

Curriculum vitae

PERSONAL INFORMATION



Chandrakant Prakash Narkhede

📍 Current address- C/O Dr. Satish V. Patil, Lab No-120, School of Life Sciences, North Maharashtra University, Po. Box-80, Umavi nagar, Bhambhori, Jalgaon 425001.

Permanent address- Near Ram mandir, A/P- Nadgaon, Tal- Bodwad, Dist-Jalgaon, 425310, 425001 JALGAON (India)

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POSITION

Ph.D student -Senior Research Fellow (UGC-BSR)

WORK EXPERIENCE

06/2013–Present

Senior Research Fellow

School of Life Sciences, North Maharashtra University, Jalgaon (India), Jalgaon (India)

Experimental works related to Microbiology and Biochemistry.

“Combinational study of chemical, botanical and Biological control agent preparation of effective combination against mosquito larvae.”

Study the effect of the combination on mosquito larvae.

Preparation of new optimized formulation of chemical and biological insecticide mixture.

Study the accumulation and tolerance of Bti with insecticide

Studied the preparation of formulation and evaluated its mosquito larvicidal potential against the mosquito in form of calculating the mortality, CTC, action potential, synergistic action.

Studied the Biochemical changes during treatment of combination /Mixture

Also observed the toxicity effect of the prepared combination on the non-target organism.

05/2014–08/2015

Junior Research Fellow

School of life Sciences North Maharashtra University, Jalgaon (India)

DBT sponsored Project entitled in "Screening of Mosquito larvicidal toxin Producing Microbes"

Isolation of Toxin-producing Microbes, identification, and maintain.

Screening of spore-producing microbes, testing of toxin-producing microbes against different mosquito larvae,

Purification of toxin and quantitative estimation.

05/2012–03/2014

Project Assistant

School of Life Sciences, North Maharashtra University, Jalgaon (India)

RGSTC sponsored Project entitled "Biofertilizer and Biopesticides are Bank for Local Farmer"

Isolation and identification of agricultural important microbes and pesticide-degrading microbes, metal accumulating microbes from the different agricultural soil sample and maintain.

Preparation of effective Biofertilizer and studied the chemical pesticide degradation by agriculturally important microbes. Observed the efficiency of Biofertilizer isolated into the field

07/2011–05/2012

M.Sc Dissertation Project

Department of Biochemistry, School of Life Sciences, North Maharashtra University, Jalgaon (India)

Dissertation Title- "Isolation, identification, and characterization of imidacloprid degrading bacteria from local soil."

Isolation of imidacloprid degrading bacteria from pesticide contaminant soil sample. identification and characterization of isolated by biochemical and Berkey's manual test.

Studied the pattern of imidacloprid pesticide degradation by Uv visible spectrophotometrically and chromatography techniques and also studied the Phytotoxicity effect of Imidacloprid degraded residue on seed germination

EDUCATION AND TRAINING

- 05/2013–Present **Ph.D in Biochemistry (Thesis submitted)**
North Maharashtra University,, Jalgaon (India)
Ph.D. Topic-" Combination Studies of Bacillus thuringiensis israelensis with Some Chemical and botanical pesticide for Mosquito Larvae Control
- 2010–2012 **M.Sc in Biochemistry (76.5%)**
School of Life Sciences, North Maharashtra University,, Jalgaon (India)
Enzymes and Enzymology, Microbial Physiology, Bioenergetics and Metabolism, Environmental Toxicology, Human Physiology, Immunology, Genetics, Molecular Biology, Plant tissue culture, Plant Biochemistry, Analytical Biophysics, Biostatistics,
- 2006–2010 **B.Sc in Biotechnology (69.83%)**
School of Life Sciences, North Maharashtra University, Jalgaon, Jalgaon (India)
Biotechnology, Botany, Mathematics, Chemistry, Environmental Sciences English, Marathi.

PERSONAL SKILLS

Mother tongue(s) Marathi

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
Hindi	C2	C2	C1	C1	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Good communication skill gained through my experience as UGC-BSR research fellow (Teaching)

Job-related skills Well experienced in handling various types of biological bioassay (antimicrobial, enzymes activity, chemical testing on target and non target, antioxidant, Phytotoxicity assay)
Worked experience on chemical pesticide degradation by microorganisms, and their metabolites effect on germination.
Worked Experience on isolation and purification of agriculturally important microbial culture.
Work Experience on green synthesis using plant latex.
Maintains and culturing of insect and aquatic organisms
Theoretical and practical knowledge on chromatography and electrophoresis techniques, clinical testing
Analytical techniques:-
Experience on handling analytical instrument like UV vis spectrophotometer, Nanodrop spectrophotometer, ELISA reader
Experience on handling of non conventional techniques and instruments like
Autoclave (industrial and lab), lyophilizer, bioreactor, rotary evaporator,
Sonicator, pH meter, microwave, cooling centrifugation, insect chamber, soxhlet apparatus, distillation assembly, motic camera microscope with software.
Experience on handling on statistics software like, Ms excel, graph pad prism, mintab (trail version)

Publications

- Patil, S. V., Patil, C. D., **Narkhede, C. P.**, Suryawanshi, R. K., Koli, S. H., Shinde, L., and Mohite, B. V. (2018) Photosynthesized Gold Nanoparticles-Bacillus thuringiensis (Bt-GNP) Formulation: A Novel Photo Stable Preparation Against Mosquito Larvae. *Journal of Cluster Science*, 1-7.
- Mohite, B. V., Koli, S. H., **Narkhede, C. P.**, Patil, S. N., and Patil, S. V. (2017). Prospective of Microbial Exopolysaccharide for Heavy Metal Exclusion. *Applied biochemistry and biotechnology*, 183(2), 582-600.
- **Narkhede, C. P.**, Patil, C. D., Suryawanshi, R. K., Koli, S. H., Mohite, B. V., and Patil, S. V. (2017). Synergistic effect of certain insecticides combined with Bacillus thuringiensis on mosquito larvae. *Journal of Entomological and Acarological Research*, 49(1).
- **Narkhede, C. P.**, Koli, S. H., Suryawanshi, R. K., Patil, C. D., Borase, H. P., and Patil, S. V. (2016). Potentiation of Bacillus thuringiensis by using some natural products: Novel preparations against dengue vector Aedes aegypti larvae. *Indian Journal of Natural Products and Resources* 7(3):229-233 .
- **Narkhede, C. P.**, Suryawanshi, R. K., Patil, C. D., Borase, H. P., & Patil, S. V. (2016). Use of protease inhibitory gold nanoparticles as a compatibility enhancer for Bt and deltamethrin: A novel approach for pest control. *Biocatalysis and Agricultural Biotechnology*, 8, 8-12.
- Patil C.D., **Narkhede C.P.**, Suryawanshi R.K., and Patil, S. V. (2016). *Vorticella* sp: Prospective Mosquito Biocontrol Agent. *Journal of arthropod-borne diseases*, 10(4),602-607
- **Narkhede, C. P.**, Patil, A. R., Koli, S., Suryawanshi, R., Wagh, N. D., and Patil, S. V. (2015). Studies on endosulfan degradation by local isolate Pseudomonas aeruginosa. *Biocatalysis and agricultural biotechnology*, 4(2), 259-265.
- Borase, H. P., Patil, C. D., Salunkhe, R. B., **Narkhede, C. P.**, Salunke, B. K., and Patil, S. V. (2013). Phyto-synthesized silver nanoparticles: a potent mosquito biolarvicidal agent. *J. Nanomed. Biother. Discov*, 3(7), 1-7
- Patil, C. D., Borase, H. P., Salunkhe, R. B., Suryawanshi, R. K., **Narkhede, C. P.**, Salunke, B. K., and Patil, S. V. (2014). Mosquito larvicidal potential of *Gossypium hirsutum* (Bt cotton) leaves extracts against Aedes aegypti and Anopheles stephensi larvae. *Journal of arthropod-borne diseases*, 8(1), 91-101
- Suryawanshi, R. K., Patil, C. D., Borase, H. P., **Narkhede, C. P.**, Stevenson, A., Hallsworth, J. E., and Patil, S. V. (2015). Towards an understanding of bacterial metabolites prodigiosin and violacein and their potential for use in commercial sunscreens. *International journal of cosmetic science*, 37(1), 98-107.
- Rahul, S., Chandrashekhar, P., Hemant, B., **Chandrakant, N.**, Laxmikant, S., and Satish, P. (2014). Nematicidal activity of microbial pigment from Serratia marcescens. *Natural product research*, 28(17), 1399-1404.
- Borase, H. P., Patil, C. D., Salunkhe, R. B., **Narkhede, C. P.**, Suryawanshi, R. K., Salunke, B. K., and Patil, S. V. (2014). Mosquito larvicidal and silver nanoparticles synthesis potential of plant latex. *Journal of Entomological and Acarological Research*, 46(2), 59-65.
- Suryawanshi, R., Patil, C., Borase, H., **Narkhede, C.**, and Patil, S. (2015). Screening of Rubiaceae and Apocynaceae extracts for mosquito larvicidal potential. *Natural product research*, 29(4), 353-358.
- Suryawanshi, R. K., Patil, C. D., Borase, H. P., **Narkhede, C. P.**, Salunke, B. K., and Patil, S. V. (2015). Mosquito larvicidal and pupaecidal potential of prodigiosin from Serratia marcescens and understanding its mechanism of action. *Pesticide biochemistry and physiology*, 123, 49-55..
- Patil, C. D., Suryawanshi, R. K., Borase, H. P., **Narkhede, C. P.**, Salunke, B. K., and Patil, S. V. (2015). Maintenance of residual activity of Bt toxin by using natural and synthetic dyes: a novel approach for sustainable mosquito vector control. *Natural product research*, 29(24), 2350-2354.

Conferences/Workshops/Seminar

- Attended two days workshop on Abjyansh Marathi Vishwakosh. Organized by Marathi Vishwakosh Mandal, Mumbai at NMU, Jalgaon
- Attended a UGC –SAP sponsored national seminar on “Current Trends in Life sciences” at SOLS, NMU, February in 2018.
- Poster presentation In international conference on nanobiotechnology for agriculture: from research to innovations (NANOFORAGRI 2017) at The Energy and Resources Institute, New Delhi.
- Oral presentation in international conference and Expo on Biotechnology and Health care at Professor Jayashankar Telangana State Agricultural University, Hyderabad. in 2017
- Poster presentation in 13th Conference on Vectors and Vector-Borne diseases at Central University of Tamilnadu, Chennai and NAVBD in 2017

- Attended a UGC –SAP sponsored national seminar on “Recent Trade in Life sciences” at SOLS, NMU, Jalgaon in 2017
- Poster presentation 14th international workshop on ‘Trichoderma and Gliocladium’ Principal to practice (TG2016) at College of agriculture , Nagpur
- Poster presentation in district and Avishkar completion at North Maharashtra University , Jalgaon in 2017
- Poster presentation in 103rd Indian science congress at University of Mysore, Mysore Karnataka India.
- Poster presentation in international conference on Biodiversity at N. D. M. V.P Samaj’s Arts, Commerce and science college Nangdaon in association with Indo-European educational program in 2015 at Nadgaon Nasik Maharashtra India
- Poster presentation in international conference of third global biotech sustainable biotech congress 2014 at NMU, Jalgaon in 2014
- Poster presentation in national conferences on “Challenge and Opportunities in Life Sciences” sponsored by UGC- SAP and DST PURSE at Kolhapur in 2013
- Attended national conference on “National Conference Bio-Technology for all” at SOLS, NMU, and Jalgaon in 2011.
- Attended a UGC –SAP sponsored national seminar on “Recent Trade in Life sciences” at SOLS, NMU, Jalgaon in 2012.

Research Interest Combination study and formulations of pesticides, green synthesis, Biological control agent, Biodegradation, and Bioremediation, Ecotoxicology, Biofertilizer and Biopesticide

Honar and Awards Awarded with JRF and SRF of **UGC-BSR fellowship** under the scheme of University Grant Commission New Delhi , fellowship for Basic science research with effective from 14- Aug, 2015 to still date

Memberships Member of Indian Science Congress (Membership ID SLM2830)

Workshop and Training Attended and participate in Workshop on “Advanced biotechniques : Hands on Learning Instrumentation” at SOLS, NMU, Jalgaon
Attended and participate in a Workshop on Workshop on “Soft Skill Development” at SOLS, NMU, Jalgaon

References

Dr. Satish V. Patil,
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North Maharashtra University, Jalgaon. 425 001.
Email id- satish.patil7@gmail.com.
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Declaration

I hereby declare that the information furnished above is true to the best of my knowledge.

Place: - Jalgaon

Date:-

(Chandrakant P. Narkhede)