



Dr. Satish Vitthal Patil,

satish.patil7@gmail.com

MSc., PhD (Microbiology)

M Tech (Environment Sciences)

Assit. Professor, School of Life Sciences

KBC, North Maharashtra University Jalgaon.

Teaching Experience: 13/10/2007 to till date

Research Experience: 1994 to till date

Completed & Ongoing research projects and work: 105.74 lacs

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	8.00	NASI (2018)

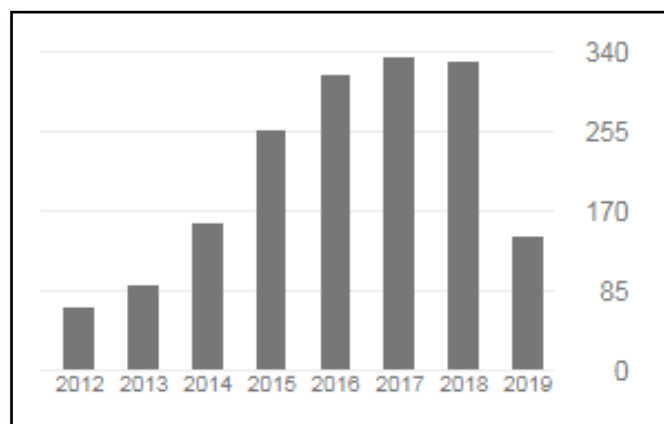
Awards and Achievement:

- **Best Teacher (2016) & Researcher excellence from 2013-2016 : from KBCNMU, Jalgaon**
- 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 : **International: 80.00,**
 National : 13

Cumulative Impact Factor: 207.92

Year	No. of Publications & Cumulative IF	Citation Indices
2009-2012	14 (30.87)	Citations 1955 h-index 23 i 10 index 48
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: Is there a common water-activity limit for the three Domains of life? **ISME Journal.** 9(6): 1333–1351(IF - 9.664)



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



Research interest:

My research focuses on the screening of microbes from different niches and their vital role, which may be useful in addressing some vital questions like:

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

Research Outputs

Publications : **International: 80.00,**

National : 13

Patent: **01 Indian patent: No 19507“ A method for exopolysaccharide production”(2003)**

Publication 2019-2020: Eleven (12)

1. Suryawanshi R, Lulia Koujah, Chandrashekhar Patil, Joshua Ames, Alex Agelidis, Tejabhram Yadavalli, **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)**
2. Vikas Patil,Bhavana mohite and shard Patil and Satish V Patil. April 2020. ESIPI inspired Benzothiazole Fluorescent molecule. In Book Benzothiazole : preparations structure and uses Chemistry research and application. Nova Publications Pp. 99-116
3. Patil S V , Patil C D, mohite B V, Borase H, Patil V 2020 . Azotobacter "Beneficial Microbes in Agro-Ecology" (Springer Publications) : Chapter (Accepted)
4. Kioli 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
5. Pail SV and Mohite Foldscope: A versatile tool to study the puppet masters of rhizospheric and aquatic microbiome **Chapter · December 2019 In book: Foldscope and its application., Publisher: National Press Associates, New Delhi, pp.212-21**
6. 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 waterArticle (PDF Available) in Applied Sciences 1(10) · October 2019 DOI: 10.1007/s42452-019-1212-
7. Mohite B, oli S, Rajput J,Patil V, Patil Sv.Production and characterization of multifacet exopolysaccharide from an agricultural isolate, Bacillus subtilis.Article in Biotechnology and Applied Biochemistry 66(8) · September 2019 DOI: 10.1002/bab.1824
8. Vikas Patil,Vikas Padalkar,Sehar Nagaiyan,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 ApproachArticle in Journal of Molecular Structure 1199:126984 · August 2019 DOI: 10.1016/j.molstruc.2019.1269

9. **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.
10. HP Borase, AB Muley, SV Pati, Singhal R. Nano-eco toxicity study of gold nanoparticles on aquatic organism *Moina macrocopa*: As new versatile ecotoxicity testing model. *Environmental Toxicology and Pharmacology* (May 2019) 68 4–12
11. Borase H P, Satish V Pati, Singhal R . *Moina macrocopa* as a non-target aquatic organism for assessment of ecotoxicity of silver nanoparticles: Effect of size. *Chemosphere* (March 2019) 219, 713-723
12. Vikas Patil, Vikas Padalkar, Sekar Nagaiyan, Jamatsing Rajput and Satish V Patil. Synthesis of 2-methyl-5-(5-phenyl substituted-1,3,4 oxadiazole-2-yl) quinazolin-4-one fluorescent brightening agent: Computational and experimental comparison of photophysical structure . *Journal of Molecular Structure.* (April 2019). 1182. 150-157

Publications Year- (2018): Seven (07)

1. 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/s10876-018-1396-0.
2. SV Patil, CD Patil, CP Narkhede, RK Suryawanshi, SH Koli, L Shinde, BV Mohite Phytosynthesized 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.
3. BV Mohite, SH Koli, SV Patil. Heavy metal stress and its consequences on exopolysaccharide (EPS) producing *Pantoea agglomerans* (In Press) *Applied Biochemistry and Biotechnology* (Feb 2018). doi: 10.1007/s12010-018-2727-1.
4. Koli, S. H., Mohite B. V., Suryawanshi, R. K., Patil, C. D., & Patil, S. V. (2018). Extracellular red *Monascus* pigment mediated 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 1.870**
5. 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

6. BV Mohite, SH Koli, SV Patil. "Bacterial Cellulose based Hydrogels..Synthesis, Properties and Applications. (Accepted) (2017). Ibrahim Mondal (Ed.), In Cellulose-based superabsorbent Hydrogels, Springer.
7. 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)**

Publications Year-(2017): Eight (08)

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. **IF1.870**

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).

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

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.

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**

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-1.47**

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. **IF2.502**

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**

Publications Year- 2016: Seven (07)

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. **IF0.833**

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.'

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). **IF1.069**

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. **IF1.790**

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.

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.

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

Publications Year-2015:Twelve (12)

- 1 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. **IF1.413**
- 2 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. **IF1.828'**
- 3 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. **IF9.664**
- 4 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. **IF1.581**
- 5 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.
- 6 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. **IF1.413**
- 7 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 *Serratia marcescens* and understanding its mechanism of action. (2015). *Pesticide biochemistry and physiology*, 123, 49-55. **IF2.590**
- 8 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. **IF1.751**
- 9 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. **IF1.751**
- 10 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. **IF1.828**
- 11 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. **IF2.590**
- 12 Bhavna V Mohite, Satish V Patil. Insights into bacterial cellulose biosynthesis and production. (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

Publications Year-2014: Sixteen (16)

- 1 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. **IF1.751**

- 2 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. **IF4.811**
- 3 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. **IF1.413**
- 4 Suryawanshi, R. K., Patil, C. D., Borase, H. P., Salunke, B. K., & Patil, S. V. Studies on production and biological potential of prodigiosin by *Serratia marcescens*. (2014). *Applied biochemistry and biotechnology*, 173(5), 1209-1221. **IF1.751**
- 5 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 Reinhardsbrunn Symposium, April 21-25 2013, Friedrichroda, Germany* (pp. 73-80). Deutsche Phytomedizinische Gesellschaft eV Verlag. Conference proceeding
- 6 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. **IF1.870**
- 7 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 *Poecillia reticulata*. (2014). *Biotechnology and applied biochemistry*, 61(4), 385-394. **IF1.413**
- 8 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. **IF1.581**
- 9 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. **IF1.870**
- 10 Mohite, B. V., & Patil, S. V. Bacterial cellulose of *Gluconoacetobacter hansenii* as a potential bioadsorption agent for its green environment applications. (2014). *Journal of Biomaterials Science, Polymer Edition*, 25(18), 2053-2065. **IF1.733**
- 11 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. **IF2.572**
- 12 Mohite, B. V., & Patil, S. V. Investigation of Bacterial Cellulose Biosynthesis Mechanism in *Gluconoacetobacter hansenii*. (2014). *ISRN microbiology*, 2014.
 - 13 Patil, C. D., Borase, H. P., Salunkhe, R. B., Suryawanshi, R. K., Narkhade, 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.
 - 14 Borase, H. P., Patil, C. D., Salunkhe, R. B., Narkhede, C. P., Suryawanshi, R. K., Salunke, B. K., & Patil, S. VMosquito larvicidal and silver nanoparticles synthesis potential of plant latex.. (2014). *Journal of Entomological and Acarological Research*, 46(2), 59-65
 - 15 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. **IF1.828**
 - 16 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.

Publications Year-2013:08

- 1 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. **IF4.565**
- 2 Borase, H. P., Patil, C. D., Salunkhe, R. B., Narkhede, C. P., Salunke, B. K., & Patil, S. V. Phyto-synthesized silver nanoparticles: a potent mosquito biolarvicidal agent. (2013). *J. Nanomed. Biother. Discov*, 3(7). **IF1.67**
- 3 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. **IF1.751**
- 4 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. **IF2.329**
- 5 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**

- 6 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. **IF1.765**
- 7 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. **IF2.215**
- 8 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. **IF1.575**

Publications Year-2009 to 2012: 15

1. Mohite BV, Kamalaja K and Patil SV (Oct2012). Statistical optimization of culture conditions for enhanced bacterial cellulose production by *Gluconoacetobacter hansenii* NCIM 2529. *Cellulose*. 19:5:1655-1666, doi-10.1007/s10570-012-9760-y **IF3.6**
2. 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**IF1.89**
3. Patil CD, Patil SV, Salunke BK and Salunkhe RB (Oct2011). Prodigiosin produced by *Serratia marcescens* NMCC46 as a mosquito larvicidal agent against *Aedes aegypti* and *Anopheles stephensi*. *Parasitology Research*. 109(4):1179-87. **IF 2.852**
4. Patil CD, Patil SV, Salunke BK and Salunkhe RB (May2012). Insecticidal potency of bacterial species *Bacillus thuringiensis* SV2 and *Serratia nematodiphila* SV6 against larvae of mosquito species *Aedes aegypti*, *Anopheles stephensi*, and *Culex quinquefasciatus*. *Parasitology Research*.109(4):1179-87. doi: 10.1007/s00436-011-2365-9**IF 2.852**
5. Patil CD, Borase HP, Patil SV, Salunkhe RB and Salunke BK (Aug.2012). Larvicidal activity of silver nanoparticles synthesized using *Pergularia daemia* plant latex against *Aedes aegypti* and *Anopheles stephensi* and nontarget fish *Poecillia reticulata*. *Parasitology Research*. 111(2):555-62, doi- 10.1007/s00436-012-2867-0 **IF 2.852**
6. Patil SV, Patil CD, Salunkhe RB, Maheshwari VL and Salunke BK (Dec.2011). Studies on life cycle of mealybug, *Maconellicoccus hirsutus* (Green) (Hemiptera: Pseudococcidae), on different hosts at different constant temperatures. *Crop Protection*. 30:1553-1556. doi:10.1016/j.cropro.2011.08.010**IF 2.215**
7. Patil CD, Patil SV, Borase HP, Salunke BK and Salunkhe RB. (May2012). Larvicidal activity of silver nanoparticles synthesized using *Plumeria rubra* plant latex against *Aedes aegypti* and *Anopheles stephensi* *Parasitology Research*. 110(5):1815-22,doi- 10.1007/s00436-011-2704 **IF 2.852**
8. Patil CD, Patil SV, Salunke BK and Salunkhe RB (2011). Bioefficacy of *Plumbago zeylanica*

- (Plumbaginaceae) and *Cestrum nocturnum* (Solanaceae) plant extracts against *Aedes aegypti* (Diptera: Culicidae) and nontarget fish *Poecilia reticulata*. *Parasitology Research*. 108(5):1253-63. doi- doi: 10.1007/s00436-010-2174-6 **IF 2.852**
9. Patil SV, Patil CD, Salunkhe RB and Salunke BK (2010). Larvicidal activities of six plants extracts against two mosquito species, *Aedes aegypti* and *Anopheles stephensi*. *Tropical Biomedicine* 2010:27(3):360-5. **IF0.649**
 10. Salunkhe RB, Patil SV, Patil CD and Salunke BK. (2011). Larvicidal potential of silver nanoparticles synthesized using fungus *Cochliobolus lunatus* against *Aedes aegypti* (Linnaeus, 1762) and *Anopheles stephensi* Liston (Diptera; Culicidae). *Parasitology Research*. 109(3):823-31. doi: 10.1007/s00436-011-2328-1. **IF 2.852**
 11. 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 **IF1.89**
 12. 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 **IF1.89**
 13. Patil SV, Patil CD, Salunke BK, Salunkhe RB, Bathe GA and Patil DM (2011). Studies on characterization of bioflocculant exopolysaccharide of *Azotobacter indicus* and its potential for wastewater treatment. *Applied Biochemistry and Biotechnology*. 163(4):463-72. doi: 10.1007/s12010-010-9054-5 **IF1.89**
 14. 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 **IF1.449**
 15. Patil SV, Salunkhe RB, Patil CD, Patil DM and Salunke BK (2010). Bioflocculant exopolysaccharide production by *Azotobacter indicus* using flower extract of *Madhuca latifolia* L. *Applied Biochemistry and Biotechnology*. 162(4):1095-108. doi: 10.1007/s12010-009-8820-8 **IF1.89**

Publications in National Journal:15

1. Patil SV and Salunke BK (2012). Will New UGC Rules Produce Quality PhDs. .University News Journal of Higher Education ISSN0566-257.Vol.50.no.11march12-18.2012.
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 (2004). Synthetic seed : A Potential tool to conserve plant. Book Chapter. *Biotechnological applications in Environment and agriculture*. ABD publishers Jodhpur India.
7. Patil SV, Salunke BK and Bhat JA (2003). Herbal rennet from *Calotropis gigantea*. *Journal of Medicinal and Aromatic Plant Sciences*. 25:392-396.
8. Patil SV, Salunke BK and Bhat JA (2003). Synthestic seeds – A potential tool to conserved plants. Green page article. *Journal of Natural product Radiance*.
9. Patil SV, and Bhat JA (2002). Other uses of *Psyllium*. *Spectrum : Medicine Science Reporter* Oct.2002
10. Patil SV, Salunke BK and Bhat JA (2003). Foliar Extract of *Calotropis gigantea* asource of rennet. *Chemical industry News*, March 2003.
11. Salunke BK, Patil SV, Lad R, Chattrge S, and Maheshwari VL (2008). Anti bacterial activities of three Indian plants. *Journal of Cell and Tissue Research*. 8(3):1545-1550.
12. 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.
13. 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
14. Cheese making properties of vegetable rennet from *Euphorbia geniculata*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
15. Patil, S. V., Bathe, G. A., Patil, A. V., Salunke, B. K., & Patil, R. H. (2009). Production of bioflocculant exopolysaccharide by *Bacillus subtilis*. *Production of Bioflocculant exopolysaccharide by Bacillus subtilis*, 8(10), 14-17.

Research students: A real catalyst of work

- **Dr. Chandrasekhar D. Patil (Microbiology)**
 - Marie Curie Fellow 2017,
 - Outstanding PDF Israel 2015
 - Erasmus Mundus fellow 2014. Perpignan, France
 - Charpak fellowship France 2013
 - SRF-CSIR, Delhi, 2012
- **Dr. Bavana V. Mohite (Microbiology) RFMS Fellow (UGC, Delhi), Young Scientist (SERB) , Women ScientistB**
- **Dr. Hemant P. Borase (Biochemistry): Inspire Fellowship DST, N PDF (DST)**
- **Rahul. Suryawanshi: (Biotechnology) Erasmus Mundus fellow 2016**
- **Chandrakant P. Narkhede: (Biochemistry) BSR Fellow (UGC , Delhi)**
- **Sunil H. Koli (Microbiology) BSR Fellow (UGC , Delhi)**

