



### Education Qualification:

- **Phd** (Biotechnology),  
Sardar Patel University, Anand, Gujarat
- **M.Sc** (Biotechnology),  
BRD School of Biosciences, Sardar Patel University, Anand,  
Gujarat
- **B.Sc** (Biotechnology),  
Anand Merchantile College of Science & Technology  
(AMCOST), Sardar Patel University, Anand, Gujarat



### Research Interest:

Protein engineering



### Publications:

1. Prajapati AS, Pawar VA, Panchal KJ, **Sudhir AP**, Dave BR, Patel D H and Subramanian R B (2018) Effects of substrate binding site residue substitutions of xynA from *Bacillus amyloliquefaciens* on substrate specificity *BMC biotechnology*, 18 (1), 9
2. **Sudhir A.P.**, Agarwal V.V., Dave B.R., Patel D.H. and Subramanian R.B. (2016) Enhanced catalysis of L-asparaginase from *Bacillus licheniformis* by a rational redesign. *Enzyme and microbial technology*, 86: 1-6
3. BR Dave, P Parmar, **A Sudhir**, K Panchal, RB Subramanian (2015) Optimization of process parameters for cellulase production by *Bacillus licheniformis* MTCC 429 using RSM and molecular characterization of cellulase gene. *Journal of Bioprocessing & Biotechniques* 5 (3), 1
4. **Sudhir A.P.**, Dave B.R., Prajapati A., Panchal K., Patel D. and Subramanian R.B. (2014) Characterization of a recombinant glutaminase free L-Asparaginase (ansA3) enzyme with high catalytic activity from *Bacillus licheniformis*. *Applied Biochemistry and Biotechnology*, 174 (7): 2504-2515.
5. Pandya U., **Sudhir A.P.**, Gohel H., Subramanian R.B. and Saraf M. (2014) Zymographic identification and biochemical characterization of chitinase against phytofungus pathogens. *Journal of microbiology, biotechnology and food sciences*. 4 (1): 44-47.



**Mr. Ankit  
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**Assistant Professor,  
Biological Sciences**

**School of Science**

6. Parmar P., Dave B.R., **Sudhir A.P.**, Panchal K. and Subramanian R.B. (2014) Modified and simple method for isolation of genomic DNA from fungal culture. *African journal of microbial research*, 8 (22): 2261-2263. ISSN 1996-0808
7. Parmar P., Dave B.R., **Sudhir A.P.**, Panchal K. and Subramanian R.B. (2013) Physiological, biochemical and molecular response of plants against heavy metal stress. *International Journal of Current Research*, 5 (1): 80-89. ISSN: 0975-833X
8. Parmar P., **Sudhir A.P.**, R. Preethi, Dave B.R., Panchal K., Subramanian R.B., Patel A. and Kathiria K.B. (2013) Identification of SSR marker (tom 144) linked to fusarium wilt resistance in *Solanum lycopersici*. *American Journal of Molecular Biology*. 3(4): 241-247. ISSN 2161-6620
9. Dave B.R., **Sudhir A. P.**, Parmar P., Pathak S., Raykundaliya D.P. and Subramanian R.B. (2013) Enhancement of cellulase activity by a new strain of *Thermoascus aurantiacus*: Optimisation by statistical design response surface methodology, *Biocatalysis and agricultural biotechnology*, 2(2): 108–115 , ISSN: 1878-8181
10. Dave B.R., **Sudhir A. P.**, Pansuriya M., Raykundaliya D. and Subramanian R.B. (2012) Utilization of Jatropha deoiled seed cake for production of cellulases under solid-state fermentation. *Bioprocess and Biosystems Engineering*, 35 (8) 1343-1353. ISSN: 1615-7591
11. **Sudhir A.P.**, Dave B.R., Trivedi K. A. and Subramanian R.B. (2012) Production and amplification of an L-asparaginase gene from actinomycete isolate *Streptomyces ABR2*, *Annals of microbiology*, 62: 1609-1614.



#### Industry Experience: (1 year and 7 months)

Worked as a **Research Associate cum Project Investigator** at Marine Bioresource Centre (MBRC), GSBTM, Jamnagar, Gujarat, India.

In the projects entitled:

1. Isolation of L-asparaginase (with low or no glutaminase) producing microorganisms from various sites of Gulf of Kachchh: Characterization of L-asparaginase from a potential isolate.
2. Isolation of phytase producing microorganisms and characterization of phytase from a potential isolate



#### Courses Taught:

- 1) Biological Diversity and Taxonomy
- 2) Genetics
- 3) Basics of Microbiology
- 4) Fundamentals of Biotechnology



### Conference & Seminar:

- Participated in CSIR sponsored national workshop on “Application of Bioinformatics tools and Its extension to drug discovery” held in Microbiology department of Shree Ramkrishna Institute, Surat from 22nd to 30th August, 2014.
- Presented a poster “*Bacillus licheniformis*: A Potential source of L-asparaginase” in “Biotechnology Research Society of India.” International Conference on Industrial Biotechnology -2012 on 21st -23rd Nov. 2012, Punjabi University, Patiala (India).
- Participated in UGC-DRS sponsored one day Seminar on “Recent Trends in Microbial Technology” held at M.S. University, Vadodara, on 21st February, 2012
- Presented a poster “Production and L-asparaginase gene amplification from a actinomycete isolate: *Streptomyces* ABR2” in “Biotechnology Research Society of India.” New Horizons In Biotechnology-2011 on 21st -24th Nov. 2011, NIIST, Trivandrum (India).
- Participated in UGC-DSA-II sponsored National symposium on “Trends in Biological Sciences” organized by BRD School of Biosciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat from January 28-29, 2011.
- Participated in the workshop on “Bioinformatics tools for Molecular Modeling and Drug Designing” organized by G.H. Patel, P.G. Department of Computer Science and Technology during 22nd- 24th September, 2010.
- Participated in the National Conference on “Frontiers in Biological Sciences” organized by BRD School of Biosciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat from February 27-28, 2009



### Awards & Honors:

- Third prize winner in poster presentation in Science Manthan sponsored by GUJCOST held at CHARUSAT, Changa, Anand, Gujarat, on 2nd February, 2014



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