

SUZANNE C. MILLS Ph.D., HDR

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POSITIONS AND ACADEMIC QUALIFICATIONS

CURRENT AND PREVIOUS POSITIONS & FELLOWSHIPS

2026-	Deputy Director of CRILOBE
2025-	Full Professor (EPHE) – Octobre 2025
2023-2028	Senior Fellow at the Institut Universitaire of France (IUF).
2006-	Tenured Associate Professor , Ecole Pratique des Hautes Etudes (EPHE).
2002-2006	Post-doctoral fellow (Academy of Finland) at Centre of Excellence, University of Jyväskylä, Finland (Prof. Tapio Mappes) and UC Santa Cruz, USA (Prof. Barry Sinervo).
2001-2002	John and Pamela Salter Trust Post-Doctoral Fellow , University of East Anglia, U.K.
1998-2001	NERC awarded Ph.D. Scholarship , University of East Anglia, U.K.
1997-1998	Research assistant , Ministry of Agriculture, Food and Fisheries (now CEFAS), Lowestoft.

ACADEMIC QUALIFICATIONS

2011	Accreditation as PI of research (HDR) , Ecole Pratique des Hautes Etudes (EPHE) <i>Evolutionary and behavioural ecology: Sexual selection and life-history traits</i>
2001	PhD Evolutionary Ecology. University of East Anglia, U.K. Supervisor: Prof J.D. Reynolds. <i>Evolutionary ecology of the symbiosis between <i>Rhodospirillum rubrum</i>, and unionid mussels</i>
1996	MSc Evolutionary Biology and Ecology, University of Montpellier II, France.
1995	BSc Biological Sciences (2.1) University of East Anglia, Norwich, U.K.
1994	Maîtrise Oceanography (1st) University of Aix-Marseille, Marseille, France.

COLLECTIVE RESPONSABILITIES

COORDINATION OF EPHE TRAINING COURSES INTERNATIONALLY

2024-	Academic coordinator of the Diplôme EPHE in Polynesia: Conservation of Tropical Island Systems between EPHE, University of French Polynesia and University of Berkeley, CA.
2023-	Academic coordinator between EPHE and University of Berkeley, California <i>Weekly meetings with Prof. Hannah Stewart to plan classes and establish the EPHE degree in Polynesia – 4 days per month.</i>
2023-	Academic coordinator between EPHE and James Cook University (JCU), Australia <i>I chair meetings with a committee of 5 representatives from AUFRANDE (EU HORIZON), JCU and external advisors to examine the quality of students, interview them and plan international training sessions – 2 days per month.</i>
2022-	Academic coordinator between EPHE and University of Melbourne, Australia <i>I chair meetings between EPHE and University of Melbourne to evaluate students and plan international training sessions – 2 days per month.</i>
2012-	Academic coordinator ERASMUS between EPHE and University of Ulster, Ireland <i>I am in contact with the University of Ulster to discuss the potential of students wishing to study at CRILOBE, I find them an appropriate researcher, I fill out documents, I complete evaluation forms and I organise training classes – 3 days per month.</i>
2008-2018	Academic coordinator du Partner University Fund between EPHE and University of Florida <i>I am in contact with the University of Florida concerning potential students that wish to come to Moorea, plan training sessions, administrative work for permits and all documents, organize budget - 3 days per month.</i>

SCIENTIFIC RESPONSABILITIES - LEADERSHIP

2023-2028	Elected representative of CRILOBE researchers <i>I represent the researchers present at CRILOBE in Moorea at the Lab Council meetings (11 members in total) which take place every 2 months. I organize meetings prior to and after the Lab Council meetings to keep everyone informed – 2 days per month, 24 days per year.</i>
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- 2019-2023 **Co-coordinator of the Research Axis 2 (1 of 4) within CRIOBE, USR 3278**
 The Challenge of Reef Organisms in the Face of Climate Change
Keeping researchers informed via email, organizing seminars for Axis 2, arranging meals/drinks with guest speakers, suggesting new research directions, proposing budget expenditures, obtaining quotes for a new budget, organizing meetings ahead of deadlines set by major funding agencies, giving presentations twice a year – 2 days per month, 24 days per year.
- 2016-2022 **Uniting Research in Polynesia: CRIOBE Representative for the Jury, RESIPOL:**
 Conferences on Research in French Polynesia and Doctoral Conferences in Polynesia. Participation in meetings in Tahiti – 4 days per year.
- 2010 **Research Team Leader on Hormones and Physiology.** Established a fully equipped laboratory for hormonal analysis and respirometry, including a swim tunnel, 3D video recording, and a shuttle box. *Secured funding and acquired new equipment, maintained all laboratory equipment, and provided training for students, CRIOBE researchers, and visiting external researchers – 1 day per month, 12 days per year.*

EXPERTISE

INTERNATIONAL EXPERTISE, EDITORIAL COMMITTEES, SCIENTIFIC COUNCIL

- 2023-2028 **Senior Fellow at the Institut Universitaire de France (IUF).**
- 2024- **Invited Editor from the Journal of Coral Reefs for a Special Edition on Acanthaster (CoTS)**
- 2017- **European Network (ITN): Hormones and behaviour – Portugal, UK, France and Germany**
- 2012 **Consensus statement** into management of COTS outbreaks on GBR, Fitzroy Island, Australia
- 2011-2020 **United Nations Decade on Biodiversity Ocean Acidification Montreal Canada**
- 2011 **Total Fondation Symposia: Ocean Acidification, Toulon, France**

EXAMINER OF INTERNATIONAL RESEARCH GRANTS AND SCHOLARSHIPS

- 2026 Research funding: **UK Research and Innovation (UKRI)**
- 2022 Research funding: **National Science Foundation (NSF), USA**
- 2019 Professor hiring: **Okinawa Institute of Science and Technology (OIST), Japan**
- 2017 Research funding: **Netherlands Organisation for Scientific Research, (NWO)**
- 2016 Research funding: **LabEx CORAIL**
- 2015 Ethical evaluation of animal care in Research: **Simon Fraser University, Canada**
- 2014 Research funding: **LabEx CORAIL**
- 2013 Research funding: **LabEx CORAIL**
- 2012 Research funding: **Israel Science Foundation (ISF), Israel**
- 2007 Research funding: **Czech Science Foundation (GACR), Republic de Czech**

COMMISSIONS OF TRUST

EDITORIAL ACTIVITIES, RESPONSIBILITIES WITHIN ASSOCIATIONS

- 2022- **Associate Editor** for *Proceedings of the Royal Society B*
- 2009- **Association for Coral Reefs (ACOR):** Elected committee member.
- 2002- **Article Reviewer** 19 journals: *Am Nat, Evolution, Proc Roy Soc, Horm & Beh, Glob Ch Biol...*

CITIZEN SCIENCE

- 2010- **IRCP:** Trained non-scientific teams in conducting fish and benthic transects.
- 2007-2013 **Planete Urgence:** Led volunteers in coral reef conservation at CRIOBE.
- 2002-2004 **Earthwatch :** Led a team of volunteers in flamingo conservation in Kenya.

WORKSHOP ORGANISER

- 2026 **Co-organiser,** Microbiome Workshop (3 days), CRIOBE/GUMP, Moorea.
- 2012 **Co-organiser,** Workshop (5 days), GUMP, Moorea.
Anthropogenic stress on coral reefs. Partner University Fund (PUF) funded (15k€).
- 2010 **Co-organiser,** Workshop (4 days), CRIOBE, Moorea.
Crown-of thorns outbreak. Integrated activities for academics and public. PUF funded (12k€).

PARTICIPATION IN THESIS AND HDR JURIES

Degree	Year	Candidate	Hosting University	Jury role
Promotion	2026	Stefano Mona	EPHE	Examiner
Individual bonus	2024	Aur�lie Goutte	EPHE	Examiner
	2026	Stefano Mona	EPHE	Examiner
HDR	2019	Aur�lie Goutte	EPHE	Examiner
PhD	2026	Jann Zwahlen	OIST, Japan	Examiner
	2025	Megha Khanduri	University of Helsinki	Examiner
	2025	Josie Chandler	James Cook University	Examiner
	2025	Carl Santiago	Brisbane University	Examiner
	2021	Thomas Hue	University of New Caledonia	Examiner
	2020	Alice Rouan	Universit� C�te d'Azur	Examiner
	2015	Mike Gil	University of Florida	Examiner
	2015	Alyson Pavitt	University of Edinburgh	Examiner
	2014	Alexandre Martin	Universit� de Sherbrooke	Examiner
Dipl�me EPHE	2007	Benoit Diringier	EPHE	Examiner
MSc	2022	Pauline Buso	TULIP, Toulouse, France	Examiner
	2022	Nicolas Burkhardt	TULIP, Toulouse, France	Examiner
	2022	Arnaud Boisdron	TULIP, Toulouse, France	Examiner
	2022	Emma Couranjou	TULIP, Toulouse, France	Examiner
	2019	Fanny Alberto	Universit� de Perpignan, France	Examiner
	2018	Matthew Smith	University of Exeter, U.K.	Examiner
	2016	Emily Armstrong	University of Exeter, U.K.	Examiner
	2016	Lauren Fear	University of Bristol, U.K.	Examiner
	2017	Eugenie Brutus	GEODE UMR 5602, France	Examiner

STUDENT SUPERVISION

ACADEMIC OR EDUCATIONAL MENTOR

2025-2027	Master 1 & 2 SdV B&E:	Louisa Hervieu
2025-	Mentoring Women in Science PhD PSL:	Laura Nardelli
2024-2026	Master 1 & 2 SdV B&E:	Hel�ise Gauthier
2023-	Mentoring Women in Science PhD PSL:	Marie Loescher
2019-2021	Master 1 & 2 SdV B&E:	Sacha Mesquich
2018-2019	Master 2 SdV B&E:	Baptiste Chaigneau
2017-2019	Master 1 & 2 SdV B&E:	Sophie Ighiouer
2017-2018	Master 2 SdV B&E:	Carl Grellet-Munoz

STUDENT SUPERVISION OVERVIEW (*see full list below*)

5 Post-docs: 5 previous postdocs (4 of which now hold academic positions).

4 visiting Post-docs: 4 previously visiting post-docs.

11 PhDs: 6 current PhD students. 8 previous PhD students.

12 visiting PhDs: Official host of students with grants from NSERC (2025); Global Seeds Fund (2024); Chateau Briand (2011 & 2013); l'Institute for Pacific Coral Reefs Research (2017); Association for the Study of Animal Behaviour (2017); Company of Biologists (2025 & 2017); Fisheries Society of the British Isles (2016).

1 EPHE Diploma: 1 current Diploma.

45 Yr 2 Masters: 2 current students. 37 previous students.

9 Yr 1 Masters: None currently, 7 previously.

22 BSc or ERASMUS BSc: None currently, 21 previously.

Quality of my scientific supervision: 67 of my 99 publications are with my students. **25** with post-docs, **50** with PhD students, **11** with Masters, **3** with ERASMUS and **5** with technicians.

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

Degree	Year	Name	University or Grant	Subject
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Post-Doc (5)	2023-2025	Lucy Gorman	LabEx CORAIL et ATER, EPHE	Toxicity of coral venom in controlling CoTS feeding preferences
	2018-2021	Jennifer Pistevos	ATER, EPHE et LabEx CORAIL	Ecosystem effects of climate change
	2016-2017	Rael Horwitz	TOTAL Foundation	Transgenerational and developmental acclimation to ocean acidification
	2015-2016	Gerrit Nanninga	ANR Blanc, CNRS,	Do parental effects determine dispersal trajectories in coral reef fish larvae?
	2012-2019	Ricardo Beldade	LabEx CORAIL et ANR Blanc	Maternal effects on the larval dispersal of the clownfish, <i>Amphiprion chrysopterus</i>
Boursiers - Visiting Post-Doc (4)	2022-2024	Rachael Morgan	University of Bergen, Norway	Physiological effects of hypoxia on coral reef fish
	2022-2025	Andrea Campos-Candela	University of Bergen, Norway	Behavioural effects of hypoxia on coral reef fish
	2016	Sue-Ann Watson	IRCP bourse, James Cook University	Behavioural effects of marine invertebrates to ocean acidification
	2016	Tommy Norin	ANR Blanc, University of Glasgow	Effects of bleaching on clownfish metabolism
PhD (13)	2026-2029	Gabin Fournier	ANR	The gut microbiota's potential in organismal resilience to environmental change
	2026-2029	Antoine Jeandin	ANR	The gut microbiota's potential in organismal resilience to environmental change
	2026-2029	Antoine Bouché	ANR	Characterising fish behaviours for AI and virtual reality
	2025-2028	Fiona Leroy	HORIZON CNRS-University Wellington	Venom toxicity as a coral defence
	2025-2028	Tânia Marquês	Fundação para a Ciência e Tecnologia Portugal	Cleaning mutualisms in the Anthropocene: effects of Artificial Light and Noise Pollution
	2023-2027	Erin Campbell-Hooper	HORIZON CNRS-University Melbourne	Fitness consequences of phenotypic plasticity
	2022-2026	Thibaut Roost	HORIZON CNRS-University Melbourne	Individual and community impacts of ALAN on coral reef fish
	2021-2025	Jules Schligler	Bourse EPHE	Ecophysiological and evolutionary effects of artificial light at night on coral reef communities
	2017-2021	Daphne Cortese	ANR Blanc	Parental and environmental determinants of larval dispersal in a coral reef fish
	2012-2016	Louis Bornancin	Bourse UPVD	Role of secondary metabolites of two marine cyanobacteria in the coral reef
	2008-2012	Matthieu Leray	Université Pierre et Marie Curie	Evolutionary ecology of species interactions on coral reefs
	2007-2011	Mika Mokkonen	Academy of Finland, University of Jyväskylä	Evolutionary conflicts in a small mammal: behavioural, physiological and genetic
	2002-2010	Tanja Puttonen	Academy of Finland, University of Jyväskylä	Selection on the behavioural and life-history tactics in populations of a small mammal
	2026	Beatriz Perreira	University of Lisbon, Portugal	Cleaner wrasse behaviour under climate change stressors
	2026	Davide Bottacini	Wageningen University, Netherlands	Using VR to understand lionfish-prey interactions
	2025	Irene Moro Martínez	IRFAP-LIMIA, Spain	Correlating metabolic and endocrine phenotypes with behavioural syndromes
	2025	Heather Reid	University of Trent, Canada	Physiological thermoregulation in coral reef fish
	2024	Izzy Tiddy	Global Seed Funds PSL - University of Glasgow	Impacts of ALAN on predator responses using Virtual Reality
	2024	Alexander Rosen	Technical University of Denmark, Denmark	Scaling of metabolism with size in clownfish

Boursiers – Visiting PhD (13)	2023	Marie Levet	RSE Saltire – University of Montreal	Behavioural thermoregulation of social coral reef fish
	2021	Emma Weschke	FSBI, University of Bristol	<i>Nighttime behaviour of coral reef fish</i>
	2021	Ben Williams	FSBI, University of Bristol	Monitoring the impact of ALAN on the reef soundscape
	2016-2018	Isla Davidson	FSBI, University of Exeter	Alarm calling in the orange fin clownfish, <i>Amphiprion chrysopterus</i>
	2017	José Paula	Company of Biologists – Universidade Lisboa	GABAergic role in the disruption of wild cleaner fish behaviour under high CO ₂
	2016-2017	Theresa Rueger	Fisheries Society British Isles (FSBI)	Sexual selection in pajama cardinalfish
	2013-2015	Mike Gil	Chateau Briand – University of Florida	Anthropogenic effects on species interactions in marine ecosystems
	2012-2016	Sophie Nedelec	Chateau Briand – University of Bristol	Impacts of boat noise on coral reef fish
Diplôme de l'EPHE-PSL	2023-	Elise Smaguine	Hôpital de Tahiti	Testing the social brain hypothesis in a reef fish
	2025-2026	Nicolai Christensen	University of Denmark	Impacts of marine heatwaves on prey responses to predators
	2025-2026	Emil Rasmussen	University of Denmark	Impacts of marine heatwaves on fish metabolism
	2025-2026	William Himmelstrup	University of Denmark	Impacts of marine heatwaves on fish metabolism
	2024-2025	Fiona Leroy	University of Perpignan	Coral venom toxicity
	2024-2025	Megan McBride	Queen's University Belfast, Ireland	Correlating metabolic and endocrine phenotypes with behavioural syndromes
	2024-2025	Moeata Thomas	EPHE	Behavioural effects of hypoxia on coral reef fish
	2023-2024	Ashlynn White	University of Glasgow	Impact of temperature on <i>Drupella spp.</i> metabolism
	2023-2024	Pieter Reisenkamp	University of Groningen	Thermal physiology and behavioural thermoregulation
	2022-2023	Samantha Bonny	University of Groningen	Tropical larval fish swimming abilities as a proxy for ocean dispersal
	2022-2023	Jade Hargous	TULIP Toulouse	Impacts of ALAN on early developmental stages of <i>Amphiprion chrysopterus</i>
	2022-2023	Suzanne Raqbi	IMBRA Sea	Metabolic scaling with fish size
	2021-2022	Sara Bruns	University of Utrecht	Clownfish behavioural syndromes
	2021-2022	Claire Boitel	PSL-EPHE	Impact of ALAN on settlement and post-settlement survival
	2020-2021	Jo-Ann Schies	La Rochelle University	Impact of ALAN on adult clownfish reproductive traits
	2020-2021	Thibaut Roost	La Rochelle University	Impact of ALAN on clownfish larval traits associated with dispersal
	2019-2021	Isla Hely	University of Exeter	Determining behavioural syndromes of fish vocalisations
	2019-2020	Tara Cousins	University of Ulster	Larval fish behavioural syndromes
	2019-2020	Jules Schligler	Sorbonne University	Impact of ALAN on clownfish reproduction
	2019-2020	Loann Brozzetti	Universidade do Algarve	Impact of ALAN on clownfish larval dispersal
	2018-2019	Ignacio Pita	ENSAT	Clownfish larval dispersal
	2018-2019	Lisa Macera	Sorbonne University	Ecosystem effects of climate change
	2018-2019	Camille Vizon	University of Perpignan	Impact of ALAN on clownfish reproduction

MSc 2 (45)	2018-2019	Marie-Louise Elian	Sorbonne University	Impact of ALAN on clownfish larval dispersal
	2017-2018	Sam Manning	University of Amsterdam	Heritability of fish behavioural syndromes
	2017-2018	Thomas Cartier	Ecole Normale Supérieure	Ecosystem effects of climate change
	2017-2018	Linda Salvaneski	Université Paris VI	Ecosystem effects of climate change
	2017-2018	Clara Diaz	Université Paris VI	Phenotypic plasticity and parental effects
	2017-2018	Maire Derrien	Université Paris VI	Cyanobacterial-coral interactions under climate change
	2017-2018	Emma Weschke	University of Exeter	Impacts of boat noise on the coral fish community
	2016-2018	Isla Davidson	University of Exeter	Alarm calling in the orangefin clownfish, <i>Amphiprion chrysopterus</i>
	2016-2017	Daphne Cortese	EPHE	Parental and environmental determinants of larval dispersal
	2015-2016	Oscar Prado-Merini	Université Polynésie française	Chemical communication in a marine mollusc
	2015-2016	Agathe Blandin	EPHE	Maternal stress in the orangefin clownfish, <i>Amphiprion chrysopterus</i>
	2015-2016	Thibault Tamin	Université Paris VI	Adult personalities of the orangefin clownfish, <i>Amphiprion chrysopterus</i>
	2013-2014	Florian Weill	SVT EPHE	Transgenerational acclimation of sea hares to ocean acidification
	2013-2014	Laura Dufranc	SVT EPHE	Connectivity of shrimps symbiotic with anemones in French Polynesia
	2012-2013	Anne Ly Bach	Université de la Réunion	Multiple stressor effects on coral recovery
	2012-2013	Silvan Goldenberg	University of Ghent	Effects of sedimentation and nutrient enrichment on coral recovery
	2011-2012	Jean-Baptiste Juhel	Université Montpellier II	Effects of sedimentation on coral reef ecosystem resilience
	2008-2009	Maxime Beraud	Université Montpellier II	Impact of <i>Acanthaster planci</i> on crustacean decapod communities
	2008-2009	Martin Ubertini	Université Paris VI	Larval recruitment of the economically important pearl oyster, <i>Pinctada margaritifera</i>
	2007-2008	Alexandre Zvara	Université de Lyon	Understanding environmental effects on recruitment of benthic invertebrates
	2007-2008	Laurent Burgy	Université de Pau	Coral reef degradation on the recruitment success of crustacean and molluscan larvae
MSc 1 (9)	2025-2026	Maylis Bonet	Le Mans Université	Comparing two methods to measure MMR
	2024-2025	Heloise Gauthier	EPHE	Cold stress response in anemones
	2023-2024	Celine Bernard	AgroParisTech	Thermal physiology and behavioural thermoregulation
	2023-2024	Moeata Thomas	EPHE	Impact of ALAN on adult clownfish reproductive behaviour
	2023-2024	Lise Van Espen	University of Mons	Impact of ALAN on adult clownfish reproductive behaviour
	2018-2019	Anne Albers	University Applied Science	Ecosystem effects of climate change
	2017-2018	Charlotte Jauliac	EPHE	Parental effects: the role of parental size in determining larval traits in anemonefish
	2015-2016	Lauriane Derrien	Université Littoral d'Opale DEUST	Rearing larvae of the orangefin clownfish, <i>Amphiprion chrysopterus</i>
	2014-2015	Agathe Blandin	Université Paris VI	Parental phenotype of the orangefin clownfish, <i>Amphiprion chrysopterus</i>
	2025-2026	Flora Andersen	University of Denmark	Understanding triggerfish spawning
	2023-2024	Samantha Vera	Université Montpellier	L3 – Biologie, Ecologie

BSc
(22)

TEACHING ACTIVITIES

2025-	EPHE Diploma creator and coordinator: Conservation of Tropical Island Systems between EPHE, University of French Polynesia and University of Berkeley, CA.				
2006-present	MSc Life Sciences (SVT) EPHE <u>Master 1 & 2 SVT EPHE</u> : Biodiversity and Environmental Management Option Module Leader “Scientific English” (30 students) Module “Biodiversity, Evolution, Ecology and conservation of coral organisms” (28 students)				
2014-present	MSc Life Sciences (SVT) EPHE <u>Master 1 & 2 SVT EPHE – Long distance</u> : All classes are followed on the internet Module “The role of endocrinology in coping with environmental change” (30 students)				
2013-present	MSc Université de Polynésie française (UPF) <u>Master 2 UPE</u> : Oceanic Island Environments Option Module “Biodiversity, Biology, Ecology and conservation of coral organisms” (15 students)				
2006-present	MSc Université de Perpignan (UPVD) <u>Master 2 UPVD</u> Biodiversity and Sustainable Development Professional Option (40 students) <u>Master 2 UPVD</u> The Aquatic Environment Professional Option (35 students) <u>Master 1 UPVD</u> Biology, Chemistry and the Environment Option (35 students) <i>Sustainability Development: MPAs</i> <i>Bioerosion on the coral reef</i> <i>Effects of climate change on coral reef organisms</i> <i>Benthic Invertebrates</i> <i>Anthropogenic effects on coral reef organisms</i> <i>Aquaculture</i> <i>Immunology of Marine Invertebrates</i> <i>Alternative reproductive strategies</i> <i>Reproduction and recruitment of coral organisms</i> <i>Sexual selection</i>				
2014-	French coordinator of an ERASMUS exchange: 9-month teaching and research program				
2006-2011	Partner University Fund Doctoral student teaching (EPHE & University of Florida) Co-coordinator of a PhD and MSc field teaching programme on Coral Reef Biology				
2002-2006	MSc University of Jyväskylä, Finland <u>Masters in Evolutionary Biology (20 students)</u> : <i>Maintenance of additive genetic variance</i> <i>Phenotypic plasticity</i> <i>Co-evolution</i>				
1998-2001	University of East Anglia, Norwich, U.K. <u>B.Sc. in Biological Sciences</u> : <i>Evolutionary Biology</i> <i>Biodiversity</i> <i>Statistics</i> <i>Fisheries</i> <i>Freshwater Biology</i>				

CURRENT TEACHING

Institution (EPHE, PSL)	Degree or other	Semester	Course title	Type of teaching	Hours per yr
EPHE Diploma in Polynesia	Responsable: Created an EPHE Diploma adaption for French Polynesia. Created a 2 week course and opened up Masters courses given by EPHE, Université de Polynésie and UCSC, Berkeley				
Master SdV de PSL, EPHE IMaGHE <i>Biodiversity and Environnement</i>	M1	1	Filmed a MANEA : Coral Reef Ecosystems	MOOC	3
		2	Responsible of the course Scientific English	TD et TP	45
	M2	1	Coral reefs of tomorrow	TD et TP	40
			MANEA : Biodiversity, ecology, fisheries and coral reef conservation	MOOC	3
Master UC Berkeley Island Sustainability Program	M1 / M2	2	ISPM 109 UC Berkeley Responsible of the course “Biodiversity”	TD et TP	43.5
Schoolchildren aged 12-16 in Moorea, (Afareitu, Pao Pao)	High school		Biodiversity and global climate change	TD et TP	12

MISC**MEMBERSHIP OF SCIENTIFIC SOCIETIES**

Association for the Study of Animal Behaviour (1998-), Fisheries Society of the British Isles (2000-), European Society for Evolutionary Biology (2003-), International Society for Reef Studies (2006-).

MAJOR COLLABORATIONS

Ongoing external collaborations include those with researchers in the UK: Denmark: Dr. Tommy Norin; Portugal: Dr. José Paula; New Zealand: Prof. Jeff Shima; Prof Andy Radford, Prof Steve Simpson, Dr Shaun Killen; Norway: Dr. Fredrik Jutfelt; USA: Prof Giacomo Bernardi, Dr. Graham Raby, Prof Barry Sinervo, Prof Donald Miles; Australia: Prof Stephen Swearer, Dr. Jenni Donelson; Canada: Prof Isabelle Côté; and France: Prof Jean Clobert.

PRIZES

2025	Toa Reef: Citizen Science Award IFRECOR – French Polynesia
2018	Coral competition: Underwater Light Sensor (LUX), GPS and logger Skye Instruments, UK
2002	Poster Prize: Highly commended British Ecological Society Winter meeting – Coventry, U.K.
2001	Anne Keymer Prize: Highly Commended Student Talk British Ecological Society Winter meeting – Birmingham, U.K.
1998	NERC Research Studentship , for PhD studies [Competitively awarded].

ETHICS

2024-	ANZCCART ComPass Animal Welfare Training: Phase 1 Core training certificate
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RESEARCH FUNDING**Total >3.5 million € as PI or Co-PI****>1.4 million € as PI**

2026-2030	National Research Agency (ANR) France-Switzerland (Coll) BrAInVR “Leveraging generative AI to identify and probe naturalistic complex behaviors in Virtual Reality ”	1 500, 000 €
2026-2029	National Research Agency (ANR) Blanc (PI) GUTPOWER “GUT instincts: the microbiota’s POfential in organismal Resilience to environmental change”	950, 435 €
2024-2027	AUFRANDE – the AUstralia FRAnce Network of Doctoral Excellence (Co-PI) Co-funded by the European Union - Marie Skłodowska-Curie Grant (101081465) “Intergenerational plasticity of coral reef fish to environmental stressors”	140, 000 €
2024-2025	Laboratoire d'Excellence (LABEX) “CORAIL” Post-Doctoral grant (PI) Acantacorvenin “Role of coral venom in determining COTS feeding preferences”	34, 000 €

2023-2028	IUF grant (Recipient)	75, 000 €
	Physiological, behavioural and life-history trait phenotypes and environmental changes	
2023-2026	Pacific Funds 2023/2024 (PI)	71, 000 €
	COTSPacific “COTS outbreaks in French Polynesia, genetics and immunity”	
2023-2024	Global Seed Funds (PI)	10, 000 €
	TPref “Impacts of coral bleaching on behavioural thermoregulation”	
2022-2025	HORIZON EUROPE CNRS 80 Prime (INTERNATIONALE 2022) (Co-PI)	250, 000 €
	ALaNoR “Artificial Light at Night on Reefs”	
2022-2024	Pacific Funds 2020 (Co-PI)	47, 500 €
	“Replenishment of coral reef fish populations”	
2022-2027	Recherche et Innovation Partenariat Public Privé RIP⁴ 2021-2024 (PI)	130, 000 €
	RAISING NEMO “Sustainable rearing of juvenile clownfish to restore the reef”	
2022-2024	Pacific Funds 2020 (PI)	70, 000 €
	BLEACHALAN “Impacts of bleaching & ALAN on host anemones and associated anemonefish”	
2022-2024	RSE International Collaboration Awards (Co-PI)	25, 000 €
	“Effects of multiple anthropogenic stressors on metabolism and settlement choice in reef fish”	
2022-2023	Prince Albert II Foundation research grant (PI)	43, 000 €
	HOPE TO COPE “Coping with climate change”	
2020-2021	Haut-Commissariat de la République en Polynésie française (PI)	9, 600 €
	BLEACH&ALAN “Impacts of bleaching and ALAN on anemones and their symbionts”	
2019-2021	Laboratoire d'Excellence (LABEX) “CORAIL” Post-Doctoral grant (PI)	100,000 €
	Transgenerational acclimation to ocean acidification and elevated temperature	
2018-2020	AMI Iles Eparses (INEE) research trip (Co-PI)	40,000 €
	HOPE TO COPE “Coping with climate change: from individual to population responses”	
2017-2021	Fondation pour la Recherche sur la Biodiversité (FRB) (PI)	90,000 €
	ECOSYSTEM “Ecosystem impact: Cyanobacteria, sequesters of CO ₂ ”	
2017-2019	Fondation TOTAL research grant (PI)	150,000 €
	ECOSYSTEM “Accumulated impacts of ocean acidification and elevated temperature on the structure and functioning of a coral socio-ecosystem”	
2017-2019	CNRS PICS: Cooperation between France and the United Kingdom (PI)	20,000 €
	BANOFI “BoAtNOiseFish: Direct and indirect effects of boat noise on reef fish larval traits”	
2017-2018	Laboratoire d'Excellence (LABEX) “CORAIL” Projet incitatif grant (PI)	15,500 €
	ACIDINTERACT “Effect of ocean acidification on the interaction between coral-cyanobacteria”	
2016-2017	Laboratoire d'Excellence (LABEX) “CORAIL” Post-Doctoral grant (PI)	45,000 €
	ACCLIMACID “Acclimation to ocean acidification and increased temperature”	
2016	Institute for Pacific Coral Reefs Research & Travel grant: Sue-Ann Watson (Host)	4,000 €
2016	Association for the Study of Animal Behaviour grant: Theresa Rueger (Host)	5,000 €
2015-2021	National Research Agency (ANR) Blanc (PI)	899,000 €
	Should I stay or should I go? Phenotypic and environmental determinants of dispersal	
2014-2015	Laboratoire d'Excellence (LABEX) “CORAIL” Projet incitatif grant (Co-PI)	25,000 €
	DYNACANTH “Understanding and controlling outbreaks of <i>Acanthaster planci</i> ”	
2013	ChateauBriand Fellowship (USA-France) for joint PhD studentship (Host)	8,000 €
	Effect of multiple stressors on coral recruitment and regeneration	
2012-2015	National Research Agency (ANR) Young Researchers (PI)	260,000 €
	Live and Let Die: Global and regional changes and effects on coral reef biodiversity	
2012-2013	Laboratoire d'Excellence (LABEX) “CORAIL” Post-Doctoral grant (PI)	45,000 €
	Maternal effects on the larval dispersal of clownfish, <i>Amphiprion chrysopterus</i>	
2011-2013	AMI Iles Eparses (INEE) research trip (Co-PI)	43,500 €
	Effect of coral bleaching on fish stress hormones in the Mozambique Channel	
2008-2010	OCEAN BRIDGES II (Co-PI)	240,000 \$
	Florida-France training & research cooperative in coral reef health, dynamics and conservation	
2007	Research grant from the Association for the Study of Animal Behaviour (PI)	£ 5000
	Evolutionary conflicts in a group-living shrimp in association with an asteroid	
2006-2009	National Research Agency (ANR) Young Researchers (Co-PI)	120,000 €
2003-2007	Academy of Finland Post-Doctoral Researcher (PI)	236,000 €
	Sexual conflict, sexually antagonistic genes and maintenance of genetic variation	

2002-2004	EARTHWATCH Principal Investigator (Co-PI)	£ 80,000
	Conservation of the lesser flamingo, <i>Phoeniconaias minor</i> , Lake Bogoria, Kenya	
2002	Travel Grant from the Association for the Study of Animal Behaviour (Recipient)	£ 5,000
	ISBE 9 th Congress 2002, Montreal, Canada	
2002	Post-Doctoral Grant: John and Pamela Salter Trust Fund (Recipient)	£ 10,000
	Genetics of bitterling populations, University of East Anglia, U.K.	
1998-2001	Natural Environment Research Council (NERC) PhD Studentship (Recipient)	£ 72,000
	School of Biological Sciences, University of East Anglia, U.K.	

DISSEMINATION

OUTREACH & EDUCATION PROGRAMS

Public Outreach

2024	“Raising Nemo” Semaine de l’océan <i>Manava Beach Resort & Spa, Moorea, French Polynesia.</i>
2024	“Gestion des Acanthaster”. <i>Mairie de Manihi, French Polynesia.</i>
2021	“Coping with climate change”. <i>Moorea, French Polynesia.</i>
2011	“Climate change and stress”. <i>Marion Dufresne, La Reunion.</i>
2009	“Pearl oyster recruitment dynamics”. <i>Rangiroa, French Polynesia.</i>
2008	“The use of artificial odours to re-populate the ocean”. <i>Tahiti, French Polynesia.</i>

Scientific Outreach Activities in Schools and Other Institutions

2024	Middle School de Mataura, Tubuai “Why we need to restore coral reefs” (10 November 2024).
2024	Ecole Raiarii Tane de Tautira, Tahiti “Why we need to restore coral reefs” (23 January 2024).
2021	Fête de la Science 2021 à CRIOBE “Comprendre l’impact de la pollution lumineuse sur les poissons clowns” (20 November 2021).
2019	Fête de la Science 2019 à l’Observatoire de Banyuls « Les récifs coralliens d’aujourd’hui...et demain ? » (14 octobre 2019).
2018	Journée de Portes Ouvertes au Lycées de Moorea. Quels seront les impacts de l’acidification des océans et l’augmentation de la températures sur les récifs coralliens? (15th March 2018).
2018	Matinée avec les collégiens de Paopao : "qui mange qui". (21st March 2018).
2018	Fête de la Science à l’Université de Perpignan Via Domitia « Le CRIOBE avec Tara Pacifique » et « L’acidification des océans » (11 – 13 octobre 2018).
2017	Fête de la Science à l’Université de Perpignan Via Domitia « Le CRIOBE avec Tara Pacifique » et « L’acidification des océans » (12 – 14 octobre 2017)
2012-	Teach School Biology classes (15-16 yrs) at <i>Canet Rosa Luxemburg High School, France.</i>
2010-	National Science Festival, Perpignan, France and Moorea, French Polynesia.

INVITED TALKS EXCLUDING CONFERENCES (inviting researcher in parentheses)

International workshops

2024	Conférences de la Recherche en Polynésie Française (Dr. Vaimiti Dubousquet)
2023	Le Paris des Récifs (Prof. Serge Planes)
2022	French Embassy-Scotland exchange – Multiple stressors on metabolism (Prof. Lorna Hughes)
2021	Annual Meeting of EFOR – Marine Metazoan Model Species (Dr. Eric Röttinger)
2020	Conférences de la Recherche en Polynésie Française (Prof. Nabila Gaertner-Mazouni)
2017	Early Career Researchers (ECRN) & Speed Dating event, University of Exeter (Dr. Rob Ellis)
2015	LabEx Workshop, Paris, France (Prof. Serge Planes)
2012	COTS Workshop, Fitzroy Island, Cairns, Australia (Prof. Peter Doherty)
2010	GEI & Sexual Selection Workshop, University of Exeter, Falmouth (Profs. J. Hunt, D. Hosken)
2001	Biological Sciences Colloquium, University of East Anglia, U.K. (Prof. Isabelle Côté)

Institutional and Departmental Seminars

2021	Joint ANU & UoM Seminar - Topic: Marine threats (Prof. Michael Jennions)
2018	Journée scientifique SVT EPHE : Des milieux et des hommes (Prof. François Jouen)
2016	University of Glasgow, Scotland (Prof. Shaun Killen)
2015	University of Georgia, Athens, USA (Prof. Craig Osenberg)
2015	University of Florida, USA (Dr. Mike Gil)
2013	Université de Sherbrooke, Quebec (Prof. Marco Festa-Bianchet)
2009	Service de la Perliculture, Rangiroa, French Polynesia
2008	Institut pour la Recherche de la Développement (IRD) Papeete, French Polynesia
2007	Krakow University, Poland (Prof. Jacek Radwan)

2004 Turku University, Finland (Dr. Otso Huitu)

Scientific Advisory Board Meetings

2017 HCERES Board Meeting, Moorea, French Polynesia (Prof. Serge Planes)
 2013 AERES Board Meeting, Moorea, French Polynesia (Prof. Serge Planes)
 2004 Scientific Advisory Board Meeting, Lieksa, Finland (Prof. Rauno Alatalo)
 2002 Scientific Advisory Board Meeting, University of Jyväskylä, Finland (Prof. Rauno Alatalo)

PRESENTATIONS AT INTERNATIONAL CONFERENCES OVERVIEW

Oral presentations: **38** from 1998-2024 Poster presentations: **40** from 2001-2024

MEDIA COVERAGE OVERVIEW

1 short film: Turning Tides

4 television interviews: Jeff Corwin, Ocean Treks (USA), France TV (France), Ushuaia TV (Polynésie)

2 podcasts: Fête de la Science (France), BBC World Service, Science in Action (Royaume-Uni)

2 radio interviews: Radio France Inter (France), Radio BBC 5 Live (Royaume-Uni)

7 outreach articles: La Dépêche (Polynésie), Exotics Keeper (U.K.), Le mag'UPVD (France)

12 articles de journaux : Courier International (France), La Dépêche (Polynésie), Tahiti Infos (Polynésie), Le Parisien (France), Le Monde (France), Daily Telegraph (U.K.), Science et Avenir (France)

MEDIA COVERAGE (Film, Television, Radio, Newspaper and Web articles)

Short films

2023 Turning Tides | Hearing from scientists on the front lines *16th October*.
<https://www.youtube.com/watch?v=BDdVQHgVbV4>

Television

2018 Jeff Corwin, Ocean Treks ABC "Conserving coral reefs by studying clownfish" *October*.
 2018 France TV, Polynésie première "Artificial night light pollution on Nemo" *23th August*.
 2017 Ushuaia TV & Polynésie première "CRIOBE and environmental changes" *11th October*.
 2015 Ushuaia TV & Polynésie première Dir Grangette "Tahiti, le corail fait de la résistance" *30 Nov*.

Podcast

2021 Fête de la Science "Comprendre l'impact de la pollution lumineuse sur les poissons clowns" *Nov*.
 2017 BBC World Service, Science in Action "Sex-changing clownfish" *20th July*.

Radio

2017 "Le poisson-clown n'est plus à la fête" Radio France Inter, *11th October*.
 2017 "Disproving Find Nemo plot line" Radio BBC 5 Live, *16th July*.

Outreach articles

2021 "Le vrai monde de Nemo" La Dépêche *4th November*
 2021 "Le CRIOBE fête aussi les 50ans de son réseau de surveillance des récifs coralliens" La Dépêche *24th September*
 2021 "Le monde de Nemo" La Dépêche *4th November*
 2021 "Finding the real Nemo" Exotics Keeper Magazine, UK *February edition*
 2021 "Le CRIOBE célèbre les femmes" La Depeche *11th February*.
 2015 "Les effets du changement climatique sur la biodiversité et la résilience des récifs coralliens" *Le mag' UPVD Hors-série 6 p20-21*
 2015 "30 ans de suivi des récifs coralliens en Polynésie française: exemple de changement à Mataiva" *Le mag' UPVD Hors-série 5 p14-15*

Newspaper

2020 "À cause des bateaux à moteur, le monde de Nemo ne sera plus jamais le même" Courier International *9th April*.
 2018 "Le réchauffement climatique et ses conséquences sur le corail" La Dépêche *14th February*.
 2018 "La pollution lumineuse et son impact sur les poissons du lagon" La Depeche *27th August*.
 2018 "La reproduction des poissons perturbée par la pollution lumineuse?" Tahiti Infos *24th August*.
 2017 "Nemo a trop chaud" Le Parisien *11th October*.
 2017 "Climat: Nemo, stressé par le blanchiment de son anémone, pond moins" AFP *11th October*.
 2017 "L'anémone pâlit, Nemo dépérit" Le Monde *18th October*.
 2017 "Fishy: How Disney got Finding Nemo wrong" *Daily Telegraph p3, 15th July*.
 2016 "Recherche scientifique sur les récifs coralliens" La Dépêche.
 2015 "Les récifs coralliens sauvés par du vinaigre et du citron?" *Science et Avenir*.

2011 “La science met le cap sur les Iles Eparses.” *Science et Avenir*. p8-14.

2008 “Des odeurs artificielles pour repeupler l’océan.” *La Depeche*, Tahiti. p30.

Web papers

2025 “Feeding sharks for tourism may be harming their health and reproduction” *Forbes* 4th March

2025 “Feeding sharks ‘junk food’ takes a toll on their health” *Science News* 30th January

2025 “Reef sharks in French Polynesia suffer health consequences from feeding by tourists” *Gadgets* 360 3rd February

2023 “Poissons, coraux, huîtres... la pollution lumineuse cause des dégâts irréversibles sur la vie sous-marine” *Océans Connectés* 28th September.

2021 “Clownfish on coastal reefs dying faster from exposure to artificial light” *The Guardian* 9th June.

2021 “Young Clownfish Likely to Die Faster When Exposed to Artificial Light” *Ecowatch* 14th June.

2021 “Artificial light at night is dangerous for coral reef fish” *Massive Science* 12th July.

2021 “Clownfish living closest to the shore die FASTER than those further out” *Newscabal* 9th June.

2021 “Lighting Nemo”: Why Clownfish Need Their Sleep?” *Pontificia UC de Chile* 14th June 2021.

2021 “Iluminación de Nemo: los juveniles necesitan su sueño” *ECIM* 25th June 2021.

2021 “Long-term exposure to artificial light at night in the wild decreases survival and growth of a coral reef fish” *EMFSA* 12th June 2021.

2021 “Artificial light harming clownfish” *EurekAlert* 9th June 2021.

2021 “Clownfish metabolism slows if homes damaged by climate change” *Mail Online* 12th January.

2021 “Clownfish metabolism slows when coral homes damaged by climate change” *Aol* 11th January.

2021 “The metabolism of clownfish decreases by climate change” *Phys Org* 12th January.

2020 “It might be the world's biggest ocean, but the Pacific is in peril” *Beijing Bulletin* 6th Dec.

2020 “¿Qué le ocurre al Pacífico? El océano más grande del mundo está en peligro” *The Conversation* 11th December.

2020 “Vexing Nemo: Motorboat noise makes clownfish stressed & aggressive” *Phys Org* 12th January.

2019 “Elevated temperature, not acidification, reduces giant clam fertilization” *OA-ICC* 9th December.

2018 “Clownfish need more energy to live in a bleached home” *New York Times* 11th April.

2018 “Nemo’s cousin stressed out by bleaching” *Scimex* 11th April.

2017 “Finding Nemo could be harder due to global warming” *USA TODAY* 10th October.

2017 “Warming oceans may make Nemo harder to find” *National Geographic* 10th October.

2017 “When anemones bleach, clownfish suffer” *Scienmag* 10th October.

2017 “El pez “Nemo”, en peligro por el cambio” *El Mundo* 10th October.

2017 “When anemones bleach, clownfish suffer” *Eurekalert* 10th October.

2017 “When anemones bleach, clownfish suffer” *Phys Org* 10th October.

2017 “A clownfish can take on a shark, but this predicament may prove harder to handle” *Popular Science* 11th October.

2017 “温暖化でストレス、「ニモ」ピンチ? The Asahi Shimbun 11th October.

2017 “Nemo, stressé par le blanchiment de son anémone, pond moins” *Science & Avenir* 10th October.

2017 “Buscar a “Nemo” sera cada vez más difícil en océanos calientes” *Agencia SINC* 11th October.

2017 “La fécondité des poisson-clowns est impactée par le blanchissement” *Environnement Magazine* 11th October.

2017 “Les poissons clown, comme Nemo, sont en voie de disparition” *Grazia* 11th October.

2017 “Finding Nemo? We may be losing him, says climate study” *The Guardian* 12th October.

2017 “Hledá se Nemo? Můžeme ho spíše ztratit, říká vědci” *Lidovky* 12th October.

2017 “Finding Nemo is getting harder” *The Daily Mail* 13th October.

2017 “[위클리마켓] 바닷물 뜨거워지니 '니모 사촌' 위기” *Yon Hap News* 21st October.

2017 “Le poisson-clown pourrait-il disparaître avec le réchauffement ?” *Le Monde* 24th October.

2017 “Boat-noise-disrupts-fish-cooperation” *Science Mag* 1st August.

2017 “Ocean-racket-makes-rascally-wrasses” *Hakai Magazine* 4th August.

2017 “Nemo’s father would have changed sex after his mother was eaten” *Daily Telegraph online*.

2017 “Clownfish males become fierce females if their “wife” is eaten” *University of Exeter online*.

2015 “Boating noise negatively affects marine species: Sea hares” *Reefnation*

2014 “Sea hares die off due to boat noise” *Nature World News*

2014 “Boat noise impacts development and survival of sea hares” *Bio-Medecine.org*

2011 “Macho versus meek: Both work for voles.” *Today’s Science*. Facts on file news services.

- 2011 “Battle of the Sexes: Traits that help one sex but hurt the other are not sufficient for maintaining genetic variation.” *The Scientist*.
- 2011 “How both macho and meek persist.” *Science News*

PUBLICATION OVERVIEW

I have published 103 papers: 23 as 1st author, 33 as last/senior author, 11 as 2nd author, including 1 in *Science*, 2 in *Nature Communications*, 1 in *Natural Products Report*, 8 in *Proceedings of the Royal Society London B*, 4 in *Evolution*, 4 in *American Naturalist*, 3 in *Environmental Pollution*, 3 in *Functional Ecology*, 2 in *Global Change Biology* and 1 in *Animal Ecology*. Average impact factor = 4.5. These have attracted 7000 citations and one paper in the TOP 100 in *Ecology* in 2020. I have also published 5 peer-reviewed book chapters. **7000 citations, h-index = 41, i10-index = 72.**

Book chapters:

- Gorman, L.M., Byrne, M., Beldade, R., Adjeroud, M., Dumas, P., **Mills, S.C. 2025.** The use of new biologically based technological development in the management of crown of thorns sea stars. In: “Future challenges in coral reef research” Springer: Coral Reefs of the World
- Dubé, C.E., Pogoreutz, C., Reverter, M., Boitel, C., **Mills, S.C.**, Aqua, A., Hédouin, L. & Brahmi, C. **2025.** Coral reef bleaching: current knowledge, challenges, and future directions into the Anthropocene. In: “Future challenges in coral reef research” Springer: Coral Reefs of the World
- Beldade, R., Bernardi, G., & **Mills, S. C. 2022.** Anemonefish behavior and reproduction. In V. Laudet & T. Ravasi (Eds.), *Evolution, development and ecology of anemonefishes: Model organisms for marine science* (pp. 129–142). Boca Raton, FL: CRC Press.
- Lecchini, D., **Mills, S.C.**, & Beldade, R. **2016.** Reproduction and Larval recruitment in Damselfishes. In: *Biology of Damselfishes Ed.: Frédérick, B., Parmentier, E.* CRC Press, New York. ISBN: 9781315373874. doi: 10.1201/9781315373874
- Mills, S.C.**, Mokkonen, M., Koskela, E. & Mappes, T. **2014** GEIs and reliable signaling of male quality in bank voles. In: *Genotype-by-Environment Interactions and Sexual Selection Eds.: Hunt, J. & Hosken, D.* Wiley Blackwell, Oxford. ISBN: 978-0-470-67179-5

Relevant publications under subject themes:

Phenotypically plastic responses to global change or anthropogenic stressors and fitness consequences:

- Schligler, J., Roost, T., Schies, J-A., McBride, M., Swearer, S.E., Beldade, R. & **Mills, S.C. 2026.** *Artificial light at night* impacts multiple fitness traits in wild adult fish and intergenerational effects on offspring. *Proceedings of the Royal Society of London B* 293: 2064 (IF = 3.9).
- Roost, T., Hargous, J., van Espen, L., Schligler, J., Killen, S.S., Beldade, R., Swearer, S.E. & **Mills, S.C. 2025.** *Artificial light at night (ALAN)* during early development in the wild directly affects embryonic but not larval quality in a coral reef fish. *Conservation Physiology* 13(1), coaf041. (IF = 3.25).
- Schligler, J., Cortese, D., Beldade, R., Swearer, S. & **Mills, S.C. 2021** Long-term exposure to *artificial light at night (ALAN)* in the wild decreases growth and survival of a coral reef fish. *Proceedings of the Royal Society of London B* 288: 20210454 (IF = 4.823)
- Mills, S. C.**, Planes, S. & Mourier, J. **2024.** *Shark-feeding* affects health and female reproductive potential in blacktip reef sharks from French Polynesia. *Animal Conservation*. 28(4), 474-489 (IF = 3.4).
- Cortese, D., Crespel, A., **Mills, S. C.**, Norin, T., Killen, S. S., & Beldade, R. **2022.** Adaptive effects of parental and developmental *environments* on offspring survival, growth and phenotype. *Functional Ecology*, 36(12), 2983-2994 (IF = 5.037).
- Cortese, D., Diaz, C., Beldade, R., Killen, S., Scholz, Z. & **Mills, S.C. 2024.** Environmental change mediates plasticity in offspring traits through maternal effects in a coral reef fish
- Fakan, E.P. McCormick, M.I., Dubuc, A., Motti, C.A., **Mills, S.C.**, Berumen, M.L., Hoey, A.S. **2026** *Coral bleaching* impacts cortisol levels of coral reef fishes *Coral Reefs* (IF = 3.3)
- Raby, G.D., De Bonville, J., Reynolds, L., Storm, Z., Cowan, Z-L., Metz, M., Andreassen, A.H., Pfeufer, L., Lechner, E.R., Stewart, E.M.C., Leeuwis, R.H.J., Ern, R., Silva-Garay, L., Skeeles, M.R., Roche, D.G., Morgan, R., Green, L., Speers-Roesch, B., **Mills, S.C.**, Clark, T.D. & Jutfelt, F. **2025.** Oxygen supersaturation has negligible effects on *warming* tolerance across diverse aquatic ectotherms. *PLOS Biology* 23(11), e3003413 (IF = 7.2).
- Clerissi, C., Mejait, A., Haguénauer, A., Jobet, E., Titus, B., Beldade, R. & **Mills, S.C. 2025.** Microbiota of host sea anemones and their associated anemonefish show contrasting responses to a *bleaching* event. *Coral Reefs*, 1-14 (IF = 3.3)

- Cortese, D., Norin, T., Beldade, R., Crespel, A., Killen, S., & **Mills, S.C.** 2021 Physiological and behavioural effects of **anemone bleaching** on symbiont anemonefish in the wild. *Functional Ecology* 35: 663-674 (IF = 5.037).
- Norin, T., **Mills, S.C.**, Killen, S. & Beldade, R. 2018. **Anemone bleaching** increases the metabolic demands of symbiont anemonefish. *Proceedings of the Royal Society of Lond B* 285: 20180282 (IF = 4.823).
- Beldade, R., Blandin, A., O'Donnell, R. & **Mills, S.C.** 2017 Cascading fitness effects of **anemone bleaching** on associated anemonefish hormones and reproduction. *Nature Communications* 8: 716 (IF = 12.12).
- Mills, S.C.**, Beldade, R., Chabanet, P., Bigot, L., O'Donnell, J. & Bernardi, G. 2015. Ghosts of thermal past: reef fish exposed to historic **high temperatures** have heightened stress response to further stressors. *Coral Reefs* 34: 1255-1260 (IF = 3.88).
- Minier, L., Bertucci, F., Gay, T., Chamot, Z., Turco, T., Schligler, J., **Mills, S.C.**, Vidal, M., Parmentier, E., Sturny, V., Mathhevon, N., Beauchaud, M., Lecchini, D. & Médoc, V. 2024. Behavioural response to **boat noise** weakens the strength of a trophic link in coral reefs. *Environmental Pollution* 361, 124770 (IF = 7.6).
- Mills, S.C.**, Beldade, R., Henry, L., Lavery, D., Nedelec, S.L., Simpson, S.D., & Radford, A.N. 2020. Hormonal and behavioural effects of **motorboat noise** on wild coral reef fish. *Environmental Pollution* 262: 114250 (IF = 5.714).
- Nedelec, S.L., **Mills, S.C.**, Nedelec, B., Lecchini, D., Simpson, S.D. & Radford, A.N. 2016 Repeated exposure to **noise** increases tolerance in a coral reef fish. *Environmental Pollution* 216: 428-436 (IF = 4.84).
- Nedelec, S.L., Radford, A.N., Simpson, S.D., Nedelec, B., Lecchini, D. & **Mills, S.C.** 2014 **Anthropogenic noise** playback impairs embryonic development and increases mortality in a marine invertebrate. *Scientific Reports* 4: 5891 (IF = 4.259).

Community impacts to global change and anthropogenic stressors:

- Schligler, J., McBride, M.**, Salvi, P., Carpentier, C., Guillaume, T., Beldade, R. & **Mills, S.C.** 2026 **Coral degradation** alters the community diversity and stability of coral-dwelling assemblages following recruitment. *Marine Ecology Progress Series*, 780, 1-10 (IF = 2.5; Q1).
- Schligler, J., Boitel, C., Norin, T. McBride, M., Morat, F., Killen, S.S., Gorman, L., Swearer, S.E., Beldade, R. & **Mills, S.C.** 2026. **Light pollution** acts as an ecological trap: fish larvae settle more into harmful habitats. *Global Change Biology* 32: 1 (IF = 12).
- Weschke, E., Schligler, J., Hely, I., Roost, T., Schies, J-A., Williams, B., Dworzanski, B., **Mills, S.C.**, Beldade, R., Simpson, S.D. & Radford, A.N. 2024. **Artificial light** increases nighttime prevalence of predatory fishes, altering community composition on coral reefs. *Global Change Biology* 30(12), e70002 (IF = 10.8).

Phenotypically plastic responses in chemical communication and reproduction to warming and acidification:

- Armstrong, E.J., Dubousquet, V., **Mills, S.C.** & Stillman, J.H. 2020. Elevated temperature, but not acidification, reduces fertilization success in the small giant clam, *Tridacna maxima*. *Marine Biology* 167: 8 (IF = 2.22).
- Horwitz, R., Norin, T., Watson, S-A., Beldade R., Hacquart, S., Gattuso, J-P., Rodolfo-Metalpa, R., Vidal-Dupiol, J., Killen, S. & **Mills, S.C.** 2020. Near-future ocean warming and acidification alter foraging behaviour, locomotion and metabolic rate in a keystone marine mollusc. *Scientific Reports* 10: 5461. (IF = 4.122). ***TOP 100 in Ecology in 2020**
- Armstrong, E.J., Allen, T., Beltrand, M., Dubousquet, V., Stillman, J.H. & **Mills, S.C.** 2017 High pCO₂ and elevated temperature reduce survival and alter development in early life-stages of the tropical sea hare, *Stylocheilus striatus*. *Marine Biology* 164: 107 (IF = 2.375).
- Darcel, L., Raviglione, D., Bonnard, I., **Mills, S.C.**, Banaigs, B., Saez-Vasquez, J. & Inguibert, N. 2021 Detoxification of non-ribosomal cyclolipopeptides by a D-peptidase in a marine mollusk: A threat for the future of lipopeptide antibiotics? *Journal of Medicinal Chemistry* 64: 6198–6208 (IF = 6.205).
- Bornancin, L., Bonnard, I., **Mills, S.C.** & Banaigs, B. 2017 Chemical mediation as a structuring element in marine gastropod predator-prey interactions. *Natural Products Report* 34: 644-676 (IF = 10.98).

Cleanerfish-client interactions:

- Paula JR, Cascalheira L, Oliveira R, Otjacques E, Frazão-Santos C, Beldade R, **Mills SC**, & Rosa R. 2023. GABAergic role in the disruption of wild cleaner fish behaviour under high CO₂. *Animal Behaviour*. 2023 Jan 1;195:77-84 (IF = 3.39).
- Côté, I.M. & **Mills, S.C.** 2020 Degrees of honesty: Cleaning by the redlip cleaner wrasse *Labroides rubrolabiatus* *Coral Reefs* 39: 1693-1701 (IF = 3.09).

Nedelec, S.L., **Mills, S.C.**, Radford, A.N., Beldade, R., Simpson, S.D., Nedelec, B. & Côté, I. **2017** Motorboat noise disrupts co-operative interspecific interactions. *Scientific Reports* 7: 6987. (IF = 4.259).

Mills, S.C. & Côté, I. **2010** Crime and punishment in a roaming cleaner fish *Proceedings of the Royal Society of London B* **277**(1700): 3617-3622. (IF = 5.68).
