

# SATISH MANCHANDA

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## EXECUTIVE SUMMARY

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- Competent and result oriented professional offering **nearly 8 years** of experience; currently spearheading as **Assistant Professor (Pharmaceutics)** with **Delhi Institute of Pharmaceutical Sciences & Research (DIPSAR, Delhi University), New Delhi (India)**
- Recognized for a strong and excellent academic background and knowledge of the domain area of study; Submitted his **PhD(Pharmaceutical Sciences)** to University of Delhi; An **M. Pharm (Pharmaceutics)** from Rajiv Gandhi Proudyogiki Vishwavidyalaya with **B. Pharm** from UP Technical University and **D. Pharm** from Board of Technical Education, New Delhi
- PhD thesis topic: **Studies on Ocular Formulations of Selected Carbonic Anhydrase Inhibitor**
- M.Pharm Dissertation topic: **Formulation & Development Of Multi Unit Particulate System (MUPS) Of An Anticholinergic Drug** (F & D, Zydus Cadila Healthcare Ltd., Ahmedabad, India )
- **Associated with American Association of Pharmaceutical Scientists (AAPS) & Indian Pharmacy Graduate's Association (IPGA)**
- **All India GATE 2007 (Graduate Aptitude Test of Engineering) Rank:- 2153**
- **Completed 500 Hrs. Practical Training** as an Apprentice Pharmacist, E.S.I. Dispensary, Shastri Nagar, Delhi (India).
- **Underwent Language test (Feb 2011)– IELTS (BAND 7)**

### Instruments Handled:

√ Pam Glatt GPCG 1.1 √ Neocota coater √ Ganson coater √ all kinds of tablet machines √ Instruments used in F&D √ UV √ATR √DSC √Lyophiliser √HPLC √UFLC

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## PROFESSIONAL EXPERIENCE

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**DELHI INSTITUTE OF PHARMACEUTICAL SCIENCES & RESEARCH, NEW DELHI (INDIA)**      **SINCE DEC'10**

**SUNDER DEEP PHARMACY COLLEGE, GHAZIABAD, UP (INDIA)**      **OCT'09-DEC'10**

### Assistant Professor

- Manage classroom coverage of assigned subjects as per academic curriculum to students.
- Assume overall responsibility of a devoted educator covering professional development, assessment of students and conducting staff meetings.
- Collaborate with fellow lecturers on lesson plans and performed administrative tasks viz. recording attendance, managing student portfolios and providing individual assistance to the students.
- Significantly enhance classroom learning environment and acting as a facilitator to promote student leadership in initiating and creating positive learning opportunities.
- Received consistently glowing evaluations from students and supervising administrators. Devised lessons, which captured the students' imaginations infusing much needed enthusiasm.
- Deftly handling the responsibilities of the Labs & office administration

**ZYDUS CADILA HEALTHCARE LTD, GUJRAT (INDIA)**

**6 MONTHS**

### Project Trainee

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## ACADEMIA

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**PhD (Pharmaceutical Sciences)**

University Of Delhi, Delhi, India (Thesis Submitted July 2016)

**M.Pharma (Pharmaceutics); 2009**

RGPV, India; 69.63%

**B.Pharma; 2006**

UP Technical University, India; 70.63%

**Professional Diploma in Clinical Research; 2005**

Catalyst Clinical Services Pvt Ltd, Delhi, India

**D.Pharma; 2003**

BTE Delhi, India; 70.04%

**12th; 2001**

CBSE, Delhi, India; 63.6%

**10th; 1999**

CBSE, Delhi, India; 64%

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**PROJECTS HANDLED**

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**Title: Studies on ocular formulations of selected Carbonic Anhydrase Inhibitor (Phd Dissertation)****Synopsis:**

**Title:** Solubility Enhancement of Progesterone by Solid Dispersion Approach

**Synopsis:** Progesterone is commonly used in menstrual disorders, which is having very poor aqueous solubility. In the present study progesterone was molecularly dispersed in the suitable carrier by applying the principles of Solid dispersion techniques which resulted in solubility enhancement of Progesterone and thereby the bioavailability. The resulted solid dispersion was then analysed for several parameters like drug content, carrier-drug interactions, phase solubility studies etc. by use of different modern analytical technique.

(Manchanda Satish et.al.; Solubility enhancement of progesterone by solid dispersion approach; Poster presentation; AAPS Annual Meet & Exposition 2009 LA, CA, USA)

**Title: Formulation & Development of Multi Unit Particulate System (MUPS) Of an Anticholinergic Drug (M.Pharm Dissertation)**

**Synopsis:** In the present study, muscle drug Trospium chloride was studied which is used in overactive bladder syndrome. It is less than 10% absorbed and dose need to be increased to get the desired effect. To combat this problem, Extended release Multi Unit particulate system (MUPS) formulation was developed with the aid of pelletisation techniques and coating of different polymers in Pam Glatt GPCG 1.1. The resulted extended release pellets were then analysed for different parameters like particle size, particle morphology, drug content, dissolution profile etc. by utilising different modern analytical techniques.

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**INTERNSHIP**

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- Arbro Pharmaceuticals Ltd., Kirti Nagar, Delhi (India)- 1 month
  - Rexcin Pharmaceuticals Pvt. Ltd., Delhi (India)- 1 month
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**CONFERENCES/SEMINARS ATTENDED**

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**International:**

- FIP Pharmaceutical Sciences 2010 World Congress in association with AAPS Annual Meeting & Exposition in New Orleans, LA, USA, November 14-18 2010.
- American Association of Pharmaceuticals Scientists (AAPS) Annual Meeting 2009, Los Angeles, California, USA.

**National:**

- Attended AICTE Sponsored XXI QIP on “Recent Advances in Pharmaceutical Sciences” held At DIPSAR (30<sup>th</sup> Jan. – 10<sup>th</sup> Feb 2017)
- Attended AICTE Sponsored XXI QIP on “Recent Advances in Pharmaceutical Sciences” held At DIPSAR (5<sup>th</sup> – 9<sup>th</sup> Dec. 2016)
- Participated in Book Release Ceremony of “Pharmacologists of India: Their Contribution” organised at DPSRU, New Delhi on 18<sup>th</sup> Nov. 2016.
- Attended two weeks AICTE Sponsored XVIII QIP on “Recent trends in Pharmacology & Therapeutics” held At DIPSAR (20<sup>th</sup> Feb- 5<sup>th</sup> March 2015)
- Participated in 10<sup>th</sup> Knowledge summit inaugurated by Hon’ble President of India on “Curing the incurables: Sharing of innovations” at Vigyan Bhawan, New Delhi. (January 2013)
- Served as GPAT representative to conduct the GPAT 2011 at Govt. Polytechnique Pithuwala Dehradun.
- Participated in AICTE sponsored Two Weeks XVI Quality Improvement programme at DIPSAR as *Scientific & Registration Committee Member* (21<sup>st</sup> Nov.- 2<sup>nd</sup> Dec. 2011)
- Attended International Symposium *Introduction to Clinical Research & Pharmacovigilance* held at DIPSAR (10<sup>th</sup> Feb. 2011)
- 60<sup>th</sup> Indian Pharmaceutical Congress, New Delhi, India, December 12<sup>th</sup> to 14<sup>th</sup> 2008.
- Attended seminar on *Online manuscript Management System* held at Innovation Square, BRNCP Campus, Mandsaur, MP. (Feb 2008)
- Attended seminar on Technology & Commerce of Pelletization organized by TIFAC-CORE in Green Pharmacy, B.R.Nahata College of Pharmacy-SIRO. (January 2008)
- Attended seminar on Fun & Frolic of Marketing organized by TIFAC-CORE in Green Pharmacy, B.R.Nahata College of Pharmacy-SIRO. (January 2008)
- Attended seminar on Biotech Drugs-Need for Change in Strategies, by Mr. P.K.Ghosh (MD, Kee Pharma) organized by TIFAC-CORE in Green Pharmacy, B.R.Nahata College of Pharmacy-SIRO. (January 2008)
- Attended seminar on Drug Discovery & Development organized by B.R.Nahata College of Pharmacy-SIRO (September 2007)
- Attended 3<sup>rd</sup> National seminar & Intellectual Property Fair on Green Pharmacy organized by B.R.Nahata College of Pharmacy-SIRO (December 2007)
- Attended seminar on How to get Global? Passport & Other travel Documentation organized by B.R.Nahata College of Pharmacy-SIRO (August 2007)

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## PUBLICATIONS

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### ARTICLES

- **Satish Manchanda**, P.K. Sahoo. “Fabrication & characterization of mucoadhesive topical nanoformulations of Dorzolamide HCl for ocular hypertension”. *Journal of Pharmaceutical Investigation*. 2017.
- **Satish Manchanda**, P.K. Sahoo. “Topical Delivery of acetazolamide by encapsulating in Mucoadhesive nanoparticles.” *Asian Journal of Pharmaceutical Sciences*. 2017, 12(6):550-557.
- **Satish Manchanda**, P.K. Sahoo, Dipak K Majumdar. “Mucoadhesive Chitosan- Dextran Sulphate Nanoparticles of Acetazolamide for Ocular hypertension”. *Nanotechnology Reviews*.2016, 5(5):445-453.
- **Satish Manchanda**, P.K. Sahoo, Dipak K Majumdar. “Effect of formulation factors on transcorneal permeation of Acetazolamide from aqueous drops: in-vitro & in-vivo study.” *Asian Journal of Pharmaceutics*.2016. **Accepted**.
- **Satish Manchanda**, P.K. Sahoo, Dipak K Majumdar. “RP-HPLC method development and validation for the estimation of Acetazolamide in bulk drug and formulations with forced degradation studies”. *Der Pharmacia Lettre*. 2016, 8 (1):338-347.
- Amit Arya, Dharam Pal Pathak, Dipak K. Majumdar, **Satish Manchanda**. “Methacrylic acid-co-butylmethacrylate copolymers: design, characterization and evaluation as encapsulating material for colon targeted formulations.” *Designed Monomers and Polymers*. 19(1) 2016; 34-46
- Ishpreet Kaur, Sharad Wakode, Harsharan Pal Singh, **Satish Manachanda**. “Development and Validation of a Stability-Indicating Reverse Phase HPLC-PDA Method for Determination of Canagliflozin in Bulk and Pharmaceutical Dosage Form. *Pharm Methods*. 2016; 7(1): 1-9
- Written the E-text for UGC E-pathshala on the topic “*Characterization, applications & recent advancement in Nanoparticles*” (2015-2016)

### BOOK CHAPTERS

- *Poly(vinylpyrrolidone)*. Engineering of Biomaterials for Drug Delivery Systems: Beyond Polyethylene Glycol (Elsevier, Book Publication Due Feb 2018)

### POSTER PRESENTATION (INTERNATIONAL)

- Presented poster in PSWC 2010 Congress for Students and Postdoctoral Fellows meeting and the 2010 FIP PSWC/AAPS Annual Meeting & Exposition in **New Orleans, USA** titled **“Effect Of HPMC On The Solubility Of Poorly Water Soluble Drug Tinidazole”**
- Presented poster in AAPS 2009 Annual Meet & Exposition, **LA, CA, USA** titled **“Solubility Enhancement of Progesterone by Solid Dispersion Approach”**

### POSTER PRESENTATION (NATIONAL)

- Poster presentation in **“Pharmaceutical Analysis & Quality Assurance”** section in 60th IPC 2008, New Delhi, India titled **“Validated method development for Nebivolol Hydrochloride by RP-HPLC”**

### VIDEO LECTURES

- Recorded a video lecture on the topic **“Characterization, applications & recent advancement in Nanoparticles”** (2015-2016) which is available on the official website of UGC under UGC e-pathshala for PG courses under the subject Novel Drug Delivery systems II.
- Recorded a video lecture on the topic **“Characterization & applications of liposomes”** (2015-2016) which is available on the official website of UGC under UGC e-pathshala for PG courses under the subject Novel Drug Delivery systems II.
- Recorded a video lecture on the topic **“Characterization of Microspheres”** (2015-2016) which is available on the official website of UGC under UGC e-pathshala for PG courses under the subject Novel Drug Delivery systems II.

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### ACHIEVEMENTS/EXTRA CURRICULAR ACTIVITIES

- Served as **member Organising Committee** at AICTE Sponsored XVII, XVIII, XIX, XX, XXI QIP held At DIPSAR
- Attended & served as **volunteer** in 65<sup>th</sup> IPC held at Amity University, Noida. (December 2013)
- Served as GPAT representative to conduct the GPAT 2011 at Govt. Polytechnique Pithuwala Dehradun.
- **Rank holder** in Diploma in Pharmacy at MSIPT, Janakpuri Delhi. (2003)
- Runner up team prize for Volley Ball (Staff), on Sports Day at DIPSAR (2012-2013)
- **1<sup>st</sup> prize for Carom Doubles March 2010 as Faculty Pharmacy, Sunderdeep Group of institutions Ghaziabad.**
- **Prize** for Group dance in Sangam 2009, B.R.Nahata College of Pharmacy, Mandsaur Pharmaceutical Society
- **Represented** the College in MR. & MS. Smriti Sansthan Inter College Competition, Sangam 2009, B.R.Nahata College of Pharmacy, Mandsaur Pharmaceutical Society
- **1<sup>st</sup> prize** for Traditional Ramp in Inter college competition, Sangam 2008 B.R.Nahata College of Pharmacy, Mandsaur Pharmaceutical Society
- Earned a certificate from **Helpage India** for Social Services in 1998

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### PERSONAL DOSSIER

**Date of Birth:** 13th July 1984;

**Languages Known:** English, Hindi;

**References:** Available on request