



Dr. Satish Vitthal Patil,

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MSc., PhD (Microbiology)

M Tech (Environment Sciences)

Asso. Professor, School of Life Sciences

KBC, North Maharashtra University Jalgaon.

Teaching Experiene: 13/10/2007 to till date

Research Experience: 1994 to till date

Completed & Ongoing research projects and work: 180.74 lacs

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EDUCATION

From 1996 to 2000	University of North Maharashtra University, Jalgaon PhD in Microbiology
From 1992to 1994	University of North Maharashtra University, Jalgaon Master of Science in Microbiology
From 2008to 2010	University of North Maharashtra University, Jalgaon Master of Technology in Environment Sciences
From 1989 to1991	University of Pune Bachelors in Botany

ACADEMIC EXPERIENCE

2007 - current	Teaching CourseBC;303:Toxicology, Department of microbiology, Biochemistry &biotechnology Course BC103 Microbial physiologyDepartment of Biochemistry Course BC402 Fermentation Technology Department of Biochemistry Lab. Course IV (Applied Microbiology) Department of Biochemistry Lab. Course I (Microbial Techniques Department of Biochemistry
1994 - current	Research (School of life sciences,KavayitriBahinabaiChaudhari North Maharashtra University)
Completed& Ongoing research projects	□: 180.74 lacs (INR) or \$2,38,892.37, (US dollar)

AWARDS AND ACHIEVEMENTS

2016	Best Professor in the School of Life Sciences, KBCNMU, Jalgaon
2013-2019	Researcher excellence award from KBCNMU, Jalgaon
2004-2007	Young scientist premium awarded by DST, New Delhi under the fast track scheme. Money award of \$12 Indian Lakhs

RESEARCH INTERESTS

My research focuses on the screening of microbes from different niches and their vital role. The study of these interactions may be useful in addressing some vital questions like:

- Can we make evolution-proof bioinsecticides?
- Will the presence or absence of endosymbiont make insect as vector or insect?
- Can mosquito control programs in India be made more effective on background of global warming?
- Can entomopathogenic bacteria other than Bt and some symbionts be used to produce a cheaper organic pesticide for sustainable malaria control?
- Will nanoparticles, microbial and plant metabolites combination help to make evolution-proof pesticide ?

Title of the Project	Amount (lacs)	Funding agency & Period
Screening of Mosquito larvicidal organisms	36.45	DBT, (2013-2016)
Biofertilizer & biopesticide bank for local Farmers	21.00	RGSTC, (2011-2014)
Biocontrol of Mealy Bug and Mosquito	12.63	DBT, (2011-2013)
Use of Psyllium husk as soil conditioners	5.66	UGC, (2010-2012)
Use of Bacterial polymer as soil conditioners	12.00	DST, (2009-2012)
Evaluation of mosquitocidal plants from Jalgaon District	1.50	UGC, (2008-2009)
Application of Foldscope	8.00	DBT, Indo-US, (2018)
Moringa Leaves formulation: An effective preparation for eradication of malnutrition in tribal	8.50	NASI (2018)
Agrowaste conversions to dyes	75 lacs	DST WMT(2021-2023)

Awards and Achievement:

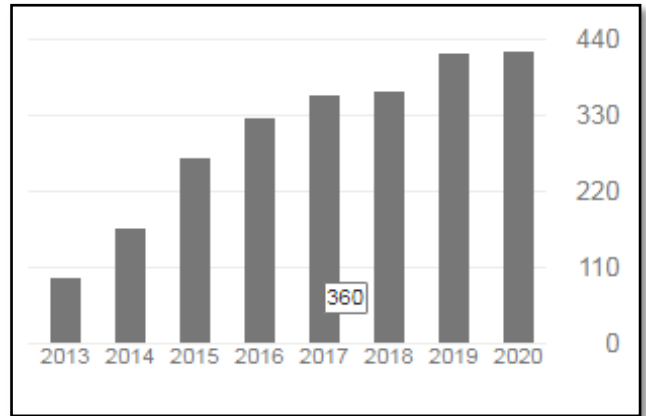
- Awarded with the Young scientists by DST, New Delhi under fast track scheme and sanctioned sum of Rs. 12 Lacs
- **Indian patent: No 19507**“ A method for exopolysaccharide production”(2003).

Publications : Total : 1139(100 International)

National : 13

Cumulative Impact Factor: 207.92

Year	No. of Publications & Cumulative IF	Citation Indices
2009-2012	14 (30.87)	Citations 2985 h-index 28 i 10 index 58
2012- 2013	12 (23.34)	
2014-2015	24 (35.29)	
2015-2016	12 (12.68)	
2016-2017	04 (5.45)	
2017-2018	07 (10.29)	
2018-2019	04 (10.71)	



Highest Impact Publication IF 9.0 nature Is there a common water-activity limit for the three Domains of life?
ISME Journal. 9(6): 1333–1351 (IF - 9.664) .

Recent Publications: 2019-2020: 08



High Impact Papers

1. HP Borase, AB Muley, SV Pati, Singhal R. (Dec. 2020) Enzymatic response of *Moina macrocopa* to different sized zinc oxide particles: An aquatic metal toxicology study. **Environmental Research** 194(3):110609DOI:10.1016/j.envres.2020.11060910. **IF.4.80**
2. Goswami , A Kushwaha , A Singh, P Saha , Y Choi , M Maharana , Satish V. Patil 4 and Beom Soo Kim 2022. Nano-Biochar as a Sustainable Catalyst for Anaerobic Digestion: A Synergetic Closed-Loop Approach . **Catalysts** 2022, 12, 186. <https://doi.org/10.3390/catal12020186> **IF 4.5**
3. Suryawanshi R, LuliaKoujah, Chandrashekhar Patil, Joshua Ames, Alex Agelidis, TejabhiramYadavalli, Satish Patil, and Deepak Shukla (April2020). Bacterial pigment prodigiosin demonstrates a unique anti-herpesvirus activity that is mediated through inhibition of prosurvival signal transducers. **Journal of Virology ASM**, **IF 5.15**
4. Borase H P, Satish V Pati, Singhal R . Moinamacrocopa as a non-target aquatic organism for assessment of ecotoxicity of silver nanoparticles: Effect of size. **Chemosphere** (March 2019) 219, 713-723 **IF 7.08**
5. HP Borase, AB Muley, SV Pati, Singhal R. (Dec. 2020) Enzymatic response of *Moina macrocopa* to different sized zinc oxide particles: An aquatic metal toxicology study **Environmental Research** 194(3):110609DOI:10.1016/j.envres.2020.11060910. **IF 6.498**
6. HP Borase, AB Muley, SV Pati, Singhal R. Nano-eco toxicity study of gold nanoparticles on aquatic organism *Moinamacrocopa*: As new versatile ecotoxicity testing model. **Environmental Toxicology and Pharmacology** (May 2019) 68 4–12 **IF 4.866**
7. Mohite, B. V., & Patil, S. V. Physical, structural, mechanical and thermal characterization of bacterial cellulose by *G. hansenii* NCIM 2529. (2014). **Carbohydrate polymers**, 106, 132-141.**IF 9.381**
8. Mohite BV, Kamalaja K and Patil SV (Oct2012). Statistical optimization of culture conditions for enhanced bacterial cellulose production by *Gluconoacetobacterhansenii* NCIM 2529. **Cellulose**. 19:5:1655-1666, doi-10.1007/s10570-012-9760-y **IF 5.44**
9. Stevenson, A., Cray, J. A., Williams, J. P., Santos, R., Sahay, R., Neuenkirchen, N., ... &Timson, D. J. Is there a common water-activity limit for the three domains of life? (2015). **The ISME journal**, 9(6), 1333. **IF10.302.**
10. Mohanty, S., Jena, P., Mehta, R., Pati, R., Banerjee, B., Patil, S., &Sonawane, A. Cationic antimicrobial peptides and biogenic silver nanoparticles kill mycobacteria without eliciting DNA damage and cytotoxicity in mouse macrophages.(2013) **Antimicrobial agents and chemotherapy**, 57(8), 3688-3698. **IF 5.383**

BOOK CHAPTERS: Accepted 2022

1. Bhavana Mohite Satish V Patil, and Vikas Patil. 2021 .Probiotics for Allergic Airway Infection/Inflammations' for publication in the Volume 2 of book series entitled "An Update on Probiotic Research in Therapeutics" to be published by **Springer Nature**.
2. Hemant Borase , Mitesh Kumar Dwivedi , Ramar Krishnamurthy1 and Satish Patil. **2022**. Probiotics: health safety considerations .Book Probiotics in The Prevention and Management of Human DiseasesPP449-4463 **AP Elsevier UK**.
3. Satish V Patil, Chandrashekhar D Patil, and Bhavana V Mohite.**2022**. Isolation and screening of ACC deaminase-producing microbes for drought stress management in crops Springer Protocols Handbooks Practical Handbook on Agricultural Microbiology Humana Press.
4. Patil SV., Salukhe J D, Marathe .**2022**. Screenig of Naraangnase enzyme Springer Protocols Handbooks Practical Handbook on Agricultural Microbiology Humana Press.
5. Pradnya Patil, Satish V Patil, Bhavana V Mohite.**2022**. Isolation and screening of Selenium transforming microbes as new bioinputs . Springer Protocols Handbooks Practical Handbook on Agricultural Microbiology Humana Press.
6. Bhavana V Mohite, Satish V Patil,**2022** Isolation and identification of non-symbiotic Azotobacter & symbiotic Azotobacter paspali- Paspalum notatum. Springer Protocols Handbooks Practical Handbook on Agricultural Microbiology Humana Press. Springer Protocols Handbooks Practical Handbook on Agricultural Microbiology Humana Press.
7. Bhavana V Mohite, Satish V Patil,**2022** Isolation and screening of Phytase producing Microbes
8. Jitendra D Salunkhe a , Hemant P Borase b , Satish V Patil1 a , Rahul K Suryawanshi c ,**2022**. Isolation and screening of zinc solubilizing microbes: as essential micronutrient bio inputs for crops. Springer Protocols Handbooks Practical Handbook on Agricultural Microbiology Humana Press
9. Patil C D, Mohite B V, Patil, Satish V. **2022**. Isolation and screening of Silicates solubilizers as modern bioinputs for crops. Springer Protocols Handbooks Practical Handbook on Agricultural Microbiology Humana Press.
10. Hemant Borase 1 *, Satish Patil 2 and Dhruvi Amin,**2022** . Strigolactones Springer Protocols Handbooks Practical Handbook on Agricultural Microbiology Humana Press
11. Chandrashekhar D Patil a * Bhavana V Mohite, Satish V Patil. **2022**.Isolation of Bacterivorous Protozoan, Acanthamoeba Spp. as new age agro bioinput Springer Protocols Handbooks Practical Handbook on Agricultural Microbiology Humana Press.

Published Book Chapters;(20-14-2020)

1. VikasPatil,BhavanaMohite and Shard Patil and Satish V Patil. "ESIPi inspired Benzothiazole Fluorescent molecule". Chapter. In Book: Benzothiazole: preparations, structure and uses Chemistry research and application. Nova Publications, April 2020, pp. 99-116.
2. Patil S V , Patil C D, mohite B V, BoraseH, Patil V. "Azotobacter: In Book Beneficial Microbes in Agro-Ecology : Bacteria nd fungi. Elsevier AP Ed. Amersanetal ." , June 2020 PP 397-426.
3. Pail SV and Mohite. "Foldscope: A versatile tool to study the puppet masters of rhizospheric and aquatic microbiome". Chapter. In book: Foldscope and its application. Publisher: National Press

Associates, New Delhi, December 2019 pp. 212-221.

4. RK Suryawanshi, SH Koli, V Marathe, BV Mohite, V Patil, SV Patil. "A Prospectus of Microbial Metabolites as Ingredients in Commercial Sunscreens" (2018). Rastogi R P (Ed.), In Sunscreens: Source, Formulations, Efficacy and Recommendations" Nova Science Publishers, Inc.223-243
5. BV Mohite, SH Koli, SV Patil. "Bacterial Cellulose based Hydrogels..Synthesis, Properties and Applications. (Accepted) (2017). Ibrahim Mondal (Ed.), In Cellulosebased superabsorbent Hydrogels, Springer
6. Bhavna V Mohite, Satish V Patil. Impact of Microbial cellulases on Microbialcellulose Biotechnology. (2016) In: New and Future Developments in Microbial Biotechnology and Bioengineering. Chapter 4, V. Gupta (Ed), Elsevier Publication. pp 31-40
7. Bhavna V Mohite, Satish V Patil. Insights into bacterial cellulose biosynthesis andproduction. (2015) In: Cellulose and Cellulose Derivatives: Synthesis, Modification, Nanostructure and Applications. Nova Science Publishers, Inc., New York, USA. . Pp27-48, ISBN: 978-1-63483-127-7
8. Patil SV, Salunke BK, andBhat JA (2004). Synthetic seed: A Potential tool to conserve plant. Book Chapter. Biotechnological applications in Environment and agriculture. ABD publishers Jodhpur India.

Lab reared Wild Verity of Tussarsilk *Anthearea sp.* In Dr. Satish V Patil Laboratory (KBC NMU, Jagaon)

PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

11. Borase H P, Satish V Pati, Singhal R . Moinamacrocopa as a non-target aquatic organism for assessment of ecotoxicity of silver nanoparticles: Effect of size. Chemosphere (March 2019) 219, 713-723 (IF 7.08)
12. Koli S, Mohite B, Suryawanshi R, Patil S V.2019 (Dec).Prospective of Monascus Pigments as an Additive to Commercial Sunscreens. Article (PDF Available) in Natural product communications 14(12):1934578X1989409 · DOI: 10.1177/1934578X19894095 IF: 2.961
13. Rajput J,ohite B, Koli S, Patil V, Pati S Bendre R 2019. A green tactic for the synthesis of classical 3,3-bisindolylmethanes in waste curd water. Article (PDF Available) in Applied Sciences 1(10) · October 2019 DOI: 10.1007/s42452-019-1212-
14. Mohite B, Oli S, Rajput J,Patil V, PatilSv.Production and characterization of multifacetexopolysaccharide from an agricultural isolate, Bacillus subtilis.Article in Biotechnology and Applied Biochemistry 66(8) · September 2019 DOI: 10.1002/bab.1824IF:2.20
15. VikasPatil,VikasPadalkar,SekarNagaiyan,Jamatsing Rajput and Satish V Patil Molecular Properties of 5-(1H-Benzo[D]Oxa, Thia, Imidazole-2-Yl)-2-Methyl Quinazolin-4-ol Fluorescent

Brighteners: Theoretical And Experimental Approach. Article in Journal of **Molecular Structure** 1199:126984 · August 2019 DOI: 10.1016/j.molstruc.2019.1269 **IF : 3.196**

16. SV Patil, SH Koli, BV Mohite, RPatil, RR Patil, HP Borase, VS Patil A Novel Screening Method for Potential Naringinase Producing Microorganisms. **Biotechnology and Applied Biochemistry**. (Jan 2019) doi: 10.1002/bab.1728 **IF: 2.961**

17. VikasPatil,VikasPadalkar,SekarNagaiyan,Jamatsing Rajput and Satish V Patil. Synthesis of 2-methyl-5-(5-phenyl substituted-1,3,4 oxadiazole-2-yl) quinazolin4-one fluorescent brightening agent: Computational and experimental comparison of photophysical structure. **Journal of Molecular Structure**. (April 2019). 1182. 150-157 **IF : 3.196**

18. SV Patil, HP Borase CD Patil, RK Suryawanshi, SH Koli, VS Patil, BV Mohite. Fabrication of Paper Sensor for Rapid Screening of Nanomaterial Synthesizing Potential of Plants. **Journal of Cluster Science** (May 2018). doi.org/10.1007/s10876018-1396-0 **IF 3.061**

19. SV Patil, CD Patil, CP Narkhede, RK Suryawanshi, SH Koli, L Shinde, BV MohitePhytosynthesized Gold Nanoparticles-Bacillus thuringiensis (Bt-GNP) Formulation: A Novel Photo Stable Preparation against Mosquito Larvae (In Press) **Journal of Cluster Science** (April 2018). doi: 10.1007/s10876-018-1368-4. **IF 3.061**

20. BV Mohite, SH Koli, SV Patil. Heavy metal stress and its consequences on exopolysaccharide (EPS) producing Pantoeaagglomerans (In Press) **Applied Biochemistry and Biotechnology** (Feb 2018). doi: 10.1007/s12010-018-2727-1. **IF 2.961**

21. Koli, S. H., Mohite B. V., Suryawanshi, R. K., Patil, C. D., & Patil, S. V. (2018). Extracellular red Monascus pigmentmediated rapid one step synthesis of silver nanoparticles and its application in biomedical and environment. **Bioprocess and Biosystems Engineering**,<https://doi.org/10.1007/s00449-018-1905-4>, **IF 3.11**

22. BV Mohite, SH Koli, SV Patil. (2018) Bacterial exopolysaccharide: A smart biomaterial to address the heavy metal stress. **New Biotechnology**. 44(10) October 2018, Page S59 (Abstract) **(IF 3.733)**

23. Borase, H. P., Patil, C. D., Suryawanshi, R. K., Koli, S. H., Mohite, B. V., Benelli, G., & Patil, S. V. Mechanistic approach for fabrication of gold nanoparticles by Nitzschia diatom and their antibacterial activity. (2017). **Bioprocess and Biosystems Engineering**, 1-10. **IF 3.11**

24. Narkhede, C. P., Patil, C. D., Suryawanshi, R. K., Koli, S. H., Mohite, B. V., & Patil, S. V. Synergistic effect of certain insecticides combined with Bacillus thuringiensis on mosquito larvae. (2017). **Journal of Entomological and Acarological Research**, 49(1)

25. Koli, S. H., Suryawanshi, R. K., Patil, C. D., & Patil, S. V. Fluconazole treatment enhances extracellular release of red pigments in the fungus *Monascuspurpureus*. (2017). **FEMS Microbiology Letters**, 364(8), fnx058. **IF1.765**

26. Koli, S. H., Suryawanshi, R. K., Patil, C. D., & Patil, S. V. Diversity and Applications of Versatile Pigments Produced by *Monascus* sp. (2017). *Bio-pigmentation and Biotechnological Implementations*, 193-214
27. Mohite, B. V., Koli, S. H., Narkhede, C. P., Patil, S.N., Patil, S. V. (2017) Prospective of microbial Exopolysaccharide for heavy metal exclusion *Applied biochemistry and biotechnology* (2017)183(2), 582-600. IF1.75
28. SH Koli, BV Mohite, HP Borase, and SV Patil. *Monascus* Pigments Mediated Rapid Green Synthesis and Characterization of Gold Nanoparticles with Possible Mechanism. *Journal of Cluster Science*, (2017). 28:2719-2731. IF- **3.061**
29. Patil, C. D., Borase, H. P., Suryawanshi, R. K., & Patil, S. V. Trypsin inactivation by latex fabricated gold nanoparticles: A new strategy towards insect control. (2016). *Enzyme and microbial technology*, 92, 18-25. IF**2.502**
30. Suryawanshi, R. K., Patil, C. D., Koli, S. H., Hallsworth, J. E., & Patil, S. V. Antimicrobial activity of prodigiosin is attributable to plasma-membrane damage.(2017). *Natural product research*, 31(5), 572-577. IF1.828
31. Mohite, B. V., Suryawanshi, R. K., & Patil, S. V. Study on the drug loading and release potential of bacterial cellulose. (2016). *Cellulose Chemistry And Technology*, 50(2), 219-223. IF**1.43**
32. Narkhede, C. P., Suryawanshi, R. K., Patil, C. D., Borase, H. P., & Patil, S. V. Use of protease inhibitory gold nanoparticles as a compatibility enhancer for Bt and deltamethrin: A novel approach for pest control(2016). *Biocatalysis and Agricultural Biotechnology*, 8, 8-12.
33. Mohite, B. V., & Patil, S. V. In situ development of nanosilver-impregnated bacterial cellulose for sustainable released antimicrobial wound dressing. (2016). *Journal of applied biomaterials & functional materials*, 14(1). IF**2.351**.
34. Patil, C., Suryawanshi, R., Koli, S., & Patil, S. Improved method for effective screening of ACC (1-aminocyclopropane-1-carboxylate) deaminase producing microorganisms.(2016). *Journal of microbiological methods*, 131, 102-104. IF**2.790**
35. Narkhede, C. P., Koli, S. H., Suryawanshi, R. K., Patil, C. D., Borase, H. P., & Patil, S. V. Potentiation of *Bacillus thuringiensis* by using some natural products: Novel preparations against dengue vector *Aedes aegypti* larvae. (2016). *Indian Journal of Natural Products and Resources (IJNPR)[Formerly Natural Product Radiance (NPR)]*, 7(3), 229-233.
36. Patil, C. D., Narkhede, C. P., Suryawanshi, R. K., & Patil, S. V. *Vorticella* sp: Prospective Mosquito Biocontrol Agent. (2016). *Journal of arthropod-borne diseases*, 10(4), 602.

37. Borase, H. P., Patil, C. D., Salunkhe, R. B., Suryawanshi, R. K., Salunke, B. K., & Patil, S. V. Biofunctionalized silver nanoparticles as a novel colorimetric probe for melamine detection in raw milk. (2015). *Biotechnology and applied biochemistry*, 62(5), 652-662. IF 2.926
38. Suryawanshi, R., Patil, C., Borase, H., Narkhede, C., & Patil, S. Screening of Rubiaceae and Apocynaceae extracts for mosquito larvicidal potential. (2015). *Natural product research*, 29(4), 353-358. IF 2.861
39. Suryawanshi, R. K., Patil, C. D., Borase, H. P., Narkhede, C. P., Stevenson, A., Hallsworth, J. E., & Patil, S. V. Towards an understanding of bacterial metabolites prodigiosin and violacein and their potential for use in commercial sunscreens. (2015). *International journal of cosmetic science*, 37(1), 98-107. IF 2.970
40. Narkhede, C. P., Patil, A. R., Koli, S., Suryawanshi, R., Wagh, N. D., & Patil, S. V. Studies on endosulfan degradation by local isolate *Pseudomonas aeruginosa*.(2015). *Biocatalysis and Agricultural Biotechnology*, 4(2), 259-265.
41. Borase, H. P., Salunkhe, R. B., Patil, C. D., Suryawanshi, R. K., Salunke, B. K., Wagh, N. D., & Patil, S. V. Innovative approach for urease inhibition by *Ficus carica* extract-fabricated silver nanoparticles: An in vitro study. (2015). *Biotechnology and applied biochemistry*, 62(6), 780-784. IF 2.813
42. Suryawanshi, R. K., Patil, C. D., Borase, H. P., Narkhede, C. P., Salunke, B. K., & Patil, S. V. Mosquito larvicidal and pupaecidal potential of prodigiosin from *Serratiamarcescens* and understanding its mechanism of action. (2015). *Pesticide biochemistry and physiology*, 123, 49-55. IF 3.680
43. Borase, H. P., Patil, C. D., Salunkhe, R. B., Suryawanshi, R. K., Kim, B. S., Bapat, V. A., & Patil, S. V. Bio-functionalized silver nanoparticles: A novel colorimetric probe for cysteine detection. (2015). *Applied biochemistry and biotechnology*, 175(7), 3479-3493 IF 2.926
44. Salunkhe, R. B., Borase, H. P., Patil, C. D., Patil, S. N., & Patil, S. V. Effect of Different Carbon Sources on Morphology and Silver Accumulation in *Cochliobolus lunatus*. (2015). *Applied biochemistry and biotechnology*, 177(7), 1409-1423. IF 2.926
45. Chandrashekhar, P., Rahul, S., Hemant, B., Chandrakant, N., Bipinchandra, S., & Satish, P. Maintenance of residual activity of Bt toxin by using natural and synthetic dyes: a novel approach for sustainable mosquito vector control. (2015). *Natural product research*, 29(24), 2350-2354. IF 1.828
46. Rahul, S., Chandrashekhar, P., Hemant, B., Bipinchandra, S., Mouray, E., Grellier, P., & Satish, P. In vitro antiparasitic activity of microbial pigments and their combination with phytosynthesized metal nanoparticles.(2015). *Parasitology international*, 64(5), 353-356. IF 2.590

47. Borase, H. P., Salunke, B. K., Salunkhe, R. B., Patil, C. D., Hallsworth, J. E., Kim, B. S., & Patil, S. V. Plant extract: a promising biomatrix for ecofriendly, controlled synthesis of silver nanoparticles. (2014). *Applied biochemistry and biotechnology*, 173(1), 1-29. **IF 2.926**
48. Mohite, B. V., & Patil, S. V. A novel biomaterial: bacterial cellulose and its new era applications.(2014). *Biotechnology and applied biochemistry*, 61(2), 101-110. . **IF 2.926**
49. Suryawanshi, R. K., Patil, C. D., Borase, H. P., Salunke, B. K., & Patil, S. V. Studies on production and biological potential of prodigiosin by *Serratiamarcescens*. (2014). *Applied biochemistry and biotechnology*, 173(5), 1209-1221. . **IF 2.926**
50. Cray, J. A., Bhaganna, P., Singhal, R. S., Patil, S. V., Saha, D., Chakraborty, R., ... &Hallsworth, J. E. Chaotropic and hydrophobic stress mechanisms of antifungal substances. In *Modern fungicides and antifungal compounds*(2014). VII. Proceedings of the 17th International Reinhardtsbrunn Symposium, April 21-25 2013, Friedrichroda, Germany (pp. 73-80). Deutsche PhytomedizinischeGesellschaftVVerlag. Conference proceedings.
51. Borase, H. P., Patil, C. D., Salunkhe, R. B., Suryawanshi, R. K., Salunke, B. K., & Patil, S. V. Mercury sensing and toxicity studies of novel latex fabricated silver nanoparticles.(2014). *Bioprocess and biosystems engineering*, 37(11), 2223-2233. **IF.3.11**
52. Borase, H. P., Patil, C. D., Salunkhe, R. B., Suryawanshi, R. K., Salunke, B. K., & Patil, S. V. Catalytic and synergistic antibacterial potential of green synthesized silver nanoparticles: Their ecotoxicological evaluation on *Poecilliareticulata*. (2014). *Biotechnology and applied biochemistry*, 61(4), 385-394. **IF 2.431**
53. Borase, H. P., Patil, C. D., Salunkhe, R. B., Suryawanshi, R. K., Salunke, B. K., & Patil, S. V. Phytol latex synthesized gold nanoparticles as novel agent to enhance sun protection factor of commercial sunscreens. (2014). *International journal of cosmetic science*, 36(6), 571-578. **IF 2.970**
54. Borase, H. P., Patil, C. D., Salunkhe, R. B., Suryawanshi, R. K., Salunke, B. K., & Patil, S. V. Transformation of aromatic dyes using green synthesized silver nanoparticles. (2014). *Bioprocess and biosystems engineering*, 37(8), 1695-1705. **IF .3.11**
55. Mohite, B. V., & Patil, S. V. Bacterial cellulose of *Gluconoacetobacterhansenii* as a potential bioadsorption agent for its green environment applications.(2014). *Journal of Biomaterials Science, Polymer Edition*, 25(18), 2053-2065. **IF1.733**
56. Borase, H. P., Patil, C. D., Salunkhe, R. B., Suryawanshi, R. K., Salunke, B. K., & Patil, S. V. Inhibition of restriction endonucleases by biofunctionalized silver nanoparticles: An in vitro study.(2014). *Materials Letters*, 134, 24-26. **IF3.423**
57. Mohite, B. V., & Patil, S. V. Investigation of Bacterial Cellulose Biosynthesis Mechanism in *Gluconoacetobacterhansenii*. (2014). *ISRN microbiology*, 2014.

58. Patil, C. D., Borase, H. P., Salunkhe, R. B., Suryawanshi, R. K., Narkhede, C. P., Salunke, B. K., & Patil, S. V. Mosquito larvicidal potential of *Gossypium hirsutum* (Bt cotton) leaves extracts against *Aedes aegypti* and *Anopheles stephensi* larvae.(2014). *Journal of arthropod-borne diseases*, 8(1), 91.
59. Borase, H. P., Patil, C. D., Salunkhe, R. B., Narkhede, C. P., Suryawanshi, R. K., Salunke, B. K., & Patil, S. V. Mosquitolarvicidal and silver nanoparticles synthesis potential of plant latex.. (2014). *Journal of Entomological and Acarological Research*, 46(2), 59-65
60. Rahul, S., Chandrashekhar, P., Hemant, B., Chandrakant, N., Laxmikant, S., & Satish, P. Nematicidal activity of microbial pigment from *Serratia marcescens*. (2014). *Natural product research*, 28(17), 1399-1404. . IF 2.561
61. Devidas, P. C., Pandit, B. H., & Vitthalrao, P. S. Evaluation of different culture media for improvement in bioinsecticides production by indigenous *Bacillus thuringiensis* and their application against larvae of *Aedes aegypti*. (2014). *The Scientific World Journal*, 2014.
62. Borase, H. P., Patil, C. D., Salunkhe, R. B., Narkhede, C. P., Salunke, B. K., & Patil, S. V. Phytosynthesized silver nanoparticles: a potent mosquito biolarvicidal agent. (2013). *J. Nanomed. Biother. Discov*, 3(7). IF1.67
63. Mohite, B. V., Salunke, B. K., & Patil, S. V. Enhanced production of bacterial cellulose by using *Gluconacetobacter hansenii* NCIM 2529 strain under shaking conditions.(2013). *Applied biochemistry and biotechnology*, 169(5), 1497-1511. IF 2.926
- 64.
65. Patil, C. D., Borase, H. P., Salunke, B. K., & Patil, S. V. Alteration in *Bacillus thuringiensis* toxicity by curing gut flora: novel approach for mosquito resistance management.(2013). *Parasitology research*, 112(9), 3283-3288. IF2.289
66. Borase, H. P., Patil, C. D., Suryawanshi, R. K., & Patil, S. V. *Ficus carica* latex-mediated synthesis of silver nanoparticles and its application as a chemophotoprotective agent.(2013). *Applied biochemistry and biotechnology*, 171(3), 676-688. IF1.751
67. Borase, H. P., Patil, C. D., Sauter, I. P., Rott, M. B., & Patil, S. V. Amoebicidal activity of phytosynthesized silver nanoparticles and their in vitro cytotoxicity to human cells.(2013). *FEMS microbiology letters*, 345(2), 127-131. IF2.51
68. Salunkhe, R. B., Patil, C. D., Salunke, B. K., Rosas-García, N. M., & Patil, S. V. Effect of wax degrading bacteria on life cycle of the pink hibiscus mealybug, *Maconellicoccus hirsutus* (Green)(Hemiptera: pseudococcidae).(2013). *BioControl*, 58(4), 535-542. IF 3..687
69. Tetreau, G., Patil, C. D., Chandor-Proust, A., Salunke, B. K., Patil, S. V., & Després, L. Production of the bioinsecticide *Bacillus thuringiensis* subsp. *israelensis* with deltamethrin increases toxicity towards mosquito larvae. (2013). *Letters in applied microbiology*, 57(2), 151-156. IF 2.858

70. Mohite BV, Kamalaja K and Patil SV (Oct2012). Statistical optimization of culture conditions for enhanced bacterial cellulose production by *Gluconoacetobacterhansenii* NCIM 2529. *Cellulose*. 19:5:1655-1666, doi-10.1007/s10570-012-9760-y **IF5.044**
71. Patil SV, Borase HP, Patil CD, Salunkhe RB and Salunke BK (June2012). Biosynthesis of silver nanoparticles using latex from few Euphorbian plants and their antimicrobial potential. *Applied Biochemistry and Biotechnology* 167(4):776-90, doi- 10.1007/s12010-012-9710-z **IF 2.926**
72. Patil CD, Patil SV, Salunke BK and Salunkhe RB (Oct2011). Prodigiosin produced by *Serratia marcescens* NMCC46 as a mosquito larvicidal agent against *Aedesaegypti* and *Anopheles stephensi*. *Parasitology Research*. 109(4):1179-87. **IF 2.852**
73. Patil CD, Patil SV, Salunke BK and Salunkhe RB (May2012). Insecticidal potency of bacterial species *Bacillus thuringiensis* SV2 and *Serratianematodiphila* SV6 against larvae of mosquito species *Aedesaegypti*, *Anopheles stephensi*, and *Culexquinquefasciatus*. *Parasitology Research*.109(4):1179-87. doi: 10.1007/s00436-011-2365-9 **IF 2.852**
74. Patil CD, Borase HP, Patil SV, Salunkhe RB and Salunke BK (Aug.2012). Larvicidal activity of silver nanoparticles synthesized using *Pergulariadaemia* plant latex against *Aedes aegypti* and *Anopheles stephensi* and nontarget fish *Poeciliareticulata*. *Parasitology Research*. 111(2):55562, doi- 10.1007/s00436-012-2867-0 **IF 2.289**
75. Patil SV, Patil CD, Salunkhe RB, Maheshwari VL and Salunke BK (Dec.2011). Studies on life cycle of mealybug, *Maconellicoccushirsutus* (Green) (Hemiptera: Pseudococcidae), on different hosts at different constant temperatures. *Crop Protection*. 30:1553-1556. doi:10.1016/j.cropro.2011.08.010 **IF 2.571**
76. Patil CD, Patil SV, Borase HP, Salunke BK and Salunkhe RB. (May2012). Larvicidal activity of silver nanoparticles synthesized using *Plumeria rubra* plant latex against *Aedesaegypti* and *Anopheles stephensi* *Parasitology Research*. 110(5):1815-22,doi- 10.1007/s00436-011-2704 **IF 2.852**
77. Patil CD, Patil SV, Salunke BK and Salunkhe RB (2011). Bioefficacy of *Plumbagozeylanica* (Plumbaginaceae) and *Cestrum nocturnum* (Solanaceae) plant extracts against *Aedesaegypti* (Diptera: Culicide) and nontarget fish *Poeciliareticulata*. *Parasitology Research*. 108(5):1253-63. doi- doi: 10.1007/s00436-010-2174-6 **IF 2.852**
78. Patil SV, Patil CD, Salunkhe RB and Salunke BK (2010). Larvicidal activities of six plants extracts against two mosquito species, *Aedesaegypti* and *Anopheles stephensi*. *Tropical Biomedicine* 2010:27(3):360-5. **IF0.749**
79. Salunkhe RB, Patil SV, Patil CD and Salunke BK. (2011). Larvicidal potential of silver nanoparticles synthesized using fungus *Cochlioboluslunatus* against *Aedes aegypti* (Linnaeus, 1762) and *Anopheles stephensi* Liston (Diptera; Culicidae). *Parasitology Research*. 109(3):82331. doi: 10.1007/s00436-011-2328-1. **IF 2.289**

80. Salunkhe RB, Patil SV, Salunke BK, Patil CD and Sonawane AM. (2011). Studies on silver accumulation and nanoparticle synthesis by *Cochliobolus lunatus*. *Applied Biochemistry and Biotechnology* 165(1):221-34. doi-10.1007/s12010-011-9245-8 IF 2.926

81. Patil SV, Salunke BK, Patil CD and Salunkhe RB. (2011). Studies on amendment of different biopolymers in sandy loam and their effect on germination, seedling growth of *Gossypium herbaceum* L. *Applied Biochemistry and Biotechnology* 163(6):780-91. doi-10.1007/s12010-010-9082-1 IF 2.926

82. Patil SV, Patil CD, Salunke BK, Salunkhe RB, Bathe GA and Patil DM (2011). Studies on characterization of bioflocculant xopolysaccharide of *Azotobacter indicus* and its potential for wastewater treatment. *Applied Biochemistry and Biotechnology*. 163(4):463-72. doi: 10.1007/s12010-010-9054-5 IF 2.926

83. Patil SV, Salunke BK, Patil CD, Salunkhe RB, Gavit P and Maheshwari VL. (2010). Potential of extracts of the tropical plant *Balanites aegyptiaca* (L) del. (Balanitaceae) to control the mealy bug, *Maconellicoccus hirsutus* (Homoptera: Pseudococcidae). *Crop Protection*. 29(11):1293-96, doi:10.1016/j.cropro.2010.05.016 IF 2.572

84. Patil SV, Salunkhe RB, Patil CD, Patil DM and Salunke BK (2010). Bioflocculant xopolysaccharide production by *Azotobacter indicus* using flower extract of *Madhucalatifolia* L. *Applied Biochemistry and Biotechnology*. 162(4):1095-108. doi: 10.1007/s12010-009-8820-8 IF 2.926

85.

PUBLICATIONS IN PEER-REVIEWED NATIONAL JOURNALS

1. Patil SV and Salunke BK (2012). Will New UGC Rules Produce Quality PhDs. University News Journal of Higher Education ISSN 0566-257. Vol.50.no.11 march 12-18. 2012.

2. Patil SV, Patil CD, Salunkhe RB and Salunke BK. (2010). Introduction of mosquito larvicidal potential of some plants occurring in Jalgaon District, Maharashtra. *Journal of Herbal Science & Technology*, 10(3): 19-22 (ISSN:0974 6153).

3. Patil SV, Salunke BK, Patil AV, Chandode R and Khandagale A (2009). A. Potential of *Euphorbia heterophylla* L., plant extract to prepare cheese. *Indian Journal of Crop Science* 4:87-92

4. Patil SV, Salunke BK, Patil CD, Salunkhe RB, and Patil DM (2009). In vitro study of an antibacterial and antioxidant activity of *Helicteres isora* L. *Journal of Herbal Science & Technology*. 02:1-10.

5. Patil RH, Patil SV, Rajput JA, Bhat JA, Chaudhari RG, Patil UK and Chincholkar SB. (2008). Biotransformation of Rifamycin B to Rifamycin S with free and immobilized cells of *C. lunata*. *Journal of Pure and Applied Microbiology*. 2:211-214.

6. Patil SV, Salunke BK and Bhat JA (2003). Herbal rennet from *Calotropis gigantea*. Journal of Medicinal and Aromatic Plant Sciences. 25:392-396.
7. Salunke BK, Patil SV, Lad R, Chattrge S, and Maheshwari VL (2008). Antibacterial activities of three Indian plants. Journal of Cell and Tissue Research. 8(3):1545-1550.
8. Patil SV, Bhalerao TS, Thoarat SR, Patil AV, and Salunke BK (2000). Bacterial study of Unapdeo Thermal spring of Maharashtra. Bulletin of Environmental Science. 19: 7-8.
9. Effect of Psyllium husk amendment on physicochemical characteristics of soil and growth of *Gossypiumherbasceum* L (2007). Patil S.V., Chandode R.K., Patil A.V. and Salunke B.K. Ind J. Crop Sci, 2(1): 205-208
10. Cheese making properties of vegetable rennet from *Euphorbia geniculate* Otrteg(2008). Chandode R.K., Salunke B.K., Khandagale A.B., Patil A.V. and Patil S.V. Herbal Tech Ind, 4(11): 27-31
11. Patil, S. V., Bathe, G. A., Patil, A. V., Salunke, B. K., & Patil, R. H. (2009). Production of bioflocculantexopolysaccharide by *Bacillus subtilis*. Production of Bioflocculantexopolysaccharide by *Bacillus subtilis*, 8(10), 14-17.

PUBLICATIONS IN NATIONAL MEDIA

1. Patil SV, Salunke BK and Bhat JA (2003). Synthestic seeds – A potential tool to conserved plants. Green page article. Journal of Natural product Radiance.
2. Patil SV, and Bhat JA (2002). Other uses of Psyllium. Spectrum: Medicine Science Reporter Oct.2002
3. Patil SV, Salunke BK and Bhat JA (2003). Foliar Extract of *Calotropis gigantea* asource of rennet. Chemical industry News, March 2003.

Reviewer Of International Journal:

1. Enzyme and Microbial technology
2. Natural Product research
3. Applied Biochemistry & Biotechnology
4. Vector Born diseases
5. Bioprocess system & technology
6. Biocatalysis& agriculture