

## **Kaushik A. Jodhani, Ph. D.**

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### **EDUCATION**

- 1.** Doctor of Philosophy, Botany, P.G. Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar, India, **Advisor:** Dr. M. Nataraj.  
Thesis title: *“Evaluation of Biosafe Products as an Alternate Strategy to Improve Postharvest Shelf life and Maintain Quality of Some Perishable Horticultural Produce”*
- 2.** Master of Science, Botany, P.G. Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat, India.
- 3.** Bachelor of Science, Botany, V. P. & R. P. T. P. Science College, Sardar Patel University, Vallabh Vidyanagar, Gujarat, India.

### **APPOINTMENTS**

- 1. Assistant Professor in Botany**, Sardar Patel University (August-2019— present)

#### **Teaching:**

- ✚ Horticulture, Biochemistry and Medical Botany, Plant Development and Reproduction, Biology and Diversity of Lower Plants, Cell Molecular Biology, Mycology and Plant Pathology, Plant Physiology, Environment and Ecological Principles.

#### **Research Interests:**

- ✚ **Plant Physiology**
- ✚ **Postharvest biology and Technology of Fruits & Vegetables**
- ✚ **Plant Developmental Biology**
- ✚ **Plant Pathology**

#### **Experience:**

- 1. Adhoc Lecturer in Bachelor of Physiotherapy**, Vinayak Institute of Physiotherapy (Feb 2019- June 2019)
  - ✚ Biostatistics (4 credit Hours: UG)

2. **Research Scholar** (Aug 2013- Feb 2019), Dr. M. Nataraj Lab, P. G. Department of Biosciences, Sardar Patel University, Gujarat India.

## RESEARCH PROJECTS

- ✚ Project assistant at DST-PURSE Programme of Sardar Patel University from September 2013 to March 2014.
- ✚ Junior Research fellow in project entitled “Evaluation of biosafe products as an alternate strategy to improve the postharvest quality and shelf life of some perishable horticultural produce” funded by UGC, Govt. of India from January 2016 to September 2016.

## PEER-REVIEWED PAPERS

### □ Papers from PhD thesis

1. **Jodhani, K.A.,** Nataraj, M. (2021). Synergistic effect of Aloe gel (*Aloe vera* L.) and Lemon (*Citrus Limon* L.) peel extract edible coating on shelf life and quality of banana (*Musa* spp.). *Food Measurement and characterization* 15, 2318–2328 (2021). DOI: [10.1007/s11694-021-00822-z](https://doi.org/10.1007/s11694-021-00822-z) IF: 2.431
2. **Jodhani, K.A.&** Nataraj, M. (2019). Edible coatings from plant-derived gums and clove essential oil improve postharvest strawberry (*Fragaria × ananassa*) shelf life and quality. *Environmental and Experimental Biology*, 17: 123-135. DOI: [10.22364/eeb.17.13](https://doi.org/10.22364/eeb.17.13)

### □ Manuscript Under Review

1. Jyoti, S., Sayali, M., **Jodhani, K.A.,** Dhaval, P., Nataraj, M. (2021). Efficacy of biosurfactant as a coating material for postharvest preservation of Jamun (*Syzygiumcumini* L.). *Environmental and Experimental Biology*, **Manuscript ID # EEB-2021-248.**

## TALKS & POSTERS

### Talks:

1. **Extracts of *Aloe vera* and lemon peel coating enhanced the shelf life and Preserve the quality of Banana (*Musa* sp.)** in *Current Trends in Biological Sciences-III CTBS-2019* organized by P. G. Department of Biosciences, Sardar Patel University on 11th February, 2019.

### Posters:

1. ***Aloe vera* gel and arduisi (*Adhatodavasica*L.) extract as biodegradable edible coating for post-harvest preservation of jamun (*Syzygiumcumini*L.)** in *Current Trends in Biological Sciences-II* CTBS- 2018 organized by P. G. Department of Biosciences, Sardar Patel University on 9th February, 2018.
2. **Combined Effect of *Aloe vera* based edible coating incorporated with lemon peel extract on the postharvest quality and shelf life of Banana** in *3rd International Young Scientist Congress* organized by Mehsana Urban Institute of Science, Ganpat University, Mehsana, Gujarat on 8th & 9th May, 2017.
3. **Postharvest Technology - Strategies to diminish postharvest losses of fruits and vegetables** in *Current Trends in Biological Sciences CTBS-2017*, organized by P. G. Department of Biosciences, Sardar Patel University on March, 2017.
4. **An eco-friendly bio-based multi-component edible coating emulsion mediated improvement of postharvest shelf life and quality maintenance of Prickly pear fruit (*Opuntia ficus indica* Mill.)** in International conference as *India International Science Festival- IISF, 2015* Organized jointly by Ministry of Earth Science and Ministry of Science and Technology, Government of India at IIT Delhi Campus, During 4th December to 8th December, 2015.
5. **Combined effects of biopolymer coating and clove oil to prolong shelf life and maintain quality of Strawberries (*Fragaria x ananassa*Duch.)** in National seminar on *Strategies to understand sustainable utilization of plant wealth (SUSUP-2014)* Organized by department of Botany, School of Sciences, Gujarat University, Ahmadabad, During 29th to 30th September, 2014.

#### **Participated:**

1. National Conference on *Current Trends in Biological Sciences CTBS-2020*, organized by P. G. Department of Biosciences, Sardar Patel University on February-2020.
2. UGC National Symposium on *Exploring Advances in Biological Sciences* Organized by P. G. Department of Biosciences, Sardar Patel University on 5th March, 2016.
3. UGC Sponsored State Level Seminar on *Innovative Approaches to Biological Sciences: Recent Perspectives* Organized by Department of Biology J. & J. College of Science, Nadiad, on 3rd January, 2011.

#### **Webinars:**

1. International conference on Emerging Trends in Biological Sciences (ICETBS- 2022) organized by P. D. Patel Institute of Applied Sciences, Charotar University of Sciences and Technology, Changa 388421 (Gujarat, India) held during January9-11, 2022.
2. International Webinar entitled, “**Strengthening Your Understanding of Research Journals**” (Reading, Referencing and Publishing)” organized by K. J. Somaiya College of Science and Commerce in collaboration with ELSEVIER on 10th July, 2021.
3. Webinar on “**Plant-Environment Interactions and Sustainable production**” held at Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal - 576104, Karnataka on February 10, 2021.
4. Webinar (13th October, 2020) organized by the Department of Horticulture, Aromatic and Medicinal Plants (HAMP), Mizoram University, Aizawl, on the Topic entitled “**Recent Trends in Post-Harvest Preservation of Fruits & Vegetables**”.

### **Faculty Development Programme**

- ✚ One Week Online Faculty Development Programme on “**RESEARCH METHODOLOGY**” organized by School of Sciences, P. P. Savani University, Surat, from 5<sup>th</sup> to 11<sup>th</sup> October, 2020.

### **MANUSCRIPT REVIEWER:**

1. Current Journal of Applied Science and Technology
2. Food Measurement and Characterization
3. International Food Research Journal