

## Dr. Kamleshkumar C. Patel

Professor in Microbiology  
Head, P. G. Department of Biosciences  
Sardar Patel University  
Satellite Campus, Vadtal Road,  
Bakrol – 388 315  
Dist: Anand, Gujarat, India

**E-mail:** [comless@yahoo.com](mailto:comless@yahoo.com), [kc\\_patel@spuvvn.edu](mailto:kc_patel@spuvvn.edu),

**Mobile:** 9428151737

### Qualification:

Degree	Name of the university	Year of Award	Subject	Grade/% of marks obtained	Grade/ class obtained
B.Sc.	Sardar Patel University	1981	Microbiology	4.22 C.G.P.A. (70.47%)	B grade, First class.
M.Sc.	Sardar Patel University	1983	Microbiology	4.36 C.G.P.A. (72.81%)	B grade, First class.
Ph.D.	Sardar Patel University	1988	Microbiology		

**Title of the Ph.D. Thesis:** Studies on *Metarhiziumanisopliae* (Metsch.) Sorokin var. *anisopliae* and its use as a tool in Biological control of some insect pests

### Details of experience:

Sr. No.	Name of the institution	Designation	Period from to
1	Department of Biosciences Sardar Patel University	Assistant Professor	1/10/88 31/10/93
2	Department of Biosciences Sardar Patel University	Associate Professor	1/11/93 31/10/01
3	Department of Biosciences Sardar Patel University	Professor	1/11/01

**Research Areas:**

- Biological control
- Bioremediation of Xenobiotics
- Biopolymer production and degradation
- Microbial Enzymes and pigments
- PGPR- Plant- Microbe interaction

**Teaching Subjects:**

- Biochemistry, Cell Biology, Microbial Physiology, Immunology

**Completed Research Projects:**

- Nine (UGC, DST, DBT)

**Recently completed research projects:**

- ❖ UGC major research project on “Curdlan and Lipase production using *Cellulomonasflavigena* UNP3 and their application”. Amount sanctioned Rs. 7, 57,800/-.
- ❖ DBT project on “Production and characterization of a yellow antioxidant pigment from *Colletotrichum* sp. KCP1. Amount sanctioned Rs. 20, 13,200/-.

**Ph. D. awarded:** Fifteen

**Ph. D. Students working:** One

**Recent Publications:**

1. Kiransinh N. Rajput, Kamlesh C. Patel and Ujjval B. Trivedi 2016. Screening and selection of medium components for cyclodextringlucanotransferase production by new alkaliphile *Microbacterium terrae* KNR9 using Plackett-Burman design. Biotechnology Research International, Doi: [dx.doi.org/10.1155/2016/3584807](https://doi.org/10.1155/2016/3584807).
2. Sanket Ray, VimalPrajapati, Kamlesh Patel and Ujjval Trivedi 2016. Optimization and characterization of PHA from isolate *Pannonibacterphragmitetus* ERC8 using glycerol waste. International Journal of Biological Macromolecules, 86: 741-749.

3. Kiransinh N. Rajput, Kamlesh C. Patel and Ujjval B. Trivedi 2016. B—Cyclodextrin production by cyclodextrin glucanotransferase from an alkaliphile *Microbacterium terrae* KNR 9 using different starch substrates. *Biotechnology Research International*, Doi: dx. Doi.org/10.1155/2016/2014359.
4. Kiransinh N. Rajput, Kamlesh C. Patel and Ujjval B. Trivedi 2016. A novel cyclodextrin glucanotransferase from alkaliphile *Microbacterium terrae* KNR 9: purification and properties. *3 Biotech*, 6: 168.
5. Ajit M. Patel, Vanita M. Patel, Juhi Pandya, Ujjval B. Trivedi and Kamlesh C. Patel 2017. Evaluation of catalytic efficiency of *Coriolorhizoglyphus* DN laccase to decolorize and detoxify RBBR dye. *Water Conservation Science and Engineering*. Doi: 10.1007/s41101-017-0028-0.
6. Ravi K. Shah, Amrutlal K. Patel, Dipti M. Davla, Ishan K. Parikh, Ramalingam B. Subramanian, Kamlesh C. Patel, Subhash J. Jakhesara and Chaitanya C. Joshi 2017. Molecular cloning heterologous expression, and functional characterization of a cellulolytic enzyme (Cel PRII) from buffalo rumen metagenome. *3 Biotech*. 7: 257
7. Vimalkumar S. Prajapati, Sanket Ray, Jitendra Narayan, Chaitanya C. Joshi, Kamlesh C. Patel, Ujjval B. Trivedi and R. M. Patel 2017. Draft genome sequence of a thermostable, alkaliphilic  $\alpha$ -amylase and protease producing *Bacillus amyloliquefaciens* strain KCP2. *3 Biotech* 7: 372.
8. Bhumi M. Bhatt, Ujjval B. Trivedi and Kamlesh C. Patel (2020) Extremophilic amylases: Microbial production and applications. In 'Microbial Enzymes: Roles and Applications in Industries, Microorganisms for sustainability 11'. N. K. Arora et al. (eds.). Springer Nature Singapore Pte Ltd. pp: 185-205. DOI: [http://doi.org/10.1007/978-981-15-1710-5\\_7](http://doi.org/10.1007/978-981-15-1710-5_7).
9. Ajit Patel, Vanita Patel, Radhika Patel, Ujjval Trivedi and Kamlesh Patel (2020). Fungal laccases: versatile green catalyst for bioremediation of organopollutants. In 'Emerging Technologies in Environmental Bioremediation'. (Eds.: Maulin P. Shah, Susana Rodriguez-Couto and S. Sevinc Sengor). Elsevier. pp:85-129. DOI: <http://doi.org/10.1016/B978-0-12-819860-5.00004-3>.
10. Ajit Patel, Vanita Patel, Harsh Patel, Ujjval Trivedi and Kamlesh Patel (2020). White Rot Fungi: Nature's scavenger. In 'Shah Maulin (Eds.) Microbial Bioremediation and

Biodegradation. Springer, Singapore. Pp: 267-307. DOI: [https://doi.org/10.1007/978-981-15-1812-6\\_11](https://doi.org/10.1007/978-981-15-1812-6_11).

11. Bhumi Bhatt, VimalPrajapati, Kamlesh Patel and Ujjval Trivedi (2020) Kitchen waste for economical amylase production using *Bacillus amyloliquefaciens* KCP2. *Biocatalysis and Agricultural Biotechnology*. 26: 101654. Doi: <https://doi.org/10.1016/j.bcab.2020.101654>.
12. Radhika Patel, Ravi K. Shah, Vimal S. Prajapati, Kamlesh C. Patel and Ujjval B. Trivedi (2021) Draft Genome Analysis of *Acinetobacterindicus* strain UBT1, an efficient lipase and biosurfactant producer. *Current Microbiology*. 78: 1238-1244. Doi: <https://doi.org/10.1007/s00284-021-02380-5>. (IF: 1.746, Y:2021)
13. Radhika Patel, VimalPrajapati, Ujjval Trivedi and Kamlesh C. Patel (2020) Optimization of organic solvent-tolerant lipase production by *Acinetobacter* sp. UBT1 using deoiled castor seed cake. *10: 508. 3 Biotech*. Doi: <https://doi.org/10.1007/s13205-020-02501-0>. (IF: 2.27, Y: 2021)
14. Harsh Patel, Sanket Ray, Ajit Patel, Kamlesh Patel and Ujjval Trivedi (2020) Enhanced lipase production from organic solvent tolerant *Pseudomonas aeruginosa* UKHL1 and its application in oily waste-water treatment. *Biocatalysis and Agricultural Biotechnology*. 28: 101731. Doi: <https://doi.org/10.1016/j.bcab.2020.101731> (IF: NA)

### **Membership of Academic Societies:**

Life member: Association of Microbiologist of India.

Life member: The society of Biological Chemists, India.

Life member: Indian Society for Biocontrol Advancement, India.

Member: American Society for Microbiology, USA.

Life member: Biotech Research Society of India, India.

Life Member: Indian Science Congress Association, India

Fellow: Gujarat Science Academy