydroxy metabolite of NP-96 with Glutathione and N-Acetylcysteine, Journal of Chromatography B, Analytical Technologies in the Biomedical and Life Sciences , 879, 1-7 (2011).
90	Bhagwat Prasad and Saranjit Singh , Identification of Rat Urinary Metabolites of Rifabutin using LC-MS ⁿ and LC-HR-MS, European Journal of Pharmaceutical Sciences , 41(1), 173-188 (2010).
89	Ravi P. Shah and Saranjit Singh , Identification and Characterization of a Photolytic Degradation Product of Telmisartan using LC-MS/TOF, LC-MS ⁿ , LC-NMR and on-line H/D exchange mass studies, Journal of Pharmaceutical and Biomedical Analysis , 53(3), 755-761 (2010).
88	Dhara K Raijada, Saranjit Singh and Arvind K Bansal, Influence of Microenvironment pH, Humidity, and Temperature on the Stability of Polymorphic and Amorphous Forms of Clopidogrel Bisulfate, AAPS PharmSciTech. , 11(1), 197-203 (2010).
87	Ravi Shah, Archana Sahu and Saranjit Singh , Identification and Characterization of Degradation Products of Irbesartan using LC-MS/TOF, MS ⁿ , On-Line H/D exchange and LC-NMR Studies, Journal of Pharmaceutical and Biomedical Analysis , 51(5), 1037-1046 (2010).
86	Bhagwat Prasad and Saranjit Singh , LC-MS/TOF and UHPLC-MS/MS Study of in vivo Fate of Rifamycin Isonicotinyl Hydrazone Formed on Oral Co-administration of Rifampicin and Isoniazid, Journal of Pharmaceutical and Biomedical Analysis , 52(3), 377-383 (2010).
85	Surbhi Mehta, Ravi P. Shah and Saranjit Singh , Identification and Characterization of Degradation Products of Valsartan by LC and LC-MS/TOF Studies, Drug Testing and Analysis (Wiley) , 2(2), 82-90 (2010).
84	Sujal J. Mayatra, Bhagwat Prasad, Meenakshi Jain, Saranjit Singh and Rahul Jain, Development and Validation of a Sensitive and Selective UHPLC-MS/MS Method for Quantitation of an Investigational Anti-malarial Compound, 2-Tert-butylprimaquine (NP-96) in Rat Plasma, and its Application in a Preclinical Pharmacokinetic Study, Journal of Pharmaceutical and Biomedical Analysis , 52(3), 410-415 (2010).
83	Akash A. Savaliya, Ravi P. Shah, Bhagwat Prasad and Saranjit Singh , Screening of Indian Aphrodisiac Ayurvedic/Herbal Healthcare Products for Adulteration with Sildenafil, Tadalafil and Vardenafil Using LC/PDA and Extracted Ion LC-MS/TOF, Journal of Pharmaceutical and Biomedical Analysis , 52(3), 406-409 (2010).
82	Surbhi Mehta, Ravi P. Shah, Rajkamal Priyadarshi and Saranjit Singh , LC and LC-MS/TOF Studies on Stress Degradation Behaviour of Candesartan Cilexetil, Journal of Pharmaceutical and Biomedical Analysis , 52(3), 345-354 (2010).
81	Dhara K. Raijada, Bhagwat Prasad, Amrit Paudel, Ravi P. Shah and Saranjit Singh , Characterization of Degradation Products of Amorphous and Polymorphic Forms of Clopidogrel Bisulphate under Solid State Stress Conditions, Journal of Pharmaceutical and Biomedical Analysis , 52(3), 332-344 (2010).
80	Akash A Savaliya, Bhagwat Prasad, Dhara K. Raijada and Saranjit Singh , Detection and Characterization of Synthetic Steroidal and Non-steroidal Anti-inflammatory Drugs in Indian Ayurvedic/Herbal Products using LC-MS/TOF, Drug Testing and Analysis (Wiley) , 1(8) , 372-381 (2009).
79	Bhagwat Prasad and Saranjit Singh , <i>In vitro</i> and <i>in vivo</i> Investigation of Metabolic Fate of Rifampicin Using an Optimized Sample Preparation Approach and Modern Tools of Liquid Chromatography-Mass Spectrometry, Journal of Pharmaceutical and Biomedical Analysis , 50, 475-490 (2009).

78	Vijay Kumar, Ravi P. Shah, Satish Malik, Saranjit Singh , Compatibility of Atenolol with Excipients: LC-MS/TOF Characterization of Degradation/Interaction Products, and Mechanisms of their Formation, Journal of Pharmaceutical and Biomedical Analysis , 49(4), 880-888 (2009).
77	Gaurav Bedse, Vijay Kumar and Saranjit Singh , Study of Forced Decomposition Behavior of Lamivudine using LC, LC-MS/TOF and MS ⁿ , Journal of Pharmaceutical and Biomedical Analysis , 49(1), 55-63 (2009).
76	Bhagwat Prasad, Vijay Kumar, Hemant Bhutani and Saranjit Singh , Screening of Bulk Drug Samples and Anti-tuberculosis Products for the Presence of Therapeutically Less Active Diastereometric(R,S) Form of Ethambutol Dihydrochloride, Indian Journal of Tuberculosis , 55 (4), 192-198 (2008).
75	G. Kumar, M. Singh, KC Jindal and Saranjit Singh , LC-UV-PDA and LC-MS studies to characterize degradation products of glimepiride, Journal of Pharmaceutical and Biomedical Analysis , 48, 788-795 (2008).
74	Vijay Kumar, Satish Malik and Saranjit Singh , Polypill for the Treatment of Cardiovascular Diseases. Part 2. LC-MS/TOF Characterization of Interaction/Degradation Products of Atenolol/Lisinopril and Aspirin, and Mechanism of Formation Thereof, Journal of Pharmaceutical and Biomedical Analysis , 48, 619-628 (2008).
73	G. Kumar, M. Singh, KC Jindal and Saranjit Singh , Characterisation of Mass Ionisable Degradation Products of Gliclazide by LC/ESI-MS, Journal of Liquid Chromatography & Related Technologies , 31, 2174-2193 (2008).
72	G. Kumar, M. Singh, KC Jindal and Saranjit Singh , LC and LC-MS Study on Establishment of Degradation Pathway of Glipizide Under Forced Decomposition Conditions, Journal of Chromatographic Science , 46, 510-517 (2008).
71	G. Kumar, M. Singh, KC Jindal and Saranjit Singh , LC-UV-PDA and LC-MS Studies on Forced Degradation Behaviour of Glibenclamide and Development of a Validated Stability-Indicating Method, Journal of the Association of Official Analytical Chemists (JAOAC) , 91(4), 709-719 (2008).
70	Vijay Kumar, Ravi P. Shah and Saranjit Singh , LC and LC-MS Methods for the Investigation of Polypills for the Treatment of Cardiovascular Diseases. Part 1. Separation of Active Components and Classification of their Interaction/Degradation Products, Journal of Pharmaceutical and Biomedical Analysis , 47(3), 508-515 (2008).
69	Ravi P. Shah, Vijay Kumar and Saranjit Singh , LC and LC-MS Studies on Atorvastatin and its Stress Degradation Products, Rapid Communications in Mass Spectrometry , 22, 613-622 (2008).
68	Sunny Piyush Bhardwaj and Saranjit Singh , Study of Forced Degradation Behavior of Enalapril Maleate by LC and LC-MS and Development of a Validated Stability-Indicating Assay Method, Journal of Pharmaceutical and Biomedical Analysis , 46(1), 113-120 (2008).
67	T.T. Mariappan and Saranjit Singh , Gastrointestinal Permeability Studies on Combinations of Rifampicin and Nucleoside Analogue Reverse Transcriptase Inhibitors in Rats, Indian Journal of Pharmacology , 39 (6), 284-290 (2007).
66	Hemant Bhutani, Saranjit Singh , P. Manchanda and B. Singh, Increase In the Rate of Moisture Gain by Hygroscopic Drugs in the Presence of Non-Hygroscopic Water-Soluble Substances: Study of the Generalization of this Hitherto Unknown Phenomenon, Explanation to its Occurrence and Implications in Formulation Development, Asian Journal of Pharmaceutics , 1(1), 69-76 (April-June 2007).
65	T.T. Mariappan, N. Sharda and Saranjit Singh , Atypical Log D Profile of Rifampicin, Indian Journal of Pharmaceutical Sciences , 69(2), 197-201 (2007).
64	Hemant Bhutani, Saranjit Singh , Sanjay Vir, K.K. Bhutani, Raj Kumar, Asit K. Chakraborti, K.C. Jindal, LC and LC-MS Study of Stress Decomposition Behaviour of Isoniazid and Establishment of Validated Stability-Indicating Assay Method, Journal of Pharmaceutical and Biomedical Analysis , 43, 1213-1220 (2007).
63	B. Prasad, H. Bhutani, V. Kumar and Saranjit Singh , A New Validated DSC Method for Monitoring of Less Active R,S Isomer of Ethambutol Dihydrochloride in Bulk Drug Samples and Anti-Tuberculosis Formulations, Pharmacopeial Forum (USP) , 33(2), 326-333 (2007).

62	V. Kumar, H. Bhutani and Saranjit Singh , ICH Guidance in Practice: Validated Stability-Indicating HPLC Method for Simultaneous Determination of Ampicillin and Cloxacillin in Combination Drug Products, Journal of Pharmaceutical and Biomedical Analysis , 43, 769–773 (2007).
61	V. Kumar, H. Bhutani and Saranjit Singh , Evaluation of Derivative Spectrophotometry for Simultaneous Determination of Ampicillin and Cloxacillin, Indian Drugs , 43(5), 376-382 (2006).
60	B. Prasad, H. Bhutani and Saranjit Singh , Study of the Interaction between Rifampentine and Isoniazid under Acid Conditions, Journal of Pharmaceutical and Biomedical Analysis , 41, 1438–1441 (2006).
59	Saranjit Singh , B. Singh, R. Bahuguna, L. Wadhwa and R. Saxena, Stress Degradation Studies on Ezetimibe and Development of a Validated Stability-Indicating Assay, Journal of Pharmaceutical and Biomedical Analysis , 41, 1037–1040 (2006).
58	T.T. Mariappan and Saranjit Singh , Positioning of Rifampicin in the Biopharmaceutics Classification System (BCS), Clinical Research and Regulatory Affairs , 23(1), 1-10 (2006).
57	T.T. Mariappan, V. Kumar, P. Vijaya, H. Bhutani and Saranjit Singh , Derivative Determination of Rifampicin in the Presence of Isonicotinyl Hydrazone in Anti-tuberculosis Fixed-dose Combination (FDC) Products, Indian Drugs , 43(2), 106-111 (2006).
56	G.Y.S.K Swamy, Ravikumar, L.K. Wadhwa, R. Saxena and Saranjit Singh , (2 <i>R</i> *,3 <i>R</i> *,6 <i>S</i> *)- <i>N</i> ,6-Bis(4-fluorophenyl)-2-(4-hydroxyphenyl)-3,4,5,6-tetrahydro-2 <i>H</i> -pyran-3-carboxamid, Acta Crystallographica Section E , 61 (11), o3608-o3610 (2005).
55	T.T. Mariappan, Saranjit Singh , R. Pandey, and G.K. Khuller, Influence of the Mode of Intravenous Administration and the Time of Sampling on Absolute Bioavailability of Rifampicin, Clinical Research and Regulatory Affairs , 22(3-4), 119-128 (2005).
54	Hemant Bhutani, Saranjit Singh , and KC Jindal, Drug-Drug Interaction Studies on First-Line Anti-Tuberculosis Drugs, Pharmaceutical Development and Technology , 10(4), 517-523 (2005).
53	N.A. Visalakshi, T.T. Mariappan, Hemant Bhutani, Saranjit Singh , Behavior of Moisture Gain and Equilibrium Moisture Contents (EMC) of Various Drug Substances and Correlation with Compendial Information on Hygroscopicity and Loss on Drying, Pharmaceutical Development and Technology , 10(4), 489-497(2005).
52	Ashwani Gaur, Hemant Bhutani, T.T. Mariappan and Saranjit Singh , Behaviour of Marketed Packaged Formulations Under Accelerated Conditions of Temperature and Humidity in the Absence and the Presence of Light. Indian Journal of Pharmaceutical Sciences , 67(4), 438-443 (2005).
51	Hemant Bhutani, Saranjit Singh , Asit K. Chakraborti and KC Jindal, Mechanistic explanation to the catalysis by pyrazinamide and ethambutol of reaction between rifampicin and isoniazid in anti-TB FDCs, Journal of Pharmaceutical and Biomedical Analysis , 39, 892–899 (2005).
50	Ashwani Gaur, T.T. Mariappan, Hemant Bhutani and Saranjit Singh , Variable Air Velocity within Stability Chambers – A Possible Cause of Out-of-Trend Stability Results, Pharmaceutical Technology , 29(8), 44, 46-49 (2005).
49	M. Grover, M. Gulati, B. Singh, Saranjit Singh , RP-HPLC Determination of Hydrophobicity of 22 Penicillins, Their Correlation with Reported Lipophilicity Values and Establishment of Quantitative Structure-log K_w Relationships, QSAR & Combinatorial Science , 24(5), 639-648 (2005).
48	A. Dunge, Nishi Sharda, Baljinder Singh, and Saranjit Singh , Establishment of Inherent Stability of Stavudine and Development of a Validated Stability-Indicating HPLC Assay Method, Journal of Pharmaceutical and Biomedical Analysis , 37(5), 1115-1119 (2005).
47	A. Dunge, Baljinder Singh, Nishi Sharda and Saranjit Singh , Validated Specific HPLC Method for Determination of Zidovudine during Stability Studies, Journal of Pharmaceutical and Biomedical Analysis , 37(5), 1109-1114 (2005).

46	T. T. Mariappan, Saranjit Singh , Rajesh Pandey, Anshika Sharma, Isonicotinyl Hydrazone of Rifampicin and Isoniazid: Should It Be Controlled as a Related Substance (or Impurity) In USP Monographs on Anti-tuberculosis Combination Products? Pharmacopoeial Forum , 31(2), 646-652 (2005).
45	Monika Bakshi and Saranjit Singh , ICH Guidance in Practice: Establishment of Inherent Stability of Secnidazole and Development of a Validated Stability-Indicating High-Performance Liquid Chromatographic Assay Method. Journal of Pharmaceutical and Biomedical Analysis , 36(4), 769-775 (2004).
44	T.T. Mariappan, K.C. Jindal and Saranjit Singh , Overestimation of Rifampicin During Colorimetric Analysis of Anti-Tuberculosis FDC Products Containing Isoniazid due to Formation of Isonicotinyl Hydrazone. Journal of Pharmaceutical and Biomedical Analysis , 36(4), 905-908 (2004).
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268	Early Identification of Reactive Metabolites using <i>in silico</i> and <i>in vitro</i> Approaches Complemented with Advanced LC-MS Tools , Lecture delivered at 2 nd International Symposium on Drug Metabolism and Pharmacokinetics (DMPK) held at NIPER, SAS Nagar from 27-28 February 2010.
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266	Research Activities of the Department of Pharmaceutical Analysis at NIPER SAS Nagar , Lecture delivered to faculty and students of NIPER, Hyderabad on 24 November 2009.
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264	Regulatory Requirements for Assuring Quality of Essential Medicines: An Update on WHO Activities , Keynote address delivered at National Seminar on Advances and Regulatory Aspects for Pharmaceutical and Herbal Products, organized by Chitkara College of Pharmacy, Banur, Punjab on 31 October 2009.
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255-256	The QbD concept; and Recent advances in Impurity and Degradation Product Profiling , Lectures delivered at full day session at DSM Anti-Infectives, Toansa Punjab on 12 th December 2008.
249-254	Basic Principles of Stability Testing: Stress Tests/Forced Degradation; Characterization and Setting Up Limits and Specifications for Degradation Products with Reference to ICH Impurity Guidelines Q3A and B; Validation of Stability-Indicating Analytical Procedures following ICH Guideline Q2; Global Stability Testing: Adequate Stability Testing Conditions for INDIA; Consequences Of Stability Testing Results For Labelling; and Qualification of Stability Chambers , Lectures delivered at two-day workshop organized by Prescription Pharma Support at Singapore on 10 th and 11 th November 2008.
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242	Generic pharmaceutical industry – on the way to strangulation , Lecture delivered at Panjab University Diamond Jubilee function organized by UIPS, PU, Chandigarh on 1 November 2008.
241	Impurity profiling of pharmaceuticals , Lecture delivered at two weeks seminar for participants under ITEC-SCAAP program of Ministry of External Affairs a NIPER, SAS Nagar on 22 October 2008.
240	Practices and Problems of Pharmaceutical Distribution in India , Lecture delivered at a joint session of 3 rd Temperature Controlled Pharmaceutical Distribution 2008 conference and Clinical Trial Supplies and Packaging summit organized by M/s INFORMA Life Sciences at Amsterdam, Netherlands from 24-25 September 2008.
239	Are your products Stable? Lecture delivered at a seminar on 'How Quality pays?' Organized by IDMA at Mumbai on 23 rd May 2008.
238	Impurity and Degradation Product Profiling in Pharmaceutical Substances and Products , Lecture delivered at full-day session at Novartis India Ltd., OTC Business Unit, Thane on 26 th April 2008.
237	Stability Testing Requirements and Protocol for Drug Delivery Systems , Lecture delivered at 8 th International Symposium on Advances in Technology and Business Potential of New Drug Delivery Systems held at B.V. Patel PERD Centre, Ahmedabad from 26-27 February 2008.
236	Profiling of Impurities and Degradation Products in Pharmaceutical Substances and Products , Lecture delivered at full-day session at Zydus Research Centre, Ahmedabad on 25 th February 2008.
235	Stability Testing of Pharmaceutical Dosage Forms , Lecture delivered during at M/S Abdi Ibrahim at Istanbul, Turkey during visit from 14-16 January 2008.
234	Emerging Trends in Regulatory and Compendial Requirements in Impurity Profiling of Pharmaceuticals , Lecture delivered at 59 th Indian Pharmaceutical Congress held at Varanasi from 20-23 December 2007.
233	Setting Impurity Standards for APIs and Dosage Forms: An IP Perspective , Lecture delivered at IPA-EDQM-IDMA symposium entitled 'Gateway to European Markets:EDQM' held at Mumbai from 28 and 29 November 2007.
232	Building of Successful Academic-Industry Interaction – A Model , Lecture delivered at 12 APTI Convention held at P.U. Chandigarh from 25-27 October 2007.
231	Regulatory Requirements of Stability Testing of Drug Substances and Products , Full-day lecture delivered at a seminar conducted by m/s Thermolab at Goa on 5 October 2007.
230	The Challenge of Diverse Climates: Adequate Stability Testing Conditions for India , Lecture Delivered at workshop on Pharmaceutical Stability Testing to Support Global Markets conducted by AAPS Stability Group at Bethesda, Maryland, USA from 10-12 September 2007.
228-229	Stability Testing of Pharmaceutical Products and Technical Challenges Beyond Schedule M , Lectures delivered at training programme organised by CDSCO and IDMA (Gujarat State Board) for production staff from SSI at Baroda from 2-6 August 2007.
227	Approach of IPC Towards Development of Reference Substances and Impurities for APIs and Drug Products , Lecture delivered at Seminar on "Innovation in Indian Pharmacopoeia 2007" organized by Indian Pharmacopoeial Commission in association with IDMA at Mumbai, 13 July 2007.
226	Regulatory Requirements of Stability Testing of Drug Substances and Products , Full-day lecture delivered at a seminar conducted by m/s Thermolab at Hyderabad on 30 June 2007.

223-225	Aspects of Quantitative Analysis; Trends in Pharmacopoeial Standards, and Impurity and Stability-Indicating Assays , Lectures delivered at training program for Government Analysts held at NIPER, S.A.S. Nagar from 18-29 June 2007.
222	Stability Testing of Pharmaceutical Dosage Forms , Lecture delivered at a full-day session organized by Nicholas Piramal Research Centre, Mumbai on 12 June 2007.
221	Quality Related Technical Challenges for Export of Pharmaceuticals , Lecture delivered at two days workshop on Opportunities and Challenges in the Export of Pharmaceuticals sponsored by Ministry of Chemicals and Fertilizers and held at NIPER from 28-29 May 2007.
220	Impurity and Stability-Indicating Assays , Lecture delivered at training program for Analytical Staff from SSI held at NIPER, S.A.S. Nagar from 21-25 May 2007.
219	Stability Testing of APIs , Lecture delivered at full-day session organized by DSM Anti-Infectives at Chandigarh on 8 May 2007.
218	Role of Teachers in view of Latest Stringent Regulatory Requirements , Lecture delivered at National Seminar on Emerging Trends in Pharmaceutical Education and Research conducted by APTI (Haryana branch) at Lord Shiva College of Pharmacy, Sirsa on 28 April 2007.
215-217	ICH Activity and Impact on Manufacture and Registration of Pharmaceuticals; Trends in Quality Control of Pharmaceutical Products; and Stability Testing , Lectures delivered at training program for Drug Regulatory Personnel held at NIPER, SAS Nagar from 16-27 April 2007.
213, 214	Indian Pharmaceutical industry: Status, Challenges and Strengths; and Impurity and Stability-Indicating Assays , Lectures delivered at School of Pharmaceutical Sciences, Rajiv Gandhi Technical University, Bhopal on 10 April 2007.
212	Leading Role of Liquid Chromatography Tandem Mass Spectrometry in the Characterization of Impurities in Pharmaceuticals: Case Studies , Lecture delivered at 12 th ISMAS Symposium cum Workshop on Mass spectrometry (ISMAS-WS 2007) at Goa from 25-30 March, 2007.
211	Impurity and Stability-Indicating Assays , Lecture delivered at training program for Analytical Staff from SSI held at NIPER, S.A.S. Nagar from 19-23 March 2007.
210	Forensic Analysis of Pharmaceuticals – The Tightening Noose , Lecture Delivered at 1 st Chandigarh Science Congress (Pharmaceutical Sciences Session) held at UIPS, Panjab University, Chandigarh from 10-11 March 2007.
209	Stability Testing of Pharmaceutical Products , Lecture delivered at training program for Production Staff from SSI held at NIPER, S.A.S. Nagar from 19-23 February 2007.
208	Regulatory Requirements of Stability Testing of Drug Substances and Products , Full-day lecture delivered at a seminar conducted by m/s Thermolab at Panchkula on 17 February 2007.
207	Impurities in Drug Substances and Products – An IPC Perspective , Lecture delivered at 6 th USP Annual Scientific Meeting held at Mumbai from 15-16 February 2007.
206	Regulatory Requirements of Stability Testing of Drug Substances and Products , Full-day lecture delivered at a seminar conducted by m/s Thermolab at Bangalore on 3 February 2007.
205	Regulatory Requirements of Stability Testing of Drug Substances and Products , Full-day lecture delivered at a seminar conducted by m/s Thermolab and Indian Pharmaceutical Association at Aurangabad on 20 January 2007.
204	Impurity and Stability-Indicating Assays , Lecture delivered at training program for Staff from Private Test Laboratories held at NIPER, S.A.S. Nagar from 15-19 January 2007.
203	Stability Testing of Pharmaceutical Products , Lecture delivered at training program for Production Staff from SSI held at NIPER, S.A.S. Nagar from 18-22 December 2006.
200-202	Aspects of Quantitative Analysis; Trends in Pharmacopoeial Standards, and Impurity and Stability-Indicating Assays , Lectures delivered at training program for Government Analysts held at NIPER, S.A.S. Nagar from 13-24 November 2006.
198-199	Technical Challenges Beyond Schedule M; and Stability Testing of Pharmaceutical Products , Lectures delivered at training program for Production Chemists from Small Scale Industries held at Bangalore from 6-10 November 2006.
196-197	Stability Testing of Pharmaceuticals; and Impurity Profiling of Drugs , Lectures delivered at full-day training sessions conducted at CIPLA, Vikhroli, Mumbai on 11-12 October 2006.
195	Impurities in Pharmaceuticals – An Indian Perspective , Lecture delivered at USP Annual Scientific Meeting 2006 held at Denver, Colorado, USA from 26-29 September 2006.
192-194	ICH Activity and Impact on Manufacture and Registration of Pharmaceuticals; Stability Testing; and Trends in Quality Control of Pharmaceutical Products , Lectures delivered at training program for Drug Regulatory Personnel held at NIPER, SAS Nagar from 11-22 September 2006.
191	Impurity Profiling of Drugs , Lecture delivered at full day training session conducted at FDC Jogeshwari, Mumbai on 10 September 2006.

188-190	Stress Testing and Stability-Indicating Assays; Analytical Method Validation; and Impurity Profiling of Drugs , Lectures delivered at seminar on Quality Management organised by Small Industries Service Institute (SISI), Goa Pharmaceutical Manufacturer Association and IPA (Goa Branch) at Goa on 8 September 2006
186-187	Stability Testing of Pharmaceuticals; and Impurity Profiling of Drugs , Lectures delivered at full-day training sessions conducted at CIPLA, Goa on 6-7 September 2006.
185	Stability-indicating and Impurity Assays , Lecture delivered at the training program for Analytical Staff from SSI held at NIPER, SAS Nagar from 21-25 August 2006.
183-184	Technical Challenges Beyond Schedule M; and Stability Testing of Pharmaceutical Products , Lectures delivered at Training programme for Production Chemists from Small Scale Industries held at Indore from 24-28 July 2006.
181-182	Aspects of Quantitative Analysis; and Trends in Pharmacopoeial Standards , Lectures delivered at training program for Government Analysts held at NIPER, S.A.S. Nagar from 12-23 June 2006.
179-180	Stability Testing of Drugs and Products; and Stability Test Equipment For ICH/FDA Testing , Lectures delivered at a seminar on Stability Testing sponsored by M/S Thermolab at Chennai on 3 June 2006.
177-178	Stability Testing of Drugs and Products; and Impurity Profiling of Drugs , Lectures delivered at full day training sessions conducted at Orchid R&D Centre, Chennai on 1-2 June 2006.
175-176	Regulatory Requirements of Stability Testing of Drug Substances and Products; and Driving a Performance Stability Chamber , Lectures delivered at two day seminar on Stability Testing –Issues and Realities conducted by Prescription Pharma Support at Chandigarh on 26-27 May 2006.
174-175	Trends in Pharmacopoeial Standards; and Impurity Profiling of Drugs , Lectures delivered at full day training session conducted at DSM Anti-infectives, Toansa on 13 May 2006.
171-173	ICH Activity and Impact on Manufacture and Registration of Pharmaceuticals; Stability Testing; and Trends in Analysis , Lectures delivered at training program for Drug Regulatory Personnel held at NIPER, SAS Nagar from 17-28 April 2006.
169-170	Stability-indicating and Impurity Assays, and Method Development for Patent and Proprietary Medicines Lectures delivered at the training program for Analytical Staff from SSI held at NIPER, SAS Nagar from 20-24 March 2006.
168	Stability Testing of Pharmaceutical Products , Lecture delivered at a full day session conducted at Dr Reddy's Laboratories, Hyderabad on 18 March 2006.
166-167	Stability Studies, Why and How? And Technical Challenges Beyond Schedule M , Lectures delivered at training programme on "Total production management for production staff of pharmaceutical companies" conducted by Small Industries Service Institute and Goa Pharmaceutical Manufacturers Association at Goa from 10-11 March 2006.
165	Stability Testing of Pharmaceutical Products , Lecture delivered at a full day session conducted at Glenmark Pharmaceuticals Limited, Goa on 9 March 2006
164	The Current Demands on Chemists In industry for Analysis of Impurities in Pharmaceuticals , Lecture delivered at National Conference on Organoanalytical Techniques in Pharmaceutical Industries organized by Department of Chemistry, K.T.H.M. College, Nashik from 23-25 February 2006.
163	Impurity Test Requirements in Pharmacopoeias , Lecture delivered at 5 th Annual Scientific Meeting, a joint symposium sponsored by USP, PDA and the India Stakeholders Forum at Hyderabad, 8-10 February 2006.
162	Stability Testing of Pharmaceutical Products , Lecture delivered at Training Programme for Production Staff from SSI held at NIPER, S.A.S. Nagar from 6-10 February 2006.
161	Opportunities for Indian Laboratories' Participation in Development & Synthesis of Impurities , Lecture delivered at 9 th IDMA-APA-Pharmaceutical Analyst's Convention held at Mumbai from 23-24 January 2006.
159-160	Stability-indicating and impurity Assays; and Stability Testing , Lectures delivered at the training program for Staff from Private Testing Laboratories, held at NIPER, SAS Nagar from 16-20 January 2006.
157-158	Qualification of Equipment; and Life for an Analyst Beyond Schedule M , Lectures delivered at the training program for Analytical Staff from SSI held at NIPER, SAS Nagar from 19-23 December 2005.
156	Anti-TB FDC Products: Solving their Bioavailability and Stability Problems , Professor M.L. Khorana Memorial Lecture delivered at 57 th Indian Pharmaceutical Congress held at Hyderabad from 2-4 December 2005.
155	Stability Testing of Pharmaceutical Products , Lecture delivered at Training Programme for Production Staff from SSI held at NIPER, S.A.S. Nagar from 21-25 November 2005.

154	Stability Testing of Pharmaceutical Products , Lecture delivered at Training Programme organised at Ahmedabad by FDCA Gujarat for Drug Control Officers under WHO Biennium budget from 20-22 October, 2005
152-153	Aspects of Quantitative Analysis; and Trends in Pharmacopoeial Standards , Lectures delivered at training program for Government Analysts held at NIPER, S.A.S. Nagar from 17-28 October 2005.
151	Stability Testing of Pharmaceutical Products , Lecture delivered at a full day session conducted at Alkem Limited, Daman on 7 October 2005
149-150	Technical Challenges Beyond Schedule M; and Stability Testing of Pharmaceutical Products , Lectures delivered at Training programme for Production Chemists from Small Scale Industries held at Kochi, Kerala, India from 19-23 September 2005.
148	Trends in Pharmacopoeial Standards , Lecture delivered at Regional Conference on Pharmaceutical and Biomedical Analysis, organized by Institute of Technology, Bandung, Indonesia from 15-16 September 2005.
145-147	Stability Testing for Global Markets; Stress Testing and SIAMs; and Impurity profiling , Lectures delivered at a full day session conducted at M/S Aurobindo Pharmaceuticals, Hyderabad on 6 September 2005.
144	Stability Testing: Protocol to Expiry Date , Lecture delivered at a seminar organized by IPGA at Selvassa (DNH, UT) on 5 September 2005.
142-143	Aspects of Quantitative Analysis; and Trends in Pharmacopoeial Analysis , Lectures delivered at training program for Government Analysts held at NIPER, S.A.S. Nagar from 22 August-2 September 2005.
141	Stability Testing of Pharmaceutical Formulations , Lecture delivered at training program for Production Staff from SSIs held at Bhubneswar, Orissa from 25-29 July 2005.
139-140	Impurity and Stability Indicating Analysis; and Stability Testing , Lectures delivered at training program for Staff from Private Testing Laboratories held at NIPER, SAS Nagar from 20-24 June 2005
136-138	ICH Activity and Impact on Manufacture and Registration of Pharmaceuticals; Stability Testing; and Trends in Quality Control of Pharmaceutical Products , Lectures delivered at training program for Drug Regulatory Personnel held at NIPER, SAS Nagar from 16-27 May 2005.
135	Impurity and Stability Indicating Analysis , Lecture delivered at the training program for Analytical Staff from SSI held at NIPER, SAS Nagar from 25-29 April 2005.
131-134	The ICH Process-Benefits and Implications, Current Concepts in Stability Testing of Pharmaceuticals, Indian Pharmaceutical Industry – Current Status and Prospects, and Stability Testing , Lectures delivered at training program for Drug Regulatory Personnel held at NIPER, SAS Nagar from 21 March-2 April 2004.
129-130	ICH Drug Stability Test Requirements and Key requirements in implementation of Drug Stability Testing in industry following ICH Recommendations , Lectures delivered at two day seminar organized by PDA (India Chapter) under the title 'ICH Stability Guidelines: Current Thinking and Practice' at Mumbai on 18 and 19 March 2005.
128	Stability Testing Issues of Lupin Ltd. , Full-day lecture sessions at Lupin Limited, Mumbai on 17 March 2005.
127	Impurity and Stability Indicating Analysis . Lecture delivered at the training program for Analytical Staff from SSI held at NIPER, SAS Nagar from 21-25 February 2005.
126	Impurity and Stability-Indicating Analysis , Lecture delivered at the training program for Production Staff from SSI held at NIPER, SAS Nagar from 24-28 January 2005.
124-125	The ICH Process-Its Benefits and Implications; and Current Concepts in Stability Testing of Pharmaceuticals , Lectures delivered at Department of Pharmaceutical Sciences, Maharishi Dayanand University, Rohtak on 13 January 2005.
123	Indian Pharmaceutical Industry – Current Status and Prospects , Lecture delivered at a seminar organized by Pharmaceutical Manufacturers Association at Kanpur on 7 January 2005
121-122	Aspects of Quantitative Analysis; Impurity and Stability-Indicating Methods , Lectures delivered at the training program for Government Analysts held at NIPER, SAS Nagar from 20-31 December 2004.
120	Impurity and Stability-Indicating Methods , Lecture delivered at the training program for Analytical Staff from SSI held at NIPER, SAS Nagar from 22-26 November 2004.
119	Current Concepts in Stability Testing of Pharmaceuticals , Lecture delivered at First Convention of Indian Pharmacy Graduates Association, Haryana Branch at Karnal on 21 November 2004.
118	Indian Pharmaceutical Industry – Current and Post 2005 , Lecture delivered at Lovely Institute of Technology, Department of Pharmacy, Jalandhar on 6 November 2004.

116-117	Aspects of Quantitative Analysis; Impurity and Stability-Indicating Methods , Lectures delivered at the training program for Government Analysts held at NIPER, SAS Nagar from 18-29 October 2004.
115	Stability Testing , Lecture delivered at training program for Production Staff from SSIs held at NIPER, SAS Nagar from 20-24 September 2004.
112-114	Aspects of Quantitative Analysis; Impurity and Stability-Indicating Methods; and Stability Testing for Different Dosage Forms , Lectures delivered at the training program for Analytical Staff from SSIs held at NIPER, SAS Nagar from 21-25 June 2004.
110-111	The ICH Process-Benefits and Implications; and Stability Testing for Different Dosage Forms , Lectures delivered at cGMP seminar organized by Kerala Drug Control Administration and Kerala Pharmaceutical Manufacturers Association at Kochi from 29-30 May 2004.
109	Stability Testing for Different Dosage Forms , Lecture delivered at training program for production staff from SSIs held at NIPER, SAS Nagar from 24-28 May 2004.
106-108	Current Concepts in Stability Testing of Pharmaceuticals; Modern Laboratory and Trends in Analysis; and The ICH process-Benefits and Implications , Lectures delivered at training program for Drug Regulatory Personnel held at NIPER, SAS Nagar from 19 April –1 May 2004.
104-105	Aspects of Quantitative Analysis; and Impurity and Stability-Indicating Methods , Lectures delivered at the training program for Analytical Staff from SSIs held at NIPER, SAS Nagar from 22-26 March 2004.
103	Stability Testing , Lecture delivered at training program for production staff from SSIs held at NIPER, SAS Nagar from 23-27 February 2004.
100-102	Current Concepts in Stability Testing of Pharmaceuticals; Stability testing – >From Protocol to Shelf-Life Determination; and The ICH process-Benefits and Implications , Lectures delivered at training program for drug regulatory personnel held at NIPER, SAS Nagar from 19-31 January 2004.
99	Stability testing–From Protocol to Shelf-Life Determination , Lecture delivered at Lupin Limited, Mandideep on 27 December 2003.
98	Rational Therapy of Tuberculosis Using Fixed Dose Combination (FDC) Products: Bioavailability and Stability Issues , Lecture delivered at 36 th Annual Conference of Indian Pharmacological Society (IPS 2003), New Delhi on 5 December 2003.
97	Current Concepts in Stability Testing of Pharmaceuticals , Lecture delivered at seminar conducted by Council for Health Care Industry at B.V. Patel PERD Centre, Ahmedabad on 2 November 2003.
95-96	Studies towards Development of Novel Anti-tuberculosis FDC Formulations Devoid of Bioavailability and Stability Problems; and Stability Testing of Drug Delivery Systems , Lectures delivered on 2 November 2003 at AICTE/ISTE sponsored training programme conducted by Nirma University of Science and Technology for pharmacy teachers at Ahmedabad from 1-15 November 2003.
92-94	Stability Testing for the Global Markets; Critical Issues: Stability Chambers; and Stress Testing for Stability Indicating Analytical Methods Development with an example , Lectures delivered at IDMA-APA seminar on 'Stability Studies: What Next? Shelf Life: Why and How' at Mumbai on 1 November 2003.
88-91	Modern Analytical Laboratory; Aspects of Quantitative Analysis; ICH Process – Its Benefits and Implications and Update on Stability Testing Concepts and Issues , Lectures delivered at three weeks intensive course on Modern Analytical Techniques in Quality Control of Drugs and Pharmaceuticals (for regulatory persons from Asia, Africa and Russia) held at NIPER, SAS Nagar, India from 1-19 September 2003.
87	Organizing for impurity profiling studies on drugs , Lecture session conducted at Saurav Chemicals Limited, Panchkula on 18 August 2003.
85-86	Stability Testing of Marketed Products; and Stress testing , Lectures delivered at half-day session at Ind-Swift Laboratories Limited, Dera Bassi on 1 May 2003.
84	Stability Testing – From Protocol to Shelf-Life Determination , Lecture delivered at half-day session at Ind-Swift Laboratories Limited, Dera Bassi on 24 April 2003.
83	Impurity profiling in Pharmaceuticals , Lecture delivered at Workshop on Indian Pharmaceutical Industry: Technological Challenges, sponsored by Ministry of Chemicals and Fertilizers, Government of India and held at NIPER, SAS Nagar, India from 20-21 March 2003.
82	Challenge in Stability Testing of Drug Delivery Systems , Lecture delivered at National Seminar on Pharmaceutics in the Light of Drug Delivery Challenges conducted by University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, India on 14-15 March 2003.

77-81	Stability testing–From Protocol to Shelf-Life Determination, Stability Testing of Marketed Products, Practical Steps in Impurity Profiling, FT-RAMAN and its Pharmaceutical Applications, Basic Concepts of Modern Spectroscopic Techniques for Evaluation of APIs and Products , Lectures delivered at a full-day session at Ranbaxy Laboratories Limited, SAS Nagar, India on 11 March 2003.
76	Stability Studies of Drug Delivery Systems , Lecture delivered at seminar on Drug Delivery Systems: Opportunities and Research organised by Industry-Institute Partnership Cell and Department of Pharmaceutics, Bombay College of Pharmacy, Mumbai, India on 28 February 2003.
75	Preformulation Aspects of Formulation Development , Lecture delivered at Morepen Laboratories, Baddi, Himachal Pradesh, India on 25 February 2003.
74	Challenges before Indian Pharmaceutical Industry to Meet Current International Product Quality Requirements , Lecture delivered on 22 February 2003 at UGC Refresher Course on Trends and Methods in Pharmaceutical Sciences held at Jamia Hamdard, New Delhi, India from 15 February 2003 to 7 March 2003.
73	Role of Preformulation Research in Drug Discovery and Development , Lecture delivered at Discovery Research, Dr Reddy's Laboratories Limited, Hyderabad on 6 February 2003.
72	Impurity Profiling of Drugs , Lecture delivered at Dabur Research Foundation, Sahibabad, India on 17 January 2003.
71	Current Concepts in Stability Testing of Drugs , Lecture delivered at Faculty of Pharmacy, Jamia Hamdard, New Delhi, India on 21 December 2002.
70	Quality and Stability Issues of Pharmaceutical Dosage Forms , Lecture delivered on 20 December 2002 at Training Program for Hospital Pharmacists held at NIPER, SAS Nagar, India from 16-21 December, 2002.
69	Current Stability Issues – An update , Lecture delivered on 27 October 2002 at DIA's 3 rd International Conference on Global Trends in Global Pharmaceutical Industry held at Goa, India from 25-27 October, 2002.
65-68	ICH Process – Its Benefits and Implications; Modern Analytical Laboratory; Aspects of Quantitative Analysis and Capillary Electrophoresis Lectures delivered at three weeks intensive course on Modern Analytical Techniques in Quality Control of Drugs and Pharmaceuticals (for regulatory persons from Asia, Africa and Russia) held at NIPER, SAS Nagar, India from 2-20 September, 2002.
64	Quantitative Structure-Property Relationships , Lecture delivered on 26 July 2002 at workshop on Molecular Modelling and Pharmainformatics held at NIPER, SAS Nagar, India from 22-26 July, 2002.
63	Current Concepts in Stability Testing of Drugs , Lecture delivered at Seminar on Stability Testing of Drugs organised by M/S WTB Binder, Germany at New Delhi, India on 31 May 2002.
60-62	Stability Testing: The Scientific and Regulatory Perspective; Stability Testing of Marketed Products and Stability testing of Biological/Biotechnological Drugs . Lectures delivered at a full day training session conducted at INTAS, Ahmedabad, India on 21 April 2002.
59	The Current Demands on Chemists in Industry for Improvement of Exports of Pharmaceuticals from the Country , Plenary lecture delivered at the 15 th Annual National Symposium organised by the Department of Chemistry and the Centre for Advanced Studies in Chemistry, Panjab University, Chandigarh, India on 23 March 2002.
58	Specific issues in stability testing for marketing in Zone III and IV countries , Lecture delivered on 13 February 2002 at the 8 th International Conference on Stability Testing – Design and Interpretation for Global Registration, held at London, UK on 13 & 14 February, 2002.
57	ICH & Q7A , Lecture delivered on 24 January 2002 at workshop on Recent Trends in Good Manufacturing Practices held at NIPER, SAS Nagar, India from 24-25 January, 2002.
56	Stability and Storage Issues of Drugs and Validation of Test Methods , Lecture delivered on 19 December 2001 at USP/DIA Regional Conference for South Asian Countries on Quality and Compliance Issues of Pharmaceuticals to be held at Kathmandu, Nepal from 17-20 December, 2001.
55	Global versus Local Stability Test Requirements , Lecture delivered at IDMA-PAC Pharmaceutical Analysts Convention held at Mumbai, India on 28 th and 29 th September, 2001.
54	Stability Program and Validation of the Stability Chambers , Lecture delivered on 8 September 2001 at three weeks intensive course on Inspection of Pharmaceutical Facilities (for regulatory persons from Asia, Africa and Russia) held at NIPER, SAS Nagar, India from 3-21 September, 2001.
52-53	Stability Testing: Current Scientific and Regulatory Perspectives and Impurity Profiling of Drugs , Lecture delivered at Colloquium on Good Laboratory Practices conducted by All India Biotec Association (AIBA) at Hyderabad, India on 4 August 2001.

51	Stability Testing: The Scientific and Regulatory Perspective , Lecture delivered at Division of Drug Analysis, Department of Medical Sciences, Ministry of Public Health, Nonthaburi, Thailand on 4 May, 2001.
48-50	Stability Testing: The Scientific and Regulatory Perspective; Stability Testing of Natural Medicinal Products, and Stability Testing of Marketed Products , Lectures delivered at The Pharmaceutical Technology Service Centre, Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok, Thailand on 3 May 2001.
47	Stability Testing: The Scientific and Regulatory Perspective , Lecture delivered at Binder GmbH, Tuttlingen, Germany on 28 th March 2001.
45-46	Stability testing of Marketed Products and ICH from an Indian Perspective: A Suggested Approach to Stress Testing , Lectures delivered at 2 nd International Symposium on Stability Testing held at Goa, India on 9 th and 10 th March 2001.
44	Evaluation of Gelatin-Based Formulations and Raw Gelatin for Possibility of Reduction in Dissolution Rates on Ageing , Lecture delivered on 8 th March 2001 at Associated Capsules, Mumbai, India .
42-43	Stability Testing: The Scientific and Regulatory Perspective and ICH Process – Its Benefits and Implications , Lecture delivered at a two-day workshop on Quality Requirements for Export of Drugs and Pharmaceuticals at NIPER, S.A.S. Nagar, India on 29 th and 30 th January 2001.
41	Stability Testing: The Scientific and Regulatory Perspective , Lecture delivered at National Pharmaceutical Control Bureau, Ministry of Health Malaysia at Kuala Lumpur, Malaysia on 10 November 2000.
40	Stability Testing: The Scientific and Regulatory Perspective , Lecture delivered at Institute for Drug Quality Control, Ministry of Health Vietnam, Ho Chi Minh City, Vietnam on 8 November 2000.
38-39	Stability Testing: The Scientific and Regulatory Perspective and ICH Process – Its Benefits and Implications , Lecture delivered at a seminar conducted by Binder GmbH at Hotel Galleria Suites at Manila, Philippines on 6 November 2000.
36-37	Stability Testing and Harmonisation of Regulatory Requirements – A Move Towards Global Dossier , Lectures delivered at an Intensive Course on the Preparation and Assessment of Pharmaceutical Registration Dossier held at NIPER, SAS Nagar, India from 4-22 September 2000.
33-35	Post-approval Changes & Stability Test Requirements; Stress Testing for Determination of Intrinsic Stability of Drugs and International Requirements of Stability Testing for Product Registration , Lectures delivered at IDMA-APA Seminar on Stability Testing of Pharmaceuticals at Mumbai, India on 30 June 2000.
32	Stability Testing , Lecture delivered on 9 March 2000 at AICTE-ISTE sponsored short-term training programme in Pharmaceutical Sciences held at UIPS, Panjab University, Chandigarh, India from 6-18 March, 2000.
31	Stress Testing, Stability Testing and Impurity Profiling , Lecture delivered at Max GB, Toansa, India on 17 February 2000.
30	Stability Testing in Zones III and IV , Lecture Delivered at 51 st Indian Pharmaceutical Congress, Indore, India on 18 December 1999.
29	Stability Testing , Lecture delivered at Indo-German Exhibition, Indo-German Chamber of Commerce, Mumbai, India on 28 October 1999.
27-28	Stability Testing and Harmonisation of Regulatory Requirements – A Move Towards Global Dossier , Lectures delivered at Intensive course on Assessment of Quality of Drugs and Pharmaceuticals conducted at NIPER, S.A.S Nagar, India from 4-19 October 1999.
26	Modern Instrumental Techniques , Lecture delivered at Intensive course on Assessment of Quality of Drugs and Pharmaceuticals conducted at NIPER, S.A.S Nagar, India from 4-19 October 1999.
24-25	Harmonisation of Regulatory Requirements – A Move Towards Global Dossier and Conduct of Stability Studies and Evaluation of Shelf-life , Lectures delivered at Intensive course on Design and Development of New Pharmaceutical Products at BV Patel PERD Centre, Ahmedabad, India , 19-20 March 1999.
23	Harmonisation of Regulatory Requirements – A Move Towards Global Dossier , Lecture delivered at K.B. Institute of Pharmaceutical Education and Research, Gandhinagar, India , 18 March 1999.
22	Harmonisation of Regulatory Requirements – A Move Towards Global Dossier , Lecture at Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India on 9 March 1999.
21	European Drug Master File Procedure for Active Substances , Lecture delivered at Atul Limited, Atul, Dist. Valsad, India on 21 February 1999.
20	Stability Studies vs Shelf-life , Lecture delivered at Lupin Laboratories, Mandideep, Bhopal, India on 7 January 1999.

19	Stability Studies vs Shelf-life , Lecture delivered at IDMA-PAC Pharmaceutical Analysts Convention held at Nehru Centre Auditorium, Worli, Mumbai, India on 9 th and 10 th October 1998.
18	Stability Testing according to ICH and WHO Guidelines , Lecture delivered at the 'National Seminar on Drug Development – Future Perspectives' held on 29 and 30 August 1998 at M.S. University, Baroda, India .
17	Harmonisation of Regulatory Requirements – A Move Towards Global Dossier , Lecture delivered at Friday seminar at NIPER, S.A.S. Nagar, India on 4 th September 1998.
16	Hydrophobicity Parameter – Measurement and Calculation , Lecture delivered at the 'Summer School on Computer-Aided Drug Design' organised by NIPER, S.A.S. Nagar, India from June 15-19, 1998.
15	Lipophilic Drug Derivatives in Liposomes: An Approach for the Success of Liposomes in the Market Place , Lecture delivered at the National Symposium on Current Trends in Liposome Research - Dream to Reality, organised by Department of Pharmaceutical Sciences, Dr Hari Singh Gour University, Sagar, India from March 23-25, 1998.
14	Stability Study of Pharmaceuticals according to ICH and WHO Guidelines , Lecture delivered at Cadila Healthcare Limited, Ghodasar, Ahmedabad, India on 18 March, 1998.
13	Stability Testing of Pharmaceuticals according to ICH and WHO Guidelines , Lecture delivered at National Seminar on Current Trends and Future Challenges in Pharmaceutics, arranged by UIPS, Panjab University, Chandigarh, India on March 6 & 7, 1998.
12	Understanding Analytical Method Development , Lecture delivered at Workshop on Good Laboratory Practices, organized by CIPL, Ghaziabad, India from 24th and 25th October 1997.
9-11	Stability Testing; Degradation Chemistry and Kinetics and The Changing Face of Stability Testing Lectures delivered as a resource person at the Faculty Development Programme for Pharmacy Teachers at Jamia Hamdard, New Delhi, India on 21 June 1996.
8	HPLC for Pharmaceutical Applications , Lecture delivered at the seminar on Recent Trends in Chromatography organised by M/S Spinco Biotech Pvt. Ltd. at New Delhi, India on 20 August 1993.
7	Stability Estimates: Enhancing Their Reliability , Lecture delivered at the seminar on Shelf Life and Stability of Pharmaceuticals organised by IDMA, Tamil Nadu, State Branch at Madras, India on 21 November, 1992
6	The Expiry Date - Its Labelling Aspect , Lecture delivered at the seminar on Shelf Life and Stability of Pharmaceuticals organised by IDMA, Tamil Nadu State branch at Madras, India on 21 November, 1992
5	HPLC in Penicillin Analysis , Lecture delivered at the seminar on HPLC Application of Drugs and Pharmaceuticals organised by Spinco Biotech Pvt. Ltd. at Hyderabad, India on 16 November 1992.
4	Are the Stability Estimates Being Made by Our Drug Industry Really Valid? Lecture delivered at the meeting of Pharmaceutical Discussion Group, New Delhi, India on 17 October 1992.
3	The Expiry Date - Its Labelling Aspect , Lecture delivered at the 13th Annual Conference of Indian Pharmacy Graduates Association at N. Delhi, India on 4 April 1992
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