

Department Of Zoology

Profile of the Department

The Department of Zoology was established in 1972. At present the department offers UG, PG, and Ph.D. programme in Zoology. The department is also conducting Career Oriented Add-on Courses in Bioinformatics (Certificate and Diploma) sponsored by UGC. The department has 5 permanent faculty members and all of them possess Ph.D. (Science) Degrees in Zoology. Faculty members are actively involved in research activities. There are 3 recognized research guides for Ph.D. in Zoology and M.Sc. (by research) in Zoology. Eight Minor Research Projects sanctioned by UGC and University of Mumbai have been completed by the faculty

Department has conducted 01 international and 05 National 05. 46 Research papers are published by the faculty members in peer reviewed International and National journals.

S/Lt. Kantilal Nagare (Regimental no. 912007) is deputed as Associate NCC Officer (ANO) of 01 Mah. Navel NCC since Dec. 2003.

Name of the research Centre:	Zoology
Year of establishment:	1972
No. of Seats for Ph.D.:	10
No. of Ph.D. Guide	03
PG recognized faculty	04
No. of M.Sc. Guide	03
No. Ph.D. students	06 (Research Proposal Submitted)

Research guides in the centre

Dr. Geeta Unnikrishnan
Associate Professor & Head
M.Sc. Ph.D.
Research Guide



She has completed Post-graduation in Zoology with specialization in Animal Physiology. Awarded Ph.D. in 2002 for the thesis titled 'Effects of Antidepressants in Rats'. She has been working as a faculty in Department of Zoology, Birla College for the past 32 years. She has an experience of 22 years in Post graduate teaching and research. She has guided several PG- research

projects.

She is currently the Head, Department of Zoology, Coordinator IQAC , Coordinator for DBT- Star College Scheme (2012-2018) and Coordinator UGC Sponsored Career Oriented ,Add- on Courses in Bioinformatics\ (2009-17) at Birla College. She has also worked in the capacity of co-coordinator IQAC, Coordinator PG Environmental Sciences.

She is involved in organizing various seminars, conferences, and refresher courses at Birla College in the capacity of convener, Organizing Secretary, and Treasurer. Conducted lectures and Practical in Bioinformatics as Resource Person in UGC - Staff Academic College sponsored Refresher Courses.

She is a Recognized Research guide for the University of Mumbai for, M. Sc. (2006) and Ph. D. (Science) Degree in Zoology (2009) and Ph.D in Biotechnology.(2010)

Book Publication :Basic developmental Biology by AkiNik Publication , Delhi – 110085

Publication year 2022

Pages 132

ISBN : 978-93-5570-360-6

Book DOI : <https://doi.org/10.22271/ed.book.1795>

Research Contribution:

No. of Publications: 24

No. of papers presented: 18

Seminar Conference Attended: 26

Workshops / Training/ Orientation programs Attended: 08

Students completed Ph.D :02 (Biotechnology)

Students completed Ph.D :01 (Zoology)

Students pursuing Ph. D. , 01 (Biotechnology).

➤ **Awards**

1. **Louis Pasteur Research Award-2015 in Biotechnology by International Agency for Standards and Ratings (IASR).**
2. **Ronald Ross Research Award-2015 in Pharmacy by International Agency for Standards and Ratings (IASR).**

➤ **Thrust area of research**

1. Animal Tissue Culture
2. Environmental Biotechnology
3. Physiology
4. Molecular Biology

5. Bioinformatics

➤ Life membership :

1. ATBS
2. Indian science Congress

3. Society for Science and Environment

Dr. Vinod Narayane
Assistant Professor
M.Sc. Ph.D.
Research Guide



Title of the invention : stable squash preparation and method for preparation thereof.
Application No.3797/MUM/2014 A

Books Authored :- 1 Vinod Narayane ,

Title of chapter - Influence of heated effluent from nuclear power plant (NPP) on costal water at Tarapur, Maharashtra

Title of book - Proceedings of National Seminar on Interdisciplinary Research in Life sciences: A path toward sustainability dated 10 January 2022

ISBN : 978-93-83342-68-6

2 - Books Authored :- 1 Vinod Narayane

Title of chapter - A common reproductive dysfunction (PCOS): A review based on secondary data

Title of book - Proceedings of National Seminar on Interdisciplinary Research in Life sciences: A path towards sustainability dated - 10 January 2022

ISBN : 978-93-83342-68-6

3 - Books Authored :- 1 Vinod Narayane

Title of chapter - Effects of Lead and Mercury on gluconeogenesis and gluconeogenesis in model animal, *Carassius auratus*

Title of book - Proceedings of National Seminar on Interdisciplinary Research in Life sciences: A path towards sustainability dated - 10 January 2022

ISBN : 978-93-83342-68-6

4 Title of chapter - Life Cycle and approach for management of white grub *Holotrichaea* Spc. In Sugar cane

Title of book - Implementation of National Education Policy 2020 (Multy Disciplinary Education) Advant
Publication year February 2023

ISBN 9789395369268

Dr. Kranti Ozarkar
Assistant Professor
M.Sc. Ph.D.
Research Guide



She has acquired a **Doctorate in Zoology** from Mumbai University. She has working experience of **11 years** in **teaching and research**. She is a **Visiting lecturer** at **University of Mumbai** for **M. Sc. I** and **M.Sc. II** in the **Department of Biotechnology** for academic year 2005-2006. She Worked as **Research Assistant** at **Shri. C. B. Patel Research Centre**, for **five years**, from November 1997 to August 2002. She was **lecturer** for **postgraduate diploma course (D.M.L.T)** in the same institute.

She has industrial experience of one year and Worked as **Management Trainee** with **Cipla Pharmaceuticles Ltd.** from July 1996 to June 1997.

1. Awards and Scholarship

Awarded University Merit Scholarship for M.Sc. I and M.Sc. II.

2. Recognition

She is recognized teacher of **Mumbai University** for **M.Sc. Degree (By Papers & By**

Research) In Zoology from September 8, 2009.

She is recognized teacher of **Mumbai University for M.Sc. Degree (By Papers & By Research) In Biotechnology** from February 22, 2010.

She is recognized teacher of **Mumbai University for Ph.D. Degree in Zoology** from December 10, 2014.

3. **Patent filed** A patent was filed in January 2000; application number 7/MUM/2000 on the Anti-inflammatory activity of *Cissus quadrangularis*: A composition for curing and/or alleviating inflammation, method of preparing said composition and a method of curing and/or alleviating inflammation using said composition. The patent was awarded in November 2002. Patent number is 188841 and was published in The Gazette of India.

4. Books authored: - Title of chapter - A review on Status and Challenges of Waste water Treatment Technology in India. Title of book - Proceedings of National Seminar on Interdisciplinary Research in Life sciences: A path towards sustainability, Date of publication – 10th January 2022
ISBN no - 978-93-83342-68-6

5. Projects Undertaken

Project for Ph. D.: Study of anti-inflammatory properties of *Cissus quadrangularis* Linn. and *Valeriana wallichii* DC using animal model Under the guidance of Dr. A. M. Bhgwat.

Worked on various projects in Shree C. B. Patel Research Centre, which were related to toxicity assessment of various drugs on the animal models.

Worked on the BNHS project on the decreasing population of Vultures from their natural habitat: a survey of any pathogen responsible for unnatural deaths of the vultures, from their visera.

During M.Sc. II project was undertaken for Identification of vitamin B 12 deficiency in chicks fed with diet rich in vitamin B verses diet deficient in vitamin B, to study the physiological effects.

In M.Sc. I carried a Limnological survey and effect of seasonal changes on of a fresh water ecosystem.

6. Professional Experience

7. At present working as an **Assistant Professor** at **Birla College of Arts, Science and Commerce, Kalyan**; from September 2006.
8. Currently involved in **Add on Course in Bioinformatics**, conducted by Department of Zoology, **Birla College of Arts, Science and Commerce, Kalyan**.
9. Worked as **visiting lecturer** for **M.Sc. Bio-Analytical Science** at **Birla College, Kalyan** for academic year 2007-2008 till date.
10. Worked as **visiting lecturer** for **M.Sc. Environmental Science** at **Birla College, Kalyan** for academic year 2010-2011 till date.
11. Worked as **visiting lecturer** for **M.Sc. Herbal Science** at **Birla College, Kalyan**
12. Worked as a **Visiting lecturer** at **University of Mumbai** for **M. Sc. I and M.Sc. II in the Department of Biotechnology** for academic year 2005-2006.
13. Worked as **Research Assistant** at **Shri. C. B. Patel Research Centre**, for **five years**, from November 1997 to August 2002.
14. Worked as **lecturer** for **postgraduate diploma course (D.M.L.T)** in the same institute.
15. Worked as **Management Trainee** with **Cipla Pharmaceuticals Ltd.** from July 1996 to June 1997.

16. Administrative Experience

17. Member, Science Association from 2009-2010
18. Member, Woman Development Cell and Woman Study Centre
19. Member, ISO Committee from 2014
20. Involved actively for preparations of NAAC 2nd Reaccreditation cycle

21. In-charge of Documentation Committee, NAAC 3rd Reaccreditation cycle
22. In- charge of Criterion I and VII for IMC RBNQ Award 2011
23. In- charge Best College Survey For Hansa Research and India today 2015-2016
24. Member, Star College Scheme from 2012-2013
25. Departmental Co-ordinator for DBT- Sponsored STAR College Scheme, 2015-2016
26. Member, Organizing Committee of Intercollegiate Science Festival ,Pravah 2013-2014', Organized, designed and Conducted Intercollegiate Quiz Competition- ,Brain Storm`
27. Co-cordinator of Intercollegiate Science Festival –, Pravah-2015-16`

Papers presented

28. Presented paper in poster session titled '**Development of Microbial Culture Medium from *Musa X paradisiaca*: An Attempt to Develop Biomaterial'** at the **International Conference on Recent Advances in Environmental Biotechnology**, November 14 & 15, 2009; organized by Birla College, Kalyan under the auspices of Society of Science and Environment, sponsored by UGC and University of Mumbai.
29. Presented paper in National Seminar on Ancient Sciences and Archaeology '**Pearls In Ancient India'**, 9th and 10th March 2015, Birla College, Kalyan.
30. **Minor Research Project** sponsored by **University of Mumbai** ,**Effect of Piscicidal Fractions of *Euphorbia tirucalli* L. on Muscles and Central Nervous System of Fish`**
31. Worked on **various projects** in Shree C. B. Patel Research Centre, which were related to **toxicity assessment of various drugs** on the animal models.
32. Worked on **the BNHS project** on the **decreasing population of Vultures**

from their natural habitat: a survey of any pathogen responsible for unnatural deaths of the vultures, from their viscera.

32. During **M.Sc. II project** was undertaken for **Identification of vitamin B 12 deficiency in chicks** fed with diet rich in vitamin B verses diet deficient in vitamin B, to study the physiological effects.

33. In **M.Sc. I** carried a **Limnological survey and effect of seasonal changes on of a fresh water ecosystem.**

- **Research Contribution :** She has Published 06 Research paper in peer reviewed International and National Research Journal.
- **Thrust area of Research:** Physiology, Toxicology, Molecular Biology, Photochemistry & Biotechnology

Other Researchers in the department

Dr. Kantilal H. Nagare
Assistant Professor
M.Sc. B.Ed. Ph.D.



He has completed Post graduation in Zoology with specialization ,Endocrinology` and Ph.D. in Zoology .

Has joined college 20th July 1993.

S/Lt. Kantilal Nagare (Regimental no. 9120007) is deputed as Associate NCC Officer (ANO) of 01-Mah. Navel NCC Birla detachment, since Dec. 2003.

Research Contribution :

He has published 03 Research Paper.

Poster Presented : 23

Book: authored university practical book of zoology SYBSc zoology Semister IV Course VIII ISBN : 978-93-5267-383-4 titled Population Ecology & Research Presentation having publisher University of Mumbai

2 Title of chapter - an eco-friendly and economical method for largescale manufacturing of Iron and Iron Oxide nanoparticles using extract of Lac Scientific Publishers

Title of book - Biological Science - A kaleidoscopic view of new trends in 2022

ISBN 9789392590696 year 2022

3 Title of chapter - Study on Effect of Sakash on Yeast *Sacchomyces cerevisiae*

Title of book - Fromntire n Biological Sciences (INCFBS-2023) On line Mode year 11th March 2023 ISBN 978-93-92268-33-5

4 Title of chapter - An Eco-Friendly and Economical Method for Large Scale Manufacturing of Iron

Title of book – Biological sciences – a kaleidoscopic view of new trends,

ISBN - ISBN: 9789392590696 208 Pages Year: 2022 Price: 1995.00


and Iron Oxide Nanoparticle Using Extract of Lac

- **Awards:** He is awarded with Best Poster presentation award for research paper entitled ,Guugul a good candidate for restoring sperm motility of obese wistar rat` at National Conference on ,Diversity and Physiology of Desert Fauna` from 7-8 February, 2014 , Jai Narayan University.
- Puraskar /Awards - Manushabal vikas loksewa academy (reg trust) Aayojit rajya striya gunijan Gaurav maha sammelan 2023 awards as rajya striya bharat jyoti Pratibha sanman excellence puraskar 2023

Dr. Nagare Kantilal Has edited following books -----

1	Book title and/or Chapter title with page nos.	Editor and/or Publisher	ISSN / ISBN No.
2	University textbook of Zoology Titled Population and Nature studies for FYBSc Semester II Course III	University of Mumbai	978-81-944369-0-4
3	University Practical book of Zoology Titled Population Dynamics and Field Studies for FYBSc Semester II Course III	University of Mumbai	978-81-9422-498-3
4	University textbook of Zoology Titled Hygiene and Common Diseases for FYBSc semester II Course IV	University of Mumbai	978-81-944369-1-1
5	University Practical book of Zoology Titled Nutrition and Public health for FYBSc Semester II Course IV	University of Mumbai	978-81-9422-499-0
6	University textbook of Zoology Titled Evolution and Research Methodology for SYBSc Semester IV Course VIII	University of Mumbai	978-81-944369-4-3
7	University textbook of Zoology Titled Cell Ultrastructure and Biomolecules For SYBSc Semester IV Course IX	University of Mumbai	978-81-944369-5-9
8	University Practical book of Zoology Titled Cytochemistry for SYBSc semester IV Course IX	University of Mumbai	978-81-944369-6-6
9	University Practical book of Zoology Titled Experimental ecology and Reproductive Biology for SYBSc Semester IV Course X	University of Mumbai	978-81-9444369-3-5
10	University textbook of Zoology Titled Reproduction, Embryology and Pollution for SYBSc Semester IV Course X	University of Mumbai	978-81-044369-2-8
11	University Practical book of Zoology Titled Enzymology, Endocrinology and Cell Culture for TYBSc Semester VI Course XVI	University of Mumbai	978-81-944584-2-5
12	University textbook of Zoology Titled Physiology and Tissue Culture for TYBSc Semeser VI Course XVI	University of Mumbai	978-81-944369-8-0

1 3	University Practical book of Zoology Titled Experiments in Genetics and Bioinformatics for TYBSc. Semester VI Course XVII	University of Mumbai	978-81-944584-3-2
1 4	University Practical book of Zoology Titled Experiments in Genetics and Bioinformatics for TYBSc Semester V Course XVII	University of Mumbai	978-93-5321-983-3
1 5	University textbook of Zoology Titled Environmental Management and Zoogeography for TYBSc semester VI course XVIII	University of Mumbai	978-81-944584-0-1
1 6	University textbook of Zoology Titled Taxonomy Of chordates for TYBSc semester VI Course XV	University of Mumbai	978-81-9422-494-5

<p>Dr. Dinesh Daujirao Wanule Assistant Professor M.Sc. Ph.D.</p>	
<p>He has completed Post graduation in Zoology with specialization ,Entomology ` from Swami Ramanand Teerth Marathwada University, Nanded and He has acquired Ph.D. in Zoology from Swami Ramanand Teerth Marathwada University, Nanded . He has 12 years teaching experience at UG and PG. Has joined Birla college on January, 02nd 2014.</p>	
<p>2 Title of chapter - an eco-friendly and economical method for largescale manufacturing of Iron and Iron Oxide nanoparticles using extract of Lac Scientific Publishers Title of book - Biological Science - A kaleidoscopic view of new trends in 2022 ISBN 9789392590696 year 2022</p>	
<p>3 Title of chapter - Study on Effect of Sakash on Yeast Sacchromyces cerevisiae Title of book - Fromtiren Biological Sciences (INCFBS-2023) On line Mode year 11th March 2023 ISBN 978-93-92268-33-5</p>	
<ul style="list-style-type: none"> ➤ Award: He was awarded as Ranjiv Gandhi National Fellowship By University Grants Commission, New Delhi. ➤ Research Contribution : He has published 17 Research paper in peer reviewed in 	

international and National research journal

➤ **Book** : Published a Chapter on Acarology in Book Fauna Of Maharashtra, Published By Zoological Survey of India, Government of India.



➤ **Thrust area – Toxicology and Entomology**

Ph.D. (Science) Degree in the subject of Zoology	
Name of Guide	Dr. Geeta Unnikrishnan

No.	Name Of Student	Year of Award	Photograph
1.	Ms. Isha Shrivastava	Currently Pursuing	
2.	Mr. Deepak Poojary	Currently Pursuing	
3	Ms. Aditi Pandit	Currently Pursuing	
4.	Rohan D'Souza	Currently Pursuing	

Ph.D. (Science) Degree in the subject of Zoology	
Name of Guide	Dr. Vinod Narayane

1.	Ms. Nutan Kamble	Synopsis Submitted	
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2.	Ms. Harsha Padwal	Synopsis Submitted	
3	Mr. Bhausahab Kolkar	Pursuing PhD	
4	Mr. Dilip Ahire	Pursuing PhD	
5.	Mr. Ajay Katkar	Pursuing PhD	

List of Minor Research Projects

Name of Investigators	Title of project	Amount Sanctioned	Year
	Study Of Pollutants (Heavy Metals) In Edible Fishes Of Shenale Lake, Kalyan	Sanctioned by UGC Rs.37,000/-	2005-2007

	Physical and Chemical analysis of Lonad Lake	Sanctioned by University of Mumbai Rs. 5,000/-	2004-05
	Study Of Seasonal pH And Temperature Variations On Two Commonly Available Crab Species With Special Emphasis On Heat Shock Proteins	Sanctioned by University of Mumbai Rs. 12,000/-	2009-10
	A Comparative Study Of Hypoglycemic Activity Of <i>Cinnamomumzeylanicum</i> With Modern	Sanctioned by University of Mumbai Rs. 18,000/-	2009-10
	Hypoglycemic Agents Using Mouse Model		
	Larvicidal Activity of <i>Terminalia catappa</i> Leaves Against The Larvae of <i>Aedes aegypti</i> Mosquito : A Vector –level intervention in Dengue Fever Control	Sanctioned by UGC Rs. 70,000/-	2010-12
	Mutagenic Effects of <i>Myristica fragrans</i> Houtt.	Sanctioned by UGC Rs. 1,89,860/-	2010-12
	Protein Profiling And Anti-Microbial Study Of The Extract Of Ovo-Testes Gland Of The Garden Snail – <i>Helix aspersa</i>	Sanctioned by University of Mumbai Rs. 25,400/-	2012-2013

	Effect Of Piscicidal Fractions Of <i>Euphorbia tirucalli</i> L. On Muscles And Central Nervous System Of Fish	Sanctioned by University of Mumbai Rs.22,400	2012-13
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Research publication

Dr. Geeta Unnikrishnan

1. **Geeta Unnikrishnan**, RohiniShivabalan and Lillian John, (2008), 'Sub Acute Toxicity of Fluoxetine Hydrochloride(Prozac) on testis of reserpine-depressed wistar rats.', Journal of cell and Tissue Research, 8(1):1339-1345.ISSN: 0973-0028
2. **Unnikrishnan, G.**, Indu, K.M., Ozarkar, K. (2009), 'Hypocholesterolemic Effect of *ZingiberOfficinale* (Rosc) In High Fat Diet Fed Rats', Journal of Herbal Medicine and Toxicology, 3 (1):19-22, ISSN: 0973-4643.
3. **G. Unnikrishnan**, R. Shivabalan .and J. Lillian, (2009), 'Sub- Acute Toxicity Of Fluoxetine Hydrochloride On Fertility Of Male Wistar Rats', Journal Of Herbal Medicine And Toxicology, 3 (1):23-30, ISSN: 0973-4643.
4. Narayane V.S., Pushkar B.K., **Geeta U.**, Nagare K.H., Ozarkar K.R., (2011), 'Development of microbial culture media from *EichorniaCrassipes*: An efficient way of using the biomass of the water weed' Bionanofronteir, Vol 4(1) Jan 2011. ISBN 0974-0678
5. KrantiOzarkar., **Geeta Unnikrishnan.**,VinodNarayane., Nagare K.H., A.M.Bhagwat., 'Spectroscopic analysis of *Cissusquandrangularis* Linn. and *Valerianawallichii* DC.' Bionanofronteir, Vol 4(1) Jan 2011. ISBN 0974-0678
6. **Geeta Unnikrishnan**, 'Larvicidal and Pupicidal Activity of *Terminalia catappa* Leaf Extracts on *Aedes aegypti* Mosquito: A Vector Intervention'. IOSR Journal of Pharmacy and Biological Sciences. e-ISSN2278-3008 P-ISSN-2319-7676 IF 1.158
7. SonaliPatil, AnjuUnnithan, **Geeta Unnikrishnan**, 'Biosulphidogenesis and Bioaccumulation of sulphate by moderately Thermophilic, Facultative anaerobic bacteria *Aeromonashydrophila* isolated from hot water spring.' Research Journal of Recent Sciences An international peer reviewed Journal. ISSN 2277-2502 – Peer reviewed
8. AnjuUnnithan, Sonali Patil, **Geeta Unnikrishnan**, Jossy Varghese, 'Long Chain Fatty Alcohols from *Eupatorium odoratum* as anti – candida agents', International Journal of Pharmacy and Pharmaceutical Sciences, ISSN- 0975- 1491 – IF- 1.59
9. **Geetha Unnikrishnan**, Shweta Bhangale, Anju Unnithan, Sonali Patil. 'Microbial Sensitivity assay & HPTLC analysis of *Terminalia cattappa* & *Adathoda vasica*', Journal of Biomedical and Pharmaceutical Research. Volume 3, Issue 4, 2014. Pg.58-62. SSN- 2279-0594. CODEN(USA) – JBPRAU International, Peer reviewed. DIDS

08.2014-26188919. IMPACTFACTOR: 2.066. SJIF IMPACT FACTOR: 3.068. IC VALUE: 5.56

10. Patil. S.Z, Unnithan A, and **Geetha Unnikrishnan** , , An Investigation into the mechanisms Underlying Enhanced Biosulphidogenesis in Bacillus sp. , IOSR Journal of Environmental Science, Toxicology and Food Technology, Vol 9, Issue I, Jan 2015. e-ISSN:2319-2402. Vol:9.Issue:1.Version III. International Peer reviewed Impact factor,1.823
11. Unnithan A. R., Patil S., **Unnikrishnan G.** , ,3D Structure Prediction of Acetylcholineesterase in Aedes aegypti by Multitemplate Modelling. , International Journal of Pharmacy, ISBN- 8237-7516. **Peer Reviewed Indexed International Journal** IMPACT INDEX- 5.50. Imprint Photon.
12. Unnithan A. R., Patil S., **Unnikrishnan G.** , ,In Vitro Sensitivity Assay Of Lantana Camara against Aedes Agypti With Supplementary Facts From GCMS And in silico Analysis` , Journal of Biomedical and Pharmaceutical Research. Volume 4, Issue 1, 2015. Pg.5-9.. ISSN- 2279-0594.CODEN(USA) – JBPRAU. International, Peer reviewed. DIDS 08.2014-26188919. IMPACTFACTOR: 2.066. SJIF IMPACT FACTOR: 3.068.IC VALUE: 5.56
13. Patil. S.Z, Unnithan A, and **Geetha Unnikrishnan** , ,Biosulphidogenesis: Isolation and Characterization of Thermodesulfobacterium commune sp. . Isolated from hot water springs of Thane, Maharashtra. , International Peer reviewed. e-ISS2278-3008. P-ISSN-2319-7676. Vol 9, Issue 3 , Ver III (may-June 2014) pg 09-13. 1.519
14. Patil. S.Z, Unnithan A, and **Geetha Unnikrishnan** , ,Biosulphidogenesis: Isolation and Characterization of Thermodesulfobacterium commune sp. . Isolated from hot water springs of Thane, Maharashtra. , International Peer reviewed e-ISS2278-3008. P-ISSN-2319-7676. Vol 9, Issue 3 , Ver III (may-June 2014) pg 09-13IF1.519
15. Patil. S.Z, Unnithan A, and **GeethaUnnikrishnan** , , An Investigation into the mechanisms Underlying Enhanced Biosulphidogenesis in Bacillus sp. , IOSR Journal of Environmental Science, Toxicology and Food Technology, Vol 9, Issue I, Jan 2015 e-ISSN:2319-2402 Vol:9 Issue:1 Version III **IF**1.823
16. Unnithan A. R., Patil S., **Unnikrishnan G.** , ,3D Structure Prediction of Acetylcholineesterase in Aedesaegypti by Multitemplate Modelling. , International Journal of Pharmacy ISBN- 8237-7516 5.50. Imprint Photon.
17. Unnithan A. R., Patil S., **Unnikrishnan G.** , ,In Vitro Sensitivity Assay Of Lantana Camara against AedesAgypti With Supplementary Facts From GCMS And in silico Analysis` , Journal of Biomedical and Pharmaceutical Research. Volume 4, Issue 1,

2015. Pg.5-9. ISSN- 2279-0594.CODEN(USA) – JBPRAU International, Peer reviewed IF 2.066 SJIF IMPACT FACTOR: 3.068 IC VALUE: 5.56
18. Sonali Patil, **Geetha Unnikrishnan**, (2015) ,Hot Water Springs: Ancient And Modern Era'Journal of Global Biosciences Volume 4, Number 6, pp. 2468-2472 ISSN-2320-1355 IF1.115
 19. SonaliPatil Anju Unnithan **Dr. Geetha Unnikrishnan** (2015) ,The Mechanisms Underlying Enhanced Bioremediation in Thiobacillus spp.'International Journal of Biotechnology. Photon 114 424-430 ISJN: 3352-7304 IF4.23 Peer Reviewed
 20. SonaliPatil, **Geetha Unnikrishnan**, ,Isolation, characterization and identification of heavy metal tolerating thermophiles from hot water spring` European Journal for Biotechnology and Biosciences Volume: 3, Issue: 7, 17-22 **July 2015** ISSN: 2321-9122 IF3.742 Peer Reviewed
 21. Protein profiling of heavy metal tolerating new strain of Pseudomonas isolated from hot water spring, Journal of Emerging Technologies and Innovative Research., 2019, ISSN 2349- 5162, 7.95 Impact Factor by google scholar, Sonali Patil, Geetha Unnikrishnan,
 22. Determination of heavy metals in surface and ground water in Vasai Region. , International Journal of advance and Innovative Research.Vol 6.Issue 2 (VII) pp. 118 – 122, April - June, 2019 Part – 3, ISSN 2394 – 7780, **impact Factor: 7.36**, Rohan L.D'Souza Shalakra Patil
 23. Characterization of Heavy Metal Induced metabolic Changes in New strain of Strptococcus thermopiles isolated from Hot spring., International Journal of Creative Research Thoughts Volume 8 | Issue 3 | Page No : 2320-28 -82 April 2020, April 2020, International, Sonali Patil and Geetha Unnikrishnan
 24. Lipid peroxidation studies an oxidative stress induced by pyrethroid and organophosphate pesticide on fish, Proceedings of national conference on ADVANCES IN CHEMICAL SCIENCES & SUSTAINABLE DEVELOPMENT, 9th & 10th Apr 2021, ISSN- 1186-1190, Geetha Unnikrishnan
 25. Preparation and Study of Mechanical and Biodegradable Properties of PVA based Bioplastic blends derived from Broken Rice Flour, Research Journal of Agricultural Sciences An International Journal Volume: 12 Issue: 06 Page No.:2281–2284, December 2021, ISSN:2249-4538 , NAAS 4.633, Rohan L. D'Souza and Dr. Geetha Unnikrishnan

Dr. Nagare K.H.

1. Dinesh Wanule , **Kantilal Nagare**, Sariya Moulvi , Nitin Koche, ,Extraction and Physico-Chemical Analysis of Chitosan from Shell of Marine Crab Scylla Serrata.'INDIAN JOURNAL OF APPLIED RESEARCHVolume : 6 | Issue : 3 | March 2016 | ISSN - 2249-555X | IF : 3.919 | IC Value : 74.50
2. Kranti Ozarkar., Geeta Unnikrishnan. VinodNarayane.**Nagare K.H.**, A.M.Bhagwat ,Spectroscopic analysis of *Cissusquandrangularis* Linn. And *Valerianawallichi* DC.` , ResBionanofronteir, Vol 4(1) Jan 2011. ISBN 0974- 0678 **IF: 0.29**
3. Narayane V. S., Pushkar B.K., Geeta U.,**Nagare K.H.**, Ozarkar K., ,Development

of microbial culture media from Eichorniacrassipes: An efficient way of using the biomass of the water weed', R Bionanofronteir, Vol 4(1) Jan 2011. ISBN 0974-0678- 2011 IF 0.29

PATENT -----

- 1) Title of patent – Exhaled air disinfecting system, , status – Granted , Inventors - Dr. Kantilal Nagare and Dr. Dinesh Wanule, Patent application number - 330578-001 , filing date - 30.06.2020, published / granted date- 17.03.2021, publication number 330640-001
- 2) Title of patent – Emotion sensing point of sale system, status – Granted , Inventors - Dr. Kantilal Nagare and Dr. Dinesh Wanule, Patent application number - 343148-001 , filing date - 07.05.2021, published / granted date- 09.07.2021, publication number - 343148-001
- 3) Title of patent – Emotion projecting Badge, status – Granted , Inventors - Dr. Kantilal Nagare and Dr. Dinesh Wanule, Patent application number - 344844-001, filing date - , published / granted date-17.6.2021 , publication number - 344844-001
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9. Poster Presentation in National Conference on paper entitled ,**Guggul A Good Candidate For Restoring Sperm Motility Of Obese Wistar Rat**', in Diversity and Physiology of Desert Fauna Organized by Department of Zoology Jai Narayan Vyas University Jodhpur (Rajasthan) dated on 07th – 8th Feb 2014
10. Poster Presentation in National Conference on paper entitled , **Effect of Sibutramine on Sperm Motility Of Obese Wistar Rat**', in Diversity and Physiology of Desert Fauna Organized by Department of Zoology Jai Narayan Vyas University Jodhpur (Rajasthan) dated on 07th – 8th Feb 2014
11. Poster Presentation in National Conference on paper entitled ,**Indigenous Herbal Medicine Used By Tribal People In Satpuda Mountain**', in Diversity and Physiology of Desert Fauna Organized by Department of Zoology Jai Narayan Vyas University Jodhpur (Rajasthan) dated on 07th – 8th Feb 2014
12. Poster Presentation in National Conference on paper entitled ,**Preliminary Study On The Reptilian Fauna Of The Riparian Zone Of River Savitri At Mahad (Raigad)** ', in Diversity and Physiology of Desert Fauna Organized by Department of Zoology Jai Narayan Vyas University Jodhpur (Rajasthan) dated on 07th – 8th Feb 2014
13. Poster Presentation in National Seminar on Climate change in South Asia paper entitled ,**Bioaccumulation of Metabolically important heavy metal 'Cu' in water Hyacinth [Eichhornia crassipes (Mart.) Solms] & Tilapia [Oreochromis mossambicus(Peters, 1952)] and its probable effect** ',Organized by University of Mumbai Department of Biotechnology and Department of Civics and Politics in collaboration with ICSSR- WRC Mumbai dated 07thMarch 2014
14. Poster Presentation in UGC Sponsored National Conference on Concept on New trends in Aerobiology and Allergy (CANTAA-2013) paper entitled ,**Ornithophily , Common In Forest of Belapur**', Organized by Department of Botany and Zoology Bharatiya Vidya Bhavans Hazarimal Somani College of Arts and Science and Jaramdas College of Commerce and management Studies , Mumbai 400007 dated on 29th – 30th Nov. 2013

15. Poster Presentation in UGC Sponsored Two days National Conference on Synergy of Bioscience : The New Era , **Immunomodulatory Effect On Spleen And Thymus Of Albino Rat After The Treatment With Phylanthus Niruri (Linn): A Histopathological Investigation`** Organized by Department of Biological Sciences, Birla College Kalyan dated on 26th – 27th Feb. 2011

16. Poster Presentation in UGC Sponsored International Conference on Recent Advances in Environmental Biotechnology , **Development of Microbial Culture Medicum from Musa X paradisiaca : An Attempt to Develop Biomaterial `** Organized by Society of Science and Environment held at Birla College Kalyan dated on 14th – 15th Nov. 2009

17. Poster Presentation in National Symposium on Comparative Endocrinology and Reproductive Physiology : Current Advances , **Effect of Carica papaya Extract and Latex on the Reproductive System of Albino Rat (Wistar strain) : A comparative Study `**, Organized by Department of Zoology Institute of Science , Mumbai and Indian Society for Comparative endocrinology Sponsored by ICMR,DST, DBT CSIR , University Grants Commission , INSA, dated on 17th – 19th Dec.. 2009

18. Poster Presentation in National Seminar on Environmental Management and Its Impact on National Development , **Limnological Study of Adharwadi Lake-Kalyan`**, Organized by Birla College of Arts, Science and Commerce, Kalyan and Society of Science and Environment Sponsored by University Grants Commission dated on 28th – 29 Feb 2004

19. Poster Presentation in National Seminar on Environmental Management and Its Impact on National Development , **Limnological Study of Shenale Lake-Kalyan`**, Organized by Birla College of Arts, Science and Commerce, Kalyan and Society of Science and Environment Sponsored by University Grants Commission dated on 28th – 29 Feb 2004

20. Poster Presentation in National Seminar on Environmental Management and Its Impact on National Development , **A comparative Limnological Study of Major Lake of Kalyan- Present Status`**, Organized by Birla College of Arts, Science and Commerce, Kalyan and Society of Science and Environment Sponsored by University Grants Commission dated on 28th – 29 Feb 2004

21. Poster Presentation in National Seminar on Environmental Management and Its Impact on National Development , **Toxic Effect of Zinc on Tilapia Mossambica of Shenale Lake-Kalyan** , Organized by Birla College of Arts, Science and Commerce, Kalyan and Society of Science and Environment Sponsored by University Grants Commission dated on 28th – 29 Feb 2004

22. Poster Presentation in National Seminar on Environmental Management and Its Impact on National Development , **Toxic Effect of Zinc on Tilapia Mossambica of Shenale Lake-Kalyan** , Organized by Birla College of Arts, Science and Commerce, Kalyan and Society of Science and Environment Sponsored by University Grants Commission dated on 28th – 29 Feb 2004

23. Poster Presentation in National Seminar on Environmental Management and Its Impact on National Development , **Effect of oral administration of insecticide cypermethrin (Active Toxicity) on some Hematological and Histopathological Parameters in Mouse** , Organized by Birla College of Arts, Science and Commerce, Kalyan and Society of Science and Environment Sponsored by University Grants Commission dated on 28th – 29 Feb 2004

Dr. Vinod Narayane

1. Effect of combination regimen of cyproteron acetate and testosterone enanthate on accessory reproductive organs of male rat. *17th National conference of Society for Reproductive Biology and comparative endocrinology (Nov. 29th , 30th 1996)*

2. Study of ultrastructure of pituitary gland following the treatment of oestradiol valerate. *88th Session of Indian Science Congress (Jan 3rd – 7th 2002).*

3. Pteropus gigantius migrate periodically. Do they? *National symposium on Recent Trends in Life Sciences and Biotechnology. (Nov 20th -22nd 2001)*

4. Light and electron microscopic observations of pituitary cells in normal and experimental animals. *National symposium on Recent Trends in Life Sciences and Biotechnology. (Nov 20th -22nd 2001)*

5. Detailed investigations on structure function of PRL cells under Tamoxifen Citrate regimen.

6. *National symposium on Recent Trends in Life Sciences and Biotechnology. (Nov 20th - 22nd 2001).*
7. Protein profiling of two species of crabs to establish their molecular differences.
8. *National conference on environment and natural disaster management. (Nov 28th – 30th 2005).*
9. Study of stress induced alterations in protein profile of two commonly available crab species.
10. *National conference on environment and natural disaster management. (Nov 28th – 30th 2005).*
11. Anticancer drug etoposide: A threate to testicular cytoarchitecture. *25th National conference of Society for Reproductive Biology and comparative endocrinology (Jan 15th - 17th 2007).*
12. Diva –Kalyan Mangroves and Bird diversity. *National conference on Varied perspective of Biodiversity. (Feb 2nd -3rd 2007).*
13. Study of Immunomodulatory effects of an Indian Ayurvedic plant, *Phyllanthus niruri* in healthy albino rats: Contribution to herbal medicine. *National seminar in frontiers in Biotechnology and Bioinformatics(Feb 2nd -3rd 2007).*
14. Development of potential herbal therapy for jaundice using radish root ash: Physical and biological findings. *Recent advances in the discovery and the use of Bioactive molecules.*
15. *(March 7th and 8th 2008).*
16. Development of microbial culture medium from *Musa paradisiac*. *International conference on recent trends in environmental biotechnology (14th -15th Nov. 2009).*
17. Development of male anti-fertility agent from *Nerium oleander*: An attempt to control human population for sustainable development *National symposium on comparative endocrinology and reproductive physiology. (17th -19th Dec. 2009.)*
18. Ultrastructural investigation of pituitary gland after the treatment regimen of anticancer drugs doxorubicin and cisplatin in male wistar rats. *National symposium on comparative endocrinology and reproductive physiology. (17th -19th Dec. 2009).*

19. Ultrastructural studies of yolk sac during different stages of gestation in a megachiropteran species, *Cynopterus spinx gangaticus*. *National symposium on comparative endocrinology and reproductive physiology*. (17th -19th Dec. 2009)
20. .
21. *Ultrastructural investigations on the interhemal membrane of the microchiropteran vespertinoid bat-Scotophilus heathi, during varied stages of gestation. National symposium on comparative endocrinology and reproductive physiology.*(17th -19th Dec. 2009).
- 22. Identifying the potentials of Phansad Wild Life Sanctuary as a site for ecotourism. State level conference on Ecotourism an Indian Perspective (Feb 13th 2010).**
- 23. Ignitian Pedagogical Paradigm: An effective model for value based education. State level conference on Trade-An elixir for better society. (Jan. 16th-17th 2010).**
24. An assessment of general metabolism under starvation. *National conference on synergy of Biosciences* (26th -27th Feb 2011).
25. Amphibian and reptilian diversity of Phansad wild life sanctuary: A report. *National conference on synergy of Biosciences* (26th -27th Feb 2011).
26. Immunomodulatory effects on spleen and thymus of albino rats after the treatment with *phylanthus niruri*: A Histopathological investigation. *National conference on synergy of Biosciences* (26th -27th Feb 2011).
- 27. Phansad Wild life sanctuary: An important forest reserve for reptiles. National conference on forest for the future of man. (Sept 16th -17th Sept. 2011) udy.**
- 28. Avifauna of riparian zone of river Savitri at Mahad (Raigad)-Preliminary Study National conference on Recent trends in Bioremediation and Biodiversity conservation (March 8th 2013).**
- 29. Assessment of paradigm used for environmental education conducted for school children in Kalyan taluka. Dist. Thane. National conference on Recent trends in Bioremediation and Biodiversity conservation (March 8th 2013).**
- 30. Role of mythology and folklore in enrichment and conservation of Indian Natural history.**

31. VIII national conference of Ancient Sciences and Archaeology (March 9th -10th 2015).

32. Use of paramecium caudatom as a test model in the studies of heavy metal pollution.

33. International Conference on Ecosystem Services of Wetlands Ardrabhumi: 2016. (Feb 16th -17th2016).

Dr. Dinesh Wanule

1. Presented paper in 4th World Aurveda Congress, Held at Bengaluru on 9-13 December, 2010
2. Paper presented in 102nd Indian Science Congress, Mumbai 03rd – 7th January, 2015
3. Paper presented in National conference of Ancient Sciences and Archaeology at Birla College, Kalyan (W) on 9th and 10th March, 2015