

## Faculty Profile



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**Name:** Dr.A.Sai Padma

**Department:** Biochemistry

**Designation:** Assistant Professor & Head of the Department

**Qualification:** M.Sc, Ph.D.

**Teaching Experience:** 21 years

**Academic Positions:**

- Head, Department of Biochemistry
- Chairperson, Board of studies, Biochemistry, BVC
- Chairperson, Board of studies, Nutrition & Dietetics, BVC
- Coordinator, Medical & Health Committee, BVC
- Coordinator, P.G Merit cum Means Scholarships, BVC
- Member, Research Committee, BVC

**Areas of Interest:** Protein and lipid Biochemistry.

### ❖ Research Projects Undertaken:

1. Women Scientist Scheme (grant No.SR/WOS-A/LS-344/2003) from 2004 to 2007 on “Metabolism of arachidonic acid in the sheep uterus: Effect of estradiol-17 $\beta$ ”, sanctioned by Department of Science and Technology, Govt of India, New Delhi. Sanctioned amount: 11,45,419/-
2. Post-doctoral research award during 2012-2014 on “Identification and possible role of 5, 6-leukotriene in sheep uterus”, sanctioned by University Grants Commission, Govt of India, New Delhi. Sanctioned amount: 14,36,762/-

## ❖ Publications:

### • International:

1. Vaishnavi, V., Tahseen, J., & **Padma, A. S.** (2020). Amylases and Phosphatases in Soil. *Bull. Env. Pharmacol. Life Sci*, 9 [7], 86-90.
2. Nandini, B. B., & **Padma, A.S.** (2019). Isolation of Papain from leaf & latex of Papaya (*Carica Papaya*) and study of various factors affecting enzyme activity. *International Journal of Scientific Research in Biological Sciences*, 06(01), 89-92.
3. Mounika, A., & **Padma, A.S.** (2019). Extraction, Separation and Determination of Carotenoid content in Vegetables and Fruits. *International Journal of Scientific Research in Biological Sciences*, 06(01), 93-95.
4. **Padma, A.S.**, Rajani, D., & Usha, M. (2018). Implementation Options of Research-Oriented Teaching. *New Man International Journal of Multidisciplinary studies*, 5(5), 172-176.
5. Rajani, D., **Padma, A. S.**, & Usha, M. (2017). E-Health and its implications. *International Journal of Advance Research in Science and Engineering*, 6(01), 182-184.
6. Padma, S., **Padma, A.S.**, Rajani, D. (2017). Natural antioxidants present in capsicum annum extracts modulate calcineurin activity under conditions of oxidative stress. *Imperial Journal of Inter disciplinary Research*, 13 (1), 1819-1822.
7. Sukumaran, M. K., **Padma, A.S.**, Vanitha, S., Rajani, D., & Padma, S. (2016). Frequency of ABO and Rh Blood Groups among High School Children of Alwal, Secunderabad, Telangana, India. *IOSR J Dental Med Sci*, 1(15):47-49.
8. **Padma, A. S.**, Sukumaran, M.K., Padma, S., Rajani, D., & Vanitha., S. (2016). Evaluation of Nutritional Status of College Girl Students in terms of Haemoglobin levels and BMI. *Journal of Medical Science and Clinical Research*, 04(09), 12822-12827.
9. **Padma, A. S.**, Prasad, T. S., Rajani, D., & Vanitha, S. (2015). Effect of estradiol -17  $\beta$  on arachidonic acid metabolism in sheep uterus: *in vitro* studies. *IOSR Journal of Biotechnology and Biochemistry*, 1 (5), 34-40
10. PremKumar, V., Sindhusree, V., Rajani, D., **Padma, A.S.**, & Sukumaran, M.K. (2015). Determination of haptoglobin Phenotype in cardiac and diabetic patients. *Indian Journal of Biotechnology and Biochemistry*, 2(1), 39-46.

11. Dinesh, B., Yadav, R., Reddy, D., **Padma, A.S.**, & Sukumaran, M.K. (2015). Determination of Ascorbic Acid Content in Some Indian Spices. *Int. Curr. Microbiol. Appl. Sci*, 4, 864–868.
12. Sukumaran, M.K., **Padma, A.S.**, Rajani, D., Vanitha, S., & Padma, S. (2015). Distribution of ABO and Rh Blood Groups among Students of Bhavan's Vivekananda College, Secunderabad, Telangana, India. *IOSR J Dental Med Sci* 4 (12), 59-62.
13. Deshpande, T., **Padma, A.S.**, Sukumaran, M.K., & Rajani, D. (2015). Enzymatic activity levels of lipoxygenase (LOX) in germinating green gram seeds (*Vigna radiate*). *Int. J. Curr. Microbiol. Appl. Sci*, 4, 621–628.
14. **Padma, A. S.**, Renil, M., & Thampan, R. V. (2000). Protein-protein interactions that precede the nuclear entry of goat uterine estrogen receptor under cell-free conditions. *Journal of cellular biochemistry*, 78(4), 650–665.
15. **Padma, A. S.**, & Thampan, R. V. (2000). Interdependence between a 55 kDa Protein (p55) and a 12 kDa Protein (p12) in Facilitating the Nuclear Entry of Goat Uterine Estrogen Receptor under Cell-Free Conditions. *Biological Chemistry*, 381(4), 285-94.

- **National :**

1. **Padma, A. S.**, Babu, N. C., Rajani, D., Mini, G. S., & Kumari, I. R. (2020). Protective measures taken up by the College for conducting examinations during COVID-19 pandemic: A Satisfaction survey from students and staff. *Indian J Community Health* , 32(4), 727-730.
2. **Padma, A. S.**, Agarwal, S., Reddy, D. B., Prasad, T. S., & Reddanna, P. (2007). Metabolism of arachidonic acid in sheep uterus: *in vitro* studies. *Indian J. Biochem. Biophys*, 44, 216–222

◆ **Papers Presented (Last five years):**

1. “Isolation and characterization of Peroxidase enzyme from various vegetable sources”- Two Day National Seminar on Eco-Friendly Strategies for Sustainable Environment, Bhavan's Vivekananda College, Hyderabad (28<sup>th</sup> & 29<sup>th</sup> February 2020).
2. “Soil enzymes and their potential roles in the Ecosystem”- Two Day National Seminar on Eco-Friendly Strategies for Sustainable Environment, Bhavan's Vivekananda College, Hyderabad (28<sup>th</sup> & 29<sup>th</sup> February,2020).
3. “Green Synthesis of Zinc and Silver Nanoparticles from Different Plant Sources”- Two Day National Seminar on Eco-Friendly Strategies for Sustainable Environment, Bhavan's Vivekananda College, Hyderabad (28<sup>th</sup> & 29<sup>th</sup> February,2020).

4. “Estimation of citric acid from soft drinks, energy drinks and fruit juices of BVC canteen to analyze safety levels of consumption”- Two Day National Seminar on “Innovations in Nanobiotechnology, Bhavan’s Vivekananda College, Hyderabad (27<sup>th</sup> and 28<sup>th</sup> February 2019).
5. “Extraction and purification of carotenoids from vegetables and fruits”- Two Day National Seminar on “Innovations in Nanobiotechnology, Bhavan’s Vivekananda College, Hyderabad. (27<sup>th</sup> and 28<sup>th</sup> February 2019).
6. “E Health and its Implications”- Two Day National Seminar on “Internet of Things” Applications and Security, Bhavan’s Vivekananda College, Hyderabad. (7<sup>th</sup> & 8<sup>th</sup> September 2017).
7. “Implementation options of Research Oriented Teaching”- National Seminar on “Revised NAAC Framework: The Road Ahead Towards Excellence in Quality Education, Bhavan’s Vivekananda College, Hyderabad. (21<sup>st</sup> April 2018).
8. “Determination of Vitamin C & iron contents in Germinating Green gram(*Vigna radiata*) & Bengal gram ( *Cicer arietinum* )seeds”-Two day National Seminar on “ Recent Advances in Food Biotechnology” Bhavan’s Vivekananda College, Hyderabad (17<sup>th</sup> – 18<sup>th</sup> February 2016)

#### ◆ **Awards / Recognitions**

1. Received “UGC-Research Award” from University Grants Commission, Govt. of India, New Delhi during 2012-14.
2. Received GATE fellowship from 1992-93, by securing 99.95 percentile.
3. Received UGC-CSIR fellowship under JRF and SRF for years 1993-98.
4. Member, Board of Studies, Department of Biochemistry, Hindi MahaVidyalaya, Hyderabad.
5. As Reviewer for Journal of Pharmaceutical Research International (web of Science) for an article.

#### ◆ **Invited Guest Lectures:**

- Invited as resource person for Ph.D course work at department of Biochemistry, Osmania University on 28<sup>th</sup> August, 2019.

#### ❖ **Workshops/ Refresher courses /Training programs Attended: (Last Five Years)**

## **Workshops :**

1. Skill Development Program Webinar Series "Advanced Topics in Life Sciences", organized on 8<sup>th</sup> -12<sup>th</sup> February, 2021 by Centre for cellular and Molecular Biology (CCMB), Tarnaka, Hyderabad.
2. Biosimilar Workshop on "Protein aggregation using Dynamic Light Scattering" organized on 28<sup>th</sup> January, 2021, conducted by Institute of Chemical Technology, Mumbai.
3. Three-day online workshop on "Online Course Design, Development and Delivery" organized on May, 26-28, 2020 by Human Resource Development Centre, University of Hyderabad.
4. "Seven Days National Online Workshop In Applied Life-sciences" organized from 24<sup>th</sup>-30<sup>th</sup> July 2020 by Department of Microbiology and Zoology, Nizam College(A) Osmania University, Hyderabad
5. Five-day online Faculty Development Programme on "Building Competency for Online Teaching" organized on 6<sup>th</sup> -10<sup>th</sup> June, 2020 by Bhavan's Vivekananda College in Collaboration with University of Hyderabad UGC- Human Resource Development Centre, Hyderabad.
6. National level faculty development webinar on ICT tools in Education "Experiential learning with online simulations and virtual labs" organized on 5<sup>th</sup> May, 2020 by RBVRR women's college, Hyderabad.
7. NPTEL online Certification on "Experimental Biotechnology", conducted from September to December, 2020 by Indian Institute of Technology, Kanpur.
8. One day Workshop on "Using Models to teach Molecular Biology" organized on 3<sup>rd</sup> January, 2020 by College of Integrated Studies, University of Hyderabad.
9. UGC Orientation Workshop on "Adoption, Promotion and Production of MOOCs for SWAYAM platform" organized on 31<sup>st</sup> August, 2018 by South Eastern Regional Office, University Grants Commission, Hyderabad.
10. Workshop on "Basic Cell Culture Techniques" 29<sup>th</sup> – 31<sup>st</sup> November, 2015 organized from 29<sup>th</sup> – 31<sup>st</sup> November, 2015 by National Institute of Nutrition & Department of Biochemistry, BVC, Hyderabad.

## **Refresher courses:**

1. Summer School (UGC - HRDC Sponsored) on "Strategies for Research Oriented Teaching" organized on 6<sup>th</sup> June to 25<sup>th</sup> June, 2016 by JNTU, Hyderabad. Sheik Jan Basha, Lecturer,

## **Seminars /Conferences-Organized:**

- **Co-convenor** - National Seminar "Eco-friendly strategies for Sustainable Environment held on 28<sup>th</sup> and 29<sup>th</sup> February, 2020.
- **Convenor** -Two day national seminar on Innovation in Nanobiotechnology held on 27<sup>th</sup> and 28<sup>th</sup> February, 2019.
- **Co-convenor**- Two day national seminar- Recent trends and Advances in Food Biotechnology held on 16<sup>th</sup> & 17<sup>th</sup> February 2016.

**Consultancy:**

1. Consultancy offered in “Protein purification techniques” to Ms.Jalaja, c/o. Dr.M.Raghu Ram, Dept. of Botany & Microbiology, Acharya Nagarjuna University, Andhra Pradesh (2010).
2. Consultancy offered in “Determination of enzyme activities of  $\alpha$ -amylase, catalase, urease and invertase” to Mr. Sheik Jan Basha, Lecturer, Govt. Junior College, Kukatpally (2013).

**Membership of Professional Bodies:**

1. Epidemiology Foundation of India.
2. Indian Women Scientist Association (IWSA)