

To,

**The Director,**

Dr. Babasaheb Ambedkar Research & Training Institute  
28 Queens Garden, Near Old Circuit House, Pune-410011

Dear Sir,

I Mr. Amit Sanjay Lokhande, PhD tech Student of ICT, Mumbai, under Chhatrapati Shahu National Research Fellowship (CSNRF) awarded by BARTI, Pune. My research topic is “Nanocarrier based Drug Delivery Systems for Tuberculosis” under supervision of Prof. (Mrs.) Padma V. Devarajan. I believe that “Achievements are something which you build over a platform and for me that platform is BARTI, Pune, who offered me CSNRF Fellowship”. I am thankful to BARTI for not only granting me an opportunity to work for PhD, but also for the valuable support and guidance from the staff of Research Department – 1 strengthened me to focus on all that I ever wanted to achieve.

The fellowship has played a key role in attaining my educational dreams. Because of the timely disbursement of the fellowship I am able to concentrate more on my research without any other worries.

Thank you for all your support and making students like me to achieve their dreams of higher education.

Sincerely,

Amit Sanjay Lokhande



# Mr. Amit Sanjay Lokhande

PhD Tech. Research Student (Pharmaceutics)

Department of Pharmaceutical Sciences and Technology

Institute of Chemical Technology (Formerly UDCT), ICT, Matunga (E), Mumbai-400019

CSNRF Fellow (A.Y. 2015-2016)

## Achievements as a CSNRF Fellow

Given below are my achievements:

1) Featured in **Maharashtra Times News Paper** on National Science Day as “Vidnyan Veer” for development of Phosphorous diagnostic kit in cattle (28<sup>th</sup> Feb 2018)



2) Received **Expert Mentor Award** as **Parshuram Bajee Agashe Vidnyan Sanshodhan Puraskar 2017** as **First prize amongst 70 projects all over Maharashtra, Goa, Gujarat & Karnataka States** for Mentored Research Project titled as “Point of Care Simple Serum Phosphorous Detection Kit in Cattle” from Marathi Vidnyan Parishad (MaViPa) for this going to be felicitated on 29<sup>th</sup> April 2018.

## Travel Awards

- Awarded **Shri G. M. Abhyankar Students' Travel Assistance Award-2017**, for attending NanoSciTech-2017 Chandigarh conference & presenting a research poster titled, “Single

Step Co-Encapsulation of Microparticles with Three Anti-Tubercular Drug Combination by QbD Approach”, on 8<sup>th</sup> to 10<sup>th</sup> November 2017, at Punjab University Campus, Chandigarh, India.

### Special Awards for Innovation and Entrepreneurship

- **Awarded 1<sup>st</sup> Prize of Rs.50 thousand and certificate amongst 10 best nano innovations selected all over India, in Nano SparX competition-2017** as team of Three namely, Saugandha Das, Darsheen Kotak, **Amit S. Lokhande**, for a Nano Innovation titled, “Insta Nano of Primaquine Phosphate for Malarial Relapse: A Pioneering Nano Drug Delivery System”, in 9<sup>th</sup> Bengaluru India Nano event, organized by Karnataka Science & Technology Promotion Society (KSTePS), DST-Nano Mission in association with Jawaharlal Nehru Centre for Advanced Scientific Research Centre (JNCASR) Bangalore, on **8<sup>th</sup> December 2017**, at The Lalit Ashok, Bangalore, India.



- **Awarded 2<sup>nd</sup> Prize of Rs. 3.0 Lakhs and certificate amongst 20 best teams selected all over India from 1000 applications**, at 8<sup>th</sup> Biotechnology Entrepreneurship Student Teams (BEST)-Association of Biotechnology Lead Entrepreneurship (ABLE) Competition, organized by Department of Biotechnology Ministry of Science and Technology, Govt. of India, at Best Western Resort Country Club, Manesar, National Capital Region, India from **19<sup>th</sup> to 23<sup>rd</sup> February 2017**.

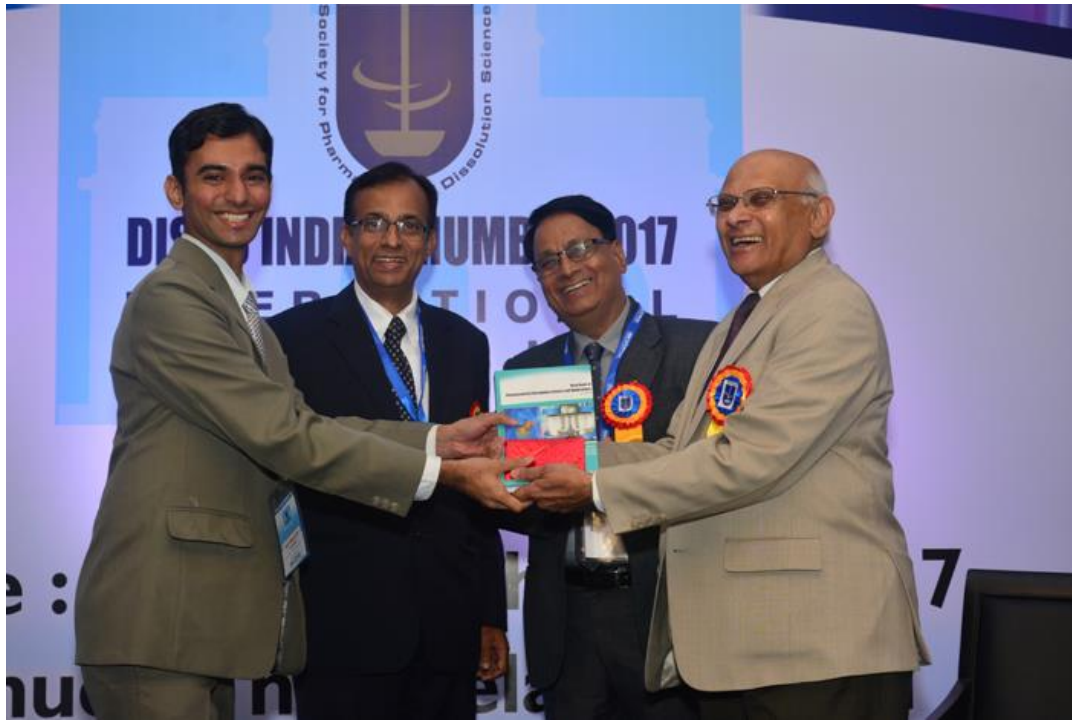


## Research Presentation Awards

- **Certificate of Recognition** amongst top ten best posters for the poster titled “Demonstrating Insulin Dissociation for Enhanced Sublingual Permeation from Microemulsion”, presented by **Amit S. Lokhande**, Arundhati Lele, Mariam Degani, Padma V. Devarajan, at World Congress on Pharmaceutical Sciences (WCPS) 2017, organized by Conference era, media partner HTO CLUB, on 5<sup>th</sup> to 7<sup>th</sup> October 2017, at Palmarinha Resort & Suites, Goa, India.



- **2<sup>nd</sup> Best Poster Prize** for the poster titled “In Vitro Release Testing of Microparticles Co-encapsulated with Anti-Tubercular Three Drug Combination”, presented by **Amit S. Lokhande**, Padma V. Devarajan, at Disso India Mumbai-an International Annual Symposium on Dissolution Science, Organized by SPDS (Society for Pharmaceutical Dissolution Science) in association with SOTAX AG, on 8<sup>th</sup> & 9<sup>th</sup> June 2017, at The Leela, Mumbai, India.



- **1<sup>st</sup> Best Poster Prize** for the Poster titled “Role of Oils on Enhanced Solubility of Curcumin in Microemulsion”, presented by Suraj K. More\*, **Amit S. Lokhande**, Padma V. Devarajan, at Savitribai Phule sponsored two days National Conference on “Opportunities and Challenges in Development of Herbal Formulation”, organized by Amrutvahini College of pharmacy, Sangamner, Ahmednagar, Maharashtra, India from 10<sup>th</sup> to 11<sup>th</sup> February 2017.
- **1<sup>st</sup> Best Poster Prize** for the Poster titled “Insulin Dissociation: Strategy for Enhanced Sublingual Permeation from Microemulsion”, presented by **Amit S. Lokhande**, Padma V. Devarajan, at 2nd National Conference of Institute of pharmacy, NCIP 2017, on “Emerging Trends in Drug Delivery, Development and Molecular Targets for Cancer Research” Organized by Nirma University, Ahmedabad & supported by SERB, DRDO and ICMR, India, from 24<sup>th</sup> to 25<sup>th</sup> January 2017 at Nirma University, Ahmedabad, Gujarat, India.



- **Best Research Poster & Travel award** for the poster titled "Simultaneous Incorporation of Multiple Drugs in Polymeric Microparticles by Precipitation in a Single Step" Presented by **Amit S. Lokhande**, Padma V. Devarajan, at "Nanobioteck-2016 - 1st Annual Meeting of Indian Society of Nanomedicine" organized jointly by DBT, Govt. of India & AIIMS, New Delhi, from 24<sup>th</sup> to 26<sup>th</sup> November, 2016 at AIIMS, New Delhi.



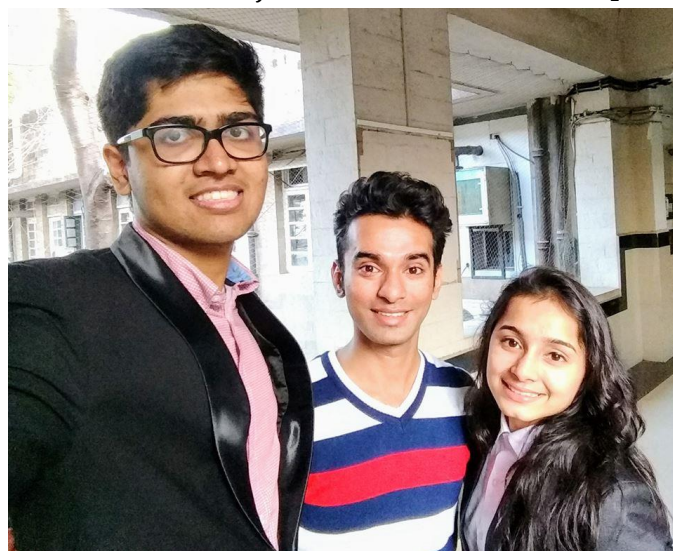
- **Dr. B. K. Bachawat award as Third prize for Poster Presentation in preclinical section** for the poster titled "Ophthalmic Azithromycin ATIS (Aqua Triggered In Situ) Gel for treatment of Bacterial Keratitis" Presented by **Amit S. Lokhande**, Rahul M. Lalge, Padma V. Devarajan, at South Asian Chapter of American College of Clinical Pharmacology 9<sup>th</sup> International Annual Conference on "Clinical Pharmacology in Maternal and Child Care" on 29<sup>th</sup> to 30<sup>th</sup> April 2016, held at Nehru Centre, Worli, Mumbai, India.



- Received **Certificate of Appreciation in Smart E: The Apprentice Challenge #3**, a National level experiential program for entrepreneurship skills development held from **18<sup>th</sup> Feb- 29<sup>th</sup> Feb 2016** by **NEN-WADHWANI Foundation** powered by First advantage in association with Rang Rage. The Challenge was to create an Innovative Commercial Ad video for 1 min (60 Sec) highlighting the USP of **RangRage** to increase their brand value and create brand awareness.

### Awards for Mentored Research

- Mentored **T. Y. B. Pharm student** (Shweta Venugopal Sabu) and **S. Y. Chem. Engg. Student** (Mr. Keith Anthony D'souza) on their summer internship project entitled, "Point of Care Simple Serum Phosphorous Detection Kit in Cattle". (**April-Dec, 2017**) [Awarded with **Parshuram Bajee Agashe Vidnyan Sanshodhan Puraskar 2017** as **First prize amongst 70 projects all over Maharashtra, Goa, Gujarat & Karnataka States**]



- Mentored **Second Year B. Pharm student** (Parth N. Kadakia) on his research internship project entitled "Ophthalmic ATIS (Aqua Triggered *In Situ*) gel of Curcumin for Diabetic Retinopathy". (**April-Dec, 2016**) [won **Dr. Bal G. Joshi Award for innovative thinking and performance at ICT, 2017**]



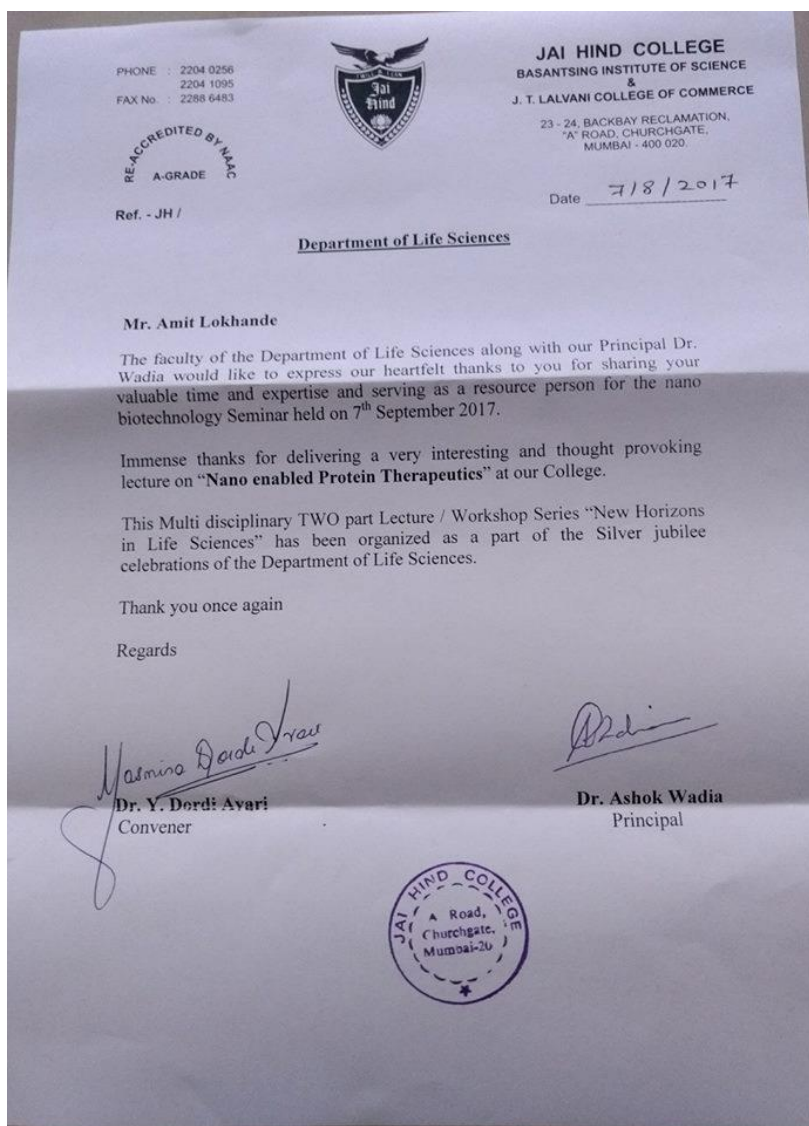
- Mentored **Final Year B. Tech Pharma student** (Rahul M. Lalge) on his research project entitled "Formulation and Evaluation of Azithromycin Ophthalmic ATIS (Aqua Triggered *In Situ*) gel for the treatment of Bacterial Keratitis". (**Jan-April, 2016**) [won **Dr. B. K. Bacchavat Award for Poster at SAC-ACCP 2016**]





### Invited Lecture Talk:

- **Invited as Resource Person & Delivered a lecture talk on topic titled, “Nano Enabled Protein Therapeutics”, organized by Department of Life Sciences, Jai Hind College, Mumbai, India, at Bharat Serum & Vaccines, Gynecworld, Shivani Scientific sponsored seminar on, “New Horizons in Life Sciences” on 7<sup>th</sup> September 2017 at Jai Hind College, Mumbai, India.**



- **Invited as Resource Person & Delivered a lecture** on topic titled, “Challenges in Protein Formulation Development”, Organized by Sinhgad College of Pharmacy (SCOP), at Savitribai Phule Pune University sponsored seminar on **Therapeutic proteins: Challenges & Opportunities**, from 6<sup>th</sup> to 7<sup>th</sup> February 2017 at Sinhgad college of pharmacy, Vadgaon Budruk, Pune, Maharashtra, India.



#### **Research Grant (Rs.6 lakhs) for Assembly Fabrication**

- **Received Research Grant (Rs. 6.0 Lakhs)** for short term research project titled “A Simple Cost Effective *In Vitro* Dissolution Assembly for Nano Drug Delivery Systems”, (Aug 2016-Dec 2017) from AICTE (All India Council of Technical Education)- TEQIP (Technical Education Quality Improvement Program) in association with SPFU (State Project Facilitation Unit), Maharashtra, India. Exhibited and Presented the assembly at INN Event



### Patents & Publications:

- 1) Application Number-201721011288 [E1/11472/2017-MUM]-Dialysis assembly for dissolution testing.
- 2) Application Number - 201621031293 [E2/2327/2016-MUM]-Point of care reagent strip for calcium level detection in biological fluids.
- 3) Book Chapter- Krantisagar More, Vinod Ipar, **Amit Lokhande**, Anisha D'souza, Padma Devarajan, Nanotherapeutics: Enabling Vitamin D3 as a Multifaceted Nutraceutical, Nanonutraceuticals 2017, Taylor & Francis. [in press]