

**Department Name** : Pharmaceutics and Pharmaceutical Technology

**Name** : Dr. Aliasgar J Kundawala

**Designation** : Associate Professor and Head of Dept.  
*Chairman*, Board of studies,  
Faculty of Pharmaceutical Sciences,  
CVMU- Vallabh Vidyanagar.



**Email ID** : [aliasgar3010@gmail.com](mailto:aliasgar3010@gmail.com)

**Qualification** : M. Pharm., Ph. D.

**Specialization** : Pharmaceutics

**Date of Joining** : 1<sup>st</sup> November 2006

**Research interest:**

- Drug delivery to lungs and brain.(Nano emulsion/ NLC/ Dry Powder Inhalers etc.)
- Nanoparticulate and Microparticulate Drug delivery systems.
- Oral Controlled Release drug delivery systems (Matrix/ Osmotic pressure controlled)
- Mouth dissolving Drug delivery systems.

**Publications:**

- Shyamala Baskaran, Toutesh G and Kundawala A, A review: Zeta potential, The Pharma Review.
- Patel MR, Parikh JR, Patel RB, Kundawala AJ, Bhatt KK.: “Microemulsion: As novel Drug delivery Vehicle”:*Pharminfo.net*
- A. J. Kundawala S. Suresh, Narendra C., D. Maheshwari. “Formulation and Evaluation of Liposomes Containing Antitubercular Drugs by Taguchi’s Orthogonal Array design” *Acta Pharmaceutica Scientia. 52: 79-88 (2010)*
- Kundawala A, Patel VA, Bhatt NV, Makwana JH, Patel HV. “*Formulation and in-vitro evaluation of Clomipramine hydrochloride sustained release tablets*”. *Indian pharmacist*, 2009,8, 63-69.
- A J Kundawala, V.A. Patel, R.S.R. Murthy and H.V.Patel, “Effect of Solvent and Non- Solvent Composition on Physical Characters of Mefloquine Hydrochloride Microspheres”. *Int. J. of Pharam. Research. 2009, 1(4), 68-73.*

- Dhagla ram choudhary, Vishnu A Patel, Harsha V Patel, Aliasgar J Kundawala, "Formulation and Evaluation of Quick Dissolving Film of Levocetirizine Dihydrochloride". *Int. J of Pharm and Tech* 2011, 3, 1740-49.
- Dhagla ram choudhary, Vishnu A Patel, Usmangani K Chhalotiya, Harsha V Patel, Aliasgar J Kundawala, "Formulation and Evaluation of quick Dissolving Film of Ondansetron hydrochloride". *Int. J of Pharm Res* 2011, 3, Issue 4, 31-35
- Dhagla choudhary, Vishnu Patel, Harsha Patel, Aliasgar Kundawala, "Exploration of Film Forming Properties of Film Formers Used in the Formulation of Rapid Dissolving Films". *Int J of Chemtech Res* ,2011,3 (2), 531-533
- Dhagla Choudhary, Vishnu Patel, Usmangani Chhalotiya, Harsha Patel, Aliasgar Kundawala. "Formulation and Evaluation of Fast Dissolving Film of Levocetirizine Dihydrochloride Using Different Grades of Methocel". *Journal of Pharmacy Research-2011,4(9),2919-2924*
- Aliasgar J. Kundawala, Vishnu A. Patel, Harsha V. Patel, Dhaglaram Choudhary. "Isoniazid loaded chitosan microspheres for pulmonary delivery: preparation and characterization". *Der Pharmacia Sinica*, 2011, 2 (5): 88-97
- Aliasgar J. Kundawala, Vishnu A. Patel, Harsha V. Patel, Dhaglaram Choudhary. "Influence of formulation components on Aerosolization properties of isoniazid loaded chitosan microspheres". *Int J Of Pharm Sci And Drug Res-* 2012, 3(4), 297-302
- Aliasgar J. Kundawala, Vishnu A. Patel, Harsha V. Patel, Dhaglaram Choudhary. "Treating tuberculosis with Chitosan microparticles loaded with rifampicin as respirable powder for pulmonary delivery". *Indian Journal of Novel Drug Delivery* 2012, 3(4):57-65.
- Aliasgar J. Kundawala, Vishnu A. Patel, Harsha V. Patel, Dhaglaram Choudhary. "Preparation Of Microparticles Containing Rifampicin As Dry Powder Formulation: In Vitro Studies On Aerosol Performance" *American J of Pharmtech and Research*, 2012, 2(4), 470-483
- Dhagla ram choudhary, Vishnu A Patel, Usmangani K Chhalotiya, Harsha V Patel, Aliasgar J Kundawala, "Natural polysaccharides as film former: a feasibility study for development of rapid dissolving films of ondansetron hydrochloride" .*Int. J. Pharm. Pharm Sci. Vol 4, Suppl 3, 2012, 78-85*
- Dhagla R Choudhary, Vishnu A Patel, usmangani k. Chhalotiya 1, Harsha V. Patel, Aliasgar J Kundawala. "Development and Characterization of Pharmacokinetic Parameters of Fast Dissolving Films Containing Levocetirizine". *Scientia Pharmaceutica*, 2012 Sep; 80 (3):779-87.
- Aliasgar J. Kundawala, Vishnu A. Patel, Harsha V. Patel, Dhaglaram Choudhary. "Preparation of Biodegradable Microspheres By Spray Drying Method For Isoniazid Pulmonary Delivery". *International Journal of Pharmacy*, 2013; 3(1): 82-90.
- R. Choudhary, Dhagla, A. Patel, Vishnu, K. Chhalotiya Usmangani, V. Patel, Harsha, J. Kundawala Aliasgar. "Comparative Pharmacokinetic Studies of Fast Dissolving Film and Oral Solution of Ondansetron in Rats". *Current Drug Delivery* 2013, 10 (6) 696-700.

- Aliasgar J. Kundawala, Vishnu A. Patel, Harsha V. Patel, Dhaglaram Choudhary. "Preparation and in-vitro /in-vivo evaluation of chitosan based microspheres as respirable slow release isoniazid formulation". *Am J Pharmtech and Res*, 3(1) 876-891.
- Aliasgar J Kundawala, Vishnu A Patel ,Harsha V. Patel Dhagla R Choudhary, "Preparation, in vitro characterization and in vivo pharmacokinetic evaluation of respirable porous microparticles containing rifampicin". *Scientia Pharmaceutica*, 82: 665-681, 2014.
- Aliasgar Kundawala, Parth Sheth, Deepak Maheshwari. "Sandwiched Osmotic tablet for controlled release of metoprolol Succinate" *J Pharm Investigation*, 2015, Vol 46 (1) 29-40
- Aliasgar J Kundawala, Pratik Patel. Solubility Enhancement of Loratadine by Solid Dispersion Techniques. *International Journal of ChemTech Research*, 2017, Vol.10 No.7, pp 207-217.
- Aliasgar Kundawala, Pratik Patel, Khushbu Chauhan, Anjali Desai, Dhvani Kapadia, Formulation And Optimization Of Orodispersible Tablet Of Loratadine Using Box Behnken Design. *Journal of Drug Delivery & Therapeutics*. 2019; 9(4-A):86-94.
- Kurtkoti SK, Kundawala AJ. Formulation and development of pantothenic acid grafted solid lipid nanoparticle for site specific drug delivery of chloroquine: a preliminary investigation. *International Journal of Pharmaceutical Sciences and Nanotechnology*. 2000, 13 (5) 5138-5147. Doi.org/10.37285/ijpsn.2020.12.5.11

#### **Awards & Honours:**

- Awarded 2<sup>nd</sup> Prize (co-Author) for Oral Presentation at international conference entitled "Development and characterization of spray dried dry powder inhaler containing Posaconazole in treatment of Chronic Aspergilosis" in "Healthcare management of respiratory diseases by physician and Pharmacist" organized by Department of Pharmacy, Sumandeep Vidyapeeth, Vadodara on 6-7 December 2019 held at Sumandeep University.
- Awarded 2<sup>nd</sup> Prize (co-Author) for Poster presentation for poster entitled "Aptamer Based Targeted Drug Delivery Systems" at Pharmavision 2019, held at Ramanbhai Patel college of Pharmacy, Changa.
- Won 1st Prize (co-Author) in Poster Presentation at 5th International Conference for "Dry Powder Inhaler For Pulmonary Delivery of Antifungal Drug: Preparation And Characterization", Advance in Topical Drug Delivery: Global perspective and contribution of Indian Academic Research" held at Shree Dhanvantary Pharmacy Collge, Kim Surat on 11<sup>th</sup> May 2017.
- Received 2<sup>nd</sup> prize (co-Author) in poster presentation on "Comparative evaluation of cryoprotectant on lyophilized respirable liposomes containing rifabutin" at International conference held Parul University, Vadodara on 4-5 march 2016.
- Received 2<sup>nd</sup> prize (co-Author) in poster presentation for poster entitled "Preparation and evaluation of TPP cross linked porous microparticles for pulmonary delivery of rifampicin" Two days National Seminar -A meet on recent advances in

pharmaceutical sciences held at Dept of pharmacy, Sumandeep Vidyapeeth. Vadodara on 22-23 February-2013.

- Received 2<sup>nd</sup> prize in poster presentation for poster entitled “In vitro and in vivo evaluation of respirable porous microparticles containing rifampicin for pulmonary drug delivery” organized by Vidya Bharti Trust College of Pharmacy & sponsored by GUJCOST, held at Umarakh. Surat, 21<sup>st</sup> September, 2013,
- Received 2<sup>nd</sup> prize (co-Author) in poster presentation for poster entitled “Preparation and evaluation of liposomes containing Rifabutin” in Gujcost sponsored, Two days national seminar on Global scenario and research strategies in oral inhalation drug delivery system” Indukaka Ipcowala College of Pharmacy, New Vallabh Vidyanagar. Gujarat, on 7-8<sup>th</sup> February 2014.
- Received 1<sup>st</sup> prize (co-Author) in poster presentation for poster entitled “Preparation and characterization of buccal sustained release tablet containing ketorolac” 14-15 March 2014 under GTU Techfest-2014 and organized by BITS campus, Vernama, Vadodara.

## **ACHIEVEMENTS**

### **Funded Research Project:**

- Gujcost sponsored *Minor Research Project* of Rs 4.25 lacs. “Nanoemulsion based Drug delivery system for lipophilic psychotropic compound: development, characterization and Cytotoxicity study”.

### **Events organized and Co-ordinated:**

- Organized two Days GUJCOST Sponsored conference on “Global scenario and research strategies in oral inhalation drug delivery system” held at Indukaka Ipcowala College of Pharmacy, on 7-8th February 2014.
- Organized One Day GUJCOST Sponsored “QBD approach in tablet formulations” at Indukaka Ipcowala college of Pharmacy, on 9<sup>th</sup> Feb 2018.
- Organized One Day GUJCOST Sponsored National seminar on “Intelligent drug delivery systems: the Game changers in Therapeutics” at Indukaka Ipcowala college of Pharmacy, 9<sup>th</sup> March 2019.

### **Seminar/ Conference/ Workshop/ Refresher course:**

- ❖ “Environmental Management in Pharmaceutical Industry”, sponsored by AICTE, Al-Ameen college of Pharmacy, Bangalore, on 27<sup>th</sup> May 2004.
- ❖ “Research methodology, biostatistics and Ethical aspect of research”, sponsored by RGUHS, Rajiv Gandhi University of Health and Sciences, Bangalore, 25 – 26 August 2004.
- ❖ “Science of Scientific Writing”, sponsored by American Association of Government college of Pharmacy (Bangalore) Alumni, New York, USA, 4<sup>th</sup> April 2005, at GH Rajyog Digital Auditorium & Banquet, Bangalore
- ❖ "HPLC, HPTLC and Gas Chromatography/GC\_M" sponsored by Sophisticated Instrumentation Center for Research and Testing (SICART), Vallabh Vidyanagar from 26/11/2007 to 28/11/2007.
- ❖ "Short term training programme on Role of regulatory affairs in context to global scenario of pharmacy profession”, sponsored by AICTE, at A R College of pharmacy & GH Patel institute of pharmacy, V V Nagar from 19<sup>th</sup>-25<sup>th</sup> May 2008.
- ❖ "Intellectual property rights and regulatory affairs", sponsored by IPA, at ARCP & GHPIP, vallabh vidyanagar, 17<sup>th</sup> October 2008
- ❖ "Two weeks staff Development programme on Recent Advances in Novel Drug Delivery System” sponsored by AICTE, at SKPCPER, Kherva, Mehsana from 5<sup>th</sup> to 18<sup>th</sup> March 2009.
- ❖ "Current perspective in drug delivery development and therapy" "Rapcopinc 14" held at Ramanbhai Patel College of Pharmacy, on 27-28<sup>th</sup> February 2014.
- ❖ Animal Handling and dosing techniques in preclinical studies for drug research. 9-10<sup>th</sup> April 2015. ARCP & GHIP. Vidyanagar.
- ❖ Regulatory writings for pharmaceutical, medical device and biotech Industries, 1st october 2015, Organized by Indukaka Ipcowala College of pharmacy, New Vallabh Vidya nagar.
- ❖ Effective Pedagogy Principle of teaching and Learning” 9-10<sup>th</sup> October 2015 at BITS, Vadodara.
- ❖ Career Opportunities in quality and productivity management, 20th February 2016, Dept of statistic SPU, Vidyanagar.
- ❖ advance in formulation development: challenges and application, 4<sup>th</sup> & 5<sup>th</sup> March 2015, Faculty of pharmacy, Parul University, WAGHODIA, Vadodara
- ❖ Community Pharmacy Practice in India: present status and future challenges, 21<sup>st</sup> April 2016, ARCP and GHPIP vallabh vidyanagar,
- ❖ Two days Refresher course sponsored by Gujarat state pharmacy council, Ahmedabad, 30<sup>th</sup> April -1st may 2016, Indukaka Ipcowala College of pharmacy, New Vallabh Vidya nagar.
- ❖ Two weeks national level faculty development programme on "Entrepreneurship Development" 19<sup>th</sup> - 31<sup>st</sup> December 16, held at ADIT new vallabh vidyanagar, supported by NSTEDB, and entrepreneurship development institute of India,

- ❖ 5th International Conference on " Advance in Topical Drug Delivery: Global perspective and contribution of Indian Academic Research" 11<sup>th</sup> May 2017 held at Shree Dhanvantary Pharmacy Collge, Kim Surat.
- ❖ Two days Refresher course sponsored by Gujarat state pharmacy council, Ahmedabad, 15-16 July 2017 organized by Indukaka Ipcowala College of pharmacy, New Vallabh Vidya nagar.
- ❖ Two days Training Programme for nominees of CPCSEA organized by CPCSEA, New Delhi. 6<sup>th</sup> – 7<sup>th</sup> December 2017.
- ❖ Conference on Start-ups Igniting Innovation and Leadership, 18 Jan 2018, Anand Pharmacy College, ANAND.
- ❖ Spectral interpretation on different spectroscopic techniques. 20 Jan 2018, Indukaka Ipcowala College of Pharmacy.
- ❖ GUJCOST Sponsored One day National Seminar on QBD approach in tablet formulations, 09/02/2018 Organized by Indukaka Ipcowala College of pharmacy, New Vallabh Vidyanagar.
- ❖ Quality by Risk management in Pharmaceuticals, 29 September 2019, Babaria Institute of Pharmacy, Varnama, Vadodara.
- ❖ Entrepreneurship Development, Faculty development Programme, 10<sup>th</sup> December 2018, ADIT New Vallabh Vidyanagar and Sponsored by DST, India.
- ❖ Statistical Tools in Pharmaceuticals, organized by GUJCOST & Indukaka Ipcowala college of Pharmacy, New Vallabh vidyanagar. 25 January 2019
- ❖ The Social Awareness of Prevention of Teenage Pregnancy and its consequences: A Healthy Woman Healthy Nation, GUJCOST & Indukaka Ipcowala college of Pharmacy, New Vallabh vidyanagar. 1<sup>st</sup> August 2019.
- ❖ Steps towards Implications and Conservation of Medicinal Plants in View of Pharma Interest. GUJCOST & Indukaka Ipcowala college of Pharmacy, New Vallabh vidhyanagar 20<sup>th</sup> September 2019.
- ❖ Computer aided drug delivery and design, 10 October 2019, Babaria institute of Pharmacy, Vernama, Vadodara.
- ❖ Two weeks Faculty development Programme attended on "Entrepreneurship Development", 9 to 21 December to 2019 organized by ADIT.
- ❖ E Faculty development Program on "Teaching in Uncertain Times: Opportunities and Challenges" Jointly organized by Gujarat Technological University. Ahmedabad and Babaria Institute of Pharmacy, Vernama. 30 April to 5<sup>th</sup> May 2020.
- ❖ One week remote faculty development Program on "Moodle Learning Management System" organized by Department of information Technology. MBPIT, New Vallabh vidyanagar in association with spoken Tutorial, IIT Mumbai during 1-6<sup>th</sup> June 2020.
- ❖ Two days JCR-South Asia Training and certification program 2020 organized by JCR web science group on 5<sup>th</sup> and 7<sup>th</sup> May 2020.
- ❖ One day "RNA medicine in Pandemic 2020" Virtual Nanomedicine symposium on 23<sup>th</sup> July 2020 organized by Precision Nanosystems.
- ❖ Webinar on "NAAC Assessment and Accreditation Process" organized by Internal Quality Assurance Cell, GTU on 5<sup>th</sup> August 2020.

- ❖ International Conference on “PharmaTech-2020- Exploring Myriads of Pharma in Pharmaceutics and Pharmaceutical Technology” organized by LMCP, Ahmedabad during 28 to 30<sup>th</sup> October 2020. (online).
- ❖ National Webinar on “Donate organs- save lives” organized by A R college of pharmacy & G H Patel institute of pharmacy, on 13<sup>th</sup> October 2020.
- ❖ Attended Webinar on “Monoclonal antibodies Production” organized by Faculty of Allied sciences (microbiology, Biotechnology) Krishna Institute of medical sciences, Deemed To be University”, Karad on 27<sup>th</sup> October 2020.
- ❖ Attended Webinar on “Ideal manuscript writing – Exploration of Scientific manuscript writing” on 21& 22 December 2020 organized by School of science, R K University, Rajkot, India.
- ❖ E-FDP “Design Thinking” organized by Anand Pharmacy College under ATAL Academy. 23 to 27 November 2020.
- ❖ “Role of Multi Component Systems in Pharmaceutical Formulation Development” organized by Saurashtra University & sponsored by GUJCOST on 2<sup>nd</sup> January 2021.