

# Stéphan JACQUET, PhD, male, 53 years old

Last update: Sept 2024

Research director (INRAE)  
Member of various scientific committees  
Animator of the BIOTIC research axis at CARRETEL  
Head of a MASTER teaching module  
European Advanced Scientific Diver  
President of the French Association for Limnology  
Editor-in-Chief of the *International Journal of Limnology*

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## Education history

2010–now: Research director, INRAE, France, aquatic microbial ecology  
2005: Defense of the empowerment to supervise research, University Savoie, France  
2001–2010: Young researcher, INRAE, France, aquatic microbial ecology  
2000-2001: Post-Doc, University of Bergen, Norway, ecology of viruses of microalgae  
1997 to 1999: During the PhD, Courses, Workshop and experiences at field in Canada, Norway and Denmark  
1996-2000: PhD, University Paris VI, France, dynamics of marine picoplanktonic populations  
1995-1966: Master of oceanography, University Paris VI, France

## Current position

2010-now - Research director, Lab. CARRETEL / Department AQUA / INRAE / France  
We do not work as team or group. However, since 2020, I co-supervise the main axis research theme of my lab. dealing with biodiversity and biotic interactions.

## Previous position

2001-2010: Young researcher, Lab. CARRETEL / Department AQUA / INRAE / France  
2000-2001: Postdoc researcher, University of Bergen / Department of Microbiology / Norway  
1996-2000: PhD, University Paris VI / Biological Station of Roscoff / CNRS / France

## Fellowships and awards

2000-2001: Individual European Marie Curie Fellowship, University of Bergen / Department of Microbiology / Norway  
2001: Price for the best PhD work awarded by the Brittany region  
1996-2000: Individual PhD Fellowship, Ministry of Research / University Paris VI (Biological Station of Roscoff) / France  
1998: Jacques Poutiers Price of the most original work in biological Oceanography as a PhD student awarded by the French Association of Oceanography

## Supervision of graduate students and postdoctoral fellows

All my PhD students continued with a post-doc position or obtained a job  
All my MASTER degree students continued with PhD or integrated a job  
2002-2024: 7 post-docs / 7 PhD students / >30 Master degree students and others. University Savoie  
Mont Blanc / INRAE-CARRETEL / France  
The PhD work of Kevin Xu ZHONG was awarded by the EFFS as the best European PhD work on freshwater sciences in 2015 for the period 2013-2015

### Post-doc

2024-2026: Frédéric SOULIGNAC, INRAE, CARRTEL, France  
2024: Laura SOARES, INRAE, CARRTEL, France (co-supervisor)  
2019: Jonathan DEROT, JSPS/CNRS, Shimane University, Japan (co-supervisor)  
2012: Onur KERIMOGLU, University Savoie Mont Blanc fellowship, CARRTEL, France (co-supervisor)  
2011: Parvathi AMMINI, Depart. EFPA fellowship, INRA, CARRTEL, France  
2008-2010: Ludwig JARDILLIER, Haigneré fellowship, INRA, CARRTEL, France  
2002: Jean-François BRIAND, EFPA fellowship, INRA, CARRTEL, France (co-supervisor)

### PhDs

2024-2027: Alice MARQUET, ENTPE  
2017-2021: Jade EZZEDINE, INRA & University Savoie Mont Blanc fellowship, CARRTEL, France (8 publications)  
2010-2014: Xu ZHONG, regional fellowship, CARRTEL, France (price of the best European PhD work on freshwater sciences awarded by EFFS, 11 publications)  
2009-2013: Samira BEN RHONDAME, INSTM, Sfax, Tunisie (co-supervisor)  
2006-2010, Lyria BERDJEB, INRA & University Savoie Mont Blanc fellowship, CARRTEL, France (8 publications)  
2005-2009: Anne ROLLAND, Eaux de Paris fellowship, CARRTEL, France (4 publications)  
2003-2007: Sébastien PERSONNIC, University Savoie Mont Blanc fellowship, CARRTEL, France (6 publications)

### Masters2

2024, Erwin REYMONDET & Leana REVIRAND  
2023, Sirine MELLITI  
2021, Alexia PELLOUX  
2021, Chloé FELTIN  
2020, Adrian JANICOT  
2019, Gaétan PAVARD  
2018, Nina GRANDREMY  
2017, Etienne RICHY  
2016, Benoit PAIX  
2015, Quentin REYMANN  
2014, Baptiste GUDONI  
2014, Jérémy FONVIELLE  
2013, Antony MEUNIER  
2011, Méryl POLLION  
2009, Isabelle CHEVALLOT  
2008, Aude PRUNET  
2008, Rozenn THOMAS  
2006, Lyria BERDJEB  
2005, Bérengère LITTOT  
2005, Maria CELLAMARE  
2004, Solange DUHAMEL  
2003, Sébastien PERSONNIC  
2003, Abdourahmane MBADE SENE

### Others (Master1, Maîtrise, CDD, Stage ingénieur, MOO, BTS)

2022, Hervé ROGISSART  
2021 & 2022, Oscar PEILLEX  
2019 & 2020, Marine GARDILLON  
2008, Anne-Sophie REYMOND  
2004, Romain BIGO et Romain JOOSERAND

2004, Kim DAMEVIN  
2004, Solange DUHAMEL  
2004, Bérengère TITTOT  
2002, Carine MAISONNETTE

### Teaching activities

Since 2020: Scientific diving teacher for the divers of the INRAE diving network I created  
Since 2015, head of the teaching module “lacustrine systems” for the MASTER-2 ECOMONT of University Savoie Mont Blanc, two complete week of teaching) every year  
2021: Teacher at summer school Thonon – bio-indication, INRAE CARRETEL / France  
2019: Teacher at summer school Bourget – ecological surveys, University Savoie / France  
2014: Teacher at summer school Evian – lake ecology, INRA CARRETEL / France

### Organisation of scientific meetings

2002-...: Convenor of the cycle of seminars of the lab. since 2002 (now also via a youtube chanel), CARRETEL, France  
2005: Convenor, 1st European Workshop on Aquatic Phage Ecology / 90 part. / France  
2006: Convenor, 1st national meeting about Lake Bourget / 120 part. / France  
2005-2009: Convenor, aquatic virus network meetings each year for 3 years / 50 part. / France  
2010: Convenor, International days of Limnology / 180 part. / France  
2012-2014-2016-2018-2022-2024: Member of the scientific committee of the International Days of Limnology and Oceanography / 100 part.  
2018: Member of the scientific committee of the International Symposium of big lakes, Evian, 350 part.

### Reviewing activities

2001-...: Regular reviewer for >20 different journals & of scientific proposals for a variety of organisations (e.g. European Science Foundation, National Switzerland Fund, Dutch Research Council, Ministry of Luxembourg, Agence Nationale de la Recherche)  
2010-...: Member of the Editorial Board of *Advances in Oceanography and Limnology*  
2013-...: member of the reviewing Board of *Microbial Ecology*  
2014-...: member of the reviewing Board of *Frontiers in Microbiology*  
2021: Writer of the congress EFFS label and judge of oral and poster presentations at SEFS  
2022-...: Chief Editor of *International Journal of Limnology*

### Membership of scientific societies

2007-...: Associated Member of the French Association of Limnology, vice-president from 2009 to 2019, President from 2020  
2009-...: Associated member of the national committee of scientific diving, repr. INRAE and secretary  
2015-...: Member of the scientific committee of the Museum of Lake Geneva (Nyon, Switzerland), President of the aquarium group  
2017-...: Member of the scientific committee of the Chablais UNESCO Geopark  
2017-...: President of the scientific and ethic committee of the Association Longitude 181  
2017: Co-founder and secretary of the Association Lemman Passion  
2018: Member of the scientific committee of AQUALIS (Aix-les-Bains), of the ecomuseum of Lake Geneva (Thonon)  
2018-...: Member of the international Global *Lake Ecological Observatory Network*  
2018-...: Member of the PHAGE network  
2020-...: Member of the scientific committee des Espaces Naturels de Haute Savoie (natural habitats)  
2021-...: Founder and national representative of the INRAE scientific diving network  
2021-...: Member of the AND'O and restoration networks

### Research grants - past and present funding

2002-2003: Assessing cyanophage diversity in lake / FRM / 10 KE / PI  
2003: Assessing microbial abundances using FCM / INRA & Uds / 55 KE / PI  
2004: Virulake project / EC2CO / 25 KE / co-PI  
2006-...(each year): Ecological monitoring of Lake Bourget / Water agency RMC/ 45 KE / Coordinator  
2007-2008: Parasites of microalgae / Région / 45 KE / co-PI  
2008-2011: Virus-bacteria interactions in aquatic systems / ANR / 100 KE / co-PI  
2009-2011: Ecology of bacteria and viruses / EFPA INRA & Uds / 100 KE / PI  
2013: CARAVIR projet / University Savoie Mont-Blanc / 3 KE / PI  
2014: Picoplanktonic production / University Savoie Mont-Blanc / 2.5 KE / PI  
2015: VIRAGE, Virus characterisation / University Savoie Mont-Blanc / 3 KE / PI  
2017-2021 : C-BALO, University Savoie Mont-Blanc & INRAE / 135 KE / PI  
2019: Sorting cells / CNOC & ANAEE / 140 KE / Coordinator  
2019: MYSILAC et PICOMIL projects / 60 KE / ECLA / PI  
2020: MYSILAC et PICOMIL projects / 22 KE / ECLA / PI  
2021: MYSILAC et PICOMIL projects / 25 KE / ECLA / PI  
2021: FISHING BALO, University Savoie Mont-Blanc / 2.5 KE / PI  
2022: MYSILAC-2 / 65 KE / ECLA / PI  
2023: MYSILAC-3 / 39 KE / ECLA / PI  
2023: INRAE scientific diving network / 3 KE / Convener  
2024: INRAE scientific diving network / 3 KE / Convener  
2024: QUAGRA / CIPEL & AQUA / 22 KE / PI  
2024: QUALACSED / USMB / 8.5 KE / PI  
2024-2026: ACOULAC / 30 KE / PI  
2024-2026: ALGA / Interreg / 550 KE / PI

### Institutional responsibilities

2002-...: Creator and animator of the internal seminar cycle  
2002-2006: Associate member of the scientific committee of the depart. of Ecology at INRA  
2003-2007: Co-animator of a research group at CARRTEL and of the starting lake observatory project  
2006-...: Member of the scientific committee of Lake Bourget  
2009-...: Member of the faculty committee, section of population biology (University Savoie Mont-Blanc)  
2019-...: Repr. of young researchers and research directors at CARRTEL  
2020-...: Co-animator of the research axis BITOIC at CARRTEL  
2020-2024: Member of the scientific committee of the depart. INRAE AQUA and of the evaluation panel board of INRAE  
2021-...: Diving representative for INRAE

### Major collaborations

By past, I had the chance to work with colleagues from a variety of countries (US, UK, Austria, Japan, Norway, Denmark, Monaco, Holland, UK, Israel, Switzerland, Italy, Canada, India, etc...). Only a few names are provided below:

Monaco: C Ferrier-Pagès (coral microbial ecology)

Norway: G Bratbak, F Thingstad, (viral and microbial marine ecology)

Austria: M Weinbauer, P Peduzzi (viral ecology)

Denmark: M Middelboe, H Havskum (microbial and phytoplankton ecology)

Italy: R Danovaro (aquatic viral ecology)

Japan: T Miki, H Yajima (viral ecology or cyanobacterial bloom and modelisation)

Switzerland: M Beniston, B Ibelings (Cyanobacterial bloom and modelisation)

US: WKW Li, M Landry, KM Karl, R Noble, S Wilhelm (aquatic plankton ecology)

UK: W Wilson (aquatic viral ecology)

India: P Ammini (viral diversity)

Canada: C Suttle (aquatic viral ecology), I Laurion (allelopathy)

Israel: E Jurkevitch (predatory bacteria)

### Short overview of publication record

Concerning peer-reviewed articles

From Web of Science: 113 publications; 6175 citations ; h-index = 45

From Frontiers loop: 141 publications ; 1297 views ; I have more publications than 92% of all Loop authors

From Scopus: 128 publications, 6438 citations: h-index = 45

From Google scholar: 123 publications ; 9735 citations ; h-index = 53 ; i10-index = 103

### Selection of 10 publications from recent years

This is a short selection for recent years, all as leader and corresponding author

Rogissart, H., V. Frossard, J. Guillard, C. Rautureau and S. Jacquet. 2024. Tracking the real-time behavior of *Hemimysis anomala*'s winter swarms using acoustic camera. *Journal of Great Lake Research* 50(1):102250

Jacquet, S. 2023. Are warm temperatures the key factor to prevent *Hemimysis anomala* winter swarms in peri-alpine lakes? *Knowledge and Management of Aquatic Environments* 424:14

Ezzedine, J.A., A. Janicot, S. Rasconi, I. Domaizon and S. Jacquet. 2022. Short-term dynamics of *Bdellovibrio* and Like Organisms in Lake Geneva in response to a simulated climatic extreme event. *Microbial Ecology* 84:717–729

Moiron, M., C. Girel, F. Rimet and S. Jacquet. 2021. Die hard in Lake Bourget! The case of *Planktothrix rubescens* reborn. *International Journal of Limnology* 57:19

Ezzedine J.A., L. Jacas, Y. Desdevises and S. Jacquet. 2020. *Bdellovibrio* and like organisms in Lake Geneva: An unseen elephant in the room? *Frontiers in Microbiology* 11 article 80

Derot, J., H. Yajima and S. Jacquet. 2020. Advances in forecasting harmful algal blooms using machine learning models: A case study with *Planktothrix rubescens* in Lake Geneva. *Harmful Algae* 99 article 101906

Ezzedine J.A., L. Jacas, Y. Desdevises and S. Jacquet. 2020. *Bdellovibrio* and like organisms in Lake Geneva: An unseen elephant in the room? *Frontiers in Microbiology* 11 article 80

Zhong, X., C. Suttle, E. Derelle, Y. Desdevises, A.-C. Baudoux, J. Colombet, C. Six and S. Jacquet. 2018. A new freshwater cyanosiphovirus harbouring integrase. *Frontiers in Microbiology* 9 article 2204

Parikka K. J., M. Le Romancer, N. Wauters and S. Jacquet. 2017. Deciphering the virus-to-prokaryote ratio: Insights into the virus-host relationships in a variety of ecosystems. *Biological Reviews* 92:1081-1100

Anneville, O., I. Domaizon, O. Kerimoglu, F. Rimet and S. Jacquet. 2015. Blue-greens in a “greenhouse century”? New insights from field data of climate change impacts on cyanobacterial abundance. *Ecosystems* 18:441-458