

**SHRI PUNDLIK MAHARAJ MAHAVIDYALAYA,
NANDURA DIST BULDANA**

Faculty Profile

1. Name: Dr. Ravikumar B. Shinde

2. Address: C/o Mr. S. J. Awkale,
Krushna Nagar, Buldana Rd.
Nandura Dist. Buldana

3. Phone no: +91 8668489049

4. Email: ravibshinde19@gmail.com

5. Designation: Assistant professor

6. Department: Zoology

7. Area of specialization: Animal cell culture, Biofilms, Drug repurposing,
Neurotoxicity, Fishery



8. Academics:

Degree	Subject	Year	University
Ph. D.	Biotechnology	2012	S. R. T. M. University, Nanded
M. Sc.	Zoology	2019	S. R. T. M. University, Nanded
M. Sc.	Biotechnology	2003	S. R. T. M. University, Nanded
B. Sc.	Biological sciences	2001	S. G. B. Amravati University, Amravati

9. Ph. D. Thesis: 'A study on biofilm formation by *Candida albicans* and its susceptibility to antifungal drugs.'

10. Post-Doctoral Research: Post-Doctoral Associate at Department of Cellular Biology and Pharmacology, HWCOR, Florida International University, Miami (FL), USA

11. Awards and Achievements:

- I. Senior Research Fellowship (Jan 2010 to Dec 2012) awarded by Indian Council of Medical Research (ICMR), India.
- II. Citations (till 28/11/2020): **379**; h-index: **09**, i10 index: **09**

- III. Research paper cited in Nature Reviews Drug-Discovery, Nature Publications, Critical Reviews in Microbiology (Taylor & Francis), Antimicrobial Agents and Chemotherapy, ASM Publishers, Expert Review of Anti-infective Therapy and Frontiers in Anti-infective Therapy
 - IV. Research papers cited in Frontiers in Medicine, Scientific reports, Nature Group, International Journal of Antimicrobial Agents, Elsevier
 - V. Research papers cited in RSC Advances, RSC, Frontiers in Biotechnology and Bioengineering
12. **Research experience:** 1.6 yrs.
 13. **Technical expertise:** Animal cell culture, *Caenorhabditis elegans* handling, Genetic Engineering, Protein Biochemistry, HPTLC, HPLC, ICP-MS
 14. **Professional Development**
Journal's Referee:
 Nature group's Scientific Reports, Nature group's Journal of Antibiotics, Frontiers in Microbiology, Microbial Pathogenesis, Natural Product Research, International Journal of Biological Sciences
 15. **Publications:**
 - I. **Shinde RB**, Veerapandian M, Kaushik A, Manickam P. State-of-Art Bio-Assay Systems and Electrochemical Approaches for Nanotoxicity Assessment. Front Bioeng Biotechnol. 2020; 8: 325. **(IF 5.122)**
 - II. Kunie Yoshinaga-Sakurai, **Ravikumar Shinde**, Myosotys Rodriguez, Barry P. Rosen and Nazira El-Hage. Comparative cytotoxicity of inorganic arsenite and methylarsenite in human neurons and brain microvascular endothelial cells. ACS Chem. Neurosci. 2020, 11, 743–751. **(IF- 3.861)**
 - III. **Ravikumar B. Shinde**, Nitin M. Chauhan, Jayant S. Raut and S. Mohan Karuppayil. 2012. Sensitization of *Candida albicans* biofilms to various antifungals by Cyclosporine-A. Annals Clin Microbiol Antimicrob. 11:27 **(IF-3.924)**
 - IV. **Ravikumar B. Shinde**, Jayant S. Raut and S. Mohan Karuppayil. 2012. Biofilm formation by *Candida albicans* on various prosthetic materials and

its fluconazole sensitivity: A kinetic study. Mycoscience. 53 (3): 220-226.
(IF-1.38)

- V.** Jayant S. Raut, **Ravikumar B. Shinde**, Nitin M Chauhan and S. Mohan Karuppayil. 2013. Terpenoids of plant origin inhibits morphogenesis, adhesion and biofilm formation by *Candida albicans*. Biofouling. 21 (1): 87-96. **(IF-2.847)**
- VI.** **Ravikumar B. Shinde**, Jayant S. Raut, Nitin M. Chauhan and S. Mohan Karuppayil. 2013. Chloroquine sensitizes biofilms of *Candida albicans* to antifungal azoles. Braz J Infect Dis. 17(4):395-400. **(IF-2.223)**
- VII.** **Ravikumar B. Shinde**, Sandeep B Rajput, Jayant S. Raut and S. Mohan Karuppayil. 2013. An *in vitro* repositioning study reveals antifungal potential of chloroquine to inhibit growth and morphogenesis in *Candida albicans*. J Gen Appl Microbiology. 59 (2):167-170. **(IF-1.172)**
- VIII.** Raut JS, **Shinde RB**, Chauhan NM, Karuppayil SM. 2014. Phenylpropanoids of plant origin as inhibitors of biofilm formation by *Candida albicans*. J Microbiol Biotechnol. 24 (9): 1216-1225. **(IF-1.975)**
- IX.** Kathwate GH, Shinde RB and SM Karuppayil. 2015. Antiepileptic Drugs Inhibit Growth, Dimorphism and Biofilm Mode of Growth in Human Pathogen *Candida albicans*. Assay and drug Development technologies. 307-312. **(IF-1.420)**
- X.** Sandeep B Rajput, **Ravikumar B Shinde**, Madhushree M Routh and Sankunny M Karuppayil. 2013. Anti-*Candida* properties of asaron aldehyde of *Acorus gramineus* rhizome and three structural isomers. Chinese Medicine. 8:18. **(IF-2.265)**
- XI.** Jayant S. Raut, **Ravikumar B. Shinde** and S. Mohan Karuppayil. 2012. Indole, a bacterial signaling molecule, exhibit inhibitory activity against *Candida albicans* growth, dimorphism and biofilms. Afr J Microbiol Res. 6 (30): 6005-6012. **(IF-0.192)**
- XII.** Nitin M. Chauhan, **Ravikumar B. Shinde** and S. Mohan Karuppayil. 2014. Effect of alcohols on filamentation, growth, viability and biofilm

development in *Candida albicans*. Braz J Microbiol. 10;44 (4): 1315-20.
(IF-1.302)

- XIII.** Jayant S. Raut, Nitin M. Chauhan, **Ravikumar B. Shinde**, S. Mohan Karuppayil. 2013. Inhibition of planktonic and biofilm growth of *Candida albicans* reveals novel antifungal activity of caffeine. J Medicinal Plant Res. 7(13): 777-782. **(IF-0.49)**
- XIV.** Raut JS, Rajput SB, **Shinde RB**, Surwase BS, Karuppayil SM. 2013. Vanillin inhibits growth, morphogenesis and biofilm formation by *Candida albicans*. J Biol Act Prod Nat. 3(2): 130-138.
- XV.** Manisha P. Mangulkar, Madhushree M, Routh, **Ravikumar B. Shinde** and S. Mohan Karuppayil. 2013. Ethnic uses of medicinal plants for gynecological care from thirty-eight villages of India. Asian J Trad Med. 7(6): 195-207. **(IF-0.40)**

16. Book chapters:

- I.** Evelyn Garcia*, **Ravikumar Shinde***, Stephanie Martinez, Ajeet Kaushik, Hitendra S. Chand, Madhavan Nair, Rahul D. Jayant. 2019. Cell-Line-Based Studies of Nanotechnology Drug-Delivery Systems: A Brief Review. **Nanocarriers for Drug Delivery**. 375-393. Elsevier Inc.
<https://doi.org/10.1016/B978-0-12-814033-8.00012-6> ISBN 978-0-12-814033-8 [* equal contribution]
- II.** Tanya Chibbar[#], **Ravikumar Shinde[#]**, Behnaz Lahooti, Sounak Bagchi, Anusha Gaddam, Amit Jaiswal, Hitendra Shah and Rahul Dev Jayant. Hydrogels in Tissue Engineering. **Intelligent Hydrogels in Diagnostic and Therapeutics. (2020). CRC Press**,
<https://doi.org/10.1201/9781003036050>, ISBN 9781138361218. [# equal contribution]

17. Contribution to society and scientific community:

- I.** Invited as **resource person** in a National Conference on, 'Rural Development: Issues and Challenges' organized by L. B. D. G. College, Umri (MS), India (Dec 19th, 2019).
- II.** Worked as reviewer for several scientific journals.

18. Conference presentation/Abstract/Participation

A. International Conferences:

- 1. ASM-Microbe-2020** organized by **American Society for Microbiology** at Chicago (IL), USA. June 22 - Aug. 17, 2020. Organized by American Society for Microbiology, Washington, DC.; *Candida* Biofilm Sensitization by Non-antifungals. (e-poster presented. Poster No; Virtual 320- AAR03)
- 2. 11th ASM Conference on *Candida* and Candidiasis**, organized by **American Society for Microbiology**. March 29 to April 2, 2012, in San Francisco, CA, USA. Biofilm formation by *Candida albicans* and its fluconazole sensitivity: A kinetic study with various strains and prosthetic materials. (Abstract published. Abstract No. 58A, page no. 110).
- 3. International Conference on, 'Biology of Yeasts and Filamentous Fungi' (BYFF-2009)**, organized by CCMB, Hyderabad (Dec-2009).
- 4. International Conference on, 'Biology of Yeasts and Filamentous Fungi' (BYFF-2007)**, organized by NCL, Pune and Agharkar Research Institute Pune during Feb 15th to 17th, 2007.

B. National conferences:

- 1. National seminar on NAAC (RAF) related Quality Assurance Strategy** organized by IQAC cell, RSM Latur (Jan 2020)
- 2. One day National Conference on Rural Development: Issues and Challenges**, organized by LBDG College, Umri (Dec 2019).
- 3. One day National Workshop on Startups, Innovations and Intellectual Property Rights (IPR)**, organized by RSM, Latur (July 2019).
- 4. National seminar on Drug Discovery from Plants: Promises and Challenges - 2012.** Organized by SRTM University, Nanded (Feb-2012).