

# Amit Girish Mirani

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## Work Address

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### **Objective:**

To build my career, on the foundation of research specializing in new drug formulation for treatment of infectious disease.

### **Expertise:**

- Design, execute, and interpret formulation and process development experiments as per the QbD.
- Performed technology transfer of scale-up and submission batches at production sites and outside contract manufacturers.
- Trained on equipments like Rotary Tableting Machine, Manual Capsule Filler, Encapsulator, Co-Mill, High Shear Granulator, Fluid Bed Processor, Spray dryer, Supercritical Fluid Extraction, Texture Analyzer, Zeta Seizer, High Pressure Homogenizer, High Performance Liquid Chromatography, UV, Differential Scanning Colorimetry (DSC) and FTIR.
- Expertise in Design Expert Software for Statistical Optimization.

**Area of Interest:** Colloidal drug delivery system, Herbal Nanotechnology, Infectious Diseases, Device Fabrication

### **Research Experience:**

**(Jan 2013-Current)**

#### **Senior Research Fellow (DBT-ICMR)**

Department of Pharmaceutical Science & Technology  
Institute of Chemical Technology, Matunga

**Currently working on "Green Technology Assisted Nanomicrobicide Formulation for Prophylaxis of HIV/AIDS"**

### **Professional Experience:**

#### **Research Associate**

**2.2 years (Oct 2010-Dec 2012)**

Alkem Research Laboratories, Mumbai  
Formulation Development (Regulatory Market)

#### **Work Performed:**

- Design, execute, and interpret formulation and process development experiments leading to the development and optimization of various oral pharmaceutical dosage forms.
- Worked on Formulation operations like Coating, Fluid Bed Processor, High Shear Granulator and Rotary Tablet Press.
- Prepared Licenses, Protocols and Scale-Up and Manufacturing reports.
- Performed technology transfer of scale-up and submission batches to production sites and outside contract manufacturers.
- Experienced in collaborating with cross-functional groups (Analytical Development, Process Development, QC, QA, Clinical)
- Performed formulation and process development studies like optimization of formulation to increase bioavailability, formulation stability and dissolution studies.

### **Research Experience:**

**2 years (Sep 2008 to Sep 2010)**

#### **Junior Research Fellow (UGC)**

Bharati Vidyapeeth's College of Pharmacy,  
Navi-Mumbai

#### **Work Performed:**

- Theoretical modeling of drug release profile for sustained release gastro-retentive formulation.
- Theoretical drug blood level for sustained release gastro-retentive formulation
- Application of Full factorial design for optimization of sustained release gastro-retentive formulation.

### Educational Background:

- **M.Pharm (Pharmaceutics) [Year 2008-2010] (With 60%)**  
Bharati Vidyapeeth College of Pharmacy, Navi Mumbai  
University of Mumbai
- **B. Pharm [Year 2005-2008] with 60%**  
N.D.M.V.P's College of Pharmacy, Nasik,  
University of Pune
- **D. Pharm [Year 2003-2005] with 86.4%**  
S.L.M.I.O.P, College of Pharmacy, Amgaon,  
MSBTE Board, Mumbai

### **Achievements/Honors:**

- Second Prize for Poster Presentation at 6<sup>th</sup> International Annual Conference on “**Innovation in 21<sup>st</sup> Century: Clinical Pharmacology in Current & Future Environment**” dated 21-22<sup>nd</sup> April 2013, organized by South Asian Chapter of American College of Clinical Pharmacology.
- First Prize for Poster Presentation at International Conference on “**Pharmacognosy, Phytochemistry & Natural Product**” dated 21<sup>st</sup>-23<sup>rd</sup> Oct 2013, organized by Omics group of Conferences.
- Selected among Top 20 team across the country for participating in BEST ABLE workshop held at Bangalore, India 2013
- **Gold Medalist, Felicitated by Vice-President of India**, for 1<sup>st</sup> rank in Vidharbha in Diploma in Pharmacy.
- **Winner at “YOUNG INNOVATOR’S CHOICE COMPETITION-2009”** held at Institute of Chemical Technology, Deemed University, Mumbai (Organized at National level, **For RUBICON Sponsored Problem**).
- Qualified “WORLD INTELLECTUAL PROPERTIES ORGANIZATION” (WIPO) online exam through distance learning.(2009)
- GATE 2008 (IISc.) 96.29 percentile with All India rank 999.

### **Paper Publications:**

#### **Review Article:**

- Mirani A.G., Patankar S.P., et al., Direct Compression high functionality excipient using coprocessing technique: A Brief Review”. Current Drug Delivery, 8(4), 426-235, 2011.

#### **Poster Presentation:**

- Poster Presentation at National Conference on “Software in Drug Discovery and Development” **on Design Expert: An Integral Statistical Tool for Design of Experimentation**”, dated 21<sup>st</sup> - 22<sup>nd</sup> Jan 2013, organized by TKCP at Warnanagar.
- Poster Presentation at International Conference on “**Pharmacognosy, Phytochemistry & Natural Products**” dated 21<sup>st</sup> – 23<sup>rd</sup> Oct 2012, organized by Omics Group of Conferences at Hyderabad.
- Poster Presentation at 6<sup>th</sup> International Annual Conference on “**Innovation in 21<sup>st</sup> Century: Clinical Pharmacology in Current & Future Environment**” dated 21-22<sup>nd</sup> April 2013, organized by South Asian Chapter of American College of Clinical Pharmacology.
- Poster Presentation at 11<sup>th</sup> International Symposium on “**Advances in Technology and Business Potential of New Drug Delivery Systems**” dated 16<sup>th</sup> &17<sup>th</sup> February 2011, organized by CRS at Mumbai