



Resolving Double Helix For Life



**Ms. Swetal Patel**

Teaching assistant

CGBIBT

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### **Education**

#### **Master of Science, BIOTECHNOLOGY**

C G Bhakta Institute of Biotechnology

Uka Tarsadia University, Bardoli

**June 2013**

#### **Bachelor of Science, BIOTECHNOLOGY**

C G Bhakta Institute of Biotechnology

Veer Narmad South Gujarat University, Surat

**May 2011**

### **Specialization**

#### **Biotechnology**

### **Professional/Teaching Experience**

#### **QA Officer**

Span Diagnostic Ltd. (Sachin, Surat)

**From 18<sup>th</sup> December, 2013 - 5<sup>th</sup> August, 2014**

**(7 months)**

#### **Teaching Assistant**

C G Bhakta Institute of Biotechnology

**From 6<sup>th</sup> August, 2014– Till date**

**(7 Years)**

### **Research Interest**

- Natural Products Research
- Molecular Biology
- Plant tissue culture
- Microbial biotechnology

## Research Experience

**Dissertation: “Biochemical and Nutritional Evaluation of NONI (*Morinda citrifolia* L.)”** under the guidance of Dr. Prof. R. Krishnamurthy at C G Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli (2013).

## Creditable position

- Qualified Gujarat State Eligibility test (**G-SET**) for Assistant Professor -2017
- Cleared NPETL certificate course entitled “Nanotechnology in agriculture” with 75%.
- Worked as an organizing member in international conference on “Current Status, Opportunities and Challenges in Medicinal Plants and Natural Product Research” held at C. G. Bhakta Institute of Biotechnology, on 24<sup>th</sup> – 26<sup>th</sup> September, 2014.
- Worked as a LOC member in international conference on “Health care in 21<sup>st</sup> Century: Perspectives of Ethanopharmacology and Medicinal Plant Research” held, at Uka Tarsadia University, Bardoli on 23<sup>rd</sup> to 25<sup>th</sup> February, 2017.
- Worked as an organizing member in National conclave on “Sustainable CSR projects in Rural India” held at Hotel Country Inn at Mysuru, on 11<sup>th</sup> - 12<sup>th</sup> October, 2019.
- Organizing member in Training cum workshop on Cultivation of Medicinal Plants to Rural Farmers- Industrial Perspectives organized by C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli on 13<sup>th</sup> December, 2019.

## Professional/Research Training

- Undertook 10 days training in plant tissue culture laboratory, Sugar Cane Department of NAU, Navsari, 2011.
- Participated in three days workshop on “Transgenic trait detection in crop”, organized by Junagadh Agriculture University, Junagadh on 24<sup>th</sup> -26<sup>th</sup> August 2018.
- Participated in 2 days workshop on “Chemistry and Mathematics for Biologist” organized by C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli on 28<sup>th</sup>- 29<sup>th</sup>, November 2018.
- Participated in two days workshop on “Molecular Biology Tools and Applications”,

organized by C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli on 26<sup>th</sup>-27<sup>th</sup>, March 2018.

- Participated in two days workshop on hands on “Experiments in pharmacology: Exploring paradigm shift” organized by Maliba Pharmacy College, Uka Tarsadia University, Bardoli on 23<sup>rd</sup>-24<sup>th</sup>, July 2021.

## Oral/Poster Presentation

- Hiren Rathod, Hardik Desai and **Swetal Patel (2014)** “Ashtavarg – An Ancient Ayurvedic formulation”, Poster presentation at international conference on “Current Status, Opportunities and Challenges in Medicinal Plants and Natural Product Research” held at C G Bhakta Institute of Biotechnology, on 24<sup>th</sup> – 26<sup>th</sup> September, 2014.
- **Swetal Patel**, Viken Patel and R. Krishnamurthy (2015) “Herbal Nanoparticles: A Smart Choice for Drug Delivery”, Poster Presentation at National conference on “Innovations and recent trends in drug discovery techniques, radio- labelling and applied science research” held at Uka Tarsadia University, Bardoli on 23<sup>rd</sup> and 24<sup>th</sup> January, 2015.
- Shreya desai, **Swetal Patel**, Shraddha Saha and R. Krishnamurthy (2016) “Studies on phytochemical investigation and antimicrobial activities of endophytic fungi isolated from some important medicinal plants” Poster Presentation at international conference on “Recent Trends in affordable and sustainable drug discovery and developments” Held at Uka Tarsadia University, Bardoli on 6<sup>th</sup> and 8<sup>th</sup> February.
- **Swetal Patel**, Shraddha Saha, Shreya Desai and R. Ingalhali (2017) “Efficacy of *Anisomelis indica* leaves as mosquito repellent”, Poster Presentation at international conference on “Health care in 21<sup>st</sup> Century: Perspectives of Ethanopharmacology and Medicinal Plant Research” held, at Uka Tarsadia University, Bardoli on 23<sup>rd</sup> to 25<sup>th</sup> February.
- **Swetal Patel**, Nikita Patel, Bhumi Joshi, Giftson J. Senapathy and Ramar Krishnamurthy\* (2019) “Evaluation of Different parts of *Moringa oleifera* for food supplement to combat Malnutrition in Rural Areas”, Oral presentation at national conclave on “Sustainable CSR projects in Rural India” held at Hotel Country Inn at Mysuru, on 11<sup>th</sup> - 12<sup>th</sup> October, 2019.
- **Swetal Patel** and R. Krishnamurthy\* (2021) “ Nutritional, antinuteitional evaluation and antioxidant activity of accessions of *Mucuna pruriens* L. :An underutilized legume”, Poster presentation at National e- conference on “ Recent advances and future trends in biological, chemical and physical science-2021” organized by President science college, Ahmedabad on 30<sup>th</sup> and 31<sup>st</sup> July.

## Publications

### Review article

- **Swetal Patel** and R. Krishnamurthy (2013) “A brief review on Noni: A herbal remedy for better health”, Global Journal of Research in Medicinal Plants & Indigenous Medicine Volume 2, Issue 5, 337–347.
- Priyanka Patel, **Swetal Patel** and R. Krishnamurthy (2016) “Microalgae: Future biofuel”, Indian journal of geo-marine sciences (ijms), Volume 45, Issue 5, 823-829.

### Research article

- **Swetal Patel**, Shreya desai and R. Krishnamurthy (2016) “Biochemical and Nutritional Evaluation of *Morinda citrifolia* (Noni) at Different Maturity Stages”, Advances in life sciences Volume5, Issue 5, 1722-1727.
- Miral Patel\*, Jemisha Mistry, Suraj Desai, **Swetal Patel** and Shreya Desai (2016) “Isolation and Characterization of Lipase producing Bacteria from Vegetable Oil Spillage Site”, International Journal of Current Microbiology and Applied Sciences, Volume 5, Issue 8, 214-232.
- Krishnamurthy R\*, Patel B, Patel R, **Patel S**, Animasaun D.A, Ingalhalli R and Belewu M.A (2018). “Comparative Phytonutrients Analysis and Proximate Constituents of Few Accessions of Nigerian and Indian Eggplant (*Solanum* Species)”, Journal of Biology, Agriculture and Healthcare, Volume 8, Issue 8, 15-19.
- Nancy Patel, Nikita Patel, **Swetal Patel**, Rajashekhar Ingalhalli, Taofeeque Garuba Akeem O. Ahmed Samson, A. Oyeyinka (2019). “Morphology growth variability and chemical composition of Indian and Nigerian accession of *Ocimum* species grown in India”, Carpathian Journal of Food Science and Technology, Volume-4, Issue-11, 72-80.
- Patel N, **Patel S**, Soni A, Garuba T, Oyeyinka Sa, Ahmed AO and Krishnamurthy R\* (2020). “Antioxidant and antimicrobial potentials of some plant-based natural dyes”, International Journal of Biology, Pharmacy and Allied Sciences, Volume- 9, Issue- 9, 2090-2101.



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## C G Bhakta Institute of Biotechnology

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### **Book Chapters**

- Nikita Patel, **Swetal Patel**, Swati Patel, Nidhi Patel and R. Krishnamurthy (2020). “Indian *Tinospora* species: As antibacterial agents and phytochemical evaluation”, Current Strategies in Biotechnology and Bioresource Technology, Vol. 2, 125-133.
- **Swetal Patel**, Nikita Patel, A. A. Abdul Rahaman, R. Krishnamurthy (2020). “Medicinal plant *Mucuna pruriens*: From farm to pharma”, Trends in Pharmaceutical Research and Development, Vol. 5, 23-40.

Date: 30<sup>th</sup> September, 2021

Place: Tarsadi, Bardoli



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Bardoli-Mahuva Road, Tarsadi - 394 350, Dist. Mahuva, GUJARATA (India)

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