

**RESUME**  
**October 1<sup>st</sup> 2018**



**Télesphore SIME-NGANDO, TSN**

PhD, HDR (Univ. Blaise Pascal, Clermont-Ferrand, France)  
Postal address: UMR CNRS 6023, Microorganisms: Genome & Environment  
Université Blaise Pascal, BP 80026, 63171 Aubière Cedex, France  
[Telesphore.SIME-NGANDO@univ-bpclermont.fr](mailto:Telesphore.SIME-NGANDO@univ-bpclermont.fr)  
Personal page: <http://www.lmge.univ-bpclermont.fr/spip.php?rubrique100>  
Google scholar: [http://scholar.google.fr/citations?user=F\\_JLEBcAAAAJ&hl=fr](http://scholar.google.fr/citations?user=F_JLEBcAAAAJ&hl=fr)  
Research Gate: [http://www.researchgate.net/profile/Telesphore\\_Sime-Ngando](http://www.researchgate.net/profile/Telesphore_Sime-Ngando)  
**ISI Web of Science** : 145 items, h-index 35, Citations 3672.  
**Google Scholar** : Indice-h 43, Indice i10 120, Citations 5745

**Fields of expertise, Key words**

Limnology and biological oceanography, aquatic microbial ecology, microbial dynamics and interactions, microbial loop, microbial food webs, microheterotrophs, protists, fungi, bacteria, viruses – Formerly microbial ecology of annual sea-ice

**Scientific positions**

Director of Research 1<sup>st</sup> Class (Senior Scientist), DR1, CNRS, France (2013—Present)  
Director of Research 2<sup>nd</sup> Class (Senior Scientist), DR2, CNRS, France (2005 - 2013)  
Research Associate 1<sup>st</sup> Class (Chargé de Recherche), CR1, CNRS, France (1997-2005)  
Research Associate 2<sup>nd</sup> Class (Chargé de Recherche), CR2, CNRS, France (1994-1997)  
Research Assistant – Université du Québec à Montréal, Canada (1993-1994)  
PostDoc – Centre Océanographique de Rimouski, Canada (1991-1993)

**Administrative & Other elected or nominated positions**

Head of LMGE - Laboratory *Microorganisms: Genome & Environment* (approximately 100 permanent staff)  
Chargé de Mission DIPEE, CNRS Institute of Ecology and Environment (INEE)  
Member (elected) of the National Committee of Scientific Research, Section 30 (*Continental Surfaces and interfaces*), 2016-present  
Member (elected) of the Interdisciplinary Commission (CID 52 *Environments & Societies: from fundamentals to Operationals*) of the National Committee of Scientific Research, 2016-present  
Head of the Research Team '*Viruses and Microbial Metabolisms in Aquatic Systems*' of LMGE (2010-2014)  
Head Department of Environmental Microbiology of LMGE (2008-2011)  
Staff Member, *The International Ecology Institute*  
Associate Member *SCOR Working Group 126, Roles of Viruses in Marine Ecosystems*  
Member of the Scientific Commission Sector 3 (Sciences of Ecological Systems) of the *French Institute of Research for Development (IRD)* (2012-2015)  
Member Scientific Committee of the *French Research Program EC2CO (MicrobiEn)* (2004 - 2015)  
Member Scientific Committee of the *French Research Program 'Iles Eparses'* (2010-2011)

**Editorial boards**

Editor-In-Chief *Aquatic Ecology* - <https://link.springer.com/journal/10452>  
Invited expert for the call ERC-2016-COG  
Member European Science Foundation College of Expert Reviewers  
Permanent Associate Editor, *Frontiers in Microbiology –Speciality Aquatic Microbial Ecology*  
Guest Associate Editor, *Frontiers in Microbiology –Speciality Aquatic Microbial Ecology*  
Review Editor, *Aquatic Microbial Ecology*  
Editor of the *Fungal Biology Book Series* of Springer, USA  
Deputy Scientific Director, *Journal of Water Sciences (Revue des Sciences de l'Eau)*  
Adviser, *International Foundation for Science (IFS)*  
Peer Reviewer, *European Science Foundation (ESF)*  
Member Review DataBase, *ISME Journal, Environmental Microbiology, Limnology & Oceanography*  
Editorial Board, *Fungal Biology and Biotechnology*  
Editorial Board, *Frontiers in Atmospheric Sciences (FAS)*

Associate Editor, *Journal of Ecology and Natural Environment*  
Editorial Board, *ISRN Ecology*  
Editorial Board, *Conference papers in Microbiology*  
Editorial Board, *Conference papers in Environmental Sciences*  
Editorial Board, *African Journal of Environmental Science and Technology*  
Editorial Advisory Board, *The Open Marine Biology Journal*  
Associate Editor, *Journal of Ecology and Natural Environment (JENE)*  
Occasional reviews for major Journals in the field of *Aquatic Microbial Ecology*

### Major ongoing funded Projects

Coordinator: **Workshop Regional Area (Zone Atelier) ZATU** : *Uranium Territories in the French Hercynian Arc: Life under ionizing radiation of natural origin* - CNRS INEE and IN2P3 program. Co-Coordinators V. Breton et P. Chardon (2014-present). Incentive core-fund of 30 000€ per year.

Coordinator: **C No Limit**: *Characterization of unprecedented "auto-replicative" planktonic nanoparticles: exploration of living limits in the aquatic environment*. Co-Coordinators: J. Colombet, H. Billard, B. Vignes - X-Life Challenge Program of the Interdisciplinary Mission of CNRS, 2018-2019, 60 000€.

Coordinator: **ROME** « *Rare and Overlooked Microbial Eukaryotes in freshwater lakes* », Pls: E. Viscogliosi, N. Niquil, U. Christaki. Associate Scientists: U. Christaki, C. Gachon, N. Niquil, E. Viscogliosi. ANR Programme Blanc, 2013-2016, 450 000 €

Coordinator: **Action 2 of the Environmental Axis of CPER** « *Adaptation and responses of organisms (plants, microbes) and of carbonaceous metabolisms (CO<sub>2</sub>, CH<sub>4</sub>) to climatic change*». Co-Coordinator: JL Julien; Coordinator of the whole Environmental Axis of CPER: C Amblard. Contrat de Projets Etat-Région (CPER), Région Auvergne, 2012-2015, 1 500 000€

**ALFF** – *The Algal Microbiome: Friends and Foes*. Marie Curie Research and Innovation Framework, a H2020-MSCA-ITN-2014 European Program, 2015-2018. <https://msc-alf.org/>. Associate Partner.

**BEEHOPE** – *Honeybee Conservation centers in Western Europe: an innovative strategy using sustainable beekeeping to reduce honeybee decline*. BIODIVERSA, H2020 and ERA LEARN 2020 European Program, 2015-2017. Participant.

### Session organization, chair, and invited plenary or regular conferences in major international meetings

**Organizer, chair**: thematic session N°52 – “*Viruses and parasites in food web interactions*, ASLO (*Association for the Sciences of Limnology & Oceanography*), 2017 Aquatic Science Meeting, Honolulu, Hawaii, USA, February-March 2017. Co-chair: U Christaki

**Invited speaker**: EMBO Conference on viruses of microbes, Liverpool UK, July 2016

**Organizer, chair and closing talk**: thematic session N°09 – “*Host-parasite interactions in microbial communities*” - ASLO 2016 Summer Meeting, Santa Fe, NM (USA), June 2016. Co-chair: U Christaki

**Organizer, chair and talk, thematic session** – “*Algae-microbiome interactions: integrative overview from biology to chemistry*” – EPC6, Sixth European Phycological Congress, London (UK), August 2015. Co-chair: S. Prado.

**Organizer, chair and closing talk**: thematic session N°014 – “*Parasitism in Aquatic Microbial Ecology*” - ASLO Aquatic Sciences Meeting, Otsu Shiga (Japan), July 2012. Co-chair: J Dolan, C Gachon, N Niquil

**Organizer**: VI<sup>th</sup> Congress of French Speaking Association of Microbial Ecology (AFEM), Parent (France), November 2013.

**Chair and plenary lecture**: V<sup>th</sup> Congress of French Speaking Association of Microbial Ecology (AFEM), Hammamet (Tunisia), November 2011.

**Organizer, chair and closing talk**: thematic session N°11 – “*Missing, Rare, and Wrongfully Regarded Microbial Diversity in Aquatic System*”- ASLO (*Association for the Sciences of Limnology & Oceanography*) Aquatic Sciences Meeting, Nice (France), January 2009. Co-chair: N Niquil, T Pommier, C Pedrós-Alió.

**Organizer and chair**: thematic session N°98 – “*Aquatic Microbial Food Webs from Molecules to Biogeochemical Cycles: A Symposium to Honor the Career of Dr. Fereidoun Rassoulzadegan*” - ASLO Aquatic Sciences Meeting, Nice (France) January 2009. Co-chair: J Dolan, B Mostajir.

**Chair and plenary lecture**: I<sup>st</sup> International Meeting of Limnology (AFL), Luxembourg, July 2009.

**Chair and plenary lecture**: VIII<sup>th</sup> Congress of French Speaking Association of Limnology (AFL), Hammamet (Tunisia), November 2006.

### PhD students (years), their ‘devenir’

- EOUZAN I. (2015 – present)

- **MOULY D.** (University mentor: 2013-2016), Pharmacist-Epidemiologist, Institute of Health Surveillance, France
- **PALESSE S.** (2011 – 2014) ; Ingénieur d'Etude Univ. Paris 6 – Observatoire Océanologique, Banyul/Mer
- **PESSIOT J.** (2012 - 2014) ; Deputy President of AFYREN (**Permanent position**), a biotechnological enterprise that exploits microbial diversity to produce bioenergy and chemicals.
- **GERPHAGNON M.** (2009 - 2013) ; Postdoc University Blaise Pascal, France and Scottish Marine Institute (SAMS), UK (from February 2014)
- **JOBARD M.** (2007 – 2010) ; Lecturer Université d'Auvergne, France (2010) ; Postdoc University Blaise Pascal, France (2011-present)
- **RASCONI S.** (2007 – 2010), PostDoc Univ. La Rochelle France (July 2010 – Jan 2011) ; Postdoc Univ. Oslo, Norway (February 2011-2013), Postdoc Wasser Cluster, Biological Station Lunz, Austria (2013-present)
- **COLOMBET J.** (2006 – 2008) ; PostDoc Univ. La Rochelle (Sept. 2008-Jan. 2009) ; Postdoc (2009) and Ingénieur d'Etude (**Permanent position** from 2010) Univ. Blaise Pascal, France
- **LEFEVRE E.** (2004 – 2007); PostDoc University of Alabama, USA (Nov. 2007-2010); PostDoc Colorado State Univ., USA (Jan 2011 - 2012); PostDoc Duke University, Durham North Carolina, USA (2012-present)
- **ELLOUMI J.** (2003 – 2006); Lecturer (2007-2009) and Assistant Professor (**Permanent position** from 2010), University of Sfax, Tunisia
- **BETTAREL Y.** (2000 – 2002); PostDoc SERC Egewater USA (2003 - 2004) ; Research Assistant IRD France (Chargé de Recherche CR1), Dakar Sénégal (**Permanent position** 2004 – 2008); Univ. Montpellier, France (**Permanent position** from 2008)
- **JUGNIA L.B.** (1996-1999); PostDoc UQAM, Montréal, Canada (1999 - 2001); Research Officer NSERC, Biotechnology Research Institute, Montréal, Canada (**Permanent position** from 2002)
- **TADONLEKE R.** (1996-1999); PostDoc UdeM, Montréal, Canada (1999 - 2003); Research Assistant (CR) INRA, Thonon Les Bains, France (**Permanent position** from 2003)

#### PostDocs (years), their 'devenir'

- **NANA P.A.** (2016-2017), looking for a position.
- **KESHRI J.** (2014-2015), Postdoc Institute of Postharvest and Food Sciences, Agricultural Research Organization, Bet Dagan, Israel
- **GERPHAGNON M.** (2014-2015), Postdoc SAMS Oban UK; Postdoc Univ. Blaise Pascal France; postdoc Department of Ecosystem Research, Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin, Germany
- **HUGONI M.** (2013-2014); Postdoc University Lyon France; Assistant professor (**permanent position**) University Lyon 1, France
- **MOCHIZUKI T.** (2013-2014), Researcher at JAMSTEC, Japan Agency for Marine-Earth Sciences and Technology (**Permanent position** from october 2014)
- **UCHII K.** (2009 - 2010); Postdoc JSPS, University of Tokyo (2011-2013), Researcher Institute for Sustainable Sciences and Development, Hiroshima University (**Permanent position** from april 2013)
- **MONCHY S.** (2010); Assistant Professor and then Professor, University Lille-Nord, France (**Permanent position** from 2011)
- **ROBIN A.** (2007 – 2010); Research Assistant, CIRAD, Montpellier, France (**Permanent position** from 2010)
- **PRADEEP RAM A.S.** (2008-2010, 2006-2007 and 2002-2003); Postdoc Kyoto University, Japan (2004-2006); Research Associate (Chargé de Recherche, CR1), CNRS, France (**Permanent position** from 2010)
- **YANG Y.** (2003 – 2004); Postdoc Kyoto University, Japan (2004 – 2005); ?

#### Scientific publications (\*As the Corresponding Author)

#### Edited Books and Special Issues

1. BERTRAND JC, NORMAND P, OLLIVIER B, **SIME-NGANDO T\*** (Editors) *In Press*. Prokaryotes and Evolution. *Springer*, The Netherlands, XX pp. <https://www.springer.com/us/book/9783319997827#aboutBook>

2. **SIME-NGANDO T\***, P BOIVIN, E CHAPRON, D JEZEQUEL, M. MEYBECK (Editors) 2016. Lac Pavin - History, geology, biogeochemistry, and sedimentology of a deep meromictic maar lake. *Springer*, The Netherlands, 421 pages. <http://link.springer.com/book/10.1007%2F978-3-319-39961-4>
3. AUBERT J. et al., including **SIME-NGANDO T** (authors) 2016. Insight on environmental genomics, the high-throughput sequencing revolution. French and English versions under the direction of FAURE D and JOLY D, *ISTE Editions*, London, 174p.
4. BERTRAND JC, CAUMETTE P, LEBARON P, MATHERON R, NORMAND P, **SIME-NGANDO T\*** (Editors) 2015: Environmental Microbiology: fundamentals and applications, *Springer*, The Netherlands, 933 pages. <http://www.springer.com/life+sciences/ecology/book/978-94-017-9117-5>. E-book available at: <http://www.springerlink.com/content/978-94-017-9118-2>
5. **SIME-NGANDO T\***, LAFFERTY KD, BIRON DG (Editors) 2015: Roles and mechanisms of parasitism in aquatic microbial communities. *Frontiers Media SA*, Lausanne. [http://www.frontiersin.org/books/Roles\\_and\\_Mechanisms\\_of\\_Parasitism\\_in\\_Aquatic\\_Microbial\\_Communities/653](http://www.frontiersin.org/books/Roles_and_Mechanisms_of_Parasitism_in_Aquatic_Microbial_Communities/653)
6. ACHOUAK W, BERTIN P, CAPY P, DEBROAS D, DEDEINE F, DEGUILLOUX MF, DAOUDY C, DUBOW M, GEIGL EM, JOLY D, JUMAS-BILAK E, LE GALL L, MIAUD C, PELLETIER E, POMMIER T, POMPANON F, SALAMITOU S, **SIME-NGANDO T**, SIMON JC, VANDENKOORNHUYSE P (Authors) 2015 : Empreinte du vivant, l'ADN de l'environnement. Sous la direction de JOLY D, FAURE D, SALAMITOU S. *Cherche-Midi*, Paris, 191 pages
7. **SIME-NGANDO T\***, NIQUIL N (Editors) 2011: Disregarded microbial diversity and ecological potentials in aquatic systems. *Springer*, The Netherlands, ISBN 978-94-007-1197-6. *NB. This item corresponds to the special issue below, published as a book in the Series Developments in Hydrobiology 216, Series Editor Koens Martens.* <http://www.springer.com/life+sciences/ecology/book/978-94-007-1197-6>
8. **SIME-NGANDO T\***, NIQUIL N (Editors) 2011: Disregarded microbial diversity and ecological potentials in aquatic systems. *Hydrobiologia*, Special Issue, Volume 659, N° 1, 115 pages, Janvier 2010. *Springer*, The Netherlands.
9. **SIME-NGANDO T\***, LEFEVRE E (Editors) 2010: Molecular diversity of heterotrophic flagellates in aquatic ecosystems. *Editions Universitaires Européennes*. UK, 204 pages, Juillet 2010, ISBN 978-613-1-51605-4. <https://www.morebooks.de/store/fr/book/molecular-diversity-of-heterotrophic-flagellates-in-aquatic-ecosystems/isbn/978-613-1-51605-4>
10. COLOMBET J, **SIME-NGANDO T** (Editeurs) 2010: Virus et prophages dans les écosystèmes aquatiques. *Editions Universitaires Européennes*, UK, 204 pages, Avril 2010, ISBN 9786131502743. <https://www.morebooks.de/store/fr/book/virus-et-prophages-dans-les-%C3%A9cosyst%C3%A8mes-aquatiques/isbn/978-613-1-50274-3>
11. Dolan J, Mostajir B, **SIME-NGANDO T** (Editors) 2009: Rassoulzadegan at Villefranche-sur-Mer: 3 Decades of Aquatic Microbial Ecology. *Aquatic Microbial Ecology*, Special Issue, Volume 57, N° 3, 141 pages. *Inter-Research Science Center (IR)*, Oldendorf/Luhe, Germany (Print ISSN: 0948-3055; Online ISSN: 1616-1564). <http://www.int-res.com/abstracts/ame/v57/n3/>

#### Invited Chapters and Reviews in Books and Special Issues

12. BERTRAND JC, CAUMETTE P, NORMAND P, OLLIVIER B, **SIME-NGANDO T** (*In Press*). Prokaryotes/Eukaryotes dichotomy and *Bacteria/Archaea/Eukarya* domains: two separate concepts. In: BERTRAND JC, NORMAND P, OLLIVIER B, **SIME-NGANDO T\*** (Editors) *In Press*. Prokaryotes and Evolution. *Springer*, The Netherlands, pages XX-XX.
13. **SIME-NGANDO T**, BERTRAND JC, BOGUSZ D, BRUGERE JF, FRANCHE C, FARDEAU ML, FROUSSARD E, GEIGER A, GONI-URRIZA MS, OLLIVIER B, O'TOOLE PW (*In Press*). The evolution of living beings started with Prokaryotes and in interaction with Prokaryotes. In: BERTRAND JC, NORMAND P, OLLIVIER B, **SIME-NGANDO T\*** (Editors) *In Press*. Prokaryotes and Evolution. *Springer*, The Netherlands, pages XX-XX
14. CHRISTAKI U, GENITSARIS S, MONCHY S, LI L, RACHIK S, BRETON E, **SIME-NGANDO T** (2017). Parasitic eukaryotes in a meso-eutrophic coastal system with marked *Phaeocystis globosa* blooms. In: **SIME-NGANDO T\***, CHRISTALI U, GLEASON FH (Editors): Viruses and parasites in food web interactions. Research Topic, *Front. Marine Sciences* 4 : 416. doi: 10.3389/fmars.2017.00416.
15. EOUZAN I, GARNERY L., **SIME-NGANDO T**, BIRON DG (2017). Les pesticides, la cause du déclin de l'abeille domestique. In: BERNARD C, MOUGIN C, PERY A (Editors) – Ecotoxicologie, des communautés au fonctionnement des écosystèmes. *ISTE Editions*, London, pages 185-198.

16. **SIME-NGANDO T\*** (2016). Preface. In: **SIME-NGANDO T\***, P BOIVIN, E CHAPRON, D JEZEQUEL, M. MEYBECK (Editors) - Lac Pavin - History, geology, biogeochemistry, and sedimentology of a deep meromictic maar lake. *Springer*, The Netherlands, pages i-xv.
17. **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\***, P BOIVIN, E CHAPRON, D JEZEQUEL, M. MEYBECK (Editors) - Lac Pavin - History, geology, biogeochemistry, and sedimentology of a deep meromictic maar lake. *Springer*, The Netherlands, pages 229-294.
18. **SIME-NGANDO T\***, GERPHAGNON M, COLOMBET J, JOBARD M, LEFEVRE E, MONCHY S, RASCONI S, LATOUR D, CARRIAS JF, AMBLARD C (2016): Molecular diversity studies in Lake Pavin reveal the ecological importance of parasitic true fungi in the plankton. In: **SIME-NGANDO T\***, P BOIVIN, E CHAPRON, D JEZEQUEL, M. MEYBECK (Editors) - Lac Pavin - History, geology, biogeochemistry, and sedimentology of a deep meromictic maar lake. *Springer*, The Netherlands, pages 329-443.
19. **CARRIAS JF**, AMBLARD C, SIME-NGANDO T (2016): The significance of transparent exopolymeric particles (TEP) for microorganisms in Lake Pavin. In: **SIME-NGANDO T\***, P BOIVIN, E CHAPRON, D JEZEQUEL, M. MEYBECK (Editors) - Lac Pavin - History, geology, biogeochemistry, and sedimentology of a deep meromictic maar lake. *Springer*, The Netherlands, pages 223-228.
20. **CARRIAS JF**, AMBLARD C, BOURDIER G, SIME-NGANDO T (2016): The importance of phagotrophic protists in Lake Pavin. In: **SIME-NGANDO T\***, P BOIVIN, E CHAPRON, D JEZEQUEL, M. MEYBECK (Editors) - Lac Pavin - History, geology, biogeochemistry, and sedimentology of a deep meromictic maar lake. *Springer*, The Netherlands, pages 307-314.
21. JEPHCOTT T, ALVES-DE-SOUZA C, GLEASON FH, VAN OGTROP F, **SIME-NGANDO T**, KARPOV S and Laure GUILLOU L (2015): Ecological impacts of parasitic chytrids, syndinales and perkinsids on populations of marine photosynthetic dinoflagellates. In: BÄRLOCHER F (Editor): Aquatic fungal ecology. Special Issue *Fungal Ecology* **19**: 47-58. doi:10.1016/j.funeco.2015.03.007
22. **SIME-NGANDO T\***, LAFFERTY KD, BIRON (2015). Editorial : Roles and mechanisms of parasitism in aquatic microbial communities. In: **SIME-NGANDO T\***, LAFFERTY KD, BIRON DG (Editors): Roles and mechanisms of parasitism in aquatic microbial communities. Research Topic, *Frontier in Microbiology* **6**:446: doi: 10.3389/fmicb.2015.00446.
23. **SIME-NGANDO T\*** (2014). Environmental bacteriophages: viruses of microbes in aquatic ecosystems. In: **SIME-NGANDO T\***, LAFFERTY KD, BIRON DG (Editors): Roles and mechanisms of parasitism in aquatic microbial communities. Research Topic, *Frontier in Microbiology* **5**: 355. doi: 10.3389/fmicb.2014.00355.
24. BOUDOURESQUE CF, CAUMETTE P, BERTRAND JC, NORMAND P, **SIME-NGANDO T** (2015). Systematic and evolution of microorganisms: general concepts. In: BERTRAND JC, CAUMETTE P, LEBARON P, MATHERON R, NORMAND P, **SIME-NGANDO T** (Editors): Environmental Microbiology: fundamentals and applications , *Springer*, The Netherlands, Pages 107-144. [http://link.springer.com/chapter/10.1007/978-94-017-9118-2\\_5](http://link.springer.com/chapter/10.1007/978-94-017-9118-2_5)
25. MOSTAJIR B, AMBLARD C, BUFFAN-DUBAU E, de WIT R, LENS R, **SIME-NGANDO T** (2015). Microbial food webs in aquatic and terrestrial ecosystems. In: BERTRAND JC, CAUMETTE P, LEBARON P, MATHERON R, NORMAND P, **SIME-NGANDO T** (Editors): Environmental Microbiology: fundamentals and applications , *Springer*, The Netherlands, Pages 485-509. [http://link.springer.com/chapter/10.1007/978-94-017-9118-2\\_13](http://link.springer.com/chapter/10.1007/978-94-017-9118-2_13)
26. **SIME-NGANDO T\***, COLOMBET J (*in press*). Roles Of Viruses In Aquatic Ecosystems. In: Encyclopedia of Life Support Systems (EOLSS), *UNESCO, Eolss Publishers*, Oxford, UK, [http://www.eolss.net]
27. GLEASON FH, KARPOV SA, LILJE O, MACARTHUR DJ, VAN OTGEN FF, **SIME-NGANDO T** (2014): Zoospore parasites of phytoplankton. In: JONES GARETH EB, HYDE KD, PANG KL, (Editors): Freshwater fungi and fungus-like organisms. *De Gruyter Series Marine and Freshwater Botany*, pp. 279-304.
28. RASCONI S, BOUTHEINA G, NIQUIL N, JOBARD M, **SIME-NGANDO T** (2014): Parasitic chytrids sustain zooplankton growth during inedible algal bloom. In: **SIME-NGANDO T\***, LAFFERTY KD, BIRON DG (Editors): Roles and mechanisms of parasitism in aquatic microbial communities. Research Topic, *Frontier in Microbiology* **5**: 229. doi: 10.3389/fmicb.2014.00229.
29. GLEASON FH, LILJE O, MARANO AV, **SIME-NGANDO T**, SULLIVAN BK, KIRCHMAIR M, NEUHAUSER S (2014): Ecological functions of zoospore hyperparasites. In: **SIME-NGANDO T\***, LAFFERTY KD, BIRON DG (Editors): Roles and mechanisms of parasitism in aquatic microbial communities. Research Topic, *Frontier in Microbiology* **5**: 244, doi: 10.3389/fmicb.2014.00244
30. BERTIN P\*, **SIME-NGANDO T\***, Debroas D, Le Paslier D, Marmeisse R, Monchy S, Plewniak F (2013) : Fonctionnement des écosystèmes : métagénomique et intégration des omiques. In : Institut Ecologie et

- Environnement (INEE) du CNRS, *Cahier de Prospective N° 5, Génomique Environnementale*, pp. 73-82. <http://www.cnrs.fr/fr/pdf/inee/inee-genomique-environnementale/#/1/>
31. **SIME-NGANDO T\***, RASCONI S, GERPHAGNON M (2013): Diagnose of parasitic fungi in the plankton: technique for identifying and counting infective chytrids using epifluorescence microscopy. In: GUPTA VK, TUOHY M, MANIMARAN A, TURNER KM, O'DONOVAN A (Editors): Laboratory protocols in fungal biology: current methods in fungal biology. *Springer*, New York, pp. 169-174. <http://www.springer.com/life+sciences/plant+sciences/book/978-1-4614-2355-3>
  32. **SIME-NGANDO T\***, JOBARD M (2013): Development of a real-time quantitative PCR assay for the assessment of uncultured zoospore fungi. In: GUPTA VK, TUOHY M, MANIMARAN A, TURNER KM, O'DONOVAN A (Editors): Laboratory protocols in fungal biology: current methods in fungal biology. *Springer*, New York, pp. 421-426. <http://www.springer.com/life+sciences/plant+sciences/book/978-1-4614-2355-3>
  33. **SIME-NGANDO T\***, JOBARD M, RASCONI S (2013): Fluorescence in situ hybridization of uncultured zoospore fungi. In: GUPTA VK, TUOHY M, MANIMARAN A, TURNER KM, O'DONOVAN A (Editors): Laboratory protocols in fungal biology: current methods in fungal biology. *Springer*, New York, pp. 231-233. <http://www.springer.com/life+sciences/plant+sciences/book/978-1-4614-2355-3>
  34. **SIME-NGANDO T\*** (2013): Fungal zoospores in aquatic ecosystems. In: McGraw-Hill Yearbook of Science & Technology 2013 and the online edition AccessScience (<http://www.accessscience.com>). *The McGraw-Hill Companies*, New York, pages 174-176
  35. **SIME-NGANDO T\*** (2012): Phytoplankton chytridiomycosis: fungal parasites of phytoplankton and their imprints on the food web dynamics. In: GROSSART HP, RIEMANN L, TANG KW (eds): Molecular and functional ecology of aquatic microbial symbionts. *Frontiers Microbiology* 3:361. doi: 10.3389/fmicb.2012.00361. [http://www.frontiersin.org/Aquatic\\_Microbiology/10.3389/fmicb.2012.00361/abstract](http://www.frontiersin.org/Aquatic_Microbiology/10.3389/fmicb.2012.00361/abstract)
  36. COLOMBET J, **SIME-NGANDO T\*** (2012): Use of PEG, Polyethylene glycol, to characterize the diversity of environmental viruses. In: MENDEZ-VILAS A. (Editor): "Current microscopy contributions to advances in science and technology, Volume 1, pp 316-322. *Formatex Research Center*, Badajoz, Spain.
  37. MOSTAJIR B, AMBLARD C, BUFFAN-DUBAU E, de WIT R, LENS R, **SIME-NGANDO T** (2012): Réseaux trophiques microbiens des milieux aquatiques et terrestres. In : BERTRAND JC, CAUMETTE P, LEBARON P & NORMAND P (Editors.): *Ecologie Microbienne : Microbiologie des milieux naturels et anthropisés. Les Presses Universitaires de l'Université de Pau et des Pays de l'Adour*, France
  38. **SIME-NGANDO T\***, NIQUIL N (2011): Editorial, 'Disregarded' microbial diversity and ecological potentials in aquatic systems: a new paradigm-shift ahead. In: SIME-NGANDO T, NIQUIL N (Editors): Disregarded microbial diversity and ecological potentials in aquatic systems. *Hydrobiologia*, Special Issue, Volume 659, N° 1, p 1-4. *Springer*, The Netherlands.
  39. **SIME-NGANDO T\***, LEFEVRE E, GLEASON FH (2011): Hidden diversity among aquatic heterotrophic flagellates: ecological potentials of zoospore fungi. In: SIME-NGANDO T, NIQUIL N (Editors): Disregarded microbial diversity and ecological potentials in aquatic systems. *Hydrobiologia*, Special Issue, Volume 659, N° 1, p 5-22. *Springer*, The Netherlands.
  40. NIQUIL N, KAGAMI M, URABE J, CHRISTAKI U, VISCOGLIOSI E, **SIME-NGANDO T** (2011): Potential role of fungi in plankton food web functioning and stability: a simulation analysis based on Lake Biwa inverse model. In: SIME-NGANDO T, NIQUIL N (Editors): Disregarded microbial diversity and ecological potentials in aquatic systems. *Hydrobiologia*, Special Issue, Volume 659, N° 1, p. 65-79. *Springer*, The Netherlands.
  41. WOMMACK KE, **SIME-NGANDO T**, WINGET DM, JAMINDAR S, HELTON RR (2010): Filtration-based methods for the collection of viral concentrate from large water samples. In: WILHELM SW, WEINBAEUR MG, SUTTLE CA (Editors): *Manual of Aquatic Viral Ecology*, Chapter 12, pp 112-117. *Advancing the Science for Limnology and Oceanography (ASLO), Inc*, Waco, Texas, USA. <http://www.aslo.org/books/mave/>
  42. DOLAN JR, MOSTAJIR B, **SIME-NGANDO T** (2009): Rassoulzadegan in Villefranche-sur-Mer and the 'evolution' of marine microbial ecology over the last three decades. In: DOLAN J, MOSTAJIR B, **SIME-NGANDO T** (Editors): Rassoulzadegan at Villefranche-sur-Mer: 3 Decades of Aquatic Microbial Ecology. *Aquatic Microbial Ecology*, Special Issue, Volume 57, N° 3, p 221-225. *Inter-Research Science Center (IR)*, Oldendorf/Luhe, Germany. <http://www.int-res.com/abstracts/ame/v57/n3/>
  43. CARRIAS JF & **SIME-NGANDO T** (2009): Bacteria attached to surfaces. In: Likens GE (Editor) *Encyclopedia of inland waters*, Volume 3, pp. 182-192, Elsevier, Oxford, UK

44. AMBLARD C, BOISSON JC, BOURDIER G, FONTVIELLE D, GAYTE X & **SIME-NGANDO T** (1998): Ecologie microbienne en milieu aquatique : des virus aux protozoaires. In : ERB F & VILLENEUVE JP (Eds.) - "Les sciences de l'eau : bilan et perspectives". *Journal of Water Sciences* **11** : 145-162
45. **SIME-NGANDO T\***, GOSELIN M, JUNIPER K & LEVASSEUR M (1997): Changes in sea-ice phagotrophic microprotists (20-200 µm) during the spring algal bloom, Canadian Arctic Archipelago. In : THERRIAULT JC, DEVINE L et FUKUCHI M (Eds.) - The Canadian-Japan SARES Project on first-year sea ice. *Journal of Marine Systems* **11**: 163-172
46. **SIME-NGANDO T\***, JUNIPER K & DEMERS S (1997): Ice-brine and planktonic microheterotrophs from Saroma-Ko Lagoon, Hokkaido (Japan) : Quantitative importance and trophodynamics. In : THERRIAULT JC, DEVINE L et FUKUCHI M (Eds.) - The Canadian-Japan SARES Project on first-year sea ice. *Journal of Marine Systems* **11**: 149-161
47. VEZINA AF, DEMERS S, LAURION I, **SIME-NGANDO T**, JUNIPER SK & DEVINE L (1997): Carbon flows through the microbial food web of first-year ice in Resolute Passage (Canadian High Arctic). In: THERRIAULT JC, DEVINE L et FUKUCHI M (Eds.) - The Canadian-Japan SARES Project on first-year sea ice. *Journal of Marine Systems* **11**: 173-189
48. AMBLARD C, BOURDIER G, **SIME-NGANDO T**, RACHIQ S & CARRIAS JF (1994): Diel and vertical variations of the microbial stocks (bacteria, heterotrophic flagellates, ciliates, phytoplankton) and their relative activities. Dans : J. FEUILLADE (ed.) : Studies on Lake Nantua (France) : a eutrophic lake on the way to rehabilitation. *Archiv für Hydrobiologie* **41**: 125-144.

#### Invited Reviews in Normal Issues

49. FRENKEN T, ALACID E, BERGER SA, BOURNE EC, GERPHAGNON M, GROSSART HP, GSELL AS, IBELINGS BW, KAGAMI M, KÜPPER FC, LETCHER PM, LOYAU A, MIKI T, NEJSTGAARD JC., RASCONI S, RENE A, ROHRLACK T, ROJAS-JIMENEZ K, SCHMELLER DS, SCHOLZ B, SETO K, **SIME-NGANDO T**, SUKENIK A, VAN DE WAAL DB, VAN DEN WYNGAERT S, VAN DONK E, WOLINSKA J, WURZBACHER C, AGHA R (2018) Integrating chytrid fungal parasites into plankton ecology. Research gaps and needs. *Environmental Microbiology* **19**: 3802-3822. doi: 10.1111/1462-2920.13827
50. JOBARD M, PESSIOT J, NOUAILLE R, FONTY G, **SIME-NGANDO T** (2017): Microbial diversity in support of anaerobic biomass valorization. *Critical Reviews in Biotechnology* **37**: 1-10 <http://dx.doi.org/10.3109/07388551.2015.1100584>
51. JEPHCOTT TG, **SIME-NGANDO T**, GLEASON FH, MACARTHUR DJ (2016): Host-parasite interactions in food webs: Diversity, stability, and coevolution. *Food Webs* **6**: 1-8. doi:10.1016/j.fooweb.2015.12.001
52. GERPHAGNON M, MACARTHUR DJ, LATOUR D, GACHON CMM, VAN OGTROP F, GLEASON FH, **SIME-NGANDO T** (2015). Microbial players involved in the decline of filamentous and colonial cyanobacterial blooms with a focus on fungal parasitism. *Environmental Microbiology* **17**: 2573-2587.
53. GLEASON FH, JEPHCOTT TG, KÜPPER FC, GERPHAGNON M, **SIME-NGANDO T**, KARPOV S, GUILLOU L, VAN OGTROP F (2015): Potential roles for recently discovered chytrid parasites in the dynamics of harmful algal blooms. *Fungal Biological Reviews* **29**: 20-23.
54. JOBARD M, PESSIOT J, NOUAILLE R, **SIME-NGANDO T** (2014): Microbial diversity supporting dark fermentation of waste. *Trends in Biotechnology* **32**: 549-550.
55. **SIME-NGANDO T\*** (2015): Aeromonas: a book review. *Frontier in Microbiology* **6**: 106. doi: 10.3389/fmicb.2015.00106.
56. MARANO AV, EDWARDS JE, GLEASON FH, BÄRLOCHER F, PIRES-ZOTTARELLI CLA, LILJE O, SCHMIDT SK, RASCONI S, KAGAMI M, BARRERA MD, **SIME-NGANDO T**, BOUSSIBA S (2012) : Quantitative methods for the analysis of zoospore fungi. *Journal of Microbiological Methods* **89**: 22-32
57. GLEASON F, KUPPER F, AMON J, PICARD K, GACHON C, MARANO A, **SIME-NGANDO T**, LILJE O (2011): Zoospore true fungi in marine environments, a review. *Marine and Freshwater Research* **62**: 383-393
58. RASCONI S, JOBARD M, **SIME-NGANDO T\*** (2011): Parasitic fungi of phytoplankton: Ecological roles and implications for microbial food webs. *Aquatic Microbial Ecology* **62**: 123-137
59. GACHON C, **SIME-NGANDO T**, STRITTMATTER M, CHAMBOUVET A, HOON KIM G (2010): Algal diseases: Spotlight on a black box. *Trends in Plant Science* **15**: 633-640
60. JOBARD M, RASCONI S, **SIME-NGANDO T\*** (2010): Diversity and functions of microscopic fungi: a missing component in pelagic food webs. *Aquatic Sciences* **72**: 255-268
61. **SIME-NGANDO T\*** & COLOMBET J (2009): Virus et prophages dans les écosystèmes aquatiques. *Canadian Journal of Microbiology* **55**: 95-109

62. GLEASON FH, KAGAMI M, LEFEVRE E, **SIME-NGANDO T** (2008): The ecology of chytrids in aquatic ecosystems: roles in food web dynamics. *Fungal Biology Reviews* **22**: 17-25
63. **SIME-NGANDO T\***, BETTAREL Y, CHARTOGNE C & SEAN K (2003): The imprint of wild viruses on freshwater microbial ecology. *Recent Research Development in Microbiology* **7**: 481-497
64. **SIME-NGANDO T\*** (1997): Importance des virus dans la structure et le fonctionnement des réseaux trophiques microbiens aquatiques. *Année Biologique* **36**: 181-210

### Illustrations of the Covers of International Journals

65. Colombet J, **SIME-NGANDO T\*** (2012): Surface and deep water viruses are apparently different in Lake Pavin: overview of the general morphotypes of viruses in the water column, including the characteristic free-occurring pelagic forms [Sipho- (A), Podo- (B), Myoviridae (C), and untailed phages (D)], which are dominant, primarily in the mixolimnion, and the more atypical forms or complex spatial arrangement/conformation (E) which occurred mainly in the permanently deep anoxic waters. Cover *Microbial Ecology*, Volume **64**(1), April 2012



66. GERPHAGNON M, **SIME-NGANDO T\*** (2011): Cover photograph illustrating the topic of the Hydrobiologia Special Issue, T. Sime-Ngando & N. Niquil (Guest Editors) / Disregarded Microbial Diversity and Ecological Potentials in Aquatic Systems. Multiple infections of an unknown colonial Chlorophyceae by zoosporic fungi (Chytrids) sampled in the surface waters of the eutrophic Lake Aydat, Massif Central, France. Apparently young sporangia penetrate into the mucilage and reach the cell wall but without rhizoidal system inside the host cells, highlighting the thin boundary between parasitism and saprophytism. Cover *Hydrobiologia*, Special Issue, Volume **659**, Issue 1, January 2011



67. RASCONI S, JOBARD M, **SIME-NGANDO T\*** (2009): Fungal parasitism of phytoplankton prokaryotes in the productive Lake Aydat (Massif Central, France): Calcofluor white (CFW) stained sporangium of a parasitic chytrid (tentatively identified as *Rhizosiphon crassum*) with typical isodiametric endobiotic thallus within the filamentous cyanobacterial host *Anabaena sp.* The fluorochrome, CFW, selectively binds to the chitinaceous wall of fungal structures and fluoresces intense blue under UV light. Cover *Applied & Environmental Microbiology*, Volume **75**, Issue 8, April 2009



### Articles

#### In Press, 2018

68. AMMINI P, VIJAYAN JJ, APARNA S, PRADEEP RAM AS, VIJAYA KA, BALACHANDRAN KK, KALLUNGAL RM, DAYAN M, **SIME-NGANDO T** (In Press). High incidence of lysogeny in the oxygen minimum zones of the Arabian Sea (southwest coast of India). *Viruses*
69. RAD-MENENDEZ C, GERPHAGNON M, GARVETTO A, ARCE P, BADIS Y, **SIME-NGANDO T**, GACHON CMM (In Press). Rediscovering *Zygorhizidium affluens* Canter - Molecular taxonomy, infectious cycle, and cryopreservation of a chytrid infecting the bloom-forming diatom *Asterionella Formosa*. *Applied and Environmental Microbiology*
70. HARALDSSON M, GERPHAGNON M, BAZIN P, COLOMBET J, TECCHIO S, **SIME-NGANDO T**, NIQUIL N (2018): Microbial parasites make cyanobacteria blooms less of a trophic dead-end than commonly assumed. *ISME Journal* **12**: 1008-1020. <https://doi.org/10.1038/s41396-018-0045-9>
71. 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. <https://doi.org/10.1371/journal.pone.0194020>
72. 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**: 372-386. <https://doi.org/10.1007/s00248-018-1143-y>
73. KESHRI J, PRADEEP RAM AS, **SIME-NGANDO T** (2018). Distinctive patterns in the taxonomical resolution of bacterioplankton in the sediment and pore waters of contrasted freshwater lakes. *Microbial Ecology* **75**: 662-673, doi: 10.1007/s00248-017-1074-z
  74. PRADEEP RAM AS, MARI X, BRUNE J, TORRETON 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**: 13, doi: <https://doi.org/10.1525/elementa.276>
  75. LONTSI DJIMELI C, TAMSA ARFAO A, NOAH EWOTI O, ROSSI V, LANGO-YAYA E, RASPAL V, NOLA M, **SIME-NGANDO T** (2018). Assessment of the adsorption of *Aeromonas hydrophila* on polythene in sodium hypochloride and hydrogen peroxide treated water. *Journal of Water and Environmental Sciences* **2**: 270-287.
  76. NANA PA, FOKAM Z, VIGUES B, BRICHEUX G, AJEAGAH AGHAINDUM G, NGASSAM P, NOLA M, **SIME-NGANDO T** (2018). Morphology and infraciliature of two new earthworm ciliates, *Hoplitophrya polymorphus* sp. nov. and *Anoplophrya simplex* sp. nov. (Ciliophora: Oligohymenophorea: Astomatia). *Zootaxa* **4392**: 169-178. <https://doi.org/10.11646/zootaxa.4392.1.9>
  77. AJEAGAH GA, YOGBACK GE, TCHAKONTE S, NANA PA, BRICHEUX G, **SIME-NGANDO T**, DJIETO-LORDON C (2018). Biomorphologie des crustacés d'un cours d'eau peu anthropisé en forêt équatoriale au Cameroun. *Revue des Sciences de l'Eau* **31** : 29-40. doi:10.7202/1047051ar

## 2017

78. 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. <http://dx.doi.org/10.1016/j.watres.2017.07.053>
79. GERPHAGNON M, COLOMBET J, LATOUR D, **SIME-NGANDO T** (2017). Spatial and temporal changes of parasitic chytrids of cyanobacteria. *Scientific Reports* **7**: 6056, doi: 10.1038/s41598-017-06273-1
80. VIJAYAN JJ, 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. *Frontier in Microbiology*, **8**:895. doi: 10.3389/fmicb.2017.00895
81. LAMPE N, BRETON V, SARRAMIA D, **SIME-NGANDO T**, BIRON DG (2017) : Understanding low radiation background biology through controlled evolution experiments. *Evolutionary Applications* **00**:1-9. <https://doi.org/10.1111/eva.12491>
82. COLOMBET J, ROBIN A, **SIME-NGANDO T** (2017). Genotypic, size and morphological diversity of virioplankton in a deep oligomesotrophic freshwater lake (Lac Pavin, France). *Journal of Environmental Sciences* **53**: 48-59
83. KOJI E, NOAH EVOTI OV, ONANA FM, TCHAKONTE S, LONTSI DJIMELI C, TAMSA ARFAO A, BRICHEUX G, **SIME-NGANDO T**, NOLA M. (2017). Influence of anthropogenic pollution on the abundance dynamics of some freshwater invertebrates in the coastal area of Cameroon. *Journal of Environmental Protection* **8**: 810-829.

## 2016

84. ROUX S, ENAULT F, RAVET V, COLOMBET J, BETTAREL Y, AUGUET JC, BOUVIER T, LUCAS-STAAAT S, VELLETT A, PRANGISHVILI D, FORTERRE P, DEBROAS D, **SIME-NGANDO T** (2016) : Analysis of metagenomic data reveals common features of halophilic viral communities across continents. *Environmental Microbiology* **18**:889-903
85. 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**:347-358, doi: 10.1007/s00248-016-0782-0
86. 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). *Frontier in Microbiology* **7**: 81. doi: 10.3389/fmicb.2016.00081

87. BALLAUD FC, DUFRESNE A, FRANCEZ AJ, COLOMBET J, **SIME-NGANDO T**, QUAISER A (2016) : Dynamics of viral abundance and diversity in a Sphagnum-dominated peatland: temporal fluctuations prevail over habitat. *Frontier in Microbiology* **6**: 1494. doi:10.3389/fmicb.2015.01494
88. GENITSARIS S, MONCHY S, DENONFOUX J, FERREIRA S, KORMAS Ar. K, **SIME-NGANDO T**, VISCOGLIOSI E, CHRISTAKI U (2016) : Marine microbial community structure assessed from combined metagenomics analysis and ribosomal amplicon deep-sequencing. *Marine Biology Research*, **12**: 30-42. <http://dx.doi.org/10.1080/17451000.2015.1084425>
89. MOBILI OB, LONTSI DJIMELI C, MOUNGANG LM, ALLAAHDIN O, TAMSA ARFAO A, MABINGUI J, BRICHEUX G, NOLA M, **SIME-NGANDO T** (2016): Microbial treatment of water containing the bacteria *Enterococcus faecalis* and *Escherichia coli* in microcosm using *Artemisia annua* plant extract: Hierarchical order of some abiotic factors affecting cell's cultivability. *European Journal of Biotechnology and Bioscience* **4**:16-26.
90. FOKAM Z, NANA PA, BRICHEUX G, VIGUES B., BOUCHARD P., NGASSAM P, **SIME-NGANDO T** (2016) : Correlation between some environmental variables and abundance of *Almophrya mediovacuolata* (Ciliophora: Anoplophryidae) endocommensal ciliate of an anecic earthworms (Oligochaeta: Annelida) in Bambui (North West Cameroon). *International Journal of Biological and Chemical Sciences* **10**: 1983-1997.
91. TAMSA ARFAO A, LONTSI DJIMELI C, NOAH EWOTI OV, BRICHEUX G, NOLA M, **SIME-NGANDO T** (2016): Detachment of adhered enteropathogenic *Escherichia coli* cells from polythene fragments immersed in aquatic microcosm using *Eucalyptus microcorys* extract (Myrtaceae). *Current Research in Microbiology and Biotechnology* **4**: 847-857.
92. EHETH JS, LONTSI DJIMELI C, MOUGANG LM, MOUSSA D, NOAH EWOTI OV, TAMSA ARFAO A, NOUGANG ME, BRICHEUX G, NOLA M, **SIME-NGANDO T**. (2016): Assessment of the role of some abiotic factors in the abundance dynamics of *Pseudomonas aeruginosa* in wells in sandy and clayey-lateritic soils in Cameroon (Central Africa). *International Journal of Information Research and Review* **3(5)**: 2343-2353.
93. LONTSI DJIMELI C, TAMSA ARFAO A, ROSSI V, NSULEM N, RASPAL V, BRICHEUX G, NOLA M, **SIME-NGANDO T**. (2016): Impact of two disinfectants on detachment of *Enterococcus faecalis* from polythene in aquatic microcosm. *Research in Biotechnology* **7**: 28-42.

## 2015

94. MOSTAJIR B, ROQUES C, BOUVIER C, BOUVIER T, FOUILLAND E, GOT P, LE FLOC'H E, NOUGUIER J, MAS S, SEMPERE R, **SIME-NGANDO T**, TROUSSELIER M, VIDUSSI F (2015): Microbial food web structural and functional responses to oyster and fish as top predators. *Marine Ecology Progress Series* **535**: 11-27
95. QUAISER A, DUFRESNE A, BALLAUD F, ROUX S, ZIVANOVIC Y, COLOMBET J, **SIME-NGANDO T**, FRANCEZ AJ (2015): Diversity, distribution and comparative genomics of *Microviridae* in *Sphagnum*-peat soils. *Frontier in Microbiology* **6**: 375. doi: 10.3389/fmicb.2015.00375.
96. 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**: 1-12
97. GENITSARIS S, MONCHY S, VISCOGLIOSI E, **SIME-NGANDO T**, CHRISTAKI U (2015): Seasonal variations of marine protist community structure based on taxon-specific traits using the eastern English Channel as a model coastal system. *FEMS Microbiology Ecology* **91**:1-15
98. KOJI E, TAMSA ARFAO A, LONTSI DJIMELI C, NOAH EWOTI OV, NOUGANG ME, BRICHEUX G, NOLA M, **SIME-NGANDO T** (2015): Impact of Rainfall and Some Water Abiotic Factors on the Abundance Dynamic of *Vibrio* and *Aeromonas* Adhered to Copepods Surface in Some Coastal Streams and Rivers in Cameroon (Central Africa). *International Journal of Research Studies in Biosciences* **3**: 11-21.
99. KOJI E, LONTSI DJIMELI C, TAMSA ARFAO A, NOAH EWOTI OV, TCHAKONTE S, BRICHEUX G, NOLA M, **SIME-NGANDO T** (2015): Abundance dynamic of *Vibrio* cells associated with freshwater shrimps Atyidae (Crustacea-Decapoda) in the coastal surface waters of Cameroon (Central Africa): Assessment of the role of some environmental factors. *International Journal of Current Microbiology and Applied Sciences* **4**: 358-378.
100. MOBILI OB, LONTSI DJIMELI C, TAMSA ARFAO A, NOUGANG ME, ALLAAHDIN O, NOAH EWOTI OV, MABINGUI J, BRICHEUX G, **SIME-NGANDO T**, NOLA M (2015): Synergistic effect of light, pH and *Artemisia annua* extract on *Enterococcus faecalis* in aquatic microcosms. *International Journal of Applied Microbiology and Biotechnology Research* **3**: 62-72.

101. NANA PA, FOKAM Z, BRICHEUX G, MOCHE K, COLOMBET J, NGASSAM P, **SIME-NGANDO T** (2015): Viruses and bacteria microfauna of the soil and the digestive tract of earthworms (Oligochaetes annelids) of Cameroon: highlighting, quantification and importance. *International Journal of Biosciences* **6**: 252-260
102. FOKAM Z, NANA PA, NGASSAM P, BRICHEUX G, VIGUES B, BOUCHARD P, **SIME-NGANDO T** (2015): Soil physicochemical parameters affecting abundance and distribution of *Dicoelophrya nkoldaensi* (Ciliophora: Radiophryidae) living in the gut of earthworms (Annelida: Glossoscolecidae) collected in Bambui (nord-west Cameroon). *International Journal of Current Research* **7**: 17164-17173
103. FOKAM Z, NANA PA, MOCHE K, BRICHEUX G, BOUCHARD P, NGASSAM P, **SIME-NGANDO T** (2015): Influence of soil physicochemical parameters on the abundance of *Paracoelophrya polymorphus* (Ciliophora: Radiophryidae) commensal of earthworms (Annelida: Glossoscolecidae) collected in Bambui (North-West Cameroon). *Journal of Biodiversity and Environmental Sciences* **6**: 376-389.
104. FOKAM Z, NANA PA, NGASSAM P, BRICHEUX G, BOUCHARD P, VIGUES B, **SIME-NGANDO T** (2015): Morphological characterization of two new species of *Dicontophrya* (Ciliophora: Astomatia: Contophryidae) commensal of earthworms (Oligochaeta: Annelida) of Ebebda and Nkolbikogo (Cameroon). *International Journal of Biosciences* **7**: 49-57.
105. SIGNE MBIADA J, LONTSI DJIMELI C, MANOUORE NJOYA A, EHETH JS, TCHAKONTE S, TAMSA ARFAO A, ATEBA BESSA H, BRICHEUX G, NOLA M, **SIME-NGANDO T** (2015): Assessment of the potential effect of some streams properties on the isolated *Aeromonas hydrophyla* strains susceptibility against some  $\beta$ -Lactams and sulfamids. *Research in Biotechnology* **6**: 33-44.

## 2014

106. PRADEEP RAM AS, **SIME-NGANDO T** (2014): Distinctive patterns in prokaryotic community composition in response to viral lysis and flagellate grazing in freshwater mesocosms. *Freshwater Biology* **59**: 1945-1955
107. 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**: 740-750
108. CHRISTAKI U, LEFEVRE D, GEORGES C, COLOMBET J, CATALA P, COURTIES C, **SIME-NGANDO T**, BLAIN S, OBERNOSTERER I (2014): Microbial food web dynamics during spring phytoplankton blooms in the naturally iron-fertilized Kerguelen area (Southern Ocean). *Biogeosciences* **11**: 6739-6753
109. FOUILLAND E, TOLOSA I, BONNET D, BOUVIER C, BOUVIER T, BOUVY M, GOT P, LE FLOC'H E, MOSTAJIR B, ROQUES C, SEMPERE R, **SIME-NGANDO T**, VIDUSSI F (2014): Bacterial carbon dependence on freshly produced phytoplankton exudates under different nutrient availability and grazing pressure conditions in coastal marine waters. *FEMS Microbiology Ecology* **87**: 757-769
110. LONTSI DJIMELI C, TAMSA ARFAO A, NOAH EWOTI OV, EBIANE NOUGANG M, MOUNGANG ML, BRICHEUX G, NOLA M, **SIME-NGANDO T** (2014): Mixture of sodium hypochlorite and hydrogen peroxide on adhered *Aeromonas hydrophila* to solid substrate in water: Impact of concentration and assessment of the synergistic effect. *International Journal of Bacteriology* Article ID 121367, 13 pages <http://dx.doi.org/10.1155/2014/121367>
111. 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**: 300-311
112. CHRISTAKI U, KORMAS KA, GENITSARIS S, GEORGES C, **SIME-NGANDO T**, VISCOGLIOSI E, MONCHY S (2014): Winter-summer succession of unicellular eukaryotes in a meso-eutrophic coastal system. *Microbial Ecology* **67**: 13-23
113. FOKAM Z, NANA PA, NGASSAM P, BRICHEUX G, BOUCHARD P, VIGUES B, **SIME-NGANDO T** (2014): Morphological description of four new species of *Nyctotherus* (Ciliophora: Nyctotheridae: Heterotrichida), commensal ciliates of the digestive tract of a terrestrial Oligochaete (Megascolecidae) from the northwest region of Cameroon. *Parasitology* **8**: 62-70.
114. LONTSI DJIMELI C, TAMSA ARFAO A, NOAH EWOTI OV, BRICHEUX G, NOLA M, **SIME-NGANDO T** (2014): Adhesion of *Candida albicans* to polythene in Sodium hypochlorite disinfected aquatic microcosm and

potential impact of cell surface properties. *Current Research in Microbiology and Biotechnology* 2: 479-489.

115. NANA PA, FOKAM Z, NGASSAM P, AJEAGAH G, MOCHE K, BRICHEUX G, BOUCHARD P, VIGUES B, **SIME-NGANDO T** (2014): Influence of ionic contents on the stratification of astomatia and hysteroconetidae (Ciliophora, oligohymenophora) along the digestive tract of *Alma Emini* (Oligochaete, Glossoscolecidae) from the center region of Cameroon. *International Journal of Current Research* 6: 4468-4474.

## 2013

116. 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: 906-916.
117. GERPHAGNON M, LATOUR D, COLOMBET J, **SIME-NGANDO T** (2013): A double staining method using SYTOX-green and Calcofluor White for studying fungal parasites of phytoplankton. *Applied and Environmental Microbiology* 79: 3943-3951
118. GERPHAGNON M, LATOUR D, COLOMBET J, **SIME-NGANDO T** (2013): Fungal Parasitism: Life Cycle, Dynamics and Impact on Cyanobacterial Blooms. *Plos One* 8, e60894
119. TAMSA ARFAO A, NOLA M, LONTSI DJIMELI C, NANDJOU NGUEFACK RV, NOUGANG ME, BRICHEUX G, **SIME-NGANDO T** (2013): Comparison of the inhibition of commensally and enteropathogenic *E. coli* strains in the presence of *Eucalyptus microcorys* leaves extract in aquatic microcosm. *International Journal of Current Microbiology and Applied Sciences* 2: 80-96.
120. FOKAM Z, NANA PA, NGASSAM P, BRICHEUX G, BOUCHARD P, VIGUES B, **SIME-NGANDO T** (2013): Description of two new species of Sicyophoridae and Nyctotheridae (Heterotrichina), endocommusal in the rectal ampulla of *Bufo regularis* (Amphibia: Anura) from the Northwest of Cameroon. *Protistology* 8: 16-21.

## 2012

121. BORREL G, COLOMBET J, ROBIN A, LEHOURS AC, PRANGHISVILI D, **SIME-NGANDO T\*** (2012): Unexpected and novel putative viruses in the sediments of a deep-dark permanently anoxic freshwater habitat. *The ISME Journal* 6, 2119-2127. This article has been the subject of press releases from **CNRS** ([http://www.cnrs.fr/inee/communication/breves/telesphore\\_sime\\_ngando.htm](http://www.cnrs.fr/inee/communication/breves/telesphore_sime_ngando.htm)) and from the Scientific Magazines 'Science & Vie' (vol. 1141, October 2012, Page 24) and 'Pour la Science' (Vol. 418, August 2012, Page 13). This article was also featured by *ISME Journal* and made free available online in November 2012.
122. JOBARD M, RASCONI S, SOLINHAC L, CAUCHIE M-H, **SIME-NGANDO T\*** (2012): Molecular and morphological diversity of fungi and the associated functions in three European nearby lakes. *Environmental Microbiology* 14, 2480-2494
123. RASCONI S, NIQUIL N, **SIME-NGANDO T\*** (2012): Phytoplankton chytridiomycosis: community structure and infectivity of fungal parasites in aquatic systems. *Environmental Microbiology* 14, 2151-2170
124. COLOMBET J, **SIME-NGANDO T\*** (2012): Seasonal depth-related gradients in virioplankton: lytic activity and comparison with protistan grazing potential in Lake Pavin (France). *Microbial Ecology* 64, 67-78
125. NANA PA, FOKAM Z, NTOUNGWA EBAGUE GM, NGASSAM P, BRICHEUX G, BOUCHARD P, **SIME-NGANDO T** (2012): Description of five new species of hysteroconetian ciliates (Ciliophora, Hysteroconetidae), endocommusal in a terrestrial oligochaete of the genus *Alma* from Cameroon. *Protistology* 7, 97-107
126. NANA PA, FOKAM Z, NGASSAM P, ZEBAZE SH, AJEAGAH GA G, BRICHEUX G, BOUCHARD P, **SIME-NGANDO T** (2012): Distribution of Astomatia Schewiakoff, 1896 and Hysteroconetidae Diesing, 1866 (Ciliophora, Oligohymenophora) along the digestive tract of *Alma emini* (Oligochaete, Glossoscolecidae) is correlated with physico-chemical parameters. *Protistology* 7, 193-202
127. FOKAM Z, NGASSAM P, NANA PA, BRICHEUX G, BOUCHARD P, **SIME-NGANDO T** (2012): Révision de la sous-famille des Metaracoelophrynae de Puytorac 1972 (Oligohymenophora : Hoplytophyrida : Hoplytophyridae), ciliés astomes du tube digestif d'oligochètes terricoles d'Afrique : description de cinq espèces nouvelles. *Parasite* 19, 41-52
128. MONCHY S, GRATTEPANACHE JD, BRETON E, MELONI D, SANCIU G, CHABE M, DELHAES L, VISCOGLIOSI E, **SIME-NGANDO T**, CHRISTAKI U (2012): Microplanktonic community structure in a coastal system relative to a *Phaeocystis* bloom inferred from morphological and tag pyrosequencing methods. *Plos One* 7, e39924

129. DELHAES L, MONCHY S, FREALLE E, HUBANS C, SALLERON J, LEROY S, PREVOTAT A, WALLET F, WALLAERT B, **SIME-NGANDO T**, CHABE M, VISCOGLIOSI E (2012): The airway microbiota in cystic fibrosis: a complex fungal and bacterial community – Implications for therapeutic management. *Plos One* **7**, e36313
130. ROUX S, ENAULT F, ROBIN A, RAVET V, PERSONNIC S, THEIL S, COLOMBET J, **SIME-NGANDO T**, DEBROAS D (2012): Assessing the diversity and specificity of two freshwater viral communities through metagenomics. *Plos One* **7**, e33641

## 2011

131. GRAMI B, RASCONI S, NIQUIL N, JOBARD M, SAINT BEAT B, **SIME-NGANDO T** (2011): Functional effects of parasites on food web properties during the spring diatom bloom in Lake Pavin: a linear inverse modelling analysis. *Plos One* **6**, e23273.  
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0023273>. This article has been the subject of press release from **CNRS**  
[http://www.cnrs.fr/inee/communication/breves/telesphore\\_sime\\_nathalie\\_niquil.htm](http://www.cnrs.fr/inee/communication/breves/telesphore_sime_nathalie_niquil.htm)
132. **SIME-NGANDO T**, LUCAS S, ROBIN A, TUCKER KP, COLOMBET J, BETTAREL Y, DESMOND E, GRIBALDO S, FORTERRE P, BREITBART M, PRANGISHVILI D (2011): Diversity of virus-host systems in hypersaline Lake Retba, Senegal. *Environmental Microbiology* **13**, 1956-1972
133. PRADEEP RAM AS, RASCONI S, JOBARD M, PALESSE S, COLOMBET J, **SIME-NGANDO T\*** (2011): High lytic infection rates but low abundances of prokaryote viruses in a humic lake (Vassivière, Massif Central, France). *Applied & Environmental Microbiology* **77**, 5610-5618
134. BOUVY M, BETTAREL Y, BOUVIER C, DOMAIZON I, JACQUET S, LE FLOC'H E, MONTANIE H, MOSTAJIR B, **SIME-NGANDO T**, TORRETON JP, VIDUSSI F, BOUVIER T (2011): Trophic interactions between viruses, bacteria and nanoflagellates under various nutrient conditions and simulated climate change. *Environmental Microbiology* **13**, 1842-1857
135. MONCHY S, JOBARD M, SANCIU G, RASCONI S, GERPHAGNON M, CHABE M, CIAN A, MELONI D, NIQUIL N, CHRISTAKI U, VISCOGLIOSI E, **SIME-NGANDO T\*** (2011): Exploring and quantifying fungal diversity in freshwater lake ecosystems using rDNA cloning/sequencing and SSU tag pyrosequencing. *Environmental Microbiology* **13**, 1433-1453
136. MASCLAUX H, BEC A, KAGAMI M, PERGA ME, **SIME-NGANDO T**, DESVILETTES C, BOURDIER G (2011): Food quality of anemophilous plant pollen for zooplankton. *Limnology & Oceanography* **56**, 939-946. **This article is rated Recommended by Faculty of 1000.**
137. BETTAREL Y, BOUVIER T, BOUVIER C, CARRE C, DESNUES A, DOMAIZON I, JACQUET S, ROBIN A, **SIME-NGANDO T** (2011): Ecological traits of planktonic viruses and prokaryotes along a full salinity gradient. *FEMS Microbiology Ecology* **76**, 360-372
138. THOMAS R, BERDJEB L, **SIME-NGANDO T**, JACQUET S (2011): Viral abundance, production, decay rates, and life strategies (lysogeny vs lysis) in Lake Bourget (France). *Environmental Microbiology* **13**, 616-630
139. CHRISTAKI U, VAN WAMBEKE F, LEFEVRE D, LAGARIA A, PRIEUR L, PUJO-PAY M, GRATTEPANACHE JD, COLOMBET J, PSARRA S, DOLAN JR, **SIME-NGANDO T**, CONAN P, WEINBAUER MG, MOUTIN T (2011): Microbial food webs and metabolic state across oligotrophic waters of the Mediterranean Sea during summer. *Biogeosciences* **8**, 1839-1852

## 2010 - 2001

140. JOBARD M, RASCONI S, **SIME-NGANDO T\*** (2010): Fluorescence *in situ* hybridization of uncultured zoospore fungi: testing with clone-FISH and application to freshwater samples using CARD-FISH. *Journal of Microbiological Methods*, **83**: 236-243
141. PRADEEP RAM AS, BASHIR A, DANGER M, CARRIAS JF, LACROIX G, **SIME-NGANDO T\*** (2010): High and differential viral infection rates within bacterial 'morphopopulations' in a shallow sand pit lake (Lac de Créteil, France). *FEMS Microbiology Ecology*, **74**: 83-92
142. 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**: 467-479
143. LEFEVRE E, JOBARD M, VENISSE JS, BEC A, KAGAMI M, AMBLARD C, **SIME-NGANDO T\*** (2010): Development of a real-time PCR assay for quantitative assessment of uncultured freshwater zoospore fungi. *Journal of Microbiological Methods*, **81**: 69-76

144. COLOMBET J, CHARPIN M, ROBIN A, PORTELLI C, AMBLARD C, CAUCHIE HM, **SIME-NGANDO T\*** (2009): Seasonal depth-related gradients in virioplankton: Standing stock and relationships with microbial communities in Lake Pavin (France). *Microbial Ecology*, **58**: 728-736
145. PERSONNIC S, DOMAIZON I, **SIME-NGANDO T**, JACQUET S (2009): Seasonal variations of microbial abundances and virus- vs flagellate-induced mortality of picoplankton in three peri-alpine lakes. *Journal of Plankton Research*, **31**: 1161-1177.
146. RASCONI S, JOBARD M, JOUVE L, **SIME-NGANDO T\*** (2009): Use of calcofluor white for detection, identification and quantification of phytoplanktonic fungal parasites. *Applied & Environmental Microbiology* **75**: 2545-2553
147. GLEASON FH, KAGAMI M, MARANO AV, **SIME-NGANDO T** (2009): Fungal zoospores are valuable food resources in aquatic ecosystems. Feature Article, Newsletter of the Mycological Society of America, *Inoculum, Supplement to Mycologia* **60**(5): 1-3
148. PRADEEP RAM AS, SABART M, LATOUR D, **SIME-NGANDO T\*** (2009): Low effect of viruses on bacteria in deep anoxic water and sediment of a productive freshwater reservoir (Lake Grangent, France). *Aquatic Microbial Ecology* **55**: 255-265
149. ELLOUMI J, CARRIAS JF, AYADI H, **SIME-NGANDO T**, BOUAIÏN A (2009): Community structure of the planktonic halophiles in the solar saltern of Sfax, Tunisia. *Estuarine Coastal and Shelf Science* **81**: 19-26
150. BETTAREL Y, ARFI R, BOUVIER T, BOUVY M, BRIAND E, COLOMBET J, CORBIN O, **SIME-NGANDO T** (2008): Virioplankton distribution and activity in a tropical eutrophicated Bay. *Estuarine Coastal and Shelf Science* **80**: 425-429
151. LEPAGE P, COLOMBET J, MARTEAU P, **SIME-NGANDO T**, DORE J, LECLERC MC (2008): Dysbiosis in Inflammatory Bowel Disease: a role for bacteriophages? *GUT* **57**: 424-425
152. LEFEVRE E, ROUSSEL B, AMBLARD C, **SIME-NGANDO T\*** (2008): The molecular diversity of freshwater picoeukaryotes reveals high occurrence of putative parasitoids in the plankton. *PloS One* **3**: e2324  
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0002324>. This article is rated Recommended by Faculty of 1000.
153. 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**: 498-509
154. CISSOKO M, DESNUES A, BOUVY M, **SIME-NGANDO T**, VERLING E, BETTAREL Y (2008): Effects of freshwater and seawater mixing on virio- and bacterioplankton in a tropical estuary. *Freshwater Biology* **53**: 1154-1162
155. **SIME-NGANDO T\***, COLOMBET J, PERSONNIC S, DOMAIZON I, DORIGO U, PERNEY P, HUSTACHE JC, VIOLLIER E, JACQUET S (2008): Short-term variations in abundances and potential activities of viruses, bacteria and nanoprotoists in Lake Bourget. *Ecological Research* **23**: 851-861
156. LEFEVRE E, BARDOT C, NOËL C, CARRIAS JF, VISCOGLIOSI E, AMBLARD C, **SIME-NGANDO T\*** (2007): Unveiling fungal zooflagellates as members of freshwater picoeukaryotes: evidence from a molecular diversity study in a deep meromictic lake. *Environmental Microbiology* **9**: 61-71
157. COLOMBET J, ROBIN A, LAVIE L, BETTAREL Y, CAUCHIE HM, **SIME-NGANDO T\*** (2007): Virioplankton 'pegylation' : use of PEG (polyethylene glycol) to concentrate and purify viruses in pelagic ecosystems. *Journal of Microbiological Methods* **71**: 212-219
158. JACQUET S, DOMAIZON I, PERSONNIC S, **SIME-NGANDO T** (2007): Do small grazers influence virus-induced mortality of bacteria in Lake Bourget (France)? *Fundamental & Applied Limnology* **170**: 125-132
159. JUGNIA LB, **SIME-NGANDO T**, DEVAUX J. (2007) : Relationship between bacterial and primary production in a newly filled reservoir : temporal variability over 2 consecutive years. *Ecological Research* **22**: 321-330
160. ALAOUI MHAMDI B, AZZOUZI A, ALAOUI MHAMDI M, **SIME-NGANDO T\*** (2007) : Dynamics of the relative nitrogen and phosphorus concentrations in a reservoir situated in a semi-arid zone (Sahela, Morocco). *Water Resources Management* **21**: 983-995
161. BETTAREL Y, BOUVY M, DUMONT C, **SIME-NGANDO T** (2006): Virus-bacteria interactions in waters and sediments of West African inland aquatic systems. *Applied & Environmental Microbiology* **72**: 5274-5282
162. FILIPPINI M, BUESING N, BETTAREL Y, **SIME-NGANDO T**, GESSNER MO (2006): The infection paradox: high abundance but low impact of freshwater benthic viruses. *Applied & Environmental Microbiology* **72**: 4893-4898. This article is rated Recommended by Faculty of 1000.
163. COLOMBET J, **SIME-NGANDO T\***, CAUCHIE HM, FONTY G, HOFFMANN L, DEMEURE G (2006): Depth-related gradients of viral activity in Lake Pavin. *Applied & Environmental Microbiology* **72**: 4440-4445

164. JUGNIA LB, GILBERT D, **SIME-NGANDO T** (2006): Dynamics and estimates of growth and loss rates of bacterioplankton in a temperate freshwater system. *FEMS Microbiology Ecology* **58**: 23-32
165. LEMARCHAND C, JARDILLIER L, CARRIAS JF, RICHARDOT M, DEBROAS D, **SIME-NGANDO T**, AMBLARD C. (2006): Community composition and activity of prokaryotes associated to detrital particles in two contrasting lake ecosystems. *FEMS Microbiology Ecology* **57**: 442-451
166. ELLOUMI J, CARRIAS JF, AYADI H, **SIME-NGANDO T**, BOUKHRIS M, BOUAÏN A. (2006): Composition and distribution of planktonic ciliates from ponds of different salinity in the solar saltwork of Sfax, Tunisia. *Estuarine Coastal & Shelf Science* **67**: 21-29
167. **SIME-NGANDO T\*** & PRADEEP RAM AS (2005) Grazer effects on prokaryotes and viruses in a freshwater microcosm experiment. *Aquatic Microbial Ecology* **41**: 115-124
168. JARDILLIER L, BETTAREL Y, BARDOT C, AMBLARD C, **SIME-NGANDO T** & DEBROAS D (2005): Effects of viruses and predators on the prokaryotic community composition. *Microbial Ecology* **50**: 557-569
169. HORNAK K, MASIN M, JEZBERA J, BETTAREL Y, NEDOMA J, **SIME-NGANDO T** & SIMEK K. (2005) Effects of decreased resource availability, protozoan grazing and viral impact on the structure of bacterioplankton assemblage in a canyon-shaped reservoir. *FEMS Microbiology Ecology* **52**: 315-327
170. BETTAREL Y, **SIME-NGANDO T**, AMBLARD C, BOUVY M. (2005) Low Consumption of Virus-Sized Particles by Heterotrophic Nanoflagellates in Two Lakes of the French Massif Central. *Aquatic Microbial Ecology* **39**: 205-209
171. PRADEEP RAM AS, BOUCHER D, **SIME-NGANDO T\***, DEBROAS D & ROMAGOUX JC (2005). Phage bacteriolysis, protistan bacterivory, and bacterial production in a freshwater reservoir: coupling with temperature. *Microbial Ecology* **50**: 64-72
172. JACQUET S, DOMAIZON I, PERSONNIC S, PRADEEP RAM AS, HEDAL M & **SIME-NGANDO T**. (2005): Estimates of protozoan- and viral-mediated mortality of bacterioplankton in Lake Bourget (France). *Freshwater Biology* **50**: 627-645
173. LEFEVRE E, CARRIAS JF, BARDOT C, **SIME-NGANDO T\*** & AMBLARD C. (2005) A preliminary study of heterotrophic picoflagellates using oligonucleotidic probes in Lake Pavin. *Hydrobiologia* **551**: 61-67
174. TOUMI N, AYADI H, ABID O, CARRIAS JF & **SIME-NGANDO T**. (2005): Zooplankton distribution in four ponds of different salinity: a seasonal study in the solar saltern of Sfax (Tunisia). *Hydrobiologia* **534**: 1-9
175. ZEBAZE TSH, NJINE T, KEMKA N, NOLA M, FOTO MS, MONKIEDJE A, NIYITEGEKA S, **SIME-NGANDO T**, JUGNIA LB (2005): Variations spatiales et temporelles de la richesse et de l'abondance des rotifers (Brachionidae et Trichocercidae) et des cladocères dans un petit lac artificiel eutrophe situé en zone tropicale. *Journal of Water Sciences* **18** : 485-505
176. BETTAREL Y, **SIME-NGANDO T\***, AMBLARD C, & DOLAN J (2004): Viral activity in two contrasting lake ecosystems. *Applied & Environmental Microbiology* **70**: 2941-2951
177. AYADI H, ABID O, ELLOUMI J, BOUAÏN A & **SIME-NGANDO T\*** (2004): Structure of the phytoplankton communities in two lagoons of different salinity in the Sfax Saltern (Tunisia). *Journal of Plankton Research* **26**: 669-679
178. BETTAREL Y, AMBLARD C, **SIME-NGANDO T\***, CARRIAS JF, SARGOS D, GARABETIAN F & LAVANDIER P (2003): Viral lysis, flagellate grazing potential and bacterial production in Lake Pavin. *Microbial Ecology* **45**: 119-127
179. BETTAREL Y, **SIME-NGANDO T** & AMBLARD C (2003): Grazing by heterotrophic nanoflagellates on virus and bacterial sized particles in two lakes of different trophic status. *J. Phycolgy* **39** (S1): 3-4
180. BETTAREL Y, **SIME-NGANDO T\***, AMBLARD C, CARRIAS JF & PORTELLI C (2003): Virioplankton and microbial communities in aquatic systems: a seasonal study in two lakes of differing trophy. *Freshwater Biology* **48**: 810-822
181. TADONLEKE R, THOUVENOT A, GILBERT D, **SIME-NGANDO T**, DEBROAS D & DEVAUX J (2003): Size-fractionated phytoplankton and relationships with metazooplankton in a newly flooded reservoir. *International Review of Hydrobiology* **88**: 614-634
182. CARRIAS JF, SERRE JP, **SIME-NGANDO T** & AMBLARD C (2002): Distribution, size and bacterial colonization of pico- and nano- detrital organic particles (DOP) in two lakes of different trophic status. *Limnology & Oceanography* **47**: 1202-1209
183. BETTAREL Y, DOLAN J, HORNAK K, LEMEE R, MASIN M, PEDROTTI ML, ROCHELL-NEWELL E, SIMEK K & **SIME-NGANDO T** (2002): Strong, weak, and missing links in a microbial community of the N. W. Mediterranean Sea. *FEMS Microbiology Ecology* **42**: 451-462
184. TADONLEKE RD, JUGNIA LB, **SIME-NGANDO T\***, DEVAUX J & ROMAGOUX JC (2002): Food web structure in the recently flooded Sep Reservoir as inferred from phytoplankton population dynamics and living microbial biomass. *Microbial Ecology* **43**: 67-81

185. BETTAREL Y, **SIME-NGANDO T\***, AMBLARD C, CARRIAS JF, SARGOS D, GARABETIAN F & LAVANDIER P (2002): The functional importance of bacteriophages in the microbial loop of an oligomesotrophic lake over a diel cycle. *Annales de Limnologie - International Journal of Limnology* **38**: 263-269
186. AYADI H, TOUMI N, ABID O, MEDHIOUB K, HAMMAMI M, **SIME-NGANDO T\***, AMBLARD C & SARGOS D (2002) Etude qualitative et quantitative des peuplements phyto- et zooplanctoniques dans les bassins de la saline de Sfax, Tunisie. *Journal of Water Sciences* **15**: 123-135.
187. RACHIQ S, RAOUI M, CHADLI N, AMBLARD C, ALAOUI MM, CARRIAS JF, **SIME-NGANDO T** & SARGOS D (2002) Potentialités phagotrophes des phytoflagellés dans la retenue de barrage Allal El Fassi (Maroc). *Journal of Water Sciences* **15**: 87-99
188. CARRIAS JF, THOUVENOT A, AMBLARD C & **SIME-NGANDO T** (2001): Dynamics and growth estimates of planktonic protists during early spring in Lake Pavin (France). *Aquatic Microbial Ecology* **24**: 163-174 38.
189. MONTANIE H, HARTMANN HJ, SEGUIGNES M, BOUFFARD J, TRICHET C, **SIME-NGANDO T** (2001): Des virus dans le réseau trophique microbien hivernal du golfe de Gascogne: régulation des populations bactériennes. *Journal Recherches Océanographiques* **26** : 158-160
190. JUGNIA LB & **SIME-NGANDO T\*** (2001): An assessment of the impact of Mingoa Stream input to the bacteriological quality of the Municipal Lake of Yaoundé (Cameroon). *Water Resources Management* **15**: 203-209
191. JUGNIA LB, TADONLEKE RD, **SIME-NGANDO T\***, DEBROAS D & DEVAUX J (2001): Bacteria-phytoplankton relationships in a recently formed reservoir (Sep, France). *Verhandlungen International Vereinigung Limnologie* **27**: 3820-3824
192. ABID O, AYADI H, KAMOUN AS, **SIME-NGANDO T** & MEDHIOUB K (2001): Planktonic biomass estimation in different ponds of the Sfax Saltworks. *Mediterranean Coastal Environment* **2**: 999-1006
193. ANNABI NT, AYADI H, MAÏZ NB & **SIME-NGANDO T** (2001): Phytoplankton of the North Lake of Tunis: relationships with abiotic parameters. *Mediterranean Coastal Environment* **2**: 945-952
194. TOUMI N, AYADI H, HAMMAMI M, **SIME-NGANDO T**, AMBLARD C & AMDOUNI R (2001): Artemia in the Saltworks of Sfax (Tunisia): distribution and economical importance for aquaculture. *Mediterranean Coastal Environment* **2**: 1007-1016
195. TOUMI N, AYADI H, **SIME-NGANDO T**, AMDOUNI R, AMBLARD C & MEDHIOUB K (2001): The microbial loop in the Sfax Saltworks (Tunisia): Quantitative importance of ciliated protozoa. *Mediterranean Coastal Environment* **2**: 1017-1024

#### 2000 - 1990

196. BETTAREL Y, **SIME-NGANDO T\***, AMBLARD C & LAVERAN H (2000): A comparison of methods for counting viruses in aquatic systems. *Applied & Environmental Microbiology* **66**: 2283-2289
197. JUGNIA LB, TADONLEKE RD, **SIME-NGANDO T\*** & DEVAUX J (2000): The microbial food web in the recently flooded Sep Reservoir: diel fluctuations in bacterial biomass and metabolic activity in relation to phytoplankton and flagellate grazers. *Microbial Ecology* **40**: 317-329
198. TADONLEKE RD & **SIME-NGANDO T\*** (2000): Rates of growth and microbial grazing mortality of phytoplankton in a recent artificial lake. *Aquatic Microbial ecology* **22**: 301-313
199. JUGNIA LB, RICHARDOT M, DEBROAS D, **SIME-NGANDO T** & DEVAUX J (2000): Variations in the number of active bacteria in the euphotic zone of a recently flooded reservoir. *Aquatic Microbial Ecology* **22**: 251-259
200. TADONLEKE RD, **SIME-NGANDO T\***, AMBLARD C, SARGOS D & DEVAUX J (2000): Primary productivity in the recently flooded Sep Reservoir (Puy-de-Dôme, France). *Journal of Plankton Research* **22**: 1355-1375
201. **SIME-NGANDO T\***, DEMERS S & JUNIPER SK (1999): Protozoan bacterivory in the ice and the water column of a cold temperate lagoon. *Microbial Ecology* **37**: 95-106
202. MOSTAJIR B, **SIME-NGANDO T**, DEMERS S, BELZILE C, ROY S, GOSSELIN M, CHANUT JP, DE MORA S, FAUCHOT J, VIDUSSI F & LEVASSEUR M (1999): Ecological implications of changes in cell size and photosynthetic capacity of marine Prymnesiophyceae induced by ultraviolet-B radiation. *Marine Ecology Progress Series* **187**: 89-100
203. JUGNIA LB, TADONLEKE RD, **SIME-NGANDO T\***, DEVAUX J & ANDRIVON C (1999): Bacterial population dynamics, production, and heterotrophic activity in a recently formed reservoir. *Canadian Journal of Microbiology* **45**: 747-753
204. JUGNIA LB, TADONLEKE RD, **SIME-NGANDO T\***, FOTO S & KEMKA N (1998): Short-term variations in the abundance and cell volume of bacterioplankton in an artificial tropical lake. *Hydrobiologia* **385**: 113-119



205. TADONLEKE RD, JUGNIA LB, **SIME-NGANDO T\***, ZEBAZE S & NOLA M (1998): Short-term vertical distribution of phytoplankton populations in a shallow tropical lake (Lake Municipal, Yaoundé, Cameroon). *Archiv für Hydrobiologie* **143**: 469-485
206. SIBILLE I, **SIME-NGANDO T**, MATHIEU L & BLOCK JC (1998): Protozoan bacterivory and Escherichia coli survival in drinking water distribution systems. *Applied & Environmental Microbiology* **64**: 197-202
207. RIEMANN F & **SIME-NGANDO T\*** (1997): Note on sea-ice nematodes (*Monhysteroidea*) from the Resolute Passage, Canadian High Arctic. *Polar Biology* **18**: 70-75
208. **SIME-NGANDO T\***, MIGNOT JP, AMBLARD C, BOURDIER G, DESVILLETES C & QUIBLIER-LLOBERAS C (1996) : Caractérisation des particules virales planctoniques dans un lac du Massif Central Français : Aspects méthodologiques et premiers résultats. *Annales de Limnologie - International Journal of Limnology* **32**: 259-263
209. ROY S, CHANUT JP, GOSSELIN M & **SIME-NGANDO T** (1996): Characterization of phytoplankton communities in the lower St. Lawrence Estuary using HPLC-detected pigments and cell microscopy. *Marine Ecology Progress Series* **142**: 55-73
210. **SIME-NGANDO T\***, GOSSELIN M, ROY S & CHANUT JP (1995): Significance of planktonic ciliated protozoa in the Lower St. Lawrence Estuary: comparison with bacterial, phytoplankton, and particulate organic carbon. *Aquatic Microbial Ecology* **9**: 243 – 258
211. **SIME-NGANDO T\*** (1995): Population dynamics of autotrophic picoplankton in relation to environmental factors in a productive lake. *Aquatic Sciences* **57**: 91-105
212. SMITH REH, DEMERS S, HATTORI H, KUDOH S, LEGENDRE L, MICHEL C, GOSSELIN M, ROBINEAU B, SUZUKI S, TAKAHASHI M, THERRIAULT JC, JUNIPER K & **SIME-NGANDO T** (1995): Biological and chemical investigations of the Saroma-Resolute Project in ice-covered Resolute Passage, 1992. *Canadian Data Report of Hydrography and Ocean sciences* **7**: 1-19
213. **SIME-NGANDO T\*** & YAGER P (1994): Quantitative and functional importance of phagotrophic protozoa in the Northeast Waters. *Berichte Zur polarforschung* **142**: 66-67
214. TAGUCHI S, DEMERS S, FORTIER L, FORTIER M, FUJIYOSHI Y, HATTORI H, KASAI H, KISHINO M, KUDOH S, LEGENDRE L, MCGINESS F, MICHEL C, **SIME-NGANDO T**, ROBINEAU B, SAITO H, SUZUKI Y, TAKAHASHI M, THERRIAULT JC, AOTA M, IKEDA M, ISHIKAWA M, TAKATSUKA T & SHIRASAWA K (1994): Biological data report for the Saroma-Ko site of the SARES (Saroma-Resolute Studies) Project, February-March 1992. *Low Temperature Sciences* **53**: 67-163
215. AMBLARD C, **SIME-NGANDO T**, RACHIQ S & BOURDIER G (1993): Importance of ciliated protozoa in relation to the bacterial and phytoplankton biomass in an oligo-mesotrophic lake during the spring diatom bloom. *Aquatic Sciences* **55**: 1-9
216. **SIME-NGANDO T\***, JUNIPER K & VEZINA A (1992): Ciliated protozoan communities over Cobb Seamount: Increase in biomass and spatial patchiness. *Marine Ecology Progress Series* **89**: 37-51
217. **SIME-NGANDO T\***, BOURDIER G, AMBLARD C. & PINEL-ALLOUL B (1991): Short-term variations in specific biovolumes of different bacterial forms in aquatic ecosystems. *Microbial Ecology* **21**: 211-226
218. **SIME-NGANDO T\*** & HARTMANN HJ (1991): Short-term variations of the abundance and biomass of planktonic ciliates in an eutrophic lake. *European Journal of Protistology* **27**: 249-263
219. **SIME-NGANDO T\*** & GROLIERE CA (1991): Effets quantitatifs des fixateurs sur le stockage des ciliés d'eaux douces. *Archiv für Protistenkunde* **140**: 109-120
220. **SIME-NGANDO T\***, HARTMANN HJ & GROLIERE CA (1990): Rapid quantification of planktonic ciliates : Comparison of improved live counting with other methods. *Applied & Environmental Microbiology* **56**: 2234-2242

#### Other Publications

221. NANA PA, NOLA M, MOREL JM, BRICHEUX G, DEBROAS D, **SIME-NGANDO T** (2017). Promouvoir la culture scientifique pour un développement durable en Afrique : cas des catastrophes meurtrières des lacs Monoun et Nyos au Cameroun. Dans ouvrage collectif (eds.) Développement durable, pensée nègre et savoirs endogènes en Afrique . *Editions Harmattan*, Paris
222. **SIME-NGANDO T\*** (2013) : Book Review, Barton LL, Northup DE (eds.) 2011. Microbial Ecology. *Limnology and Oceanography Bulletin* **22**: 95-97.
223. **SIME-NGANDO T\*** (2012) : Book Review, Fontaneto D (ed.) 2011. Biogeography of microscopic organisms. Is everything small everywhere? *Limnology and Oceanography Bulletin* **21**: 90-91.

224. FONTY G, LEHOURS AC, BORREL G, PETIT-BIDERRE C, PEYRET P, MOREL-DESROSIERS N, MOREL JP, **SIME-NGANDO T**, AMBLARD C (2011). Le lac Pavin : originalités et intérêts microbiologiques de son compartiment anoxique. *Revue des Sciences Naturelles d'Auvergne* **75** : 117-136
225. JACQUET S, DOMAIZON I, MASQUELIER S, LEPERE C, GUILLOU L, CHAMBOUVET A, DEBROAS D, **SIME-NGANDO T** (2011). Virus, bactéries et protistes pathogènes : rôle insoupçonné des parasites dans le fonctionnement des écosystèmes aquatiques. *Courrier de l'Environnement* **60**: 37-50
226. LEHOURS AC, CARRIAS JF, AMBLARD C, **SIME-NGANDO T**, FONTY G (2010) : Les bactéries du lac Pavin. *Pour la Science* **387** : 30-35. [http://www.pourlascience.fr/ewb\\_pages/f/fiche-article-les-bacteries-du-lac-pavin-23912.php](http://www.pourlascience.fr/ewb_pages/f/fiche-article-les-bacteries-du-lac-pavin-23912.php)
227. PERSONNIC S, DUHAMEL S, BETTAREL Y, **SIME-NGANDO T**, JACQUET S (2006). Les virus planctoniques : un compartiment clé des écosystèmes aquatiques. *Courrier de l'Environnement*, **53** : 19-34
228. DUHAMEL S, PERSONNIC S, JACQUET S, DOMAIZON I, **SIME-NGANDO T**, DUMAS B (2005). Importance des virus en milieu lacustre. *INRA Mensuel* **122** : 8-9
229. **SIME-NGANDO T** (2003) : Optimiser la recherche et l'innovation en Europe. *Journal de l'Université Blaise Pascal* **16**: 1-4



## Interviews, Television

- 239. Main national news, 20:00h TF1, October 25th 2016
- 240. Regional news 19:00h F3, November 2016
- 241. Interview - national video on French limnology, 2016  
<https://www.youtube.com/watch?v=VSQ7yCU8BEo>

