

# CURRICULUM VITAE

Name : Varada Samir Damare

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\*Qualified the **Joint CSIR-UGC NET LS Examination** held in **December 2001**.

## **Other qualifications (Awards, Honors etc).**

- Invited to deliver a **keynote lecture** at the First International Conference on Labyrinthine Protists (ICoLP) to be held on 28-30 Aug. 2019 at Kobe, Japan.
- **Treasurer** for one day seminar on *New Perspectives in Biosciences* held at Department of Microbiology, Goa University, Goa on 7<sup>th</sup> December 2017.
- Consolation prize of **Best Poster presentation** in *National Conference on Emerging Trends in Fungal Biology and Plant Protection (ETFPP-2016)* held at Banaras Hindu University, Varanasi during 16-18<sup>th</sup> February 2016.
- **Co-chaired** a session on “Special Interest Group: Stramenopilan Fungi” during *Asian Mycology Congress 2015* held at Goa, India in Oct. 2015.
- **Member of Local Organizing Committee** for *Asian Mycology Congress 2015* held at Goa, India in Oct. 2015.
- **Special prize** awarded for participation in essay competition on ‘*Role of technology in oceanography*’ conducted on National Technology Day at CSIR-NIO on 13<sup>th</sup> May, 2014.
- **Rapporteur** for a session on ‘*Marine Algal Biotechnology*’ during *Asean-India Marine Biotechnology Workshop* (International) held at CSIR-National Institute of Oceanography during March 19-22, 2013.
- **Member of Local Organizing Committee** for *Asean-India Marine Biotechnology Workshop* (International) held at CSIR-National Institute of Oceanography during March 19-22, 2013.
- **Principal Investigator** of DST Research Project under **SERC Fast Track Proposals for Young Scientists 2011-2012**: Ref. No. SR/FTP/ES-186/2010(G).
- **Post-doctoral fellow** at **Institute of Marine Biotechnology (IMaB), Greifswald, Germany** during Jan 2009-Feb 2010.
- **CSIR International Travel Grant** awarded for attending *Asian Mycology Congress 2007 and X<sup>th</sup> International Marine and Fresh water Mycology Symposium* held at Penang, Malaysia in Dec. 2007
- Prof. M. J. Thirumalachar memorial award for **Best Oral presentation** in the *National Conference on Recent Trends in Mycological Research* held at JJ College of Arts and Science, Pudukkottai during Dec. 28-29, 2006.

- **Best poster presentation** at international conference *COMITS* held at CSIR-National Institute of Oceanography, Goa during Dec.13-15, 2004.
- **Management Prize** for securing distinction in Microbiology (2000) in T.Y.B.Sc., by St. Xavier's College, Goa.

## Publications

1. **Varada S. Damare** (2019) Chapter 30. Advances in isolation and preservation strategies of ecologically important marine protists, the thraustochytrids. In: Meena S.N. and Naik M.M. (Eds) *Advances in Biological Science Research*. Elsevier Inc. pp. 485-500.
2. **Damare V.** & Raghukumar S. (2015) Apparent grazing losses of Labyrinthulomycetes protists in oceanic and coastal waters: An experimental elucidation. *Ecological Research*. 30: 403-414.
3. **Damare V.** (2015) Diversity of thraustochytrid protists isolated from brown alga, *Sargassum cinereum* using 18S rDNA sequencing and their morphological response to heavy metals. *Journal of the Marine Biological Association of the United Kingdom*. 95: 265-276.
4. **Varada S. Damare**, Bliss Furtado, Saijiya Mujawar, Siona Silveira, Samir Damare. (2014) "जैविक उपचार के एजेंट के रूप में सूक्ष्मजीव" in *सागरबोध*.7: 25-31.
5. Sullivan B. K., Sherman T. D., **Damare V. S.**, Lilje O. and Gleason F. H. (2013) Potential roles of *Labyrinthula* species in global seagrass population declines. *Fungal Ecology*. 6: 328-338.
6. **Damare V. S.**, Damare S., Ramanujam P., Meena R. M. & Raghukumar S. (2013) Preliminary studies on the association between zooplankton and the Stramenopilan fungi, aplanochytrids. *Microbial Ecology*. 65: 955-963.
7. **Damare V. S.** & Raghukumar S. (2012) Marine aggregates and transparent exopolymeric particles (TEPs) as substrates for the stramenopilan fungi, the thraustochytrids: Roller table experimental approach. *Kavaka*. 40: 22-31.
8. Leñaño E. M. & **Damare V.** (2012) Chp 12. Labyrinthulomycota. In: Jones E. B. G. and Pang K-L (Eds.) *Marine Fungi and Fungal-like Organisms*. Walter de Gruyter GmbH. Pp 215-243.
9. Raghukumar S. & **Damare V. S.** (2011) Increasing evidence for the important role of Labyrinthulomycetes in marine ecosystems. *Botanica Marina*. 54: 3-11.
10. **Damare V. S.**, Khalap S. & Raghukumar S. (2011) Simple electric powered plankton wheel for the production of aggregates in seawater on-board ship. *Indian Journal of Geo-Marine Sciences*. 40: 37-41.
11. **Damare V.** & Raghukumar S. (2010). Association of the stramenopilan protists, the aplanochytrids, with zooplankton of the equatorial Indian Ocean. *Marine Ecology Progress Series*. 399: 53-68.
12. **Damare V.** & Raghukumar S. (2008) Abundance of thraustochytrids and bacteria in the equatorial Indian Ocean, in relation to Transparent Exopolymeric Particles (TEPs). *FEMS Microbiology Ecology*. 65: 40-49.

13. **Damare V.** & Raghukumar S. (2006) Morphology and physiology of the marine straminipilan fungi, the aplanochytrids isolated from the equatorial Indian Ocean. *Indian Journal of Marine Sciences Special Issue on Marine Mycology*. 35(4): 326-340.

#### Articles Published in Local Newspaper

- A series of 10 articles on Marine Biotechnology in special edition of Marathi newspaper **Lokmat ‘Ocean Book’** during December 2011-February 2012.

#### Training workshops/seminars attended

1. Attended *Intellectual Property Rights (IPR) Awareness Programme* organized by ASSOCHAM and IP Office at Goa University on December 11, 2018.
2. Attended *International Proteomics Symposium* on February 22, 2018 at IIT Goa.
3. Attended the Master Class I, of the Master Classes Series, on “*Transforming teachers- a critical need for this digital century*” by Prof. Deepak B. Phatak, IIT-Mumbai organized by the Directorate of Higher Education, Goa at Panaji, Goa on February 10, 2018
4. Participated in the *Nobel Dialogue* in the *Nobel Prize Series*, India 2018 Event organized by Media AB, Department of Biotechnology, Govt. of India and Department of Science and Technology, Govt. of Goa at Panaji, Goa on February 2, 2018.
5. Indian-German Winter School on “*Linking ecology with ocean biogeochemistry*” held at CSIR-National Institute of Oceanography, Goa with lecturers from CSIR-NIO and Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Bremerhaven, Germany on February 2-13, 2015. The course covered general overview with specific case studies on ocean acidification, nitrogen cycle, iron limitation, algal physiology, key species, deep-sea biodiversity, geoengineering options and mathematical modelling.
6. *Basic Operations of Ultra High Definition MS and its Application for Analyzing Small & Large Molecules* held at CSIR-National Institute of Oceanography, Goa on November 5-7, 2014.
7. *Structural Equation Modelling (SEM) using AMOS* held at Christ University, Nodal Office, Thiruvananthapuram on September 25-27, 2014.
8. *Quantitative Research and Techniques using IBM SPSS* held at Christ University, Nodal Office, Thiruvananthapuram on July 29-31, 2014.
9. ASM Virtual workshop on “*Art of Science Communication*” held at Department of Biotechnology, Goa University, Goa on 6<sup>th</sup> December 2013.
10. *Intellectual Property Rights for Public R&D Labs* held at CSIR-National Institute of Oceanography, Goa on March 12-13, 2007.

#### Presentations at Symposia and Conferences

##### National

1. Presented 6 posters at National Seminar on Biopolymers and Biosensors....What’s new, What’s next? Organized by PES’s Ravi S. Naik College of Arts & Science, Ponda, Goa on 25<sup>th</sup> February 2017.

- i. ***“Temporal variation in the abundance and diversity of thraustochytrid protists associated with seaweeds from Anjuna Beach, Goa”*** by Estha T. Fernandes, V. S. Damare\*
  - ii. ***“Production and partial characterization of L-Asparaginase for its novel application as plant growth promoter”*** by Kiran G. Kajawadekar, V. S. Damare\*
  - iii. ***“Dye decolorization by mangrove-derived fungi from Goa”*** by Rachel V. Andrade, V. S. Damare\*
  - iv. ***“Temporal variation in diversity of pelagic free-living and fish associated bacteria from Zuari estuary”*** by Saisha Naik, V. S. Damare\*
  - v. ***“Distribution of human pathogenic bacteria in the waters of, and those associated with fishes from the Zuari estuary”*** by Vilasini M. Shet, V. S. Damare\*
  - vi. ***“Bioluminescent bacteria: the effective biosensors”*** by Sarina Da Costa, V. S. Damare\*
2. Presented a paper (ORAL) titled ***“Thraustochytrids, the Stramenopilan fungi, associated with algae/seaweeds from the coastal waters of Goa”*** at National Conference on Emerging Trends in Fungal Biology and Plant Protection (ETFPP-2016) and 42<sup>nd</sup> Annual Meeting of Mycological Society of India at Banaras Hindu University, Varanasi during 16-18<sup>th</sup> February 2016.
  3. Presented a paper (POSTER) titled ***“Azo-dye decolorization potential of fungi isolated from mangroves in Goa and its comparison to bacterial isolates from the same habitat”*** at National Conference on Emerging Trends in Fungal Biology and Plant Protection (ETFPP-2016) and 42<sup>nd</sup> Annual Meeting of Mycological Society of India at Banaras Hindu University, Varanasi during 16-18<sup>th</sup> February 2016.
  4. Participated in National Workshop entitled **“Recent Advances in Cell Biology and Molecular Biology”** organized by S. P. College, Pune on 5-6<sup>th</sup> February 2016.
  5. Presented a paper (ORAL) titled ***“Growth of thraustochytrids, the stramenopilan fungi, under low oxygen conditions”*** at National Symposium on Mycological research-Emerging Trends, Applications and Prospects and 41<sup>st</sup> Annual Meeting of Mycological Society of India at the Department of Botany, Punjabi University, Patiala during February 23-24, 2015.
  6. Presented a paper (ORAL) titled ***“Effect of heavy metals on morphology of thraustochytrids isolated from brown alga, Sargassum cinereum”*** at National Conference on Fungal Diversity and Biotechnology for Food and Chemicals (FDBFC) and 40<sup>th</sup> Annual Meeting of Mycological Society of India at the Centre for Advanced Studies in Marine Biology, Annamalai University, Parangipettai during 27-28<sup>th</sup> February 2014.
  7. Participated in the American Society for Microbiology (ASM) Virtual Workshop on **“Art of Science Communication”** on 6<sup>th</sup> December 2013 at Department of Biotechnology, Goa University, Goa.
  8. Presented a paper (ORAL) titled ***“Occurrence and adaptations of stramenopilan fungi, the thraustochytrids in the salt pans of Ribandar, Goa.”*** at National Seminar on Current Perspectives of Fungi in Health Care and Environment (KAVAASTHA) and 39<sup>th</sup> Annual

Meeting of Mycological Society of India at Bangalore University, Bangalore, Karnataka during 13-14<sup>th</sup> March 2013.

9. Presented a paper (ORAL) titled “*Isolation of thraustochytrids, the stramenopilan fungi, from the zooplankton of coastal waters of Goa and molecular and physiological differentiation amongst the isolates.*” at National Conference on Mycodiversity with its Sustainable Exploration and Biotechnological Applications and 38<sup>th</sup> Annual Meeting of Mycological Society of India at Shri Shivaji Science College, Amravati, Maharashtra during 6-7<sup>th</sup> February 2012.
10. Attended symposium on Applications of Flow Cytometry in Marine Biology held at CSIR-National Institute of Oceanography, Goa on April 8, 2010.
11. Presented a poster titled “*Diversity of yeasts from equatorial Indian Ocean waters*” in the National Seminar on Fungal Biodiversity & Bioprospecting in the Age of Global Warming at Goa University, Goa, 29-30 Oct. 2009.
12. Presented a paper (ORAL) titled “*Marine Thraustochytrids as Potential Sources of Docosahexanoic Acid*” at National Seminar on Recent Advances in Discovery and Use of Bioactive Molecules organized by St. Xaviers College, Goa in March 2008 and the abstract published in the same.
13. Presented a paper (ORAL) titled “*Biotechnological Potential of Labyrinthulomycetes* ” at National Seminar on New Trends in Biotechnology organized by Dhempe College, Goa in Jan. 2007 and the abstract published in the same.
14. Presented a paper (ORAL) titled “*Morphological and Physiological studies of the marine Straminipilan Fungi, the Aplanochytrids from the equatorial Indian Ocean*” at National Seminar on Recent Trends in Mycological Research (TREMRES) at 33<sup>rd</sup> Annual Meeting of Mycological Society of India at J. J. College of Arts and Science, Pudukkottai, Tamilnadu in Dec. 2006.
15. Presented a poster titled “*Occurrence of the Stramenopilan Fungi, Thraustochytrids and Aplanochytrids, in the Equatorial Indian Ocean*” in the National Seminar on Recent Advances in Mycology held at Mangalore University, Dec. 2-3, 2004.

### **International**

1. Presented a paper (ORAL) titled “*Spatiotemporal variation in abundance of human pathogenic bacteria in waters and fishes of monsoonal estuary*” by V. S. Damare\*, V. M. Shet, S. Naik and R. Barve at ECSA 57 Changing estuaries, coasts and shelf systems, Diverse threats and opportunities, organized by Elsevier held at Perth, WA, Australia during 3-6<sup>th</sup> September 2018.
2. Presented a paper (ORAL) titled “*Survival and growth of thraustochytrids under low oxygen conditions: a proteomic approach*” at Asian Mycology Congress 2015 held at Goa, India during 7-10<sup>th</sup> October 2015.
3. Presented a paper (ORAL) titled “*Growth of the stramenopilan fungi, thraustochytrids, under low oxygen conditions*” at Asian Mycology Congress 2013 and 13<sup>th</sup> International

Marine and Fresh water Mycology Symposium held at Beijing, China during 19-23<sup>rd</sup> August 2013.

4. Presented a poster titled “*Thraustochytrids, as potential source of enzymes*” in the ASEAN- India Marine Biotechnology workshop at CSIR-National Institute of Oceanography, Goa, 19-21 Mar. 2013.
5. Attended MIMAS symposium Microbial Interactions in Marine Systems held at Greifswald, Germany on 6-8<sup>th</sup> July 2011.
6. Presented a paper (ORAL) titled “*Relationship of Thraustochytrids with Bacteria and Transparent Exopolymeric Particles in Water Column*” at Asian Mycology Congress 2007 and X<sup>th</sup> International Marine and Fresh water Mycology Symposium held at Penang, Malaysia in Dec. 2007 and the abstract published in the same.
7. Presented a paper (ORAL) titled “*Association of Labyrinthulomycetes with bacteria and TEPs in equatorial Indian Ocean*” at the 7<sup>th</sup> Asia Pacific Marine Biotechnology Conference at Cochin, India, Nov. 2 – 5, 2006.
8. Presented a poster titled “*Occurrence of the Stramenopilan Fungi, Thraustochytrids and Aplanochytrids, in the Equatorial Indian Ocean*” in the Conference on Microbiology of the Tropical Seas (COMITS) held at CSIR-National Institute of Oceanography, Goa during Dec.13-15, 2004.

### **Memberships**

- Life member of Mycological Society of India.
- Annual member of American Society for Microbiology for the year 2014.

### **Reviewer in Journals**

- Botanica Marina
- Philippine Agricultural Scientist
- Phycological Research
- ICES Journal of Marine Science

The information furnished above is true to the best of my knowledge.

**Varada S. Damare**