

## CURRICULUM-VITAE

### **PRABHAT KUMAR SHRIVASTAVA**

Senior Research Fellow,  
Department of Pharmaceutics,  
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Banaras Hindu University,  
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### **CAREER OBJECTIVE**

To make life challenging and to achieve newer things in the world of Pharmaceuticals.

### **RESEARCH EXPERIENCE**

Research trainee officer in Research and Development Centre, **Lupin Research Park** (Lupin Limited), Pune from 27 Sep. 2005 to 21 Sep. 2006.

### **JOB PROFILE IN RESEARCH**

- Developed methods for assay, dissolution and related substances.
- Validated methods for assay, dissolution and related substances.
- Conducted stability studies at different temperature, packaging, ICH guidelines or as per regulatory requirements and stability data compilation.
- Conducted various type of bioequivalence studies invitro and matching them with innovators.
- Conducted impurity profiling based on HPLC technique.
- Writing of method development and method qualification report.

### **ACADEMIC QUALIFICATION**

- **Doctor of Philosophy** - Pursuing from Department of Pharmaceutics, Institute of Technology, Banaras Hindu University, Varanasi, U.P., India as a Senior Research Fellow (UGC).(session-2006) .
- **Master of Pharmacy** - School of Pharmaceutical Sciences [University Technical Department], Rajiv Gandhi Technical University, Bhopal [M.P.] with **72.79 %** (session 2003-05) .
- **Bachelor of Pharmacy** – V. N. S. Institute of Pharmacy, Bhopal, Rajiv Gandhi Technical University, Bhopal [M.P.] with **72.70%** (session 1998-03).

- Distance Learning Certificate Course successfully completed on “**General Course on Intellectual Property**” World Intellectual Property Organization (WIPO) Worldwide Academy from Feb 1 to March 15, 2007.

## RESEARCH PROJECT WORK

### Ph.D.

- Preparation and Characterization of Some Polymeric Drug Conjugates for Colon Specific Drug Delivery to Treat Colorectal Cancer.

### M. PHARM.

- **Major Project** on HPLC Method Development and Validation of different combined dosage form.
- **Minor Project** on HPLC Method Development and Alkaline Hydrolysis of Pioglitazone Hydrochloride.

### B. PHARM.

- “COMBINATORIAL CHEMISTRY”-A Newer Approach for Development of Lead Molecule.

## TECHNICAL EXPOSURE

- Industrial training in **Q.A., Q.C., Parenteral, and Oral Plants** of Lupin Limited, Mandideep, Distt. Raisen, [M.P.] and **R&D Department** of IPCA Laboratories Limited, Ratlam [M.P.]
- Technical Training Programme on “**Advance Instrumental Training**”, “**Drug Formulation and Testing**” and “**Extraction of Aromatic Oils and Separation**” at Central Laboratory Facility, M.P. Council of Science & Technology, Bhopal [M.P.]
- Training Programme on “**Cultivation and Processing of Aromatic Medicinal Plants**” at CEDMAP [M.P.]
- Training Programme on “**Basic of Chromatography**” by LC-GC Chromatography Solution (P) Ltd, Mumbai at Lupin Research Park, Pune.
- Short term training Programme on “**Basic of Computer C++**” organized by Computer Centre, Banaras Hindu University, Varanasi from 1 to 6 Sep. 2008.

## INSTRUMENTAL EXPOSURE

- High Performance Liquid Chromatography (Shimadzu LC-10 ATVP with PDA Detector, Dionex Liquid Chromatograph, Agilent 1100 Series, Waters 2695 with

Empower software, Waters 486 with Mellennium software), Cecil-CE-4900-Power stream chromatography system.

- UV-VIS Spectrophotometer (Shimadzu -1700, Cary 50 Conc- Varian)
- FT-IR (Jasco-470 plus, Shimadzu-1400)

## PUBLICATIONS

### International:

1. Review article on **“2-(4-aminophenyl) benzothiazole : A Potent and Selective Pharmacophore with Novel Mechanistic Action Towards Various Tumor Celllines”** Raghendra Dubey, Prabhat K. Shrivastava, Pawan K. Basniwal, Snehen du Battacharya and Narayana S. Harinarayan Moorthy published in *Minireviews in Medicinal Chemistry (Bentham Science Publisher Ltd.)*, 2006, Vol.6, No.1, 109-120. **Impact Factor-3.060**
2. Research article on **“Hydrolytic degradation profile and RP-HPLC estimation of Racecadotril”** P. K. Basniwal, P. K. Shrivastava, S K Jain and Deepti Jain published online on 8 August 2008 in *Chromatographia, Springer Link*. DOI: 10.1365/s10337-008-0734-z. **Impact Factor-1.145**
3. Research article on **“Derivative Spectrophotometric Methods Development for Estimation of Ezetimibe”** P.K. Shrivastava, P.K. Basniwal, R. Dubey, Preeti Nagar, Deepti Jain published in *Asian Journal of Chemistry*, Jan-March, 2006, Vol.18, No.4, 3123-3125. **Impact Factor-0.292**
4. Research article on **“RP- HPLC Method for Estimation of Pioglitazone Hydrochloride in Tablet Formulation”** Prabhat K. Shrivastava, Pawan K. Basniwal, Deepti Jain, Sushant K. Shrivastava published in *Asian Journal of Pharmaceutics*. Oct-Dec 2006, 1, 55-59.
5. Research article on **“Alkaline hydrolysis of pioglitazone hydrochloride by RP-HPLC: Stress stability study”** Prabhat K. Shrivastava, Pawan K. Basniwal, Deepti Jain, Sushant K. Shrivastava published in *Acta Pharmaceutica scientia*, Vol. 50, No. 1, 2008, 41-46.
6. Research article on **“Spectrophotometric estimation of pioglitazone hydrochloride in tablet dosage form ”** Pawan K. Basniwal, Prabhat K. Shrivastava, Deepti Jain, published in *Asian Journal of Pharmaceutics*. Oct-Dec 2008, 225-227.

7. Research article on **“Dextran Flurbiprofen and Suprofen Conjugates: Synthesis, Characterization and Biological Evaluation”** Sushant K. Shrivastava, Prabhat K. Shrivastava, D.K. Jain, Piyush Trivedi Accepted in *Tropical Journal of Pharmaceutical Research* June 2009; 8 (3): 221-229
8. Research article on **“In-vitro Release and Pharmacological Study of Synthesized Valproic Acid-Dextran Conjugate.”** Prabhat K. Shrivastava, B.Praveen, Sushant K. Shrivastava published in *Acta Pharmaceutica scientia*, Sep. 2009, 51:169-176.

#### **National**

1. Review article on **“Supercritical Fluid Extraction : A New Milestone in Extraction Technology”** P.K. Basniwal, P.K. Shrivastava, R. Dubey, Deepti Jain published in *Indian Journal of Pharmaceutical Sciences*, Oct- Nov, 2005, 67(5), 532-539.
2. Research article on **“Hydrolytic Degradation Profile and RP-HPLC Estimation of Cilostazol in Tablet Dosage Form”** Pawan K. Basniwal, Prabhat K. Shrivastava, Deepti Jain published in *Indian Journal of Pharmaceutical Sciences*, March-April 2008, 70 (2), 221-223.
3. Research article on **“Simultaneous Estimation of Atorvastatin Calcium and Aspirin in Capsule Dosage Form by Validated RP-HPLC Method”** Shrivastava PK; Basniwal PK; Saxena V; Jain Deepti; Shrivastava SK Published in *Journal of Pharmaceutical Research*, April, 2007, Vol.6, No.2, 126-128.
4. Research article on **“Concurrent estimation of Clopidogrel Bisulfate and Aspirin tablets by validated RP-HPLC method”** Prabhat K. Shrivastava, Pawan K. Basniwal, Deepti Jain, Sushant K. Shrivastava published in *Indian Journal of Pharmaceutical Sciences*, Sep-Oct 2008, 70(5), 667-669.
5. Research article on **“Synthesis and biological evaluation of some new aryl pyrazole-3-one derivatives as potential hypoglycemic agents”** Nirupam Das, Abhilasha Verma, Prabhat Shrivastava, Sushant K. Shrivastava published in *Indian Journal Of Chemistry-B*, Oct 2008, Vol-47B (10), 1555-58. Impact Factor-0.65
6. Research article on **“Stress Stability Studies and the Estimation of Lamotrigine in Pharmaceutical Formulation by Validated RP- HPLC Method”** Prabhat K. Shrivastava and Sushant K. Shrivastava. *Indian J.Pharm. Educ. Res.* 43(2), Apr-Jun, 2009, 156-161.

7. Research article on **“Validated RP- HPLC method for estimation of ezetimibe in different tablet dosage form”** Prabhat K. Shrivastava, Pawan K. Basniwal, Sushant K. Shrivastava, Deepti Jain published in *International Journal of Pharmaceutical Science*, May-August 2009; 1(1):176-181.

## PRESENATATION IN CONFERENCES

1. Poster presentation on **“Dendrimer and dextran: carrier molecule for delivery of aceclofenac with reduces gastro-intestinal effects in 2009 AAPS National Biotechnology Conference** in Seattle, Washington, June 21-24, 2009.
2. Oral Presentation on **“Concurrent estimation of clopidogrel bisulfate and aspirin in tablet dosage from by validated RP-HPLC method (G-2)”** in **57<sup>th</sup> Indian Pharmaceutical Congress, 2005** at Hyderabad.
3. Poster presentation on **“RP-HPLC based determination for alkaline hydrolysis of pioglitazone hydrochloride (GP-24)”** in **57<sup>th</sup> Indian Pharmaceutical Congress, 2005** at Hyderabad.
4. Oral Presentation on **“Role of Biotechnology in Drug Development and Discovery”** in the All India Seminar on “Future of Humanity in Biotechnology” organised by The **Institution of Engineers [India]**, M.P. State Centre, Bhopal.
5. Poster Presentation on **“Stress stability studies of Lamotrigine by validated RP-HPLC method (F-28)”** in **59<sup>th</sup> Indian Pharmaceutical Congress, 2007** at Varanasi.
6. Poster Presentation on **“Dextran based Prodrugs of Lamotrigine- Preparation, Characterization and Biological Evaluation (B-47)”** in **59<sup>th</sup> Indian Pharmaceutical Congress, 2007** at Varanasi.
7. Poster Presentation on **“Computational Methods (*Insilico*): Advance Tool for Predicting Toxicity Screening (P-22)** in National Symposium on Recent Advance In Toxicological Studies: Molecular And Physiologiactal Aspects, MMV, BHU, Varanasi

## PUBLICATION IN CONFERENCES

1. Research article (**Abstract**) on **“RP-HPLC based determination for alkaline hydrolysis of pioglitazone hydrochloride (GP-24)”** P.K. Shrivastava, Gaurav Vadnerkar, Deepti Jain accepted in **57<sup>th</sup> Indian Pharmaceutical Congress, 2005** at Hyderabad.

2. Research article (**Abstract**) on **“Concurrent estimation of clopidogrel bisulfate and aspirin in tablet dosage form by validated RP-HPLC method (G-2)”** P.K. Shrivastava, Gaurav Vadnerkar, Deepti Jain published in 57<sup>th</sup> Indian Pharmaceutical Congress, 2005 at Hyderabad.
3. Research article (**Abstract**) on **“Quantitative estimation of etoricoxibin human plasma by RP-HPLC method (G-6)”** Gaurav Vadnerkar, P.K. Shrivastava, Deepti Jain published in 57<sup>th</sup> Indian Pharmaceutical Congress, 2005 at Hyderabad.
4. Research article (**Abstract**) on **“RP-HPLC based determination for alkaline hydrolysis of pioglitazone hydrochloride (101)”** D. Jain, P. Shrivastava, Gaurav Vadnerkar and S. Jain accepted in British Pharmaceutical Conference, 2006 at Manchester and published in Journal of Pharmacy and Pharmacology supplement –I, 2008, A-38 .
5. Research article (**Abstract**) on **“Hydrolytic Degradation and RP-HPLC Estimation of Raccadotril in Capsule Dosage Form”** Pawan K. Basniwal, Vinesh Kumar, P.K. Shrivastava, S.K. Shrivastava and Deepti Jain published in 2nd International Conferences on Pharmaceutical Sciences Technology and Practices, Feb 2007 at ooty.
6. Research article (**Abstract**) on **“Method development and forced degradation stability studies of lamotrigine by RP-HPLC”** P.K. Shrivastava, S.K. Shrivastava, published in 9<sup>th</sup> Commonwealth Pharmaceutical Association and Malaysian Pharmaceutical Society Conference 2007 at Kuala-Lumpur, Malaysia.
7. Research article (**Abstract**) on **“Validated spectrophotometric and RP-HPLC methods for estimation of ezetimibe in tablet dosage form”** P.K. Shrivastava, S.K. Shrivastava, Pawan K. Basniwal, Deepti Jain published in 9<sup>th</sup> Commonwealth Pharmaceutical Association and Malaysian Pharmaceutical Society Conference 2007 at Kuala-Lumpur, Malaysia.
8. Research article (**Abstract**) on **“Dextran macromolecule- successful carrier for delivery of Indomethacin”** S. Patra, P.K. Shrivastava, S.K. Shrivastava published in 9<sup>th</sup> Commonwealth Pharmaceutical Association and Malaysian Pharmaceutical Society Conference 2007 at Kuala-Lumpur, Malaysia.
9. Research article (**Abstract**) on **“Hydrolytic degradation profile of ezetimibe in bulk drug”** P.K. Basniwal, R. Gupta, V. Kumar, P.K. Shrivastava, S.K. Shrivastava, D Jain published in 9<sup>th</sup> Commonwealth Pharmaceutical Association and Malaysian Pharmaceutical Society Conference 2007 at Kuala-Lumpur, Malaysia.
10. Research article (**Abstract**) on **“Stress stability studies of Lamotrigine by validated RP-HPLC method. (F-28)”** Prabhat K. Shrivastava, Sushant. K. Shrivastava, G.K. Singh published in 59<sup>th</sup> Indian Pharmaceutical Congress, 2007 at Varanasi.
11. Research article (**Abstract**) on **“Dextran based Prodrugs of Lamotrigine- Preparation, Characterization and Biological Evaluation (B-47)”** Sushant K. Shrivastava, R.S. Srivastava, Pugazhendhy S, Prabhat K. Shrivastava, Nirupam Das,

- Anjanayulu Putta, G.Srivastava, Abhilasha Verma. published in 59<sup>th</sup> Indian Pharmaceutical Congress, 2007 at Varanasi.
12. Research article (**Abstract**) on **“Synthesis and biological evaluation of some new aryl pyrazole-3-one derivatives as potential hypoglycemic agents. (B-43)”** Abhilasha Verma, Nirupam Das, S.Pugazhendhy, **Prabhat Shrivastava**, Sushant K. Shrivastava published in 59<sup>th</sup> Indian Pharmaceutical Congress, 2007 at Varanasi.
  13. Research article (**Abstract**) on **“Synthesis, characterization, in-vitro hydrolysis and biological evaluation of amino acid methyl ester conjugates of valproic acid: a prodrug approach (45)”** S. K. Shivastava, P.K Shivastava, B. Praveen accepted in British Pharmaceutical Conference, 2008 at Manchester and published in Journal of Pharmacy and Pharmacology suppliment –I, 2008, A-19.
  14. Research article (**Abstract**) on **Preparation, Characterization and Biological Evaluation of Lamotrigine- Dextran Conjugate.** S. K. Shrivastava, P. K. Shrivastava, S. Pugazhendhy, accepted in 2008 AAPS Annual Meeting and Exposition, at Atlanta, GA and published in AAPS abstract suppliment.
  15. Research article (**Abstract**) on **Quantitative Estimation of Lamotrigine Stress Degradation Products Using Validated RP-HPLC Method.** S. K. Shrivastava, P. K. Shrivastava accepted in 2008 AAPS Annual Meeting and Exposition, at Atlanta, GA and published in AAPS abstract suppliment.
  16. Research article (**Abstract**) on **Design, Synthesis and In-Vitro Evaluation of Gabapentin-Dextran Polymeric Prodrug.** S. K. Shrivastava, P. K. Shrivastava, B. Praveen accepted in 2008 AAPS Annual Meeting and Exposition, at Atlanta, GA and published in AAPS abstract suppliment.

## CONFERENCES AND SEMINARS ATTENDED

- Attended 2009 **AAPS National Biotechnology Conference in Seattle**, Washington, USA June 21-24, 2009.
- All India Seminar on “Future of Humanity in Biotechnology” Institution of Engineers [India], M.P. State Centre, 2004, Bhopal.
- 57<sup>th</sup> Indian Pharmaceutical Congress, 2005 at Hyderabad.
- Workshop on “Academic writing for research scholar” organized by Deptt of Applied Mathematics, Institute of Technology, BHU from 6 to 10 June 2007.
- 59<sup>th</sup> Indian Pharmaceutical Congress, 2007 at Varanasi.
- National symposium on recent advance in toxicological studies: molecular and physiological aspects, BHU, 2007, Varanasi
- 60<sup>th</sup> Indian Pharmaceutical Congress, 2008 at New Delhi.
- 1<sup>st</sup> Science Conclave-15-21 Dec, 2008- A Congregation of Novel Laureates at IIIT-Allahabad, India.

- Seminar cum workshop on “Emerging trends in drug design and molecular modeling” at Deptt of Pharmaceutics, Institute of Technology, BHU from 1 to 3<sup>rd</sup> April 2009

## COMMUNICATED PAPERS

- Prabhat K. Shrivastava, Pawan K. Basniwal, Deepti Jain, Sushant K. Shrivastava. “**Validated RP-HPLC method for estimation of ezetimibe in different tablet dosage form**” communicated in *Indian Journal of Pharmaceutical Education and Research* (Oct 2006).
- Abhilasha Verma, Nirupam Das, Prabhat Shrivastava & Sushant K. Shrivastava “**Synthesis and evaluation of N-(5-phenylthiazol-2-yl) amide derivative of conventional NSAIDs with reduced ulcerogenicity**” in *Indian Journal Of Chemistry-B*.

## HONORS & AWARDS

- Recipient of the **AAPS Drug Design and Discovery** Section travelship award to attend the **2009 AAPS National Biotechnology Conference**, Seattle, Washington, June 21-24, 2009
- Poster Presentation Research article on “**RP-HPLC based determination for alkaline hydrolysis of pioglitazone hydrochloride (GP-24)**” P.K. Shrivastava, Gaurav Vadnerkar, Deepti Jain awarded **Best Poster (first prize)** in **57<sup>th</sup> Indian Pharmaceutical Congress, 2005** at Hyderabad.
- Qualified **GATE** [Graduate Aptitude Test for Engineering] with a score of **90.98 percentile**, conducted by Indian Institute of technology [IIT] Madras [Chennai]
- Award of **Junior Research Fellowship** from AICTE New Delhi for Master of Pharmacy.
- Award of **Senior Research Fellowship** UGC from Banaras Hindu University for Doctor of Philosophy.

## PROFESSIONAL AFFILIATIONS

- Life Membership of Indian Pharmaceutical Graduate Association (**LM-3257**).
- American Association of Pharmaceutical Scientists **Student Membership ID-186350**
- Ordinary Member of Indian Pharmaceutical Association (**UP/VAR/OM/0240**)
- Life Membership of Pharmaceutical Society, Department of Pharmaceutics, IT-BHU, Varanasi.
- Co-editor of Bi-monthly magazine “**Pharma-fenzine**” - A official publication of Pharmaceutical Society, Department of Pharmaceutics, IT-BHU, Varanasi.
- Registered Pharmacist in State Pharmacy Council [M.P.]

## SKILLS AND STRENGTH

- Hands on **Analytical Method Development, Validation, Stability, Degradation Study, Impurity Profile, Dissolution profile determination by HPLC, Moisture contents determination, Pharmaceutical equivalence study of varrious drugs**, CGMP, MCC, MHRA, USFDA, Revised Schedule M & WHO Geneva guidelines.
- Knowledge of WINDOW-2000, Excel, MS Office, Chem ultra, Chem finder, ISIS draw.
- Active Member of **Local Organizing, Souvenir Publication, Hospitality &Catering and Entertainment Committee in 59<sup>th</sup> Indian Pharmaceutical Congress-2007** held in Department of Pharmaceutics, IT-BHU, Varanasi, U.P.
- Co-ordinator of the Hospitality committee **“SPARDHA 09”**- The All India Sport Festival of Institute of Technology, BHU, Varanasi, U.P.

## AREA OF INTEREST

- Reading Journals and Newspaper, Singing, Internet Surfing, and entertainment with Friends.

## PERSONAL PROFILE

Date of Birth : 12 Oct.1980  
Father's Name : Shri T.N. Shrivastava  
Mother's Name : Smt. Nirmla Shrivastava  
Marital Status : Single  
Language known : English, Hindi  
Permanent Address : 7/117, Near Ganga Sadhan, Saket Nagar, Ganj-Basoda  
Distt- Vidisha, (M.P.),  
**Contact No. +9194256-14972,+9194256-14971**

## REFERENCES

1. **Dr. R.S.Srivastava**  
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Department of Pharmaceutics, Institute of Technology,  
Banaras Hindu University, Varanasi, U.P., India-221 005  
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Email address- [rssitbhu@yahoo.com](mailto:rssitbhu@yahoo.com)
2. **Dr. S.K. Shrivastava**  
Reader (Pharmaceutical Chemistry)  
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I here declare that the above information is true to the best of my belief.

DATE :

**[PRABHAT K. SHRIVASTAVA]**

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