

# Apurva Patel

## Curriculum vitae

Current lab address : Department of Biotechnology, Veer Narmad South Gujarat University, Surat 395009, India  
Email address : [patelapurva1716@gmail.com](mailto:patelapurva1716@gmail.com)  
Google Scholar ID : <https://scholar.google.com/citations?user=jNQjmK0AAAAJ&hl=en>  
Orcid ID : 0000-0003-2485-3326  
Phone : +91 8758695547

### **EDUCATION**

---

Jan, 2015 - April, 2019 **Ph. D, Biotechnology(Biosciences)**, Department of Biotechnology, Veer Narmad South Gujarat University, Surat (India). PhD dissertation thesis title- ‘Apoptotic induction and molecular analysis of Tribulus terrestris plant extract on Human Breast Cancer cells MCF-7’. Ph.D supervisor: Dr. Preeti Sharma  
Jun, 2007 - April, 2012 **M.Sc, Biotechnology**, (+B.Sc., 5 year Integrated course) with score-CGPA- 5.20/6.00, Department of Biotechnology, Veer Narmad South Gujarat University, Surat (India).

### **WORK EXPERIENCE**

---

Oct.2019 - Present **Teaching Assistant**, at Department of Biotechnology, Veer Narmad South Gujarat University, Surat, India.  
Aug.2018 - Oct.2019 **Ad-hoc Lecturer** at Department of Biotechnology, Shri Ramkrishna Institute of Computer Education and Applied Sciences, Surat India.  
For Master and graduate degree course “M.Sc Integrated Biotechnology”

- Taught graduate and master subjects like Cell and tissue culture, Agriculture Biotechnology, Immunotechnology and Bioprocess Techniques in the area of Biotechnology
- Supervised and assisted with biosafety and lab experiments
- Evaluated student’s performance by reviewing written and lab exams.

Jan.2013 - April.2014 **Lab Technician** at SN Gene Pvt ltd. and research center, Surat (India).

- Performed molecular diagnosis of infectious and genetic diseases
- Standardization in cytogenetic based and molecular biology based tests, in areas of hematology, pharmacogenetics, and Biology.
- Maintained the case history of cancer patients for PCR- based cancer detection test
- Maintained the records of reports

## **RESEARCH EXPERIENCE**

---

- Jan.2015 - April,2019      **Ph.D Scholar**, Department of Biotechnology, Veer Narmad South Gujarat University, Surat, India
- Investigated *Tribulus terrestris* plant saponin extract on Human Breast Cancer cells MCF-7 of its potential anti-cancer effect and molecular mode of apoptotic induction
  - Developed multitude of molecular and cell based assays including cytotoxicity, flow cytometry, fluorescence microscopy, RT-PCR and structural elucidation of active compound by HR-LCMS.
  - *In silico* molecular docking using Autodock Vina and statistical analysis by SPSS & R Statistics
- Jan.2012 - April,2012      Master's thesis titled 'Molecular analysis of functional, phylogentic & Heavy-metal resistant genes by culture dependent & culture-independent approach from Lonar lake' at National Center for Cell Science (NCCS), Pune (India) under the supervision of Dr. Yogesh Shouche.

## **ORAL PRESENTATION**

---

- International Symposium on Emerging Biological Trends in 21st Century (Nov, 2017), Kosamba, India.
- 4th International Congress of the Society for Ethanopharmacology, India: Healthcare in 21st century: "perspectives of Ethanopharmacology and medicinal plant research" Feb, 2017), bardoli, India.

## **POSTER PRESENTATION**

---

- Biological tools for Sustainable Environment (BTSE 2014), Surat India
- Current trends in Biotechnology & business Idea" (SGCCI, 2011), Surat, India .
- International science Congress (Dec, 2011), Indore India.

## **AWARDS AND HONOUR**

---

- Secured first prize for the best Oral presentation at Biological tools for sustainable development (BTSE 2016) held at Department of Biosciences, Veer Narmad South Gujarat University, Surat (India) with abstract titled "Preliminary study on effect of *Tribulus terrestris* saponins on proliferation of Adipose derived Mesenchymal Stem cells"
- Passed Gujarat State Eligibility test (GSET) for Assistant Professor (2018) in the subject of Life Sciences.
- Passed Indian Council of Agricultural Research (ICAR) National Eligibility test (NET) for assistant professor (2018) in Agriculture Biotechnology discipline.
- Passed Graduate Aptitude test in Engineering (GATE) (2013) in the subject Biotechnology.

## **PUBLICATIONS**

---

1. Pratinidya Shendge, Shailza Sharma, Minati Baral, **Apurva Patel**, Smita Parekh & B. K Kanungo (2020) Synthesis, characterization and application of molecular hammock and

pincer type complexes, *Phosphorus, Sulfur, and Silicon and the Related Elements*, DOI: 10.1080/10426507.2020.1825431

2. **Patel Apurva**, Soni Anjali, Siddiqi Nikkhat and Sharma Preeti. An insight into the anticancer mechanism of *Tribulus terrestris* extracts on human breast cancer cells. *3Biotech*. 2019; 9:58.
3. **Patel Apurva**, Soni Anjali and Sharma Preeti. Effect of *Tribulus terrestris* Saponins on proliferation of Adipose-derived Mesenchymal Stem Cells. *Journal of Cellular Biochemistry*. 2018; 1-5.
4. Parekh Smita, **Patel Apurva**, Soni Anjali and Sharma Preeti. Preliminary Phytochemical Screening and Quantitative Analysis of crude extracts of *Nyctanthes arbor-tristis* Indigenous to South Gujarat region. *International Journal of Life Sciences Research*. 2018; 6(3): 25-33. (ISSN 2348-3148).
5. **Patel Apurva**, Soni Anjali and Sharma Preeti. *In vitro* cytotoxicity studies of Indian herb *Tribulus terrestris* on Human Breast Cancer Cells. *IOSR-Journal of Biotechnology and Biochemistry*. 2016; 2(7). Volume 2, Issue 7, Nov-Dec 2016.
6. Patel Apurva, Soni Anjali and Sharma Preeti. Identification of steroidal saponins from *Tribulus terrestris* and their *in silico* docking studies. (Manuscript in preparation)

## **REFERENCES**

---

References shall be provide if asked for.