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Google Scholar: <https://scholar.google.com/citations?user=kpXveeUAAAAJ&hl=en>

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Research Gate: <https://www.researchgate.net/profile/Pradeep-Ram-Angia-Sriram>

SciProfiles: <https://sciprofiles.com/profile/angia-pradeep>

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EDUCATION

- ❖ **2021** : Habilitation (HDR), Microbial Ecology, Université Clermont Auvergne (France)
- ❖ **2003** : Doctorate (Ph.D.), Marine Science, Goa University (India)
- ❖ **1996** : Masters (M.Sc.), Coastal Aquaculture, Annamalai University (India)
- ❖ **1994** : Bachelors (B.Sc.), Zoology, University of Madras (India)

PROFESSIONAL POSITIONS

- **Since 2010** : Research Scientist (CNRS), Université Clermont Auvergne, Aubière, France
- **2008 – 2010** : CNRS Research Associate, Université Blaise Pascal, Aubière, France
- **2007 – 2008** : Postdoctoral Researcher (MESRI), Université Blaise Pascal, Aubière, France
- **2004 – 2007** : JSPS Postdoctoral Fellow, Kyoto University, Otsu, Japan
- **2003 – 2004** : Postdoctoral Fellow (MENJS), Université Blaise Pascal, Aubière, France
- **2002 – 2003** : POGO-IOC-SCOR Fellow, Institute of Ecosystem Studies, New York, USA
- **2000 – 2003** : CSIR-Senior Research Fellow, National Institute of Oceanography, Goa, India
- **1997 – 2000** : Project Associate (Indo-US), National Institute of Oceanography, Goa, India

AREA OF COMPETENCE

Broadly, my area of research and competence has been in the field of ***Microbial Ecology of Marine and Freshwater Systems*** with prime focus on the aspects linking viruses to microbial physiology, metabolisms and diversity, and relate it to ecosystem functioning. My subject of interest under the research team BioADAPT (Microbial diversity and functional adaptations) at LMGE falls into the following topics:

- Limnology and microbial oceanography
- Aquatic microbial food-web dynamics, microbial transfer of organic carbon
- Phage life cycles (lytic and lysogeny) and infection strategies, virus-mediated processes
- Top-down and bottom-up effects on bacterial dynamics and community structure
- Phage-bacteria interactions in tropical marine (Indian Ocean) and temperate freshwater systems (French Massif Central lakes and mineral springs)
- Bacteria-protozoa-virus interactions
- Freshwater virobenthos
- Metabolomics approach to study intracellular metabolites in prokaryote cells with different physiological state

Keywords: aquatic microbial ecology; viruses, bacteria; viral lytic infection; lysogeny; microbial dynamics, bacteria-virus interaction; viral shunt, microbial food webs, laboratory microcosms

RESEARCH PROJECT ACTIVITIES

- ❖ **Memorandum of Understanding (MoU):** Collaborative research signed with Cochin University of Science and Technology (CUSAT), Kochi (India) to study “Viral communities and their interactions with host populations in the tropical southeast Arabian Sea region (India)”.
Funding agency: Jointly by CNRS and CUSAT
Principal investigators: Pradeep Ram AS and Parvathi A (CUSAT, India)
Period: 2022-2027
- ❖ **VIMORG:** Imprint of wild viruses in mineral source ecosystems characterised by naturally occurring radioactivity gradient
Funding agency: Zone Atelier Territoires Uranifères (ZATU) AAP (Blanc)
Coordinator: Pradeep Ram AS
Period: 2021-2022
- ❖ **TIRAMISU:** Biodiversity in mineral sources with naturally enhanced levels of radioactivity
Funding agency: CNRS and INSU (EC2CO program)
Coordinator: Biron D (LMGE CNRS 6023), Beauger A (GEOLAB CNRS 6042)
Period: 2019-2023.
- ❖ **Memorandum of Understanding (MoU):** Joint research program signed with National Institute of Oceanography, Goa (India) to study ‘Viral Ecology of Tropical Indian Ocean’.
Funding agency: Council of Scientific and Industrial Research, New Delhi, India
Principal investigators: Pradeep Ram AS and Parvathi A (NIO, India)
Period: 2015-2020

- ❖ **COLOMBE:** Colonisation d'un écosystème aquatique artificiel: rôle de la matière organique et l'état trophique comme facteurs structurants de la diversité structurale et fonctionnelle des communautés microbienne aquatiques
 Funding agency: CNRS and INSU (EC2CO program)
 Coordinator: Emma R-N (iEES-Paris, UMR 7618)
 Period: 2015-2016
- ❖ **CARPEDYEM:** Impact of black carbon on the pelagic microbial ecosystem and environment in Halong Bay (Vietnam)
 Funding agency: PHC Hoa Sen-Lotus (Franco-Vietnamien program)
 Coordinators: Thuoc CV (IMER, Vietnam), Mari X (IRD, France)
 Period: 2012-2013
- ❖ **DICENTIM:** Viral diversity and role of viruses in controlling Archean communities involved in the biogeochemical cycling of methane in the ancient sediments of Lake Pavin
 Funding agency: CNRS and INSU (EC2CO program)
 Coordinator: Anne-Catherine L (LMGE UMR 6023)
 Period: 2012-2013
- ❖ Viral dynamics in Lake Bourget, Annecy and Geneva (France)
 Funding Agency: CPER (Region Rhone-Alpes) and ANR AQUAPHAGE
 Coordinators: Pradeep Ram AS and Jacquet S (INRA CARRTEL)
 Period: 2011-2012
- ❖ **AQUAPHAGE:** Relationships between prokaryotic and viral diversity within different aquatic environments
 Funding agency: Agence Nationale pour la Recherche (ANR Biodiversité program)
 Coordinator: Weinbauer M (UMR 7093)
 Period: 2007-2010
- ❖ **SERFEA:** Ecological stoichiometry, food-webs and functioning of aquatic systems
 Funding agency: PNBC (ACI-ECCO program)
 Coordinator: Lacroix G (BIOEMCO, UMR 7618)
 Period: 2004-2007
- ❖ **SUV:** Search for an alternative to Uranyl acetate for enumerating viral infected prokaryote cells in aquatic systems
 Funding agency: 21st Century COE Program of Kyoto University (A14), Japan
 Coordinators: Pradeep Ram AS & Nagasaki K (Fisheries Research Agency, Hiroshima)
 Period: 2006
- ❖ **GAME:** Ecological determinants of growth efficiency of aquatic microbial communities
 Funding agency: Japan Society for the Promotion of Science (JSPS), Tokyo
 Coordinators: Pradeep Ram AS & Nagata T (Kyoto University)
 Period: 2004-2006
- ❖ **VIRULAC:** Dynamics and role of the viruses in the functioning of lake ecosystems in Massif Central, France
 Funding agency: CNRS and INSU (EC2CO program)
 Coordinator: Sime-Ngando T (LBP, UMR 6023)
 Period: 2004-2005.
- ❖ **UVTEMP:** Effects of climate change on marine pelagic food webs
 Funding agency: PNEC/EC2CO program

Coordinator: Vidussi F (MARBEC, UMR 5119)
Period: 2004 – 2005

- ❖ **TROPHIC DYNAMICS:** Microbial production rate on particles
Funding agency: Office of Naval Research (ONR), USA
Coordinator: Chandramohan D (NIO-CSIR, India)
Period: 1997-2000.

PUBLICATIONS

1. **Pradeep Ram AS** & Sime-Ngando T (2023) Differential effects of viruses on the growth efficiency of freshwater bacterioplankton in eutrophic relative to non-eutrophic lakes. **Microorganisms** **11(2)**: 384.
2. Baker L-A, Biron DG, Beauger A, Kolovi S, Colombet J, Allain E, Voldoire O, Breton V, Chardon P, Sime-Ngando T, David K, Montavon G, Michel H & **Pradeep Ram AS** (2023). Virus-to-prokaryote ratio in spring waters along a gradient of natural radioactivity. **Hydrobiologia** (published online: doi: [10.1007/s10750-023-05146-1](https://doi.org/10.1007/s10750-023-05146-1)).
3. **Pradeep Ram AS**, Mauduit M-E, Colombet J, Perriere F, Thouvenot A & Sime-Ngando T (2022). Top-down controls of bacterial metabolism: A case study from a temperate freshwater lake ecosystem. **Microorganisms** **10(4)**: 715.
4. Shruthi PK, Parvathi A, **Pradeep Ram AS**, Hafza S, Albin JK, Vignesh E, Abdul J, Sime-Ngando T (2022). Contrasting impact of viral activity on prokaryotic populations in the coastal and offshore regions of the Eastern Arabian Sea. **Diversity** **14(3)**: 230.
5. Aparna S, Parvathi A, Jasna V, **Pradeep Ram AS** & Sime-Ngando T (2021). Seasonal variations in viral distribution, dynamics and viral mediated host mortality in the Arabian Sea. **Marine Biology** **168**: 21.
6. **Pradeep Ram AS**, Keshri J & Sime-Ngando T (2020) Differential impact of top-down and bottom-up forces in structuring freshwater bacterial communities. **FEMS Microbiology Ecology** **96(2)**: fiaa005.
7. Colombet J, Billard H, Viguès B, Balor S, Boulé C, Geay L, Benzerara K, Menguy N, Ilango G, Fuster M, Enault F, Bardot C, Gautier V, **Pradeep Ram AS** & Sime-Ngando T (2019) Discovery of high abundances of aster-like nanoparticles in pelagic environments: characterization and dynamics. **Frontiers in Microbiology** **10**: 2376.
8. **Pradeep Ram AS**, Keshri J & Sime-Ngando T (2019) Distribution patterns of bacterial communities and their potential link to variable viral lysis in temperate freshwater reservoirs. **Aquatic Sciences** **81(4)**: 72.
9. Ammini P, Sreekumar A, **Pradeep Ram AS** & Sime-Ngando T (2019) Genome analysis of Marinobacter phage AS1 suggests its close interactions with host *Marinobacter* sp. **Aquatic Microbial Ecology** **83(2)**: 119-129.

10. Mari X, Guinot B, Van TC, Brune J, Lefebvre J-P, **Pradeep Ram AS**, Raimbault P, Dittmar T & Niggemann J (2019) Biogeochemical impacts of a black carbon wet deposition event in Halong Bay, Vietnam. **Frontiers in Marine Science** **6**: 185.
11. Parvathi A, Jasna V, Aparna S, **Pradeep Ram AS**, Aswathy VK, KK Balachandran, Muraleedharan KR, Dayana M & Sime-Ngando T (2018) High incidence of lysogeny in the oxygen minimum zones of the Arabian Sea (Southwest Coast of India). **Viruses** **10**(11): 588.
12. Keshri J, **Pradeep Ram AS**, Nana PA & Sime-Ngando T (2018) Taxonomical resolution and distribution of bacterioplankton along the vertical gradient reveals pronounced spatio-temporal patterns in contrasted temperate freshwater lakes. **Microbial Ecology** **76**(2): 372-386.
13. Keshri J, **Pradeep Ram AS** & Sime-Ngando T (2018) Distinctive patterns in the taxonomical resolution of bacterioplankton in sediment and pore waters of contrasted freshwater lakes. **Microbial Ecology** **75**(3): 662-673.
14. Jasna V, **Pradeep Ram AS**, Parvathi A & Sime-Ngando T (2018) Differential impact of lytic viruses on prokaryotic morphopopulations in a tropical estuarine system (Cochin estuary, India). **PLoS ONE** **13**(3): e0194020.
15. **Pradeep Ram AS**, Mari X, Brune J, Torréton JP, Chu VT, Raimbault P, Niggemann J & Sime-Ngando T (2018). Bacterial-viral interactions in the sea surface microlayer of a black carbon-dominated tropical coastal ecosystem (Halong Bay, Vietnam). **Elementa: Science of the Anthropocene** **6**(1): 13.
16. Keshri J, **Pradeep Ram AS**, Colombet J, Perriere F, Thouvenot A & Sime-Ngando T (2017). Differential impact of lytic viruses on the taxonomical resolution of freshwater bacterioplankton community structure. **Water Research** **124**: 129-138.
17. Vijayan J, Ammini P, **Pradeep Ram AS**, Balachandran KK, Madhu NV, Nair M, Jyothibabu R, Jayalakshmy KV, Revichandran C & Sime-Ngando T (2017). Viral-induced mortality of prokaryotes in a tropical monsoonal estuary. **Frontiers in Microbiology** **8**: 895.
18. **Pradeep Ram AS**, Chaibi-Slouma S, Keshri J, Colombet J & Sime-Ngando T (2016). Functional responses of bacterioplankton diversity and metabolism to experimental bottom-up and top-down forcings. **Microbial Ecology** **72**(2): 347-358.
19. **Pradeep Ram AS**, Colombet J, Perriere F, Thouvenot A & Sime-Ngando T (2016). Viral regulation of prokaryotic carbon metabolism in a hypereutrophic freshwater reservoir ecosystem (Villerest, France). **Frontiers in Microbiology** **7**: 81.
20. **Pradeep Ram AS**, Colombet J, Perriere F, Thouvenot A & Sime-Ngando T (2015). Viral and grazer regulation of prokaryotic growth efficiency in temperate freshwater pelagic environments. **FEMS Microbiology Ecology** **91**(2): 1-12.
21. Palesse S, Colombet J, **Pradeep Ram AS** & Sime-Ngando T (2014) Linking host prokaryotic physiology to viral lifestyle dynamics in a temperate freshwater lake (Lake Pavin, France). **Microbial Ecology** **68**(4): 740-750.

22. **Pradeep Ram AS** & Sime-Ngando T (2014) Distinctive patterns in prokaryotic community composition in response to viral lysis and flagellate grazing in freshwater microcosms. **Freshwater Biology** 59(9): 1945-1955.
23. Parvathi A, Zhong X, **Pradeep Ram AS** & Jacquet S (2014) Dynamics of auto- and heterotrophic picoplankton and associated viruses in Lake Geneva. **Hydrology and Earth System Sciences** 18(3): 1073-1087.
24. Zhong X, **Pradeep Ram AS**, Colombet J & Jacquet S (2014) Variation in abundance, genome size, morphology and functional role of the viroplankton in Lakes Annecy and Bourget over a 1-year period. **Microbial Ecology** 67(1): 66-82.
25. **Pradeep Ram AS**, Palesse S, Colombet J, Thouvenot A & Sime-Ngando T (2014) The relative importance of viral lysis and nanoflagellate grazing for prokaryote mortality in temperate lakes. **Freshwater Biology** 59(2): 300-311.
26. **Pradeep Ram AS**, Palesse S, Colombet J, Sabart M, Perriere F & Sime-Ngando T (2013) Variable viral and grazer control of prokaryotic growth efficiency in temperate freshwater lakes (French Massif Central). **Microbial Ecology** 66(4): 906-916.
27. Jacquet S, Zhong X, Ammini P & **Pradeep Ram AS** (2013) First description of a cyanophage infecting the cyanobacterium *Arthrosphaera platensis* (Spirulina). **Journal of Applied Phycology** 25(1): 195-203.
28. **Pradeep Ram AS**, Rasconi S, Jobard M, Palesse S, Colombet J & Sime-Ngando T (2011) High lytic infection rates but low abundances of prokaryotic viruses in a humic lake (Vassivière, Massif Central, France). **Applied and Environmental Microbiology** 77(16): 5610-5618.
29. **Pradeep Ram AS**, Arnous B, Danger M, Carrias J-F, Lacroix G & Sime-Ngando T (2010) High and differential viral infection rates within bacterial morphopopulations in a shallow sand pit lake (Lac de Crèteil - France). **FEMS Microbiology Ecology** 74(1): 83-92.
30. **Pradeep Ram AS** & Sime-Ngando T (2010) Resources drive trade-off between viral lifestyles in the plankton: evidence from freshwater microbial microcosms. **Environmental Microbiology** 12(2): 467-479.
31. **Pradeep Ram AS**, Nishimura Y, Tomaru Y, Nagasaki K & Nagata T (2010) Seasonal variation in viral induced-mortality of bacterioplankton in the water column of a large mesotrophic lake (Lake Biwa, Japan). **Aquatic Microbial Ecology** 58(3): 249-259.
32. **Pradeep Ram AS**, Sabart M, Latour D & Sime-Ngando T (2009). Low effect of viruses on bacteria in deep anoxic waters and sediments of a productive freshwater reservoir (Lake Grangent, France). **Aquatic Microbial Ecology** 55(3): 255-265.
33. **Pradeep Ram AS** & Sime-Ngando T (2008) Functional responses of prokaryotes and viruses to grazer effects and nutrient additions in freshwater microcosms. **The ISME Journal** 2(5): 498-509.

34. **Pradeep Ram AS**, Nagata T, Tomaru Y & Nagasaki K (2007) Tungstate compounds as an alternative to uranyl acetate for enumerating viral infected prokaryote cells in aquatic systems. **Aquatic Microbial Ecology** 47(2): 209-212.
35. **Pradeep Ram AS**, Nair S & Chandramohan D (2007) Bacterial growth efficiency: Seasonal variability subsidized by allochthonous carbon. **Microbial Ecology** 53(4): 591-599.
36. Sime-Ngando T & **Pradeep Ram AS** (2005) Grazer effects on prokaryotes and viruses in a freshwater microcosm experiment. **Aquatic Microbial Ecology** 41(2): 115-124.
37. **Pradeep Ram AS**, Boucher D, Sime-Ngando T, Debroas D & Romagoux JC (2005) Phage bacteriolysis, protistan bacterivory potential, and bacterial production in a freshwater reservoir: coupling with temperature. **Microbial Ecology** 50(1): 64-72.
38. Jacquet S, Domaizon I, Personnic S, **Pradeep Ram AS**, Heldal M, Duhamel S & Sime-Ngando T (2005) Estimates of protozoan- and virus-mediated mortality of bacterioplankton in Lake Bourget (France). **Freshwater Biology** 50(4): 627-645.
39. **Pradeep Ram AS**, Nair S & Chandramohan D (2003) Seasonal shift in net ecosystem production in a tropical estuary. **Limnology and Oceanography** 48(4): 1601-1607.
40. **Pradeep Ram AS**, Nair S & Chandramohan D (2003) Growth efficiency of bacterioplankton in the tropical estuarine and coastal waters of Goa, southwest coast of India. **Microbial Ecology** 45(1): 88-96.
41. **Pradeep Ram AS**, Loka Bharathi PA, Nair S & Chandramohan D (2001) A deep-sea bacterium with unique nitrifying property. **Current Science** 80(9): 1222-1224.
42. **Pradeep Ram AS** & Balasubramanian T (2000) Bacterial flora associated with a commercial shrimp feed. **Fishing Chimes** 20(5): 26-28.

BOOK CHAPTERS & REPORTS

Colombet J et al. (2023) Découverte d'une entité femtoplanctonique originale. In: Blanc S, Bouzeghoub M & Knoop (eds.), L'Interdisciplinarité : Voyages au-delà des disciplines, Chapter 5, pp. 198-203, CNRS editions, Paris, France

Sime-Ngando T, Bettarel Y, Colombet J, Palesse S, **Pradeep Ram AS**, Charpin M & Amblard C (2016) Lake Pavin: A pioneer site for ecological studies of freshwater viruses. In: Sime-Ngando T, Boivin P, Chapron E, Jezequel D & Meybeck M (Eds.), **Lake Pavin, Chapter 14, pp. 229-244**, Springer International Publishing, Switzerland.

Loka Bharathi PA, **Pradeep Ram AS**, Nair S, Nath BN & Chandramohan D (2004). Distribution of baroduric, psychrotrophic, culturable nitrifying and denitrifying bacteria in the Central Indian Basin. In: Abidi SAH, Ravindran M, Venkatesan R & Vijayakumaran M (eds.), Proceedings of the National Seminar on New Frontiers in Marine Bioscience Research, pp 319-330, Allied Publishers, New Delhi, India

Pradeep Ram AS, Loka Bharathi PA, Nair S & Chandramohan D (2001) Bacteria blamed for high nitrate level. **Nature News India, October, pp. 11.**

CONFERENCES, WORKSHOPS AND MEETINGS

1. **Pradeep Ram AS** & Sime-Ngando T. Top-down effects on bacterial carbon metabolism: A case study from lakes of French Massif Central. MICROBES: 17th SFM National Conference, Montpellier, France (3 – 5 October 2022).
2. Baker LA, Biron D, Voldaire O, Allain E, Floquet C, kolovi S, Breton V, Chardon P, Colombet C, Ejarque A, Defive E, Donnadieu, **Pradeep Ram AS**, Beauger A. Diachronic study of the impact of uranium mining on the diversity of diatom communities in a former uranium mine (Rophin, France). 40th Colloquium of the ADLaF, Clermont Ferrand, France (13-15 September, 2022).
3. Scientific conference on Ecology, Environment and Biodiversity: Science and water in Auvergne, Clermont Ferrand, France (3 June 2022).
4. **Pradeep Ram AS**, Keshri J & Sime-Ngando T. Vertical stratification yielded distinct bacterial communities in two contrasting freshwater lakes. Joint Aquatic Sciences Meeting (JASM), Michigan, USA (14 – 20 May 2022).
5. **Pradeep Ram AS** & Sime-Ngando T. Viral lysis impact prokaryotic growth efficiency: evidence from a freshwater reservoir system (Villerest, France). MICROBES: 15th SFM National Conference, Paris, France (30 September – 2 October 2019).
6. Scientific conference on Dimensions of Biodiversity: Scientific Research to Further the Goals of IPBES, CNRS-Paris, France (25 – 26 April 2019)
7. **Pradeep Ram AS**, Colombet J, Thouvenot & Sime-Ngando T. Top-down control of prokaryotic population in temperate freshwater systems (French Massif Central). International Conference on Ecological Sciences, Rennes, France (22 – 25 October 2018).
8. Parvathi A, Jasna V, **Pradeep Ram AS**, & Sime-Ngando T. Ecology, distribution and diversity of viruses in a tropical monsoonal estuary (Cochin estuary) in India. EMBO Conference: Viruses of Microbes, Wroclaw, Poland (09 – 13 July 2018).
9. **Pradeep Ram AS**, Chaibi-Slouma S, Keshri J, & Sime Ngando T. Top-down and bottom-up effects on bacterioplankton diversity and metabolism: evidence from freshwater microcosms. Euroscion Conference on Microbiology and Virology, Paris, France (21 - 22 June 2018).
10. **Pradeep Ram AS**, Colombet J, Thouvenot & Sime Ngando T. Top-down regulation of prokaryotic growth efficiency in temperate freshwater pelagic environments. 7th FEMS Microbiology Congress, Valencia, Spain (9 – 13 July 2017).
11. **Pradeep Ram AS**, Colombet J, Perriere F, Thouvenot & Sime Ngando T. Viral lysis impacts prokaryotic carbon metabolism: evidence from temperate freshwater pelagic environments.

14^{ème} Rencontre des Microbiologistes du Pôle Clermontois, Clermont Ferrand, France (11 April 2017).

12. Parvathi A, Jasna V, Aparna S, Aswathy VK, Muraleedharan KR, Gireesh Kumar TR, **Pradeep Ram AS** & Sime-Ngando T. Viral ecology in the Arabian Sea oxygen minimum zone. International Symposium on Microbial Responses to Ocean Deoxygenation, Goa, India (2 – 5 December 2016).
13. Palesse S, Colombet J, Jousse C, Pradeep **Ram AS** & Sime-Ngando T. Prokaryote physiology transitions are decisive for viral lifestyles: metabolomics evidence from freshwater microcosms. EMBO Conference: Viruses of Microbes, Liverpool, United Kingdom (18 – 22 July 2016).
14. Palesse S, **Pradeep Ram AS**, Colombet J & Sime-Ngando T. Host prokaryote physiology regulates viral life strategies: evidence from a temperate freshwater lake (Lake Pavin, France). ASLO Aquatic Sciences Meeting, Granada, Spain (22 – 27 February 2015).
15. Palesse S, Colombet J, **Pradeep Ram AS** & Sime-Ngando T. Spatial shifts in seasonal lytic and lysogenic lifestyles in freshwater viruses. 13th Symposium on Aquatic Microbial Ecology (SAME), Stresa, Italy (8 – 13 September 2013).
16. Jacquet S, Parvathi S, Zhong X & **Pradeep Ram AS**. Dynamics of auto and heterotrophic picoplankton and associated viruses in Lake Geneva. 13th Symposium on Aquatic Microbial Ecology (SAME), Stresa, Italy (8 – 13 September 2013).
17. Robin A, Colombet J, Latour D, Mallet C, Mission B, **Pradeep Ram AS** & Sime-Ngando T. Quantitative and functional importance of viruses in the lake sediments. 4^{ème} Colloque de l'Association Francophone d'Ecologie Microbienne, Lyon, France (30 August – 2 September 2009).
18. **Pradeep Ram AS** & Sime-Ngando T. Ecological synergy among grazer, prokaryotic and viral activities: implications from freshwater microcosms. Conference on the interaction between physico-chemical and microbiological processes in aquatic systems, Aubière, France (22 – 24 October 2008).
19. Sime-Ngando T & **Pradeep Ram AS**. Ecological interactions among viruses, prokaryotes and grazers: a freshwater multimicrocosm experiment. Genomics and Ecology of Aquatic Viruses, Banyuls-sur-Mer, France (11 – 13 February 2008).
20. Sime-Ngando T, Jacquet S, Domaizon I, Colombet J, Personnic S, Robin A, **Pradeep Ram AS**, Bettarel Y & Dorigo U. VIRULAC – Dynamics and role of viruses in the functioning of lake ecosystems. Colloque de Restitution de Programme Coordonné ANR-ECO, Toulouse, France (3 – 5 December 2007).
21. **Pradeep Ram AS** & Sime-Ngando T. SCOR WG126: Practical workshop on methods in marine virus ecology, Bergen, Norway (6 – 12 May 2007).

22. **Pradeep Ram AS**, Nishimura Y & Nagata T. Grow or Respire? Possible factors that affect the growth efficiency of bacteria in a large lake. Eleventh International Symposium on Microbial Ecology (ISME-11), Vienna, Austria (20 – 25 August 2006).
23. **Pradeep Ram AS** & Sime-Ngando T. Virus versus flagellate control of bacterioplankton community. Second Hakone International Workshop on Aquatic Microbial Ecology, Hakone, Japan (18 – 20 November 2005).
24. **Pradeep Ram AS**, Boucher D, Sime-Ngando T, Debroas D & Romagoux JC. Viral and bacterioplankton dynamics in an oligomesotrophic aquatic system: coupling with temperature. Dynamics of the Ocean Biosystem (DOBIS) International Symposium, Tokyo, Japan (15 – 18 November 2005).
25. Sime-Ngando T, **Pradeep Ram AS**, Boucher D, Debroas D & Romagoux JC. Seasonal phage bacteriolysis equals protistan bacterivory in a freshwater reservoir: coupling with the physical environment. First European Workshop on Aquatic Phage Ecology (EWAPE 1), Thonon-les-Bains, France (2– 4 February 2005).
26. **Pradeep Ram AS**, Nair S & Chandramohan D. Seasonal variability in the carbon flow in a tropical estuarine system: phytoplankton versus bacterial production. Conference on Microbiology of the Tropical Seas (COMITS), National Institute of Oceanography, Goa, India (13 –15 December 2004).
27. Sime-Ngando T, **Pradeep Ram AS**, Boucher D, Debroas D & Romagoux JC. Viral lysis, protistan bacterivory and bacterial production in the Sep Reservoir: coupling with the physical environment. Workshop on Freshwater Microbial Ecology: Comparison of methods for measuring activity and interactions, Pallanza, Italy (6 – 8 October 2004).
28. Sime-Ngando T, Bettarel Y, **Pradeep Ram AS**, Chartogne C & Němcová M. Quantitative and functional importance of viruses in aquatic ecosystems. 1^{ère} Rencontre des Microbiologistes du Pôle Clermontois, Clermont Ferrand, France (31 March 2004).
29. Jacquet S, Bettarel Y, Sime-Ngando, **Pradeep Ram AS**, Boucher D, Jardillier L, Debroas D, Domaizon I, Personnic S, Dorigo U & Duhamel S. Quantification, diversity and functional role of bacteriophages in freshwater ecosystems: Generalities and case studies in France. Sixth Annual Conference in Functional Ecology, Rennes, France (10 – 12 March 2004).
30. Loka Bharathi PA, **Pradeep Ram AS**, Nair S, Nath BN & Chandramohan D. Distribution of baroduric, psychrotrophic, culturable nitrifying and denitrifying bacteria in the Central Indian Basin. National Seminar on New Frontiers in Marine Bioscience Research, Chennai (Madras), India (22 – 23 January 2004).
31. **Pradeep Ram AS**, Nair S & Chandramohan D. Bacterial mediated carbon flux and net ecosystem production measurements in a tropical estuarine complex, Goa, India. Fourth Asia-Pacific Marine Biotechnology Conference (APMBC '02), University of Hawaii at Manoa, Honolulu, Hawaii, USA (22 – 26 April 2002).

32. **Pradeep Ram AS**, Nair S & Chandramohan D. Studies on the growth efficiency of bacterioplankton and the factors responsible for its variability in a tropical estuarine complex. Ninth International Symposium on Microbial Ecology (ISME-9), Amsterdam, The Netherlands (26 – 31 August 2001).

EDITORIAL ACTIVITIES

- ❖ **Review editor:** Frontiers in Microbiology (Frontiers Media).
- ❖ **Editorial board:** Aquatic Ecology (Springer)
- ❖ **Guest Editor for Special issue** “Ecology of microbes in marine and estuarine systems” (2022-2023): Diversity (MDPI)

Referee for peer reviewed journals

Water Research, Scientific Reports, Science of the Total Environment, Frontiers in Marine Science, Journal of Geophysical Research: Oceans, Biology, PLoS ONE, Microbial Ecology, Aquatic Sciences, Peer J, Toxins, Environmental Microbiology Reports, FEMS Microbiology Ecology, Estuarine Coastal and Shelf Science, Journal of Plankton Research, Viruses, Microorganisms, Diversity, Vaccines, Minerals, Marine Pollution Bulletin, Applied Sciences, Sustainability, Water, Genomics, International Journal of Environmental Research and Public Health, Aquatic Microbial Ecology, Fishes, Bioengineering, Marine Ecology Progress Series, Ecohydrology and Hydrobiology, Journal of Marine Science and Engineering, Microbiology Open, Environmental Science and Pollution Research, Entropy, Journal of Oceanography, Journal of Experimental Marine Biology and Ecology, Biology Open, Polar Biology, Environmental Monitoring and Assessment, Aquatic Ecology, Hydrobiologia, Regional Studies in Marine Science, Journal of Oceanology and Limnology, International Journal of Limnology and Journal of Water Sciences.

COMMITTEE APPOINTMENTS

- International jury member to evaluate Master 2 dissertation (Department of Biology, University of Aveiro, Portugal)
- Member of Lake Observation Monitoring program for Lake Pavin and Aydat (Massif Central), France (SOERE OLA) since 2015
- Alumini member of Japan Society for the Promotion of Science (JSPS)
- Member of Association Francophone d'Ecologie Microbienne (AFEM)
- Member of Réseau des Microscopistes du pôle Clermontois (RMPC)
- Committee member for the annual conference *Journée de Besse*, Biological station at Besse et St. Anastaise, France
- Member of organizing committee of *Journées Internationales de Limnologie et d'Océanographie (JILO)*, 17-19 October 2012, Clermont Ferrand (France)

SUPERVISION OF STUDENTS

Lory-Anne BAKER (Doctoral Student, Université Clermont Auvergne, 2019-2023):
Thesis director in co-supervision with Aude BEAUGER

Diatoms and microorganisms as models to study and decipher the transfer of radionuclides in aquatic biotopes

Lisa CROS (DFGSM2, UFR Médecine, Université Clermont Auvergne, 2021):

Co-supervision with David BIRON.

Virus- bacteria interactions in freshwater mineral springs (Auvergne) along a gradient of naturally enhanced radioactivity

Fábio SILVA (M2, Universidade de Aveiro, Portugal, 2021):

Co-supervision with David BIRON

Effects of radioactivity and other variables on aquatic microorganisms: case study in spring waters of Auvergne.

Alain Paul NANA (Postdoctoral Researcher, 2016-2017):

Co-supervision with Télesphore SIME-NGANDO.

Viral-bacterial interactions in a temperate freshwater reservoir ecosystem (Naussac, French Massif Central).

Jitendra KESHRI (Postdoctoral Researcher, 2015-2016):

Co-supervision with Télesphore SIME-NGANDO.

Viral impact on bacterial diversity and community composition in freshwater ecosystems of French Massif Central.

Sabrine CHAIBI SLOUMA (M2, MGEB, Université Blaise Pascal, 2015):

Impact of viruses on bacterial growth efficiency in a community of Lake Aydat.

Stéphanie PALESSE (Doctoral student, Université Blaise Pascal, 2011-2014):

Co-supervision with Télesphore SIME-NGANDO.

Determinism of lysogenic decision in aquatic viral communities: importance of physiological and metabolic fluctuations in prokaryotic hosts.

Elodie PETREMENT (2nd year BTS Biotech., Lycée Jean Monod Orleans, 2013):

Monitor bacterial diversity using Denaturing gradient gel electrophoresis (DGGE) technique in experimental freshwater microcosms.

Tony COBELLINI (1st year BTS Biotech., Lycée Simone Veil, 2013):

Determine the abundance and taxonomic diversity of heterotrophic nanoflagellates in microcosm samples from Lake Pavin.

Elodie PETREMENT (1st year BTS Biotech., Lycée Jean Monod Orleans, 2012):

Develop PCR based technique to detect viral clade FarT4 in lake ecosystems based on the available genetic sequences from Lake Pavin.

Sophie GUILLAUD-SAUMUR (Master 1, MGEB, Université Blaise Pascal, 2011):

Familiarization of various techniques frequently used in aquatic viral ecology