

## Faculty Profile – Dr.Y.Aparna

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### CONTACT

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Name: Dr.Y.Aparna

Department: Microbiology

Designation: Assistant professor

Qualifications : M.Sc in Microbiology , Ph.D in Biotechnology

Experience :19 years of teaching experience

#### ❖ Academic Positions :

1. Coordinator for Canteen committee
2. Member of NAAC Screening Committee, Green Audit, Admissions committee, Purchase Committee, Xpressionz club, Science Club

**Areas of Interest:** Quorum Sensing, Quorum Quenching, Meta Analysis, Bioremediation

#### ❖ Research Projects Undertaken:

#### **Completed UGC Minor Research Project(2015-17):**

Title : “Screening of Microorganisms for Quorum sensing Inactivation”

Amount Sanctioned : 3,75,000

#### ❖ Publications:

#### **International**

1. **Aparna, Y.**, Anuradha, K., Jyothi, C., Manjari, K. S., &Challa, A. K. (2020). Bringing Real-World Microbiology Experiences to Undergraduate Students in Resource-Limited Environments. *Frontiers in microbiology*, 11.

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- Pandey, R., & **Aparna, Y.** (2019). Biodegradation of Organo phosphorous Pesticide Dichlorvos by bacteria isolated from field sample. *International Journal of Scientific Research in Biological Sciences*, 6, 41-45.
- Ramya Krishna,A., **Aparna, Y.** (2019) "Screening and Isolation of Antibiotic producing Microorganisms from Soil", *International Journal of Scientific Research in Biological Sciences*.6(1), pp.46-49.
- Sagar, B. S. V., Deepak, B. S., Tejaswini, G. S., **Aparna, Y.**, & Sarada, J. (2019). Evaluation of Prodigiosin pigment for antimicrobial and insecticidal activities on selected bacterial pathogens & household pests.*International Journal of Scientific Research in Biological Sciences*.6(1), 96-102
- Aparna, Y.**, & Sarada, J (2017).Meta analysis of Lactonases for identification of conserved sequences using bioinformatics tool. *International Journal of Advance Research in Science and Engineering*. 6 (1),pp 263-266
- Aparna, Y.**, & Sarada, J ( 2015) Quorum quenchers –Past, present and future of this novel therapeutics. *World journal of Pharmacuetical and life Sciences*. 1(3), 108-128.
- Reddy, Y. S., Ramalaksmi, B. **Aparna, Y.**, & Kumar, B. D. (2014). Lead and trace element levels in placenta, maternal and cord blood: A cross-sectional pilot study. *Journal of Obstetrics and Gynaecology Research*, 40(12), 2184-2190.
- Kranthi, S. U., **Aparna, Y.**, & Sarada, J. (2014). Biofilm dispersal activity of DNase produced by *Serratia* sps YAJS. *Int. J. Curr. Microbiol. App. Sci*, 3(6), 839-849.
- Aparna, Y.**, Kranthi, S. U., & Sarada, J. (2014). *Syzygium aromaticum*—a common food spice with potential quorum quenching activity on *Serratia* sps YAJS. *Int J Curr Microbiol Appl Sci*, 3, 93-102.
- Aparna, Y.**, Narayanan, L., & Sarada, J. (2014). Quorum quenching ability of dietary spice *Cinnamomum verum* on pathogenic bacteria. *International Journal of Pharmaceutical Sciences and Research*, 5(12), 5216-5223.
- Sreenivasulu, C., & **Aparna, Y.** (2001). Bioremediation of methylparathion by free and immobilized cells of *Bacillus* sp. isolated from soil. *Bulletin of environmental contamination and toxicology*, 67(1), 98-105.

### National:

- Aparna, Y.**, & Sarada, J. (2017). Anti Quorum Sensing Activity of *Enterobacter* spp. Isolated from Soil. *Indian Journal of Science and Technology*, 10(8).pp 1-4.
- Aparna, Y.**, & Sarada, J. (2012). Molecular characterization and Phylogenetic analysis of *Serratia* sp-YAJS—an extracellular Dnase producer isolated from rhizosphere soil. *Science Research Reporter*, 2(1), 104-109.
- Butti, S. K., Amrithesh Kumar, A., Madhuri, S., Selva Kumar, V., **Aparna, Y.**, & Anuradha, K. (2012). Prevalance of Thyroiditis among the population of Hyderabad and Secunderabad regions-A survey report. *Indian Journal of Medicine and Healthcare*, 1(7).

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4. **Aparna, Y.**, Sailendra, K., & Sarada, J. (2010). Evaluation of phytochemicals in certain Indian spices for quorum sensing inactivation in a plant pathogenic bacteria. *Bioscan*, 5(4), 571-572.

### **Book Chapter:**

1. Anju, S., **Aparna, Y.**, Bhima, B., & Sarada, J. (2018). Novel Insights on the Bacillus Quorum Sensing Mechanism: Its Role in Competence, Virulence, Sporulation and Biofilm Formation. In *Implication of Quorum Sensing System in Biofilm Formation and Virulence* (pp. 313-327). Springer, Singapore.

### **Books Authored:**

1. Sarada,J., Aparna,Y., Anju,S., Neetu Bali. Text Book of Biochemistry, Maruthi Publishers, 2008

### ❖ **Papers Presented**

1. J.Swathi, G.Chaitanya, Vanitha.s, Prerana Loomba, Anju.S and **Aparna.Y** Antimicrobial efficacy and characterization of biologically synthesized silver nanoparticles from crude extract mixture of Ficus benjamina and Cynodondactylon. International e conference on Advances in Microbial biotechnology and Biotherapeutics (AMTB-2020),Osmania University in association with CMFT,and AMI Hyderabad chapter.10-12<sup>th</sup> September,2020
2. J.Swathi, G.Chaitanya, Vanitha.s, Prerana Loomba, Anju.S and **Aparna.Y**.Antimicrobial activity of biologically synthesized nanoparticles from Cynodondactylon. National e conference on Advances in Science,technology,Commerce and Management,organized by Aurora college ,Hyderabad. 29<sup>th</sup>--31st July 2020
3. M.Kavya, G.Akshaya, T.Bhavya, S.Om Murthy and **Y. Aparna**. Characterization of Exopolysaccharide produced by Rhizobium sps isolated from root nodules of Arachis hypogaeae (Groundnut) and Trigonella foenum-graecum (Methi).International e conference on Advances in Microbial biotechnology and Biotherapeutics (AMTB-2020),Osmania University in association with CMFT,and AMI Hyderabad chapter.10-12<sup>th</sup> September,2020.
4. Ravi Pandey and **Aparna.Y**.Biodegradation of organo phosphorous pesticide Dichlorvos by bacteria isolated from field sample. Two day National seminar on Innovations in Nanobiotechnology ,Organized by Departmens of Microbiology & Biochemistry,BVC,Hyderabad. 27<sup>th</sup>& 28<sup>th</sup> February ,2019
5. T. Blessy Jasper, V.Selva Kumar and **Aparna.Y**.Meta analysis of Factors influencingPhytase production. Two day National seminar on Innovations in Nanobiotechnology ,Organized by Departmens of Microbiology & Biochemistry,BVC,Hyderabad. 27<sup>th</sup>& 28<sup>th</sup> February ,2019
6. Ramya Krishna and **Aparna.Y**.Screening, Isolation and Characterization of Antibiotic producing Microorganisms from Soil. Two day National seminar on Innovations in

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Nanobiotechnology ,Organized by Departments of Microbiology & Biochemistry,BVC,Hyderabad. 27<sup>th</sup>& 28<sup>th</sup> February ,2019

7. G.SaiTejaswini and **Aparna.Y**. Isolation and characterization of pigment producing Bacteria from Musi river samples. Two day National seminar on Innovations in Nanobiotechnology ,Organized by Departments of Microbiology & Biochemistry,BVC,Hyderabad. 27<sup>th</sup>& 28<sup>th</sup> February ,2019
8. Karunya Rajaram and **Aparna.Y**. Identification of quorum sensing bacteria from spoiled Fig fruit.Two day National seminar on Innovations in Nanobiotechnology ,Organized by Departments of Microbiology. 27<sup>th</sup>& 28<sup>th</sup> February ,2019
9. Venkata Ratnam and **Y.Aparna**. Analysis of physical and chemical properties in different types of curds. Two day national seminar on Food safety quality and policy ,organized by Government Degree and PG college,Gajwel. 28<sup>th</sup>& 29<sup>th</sup> June,2018

### ❖ **Awards / Recognitions:**

- Recognized as content developer for RBPT resources developed by IISER Pune in collaboration with Newton Bhabha Fund, British Council and Sheffield Hallam University,UK
- Qualified Resource person for “ Train the trainers” modules of Level 1 and Regional workshops of RBPT
- Best paper award in National conference on Advances in Fermentation Technology, Nov 9<sup>th</sup> & 10<sup>th</sup>,2008 organized by MGNIRSA 2012

### **Invited Guest speaker**

- Resource person for Regional RBPT workshop organized at BVC from 17<sup>th</sup> to 19<sup>th</sup> January ,2017
- Invited Guest speaker for delivering lecture on Use of RBPT tools in Biology at St.Francis College for women on 2<sup>nd</sup> and 3<sup>rd</sup> April ,2017

### ❖ **Workshops/ Refresher courses /Training programs Attended**

### **Workshops attended:**

1. International online workshop for undergraduate biology teachers on ‘student centric methods’ organized by Department of Microbiology under DBT STARcollege scheme from 2<sup>nd</sup>- 11<sup>th</sup> november 2020
2. virtual CRISPER workshop for undergraduate biology educator organized by Centre for advancement of research skills Dr Reddys Institute of of life sciences University of Hyderabad Campus from 15<sup>th</sup> to 20<sup>th</sup>, June 2020
3. Research capability building a strategy to promote research culture in higher education organized by IQAC,BVC from 12-14 May 2020

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4. 3- Day online workshop on outcome based education and online course design, development and delivery organized by HRDC,University of Hyderabad from 11th-13th may 2020
5. Recent trends in bioinformatics for exploratory analysis of biological data organized by Faculty of life sciences,St.Francis college for women from 16-18<sup>th</sup> Jan 2020
6. National level workshop on NIRF india rankings organized at JNTU from 18 & 19 Oct 2019
7. 3 day hands on workshop on exploring microbial diversity with 16s Rrna profiling for UG biology educators organized by DRILLS,HCU from 22-24 Aug 2019
8. RBPT writers workshop organized by IISER Pune, DBT and Newton Bhabha Fund(BritishCouncil) from 20-23 Jan 2019
9. Level 2 Workshop on Research based pedagogical tools organized by IISER Pune, DBT and Newton Bhabha Fund(BritishCouncil) from 17<sup>th</sup>-19<sup>th</sup> Jan-2018
10. Regional Workshop on Research based pedagogical tools organized by Chalapathi Institute of Pharmaceutical Sciences, Guntur in collaboration with IISER Pune from 19-21<sup>st</sup> July 2017

### **Refresher courses:**

- Refresher course in Life science organized by UGC HRDC from 29.10.2018 TO 20.11.2018

### **Faculty Development Program(FDP):**

1. COVID-19: What you need to know organized by Interstate postgraduate medical association from 15 th to 22<sup>nd</sup> April 2020
2. FDP on Green Audit organized by Osmania university and environment protection training and research institute, Hyderabad from 9<sup>th</sup> -14<sup>th</sup> August 2020
3. 5- day online FDP on building competency for online teaching organized by Department of languages and IQAC, BVC from 6<sup>th</sup> to 10<sup>th</sup> June 2020
4. NPTEL-FDP course(Managing intellectual property in universities) from Jan-Feb 2019
5. NPTEL FDP (Bio-informatics: Algorithms and Applications) from Jan-Apr,2019
6. NPTEL-FDP course (integrated solid waste management for twin cities) from July-Oct 2017

### **Membership of Professional Bodies**

- Life member for Association of Microbiologists of India.