


Faculty Profile

Name :	Ms. Ekta Radadiya (Assistant Professor, LJIP)	
Date of Birth :	22/03/1996	
Educational Qualifications:		
-Ph.D. (University)	-----	
-Master's (University)	M.Pharm. in Pharmacology, Nirma University (2017-2019)	
-Bachelor's (University)	B.Pharm., GTU (2013-2017)	
-Any Other:	-----	
Area of Specialization :	Pharmacology	
Date of Joining (LJIP)	13/08/2019	
Present Position :	Assistant Professor, Department of Pharmacology, L.J. Institute of Pharmacy	
Contact Details:		
-Address :	301/1 Jyotsav Apartment, Sundaram Park, Junagadh Road, Jetpur (Dist. Rajkot), Gujarat, India	
-Email	ekta.radadiya_ljip@ljinstitutes.edu.in eradadiya7@gmail.com	
-Phone	(M) 8460541334	
Work Experience :	Teaching (10 months) Industrial (11 months as an Intern) Research & Development (11 months Internship)	
Subjects taught :		
-Under Graduate level	HAP-I (1st sem.), Pathophysiology (3rd sem.), Pharmacology and Pharmacotherapeutics-IV (4th sem.), Pharmacology and Pharmacotherapeutics-I (5th sem.), Pharmacology and Pharmacotherapeutics-II (6th sem.), Pharmacology and Pharmacotherapeutics-III (7th sem.), Pharmacology and Pharmacotherapeutics-IV (8th sem.)	
-Post Graduate level	-----	
Area of Specialization in your field	Diabetes	
A brief account of work done by you in the M. Pharm. and Ph.D.	<p style="text-align: center;">M.Pharm:</p> <p>“Tyrosine Kinase Inhibitor in combination with PPAR-γ agonists: Directing Metabolic Dysfunction through AMPK pathway”</p> <p>Diabetes presently impacts over 425 million of people across the worldwide. Tyrosine kinase inhibitors have been reported to induce regression of type 2 diabetes in chronic leukemia patients. Thiazolidenediones exhibits potential improvement in glycemic</p>	

control and insulin sensitivity in type 2 diabetes. Many investigators have reported the use of tyrosine kinase inhibitors in type 2 diabetes to reduce the microvascular and macrovascular complications. The present study focuses on pharmacological evaluation of combination therapy of tyrosine kinase inhibitor and PPAR- γ agonist as a synergistic treatment in type 2 diabetes. Therefore, objective of our study is to evaluate the efficacy and synergistic effect of dasatinib and gallic acid in db/db mice model of type 2 diabetes.

The effect of treatment on glucose homeostasis were measured using an assessment of insulin sensitivity and measuring blood glucose levels weekly. Glucose tolerance test was at 14 day of treatment followed by an oral dose of 2.5mg/kg dasatinib and 100mg/kg gallic acid into db/db mice for 4 weeks. Insulin signaling and AMPK expressions were studied by western blotting. The liver inflammation and lipid infiltration in adipocytes were assessed by histopathology using H & E staining. β -cell proliferation and p-AMPK expression were determined by immunohistochemistry using various antibodies.

The combination group of dasatinib and gallic acid significantly improved blood glucose levels after treatment of 4 weeks. Combination therapy ameliorated insulin resistance in db/db mice. Expressions of phospho-AMPK and total AMPK in the liver tissue of db/db mice was increased by dasatinib and gallic acid. Akt phosphorylation after insulin administration was improved by dasatinib and gallic acid combinatory therapy. Lipid infiltration of liver cells was decreased by combination therapy, accompanied by decreased adipocytes size and increased β -cell proliferation.

The combination group ameliorated insulin resistance and induced remission of diabetes in db/db mice. Dasatinib or related small tyrosine kinase inhibitors could be used as a therapeutic agent against type 2 diabetes and metabolic syndrome.

New Technologies /methods developed by you	-----
Scale up and Technology Transfer	-----
Industrial Projects Carried Out :(01 from Sun Pharma Advanced Research Co. Pvt. Ltd.,
No.)	Vadodara, Gujarat-India.
Revenue/Royalty earned by the Organization in Indian Rupees	-----
No. Government funded Projects undertaken by you and their total value	-----
Research Guidance :	

-Master's	NA
-Guide for PhD	NA
Summer/Winter/School/Conference/ Workshops attended:	15
Summer/Winter/School/Conference/ Workshops Conducted:	00
Patents taken/applied for:	-----
<p>Publications: -----</p> <p>Research Papers: -----</p> <p>Conferences, Workshops and Seminars</p> <ol style="list-style-type: none"> 1. Attended 5th International Exhibition & Conference on Pharmaceutical & Medical Device Industry, March 2019. 2. Attended conference on “Availability, Accessibility, & Affordability of Medicines for all” organized by Food & Drugs Control Administration (FDCA), Government of Gujarat and National Pharmaceutical Pricing Authority (NPPA), Government of India, January 2020. 3. Attended DIACON conference on “Diabetes” as a delegate organized by Dia Care Society Ahmedabad, October 2019, Ahmedabad, Gujarat, India. 4. Attended workshop on “Time Management” conducted by HR Department Sun Pharma Advanced Research Co. Pvt, Ltd., Vadodara, Gujarat, January 2019. 5. Ekta Radadiya, Dr. Snehal S Patel. Tyrosine Kinase Inhibitors and Diabetes: A Novel Treatment Paradigm. Presented a poster at 3rd National Conference of Institute of Pharmacy on “Integrating Natural and Modern Medicines in Drug Discovery and Development”, January 2019, Nirma University, Ahmedabad, India. 6. Ekta Radadiya, Dr. Snehal S Patel. Understanding molecular basis and role of prion proteins in CNS disorders. Presented a poster at 4th Nirma Institute of Pharmacy International Conference on “Innovation in Pharmaceutical Research by Interdisciplinary Approach” January 2018, Nssirma University, Ahmedabad, India. 7. Attended three days’ workshop on “THERMOSCIENTIFIC INSTRUMENTS” conducted by Thermo Fisher Scientific Co. at SPARC, Vadodara, November 2018. 8. Attended a seminar on “Nutritional Diet” by Rujuta Diwekar at IPNU, 2018. 9. Attended workshop on “Medical Writing” conducted by Department of Pharmacology, September 2017, Nirma University, Ahmedabad-Gujarat. 10. Attended a seminar on “Nutritional Diet” by Rujuta Diwekar at IPNU, 2018. 11. Attended workshop on “Hands on training on HPLC” at PHARMAVISION-2016 organized by BITS and ABVP, Vadodara, Gujarat. 12. Presented a poster on “Women Development” in a national seminar conducted by LMCP on Women Development, October 2016. 13. Presented a poster on “Emerging Targets of Diabetes” at LMCP, GTU Central Techfest, 2016. 14. Presented a posted on “Quality by Design” at LJIP, 2015. 	

15. Attended a conference sponsored by GUJCOST at LJIP, September 2013.

Notable Achievements and activity executed:

- **Recipient of gold medal** (B. Pharm) from L.J. Institute of Pharmacy affiliated to Gujarat Technological University (2017)
- **Awarded** 1st rank for best model presentation on “Artificial Ventilator” at L.J. Innovation Village (2017)
- **Winner** at model presentation, *Mechanical Ventilator* organized by Pharmavision-National Level Tech Fest (2017)
- **Registered Pharmacist** (Pharmacy Council of India, India)
- **Registered Faculty** (Pharmacy Council of India, India)
- **GTU Endorsed Faculty** (Gujarat Technological University, Ahmedabad, Gujarat, India)
- **Felicitated** by Cabinet Minister and MLA (Jetpur) of Gujarat, Mr. Jayeshbhai Radadiya in 2016 for bagging third prize in “National Pharma Techfest” organized by ABVP at Babaria Institutes of Technology, Vadodara- Gujarat. (2016)
- **Elected member** of Student Corner, L.J. Institute of Pharmacy, Ahmedabad (2013-2017)
- **Recipient of medal** as a Finisher of 10km Marathon, “Vadodara International Marathon” 2019 within 95 minutes.
- Recently **awarded** by Cabinet Minister and MLA (Jetpur) of Gujarat, Mr. Jayeshbhai Radadiya Academic Excellence. (2020)

Association with Professional Bodies

Active member of **APSCER** (Association for Promoting Scientific Education and Collaborative Research, India)