

# Curriculum Vitae for Chris Bowler

## Current positions:

- President of Stazione Zoologica Anton Dohrn, Napoli
- Directeur de Recherche (classe exceptionnelle) at CNRS and Head of Plant and Algal Genomics Laboratory at the Institut de Biologie de l'Ecole normale supérieure (IBENS), Paris

- Scientific Director of *Tara Oceans*

URL for web site: <http://www.ibens.ens.fr/spip.php?rubrique36>

ORCID: 0000-0003-3835-6187

## Education and qualifications:

- 1987 – 1990 PhD thesis at the Laboratorium Genetika (Profs. M. Van Montagu and Dirk Inzé), Universiteit Gent, Gent (Belgium). Title of thesis: A study of the role of superoxide dismutase in plants
- 1983 – 1986 University of Warwick, Coventry (UK) Degree: B.Sc. (Hons) Class 2 Division 1 in Microbiology and Microbial Technology

## Career overview:

- 2022 – date President of Stazione Zoologica Anton Dohrn, Napoli
- 2003 – date Directeur de Recherche (Director of Research) at CNRS and Head of Plant and Algal Genomics Lab at the Institut de Biologie de l'Ecole normale supérieure (IBENS), Paris, France
- 2020-2021 Professor at the Collège de France (Paris, France), appointed the Annual Chair in 'Biodiversité et Ecosystèmes'
- 2016-2017 Grass Fellow at the Radcliffe Institute for Advanced Study, Harvard University, USA
- 1998 – 2002 "Primo Ricercatore" (Assoc. Prof.) at the Stazione Zoologica 'Anton Dohrn,' Naples (Italy)
- 1994 – 1998 Marie Curie Fellow at the Stazione Zoologica 'Anton Dohrn,' Naples (Italy)
- 1991 – 1993 Postdoctoral Research with Prof. N.-H. Chua, Rockefeller University, New York (USA)

## Honours:

- Professor at the Collège de France in 2020 and 2021
- ERC Advanced Awards in 2012 and 2018
- Elected to French Academy of Agriculture in 2018
- Grand Prix Scientifique from the Louis D Foundation (Institut de France) in 2015
- CNRS Silver Medal in 2010
- EMBO member since 1995

## Publications:

> 300 articles in peer-reviewed journals, > 50,000 citations. h-index 101

## Five major papers:

- Bowler, C., et al. The Phaeodactylum genome reveals the evolutionary history of diatom genomes. **Nature**, 456: 239-244 (2008).
- Allen, A. E., et al. Evolution and metabolic significance of the urea cycle in photosynthetic diatoms. **Nature** 473: 203-207 (2011).
- Villar, E., et al. Environmental characteristics of Agulhas rings affect interocean plankton transport. **Science** 348: 1261447 (2015).
- Bailleul, B., et al. Energetic coupling between plastids and mitochondria drives CO<sub>2</sub> assimilation in diatoms. **Nature** 524: 366-369 (2015).
- Ibarbalz, F. M., et al. Global trends of marine plankton diversity across kingdoms of life. **Cell** 179:1084-1097 (2019).

Organisation of international conferences (last 10 years):

- May 2018 Exploratory Seminar on ‘Ancient DNA from the seafloor to predict the fate of plankton in a future ocean – Challenges and opportunities in paleogenomics’ at the Radcliffe Institute of Advanced Study at Harvard University, USA
- January 2016 EMBO/EMBL Symposium entitled A New Age of Discovery for Aquatic Microeukaryotes, Heidelberg, Germany
- May 2015 Jacques Monod Conference on Marine Eco-Systems Biology, Roscoff, France
- June 2015 PSL-Pew Trust Scientific Forum ‘What Future for our Ocean?’ Paris, France
- June 2013 EMBO Workshop entitled The Molecular Life of Diatoms, Paris, France
- June 2010 ANR ‘atelier de reflexion’ on Fisheries Management and Ecosystem Modelling in a Changing Ocean, Mayotte

Commissions of trust (last 10 years):

- Since 2021 Scientific Director of *Tara* Oceans
- Since 2019 President of the Scientific Board of Tara Ocean Foundation (<https://oceans.taraexpeditions.org/en/m/about-tara/>)
- Since 2014 Member of Scientific Committee of Ocean and Climate Platform (<http://www.ocean-climate.org/?lang=en>)
- Since 2013 Member of Scientific Committee of IFREMER, the French state organization for research in oceanography
- Since 2013 Member of Advisory Panel for European Bioinformatics Institute (Hinxton, UK) Metagenomics Portal
- 2022 Chair of Scientific Academic Advisory Committee for Dept. of Plant and Environmental Sciences, Weizmann Institute, Rehovot, Israel
- 2020-2022 Member of Scientific Committee of the Stazione Zoologica Anton Dohrn, Naples, Italy
- 2018-2020 Deputy Director of CNRS Research Federation for the study of Global Ocean Systems Ecology and Evolution
- 2015-2019 Member of Scientific Committee of Tara Expeditions Foundation
- 2012-2018 Member of Scientific Board of Observatoire Océanologique de Villefranche-sur-Mer, France
- 2008-2020 One of the scientific coordinators of *Tara* Oceans (<https://www.embl.de/tara-oceans/start/>)
- 2015-2016 Executive Professor at Tokyo University of Agriculture and Technology, Japan
- 2013-2015 Visiting Professorship for Senior International Scientists, Chinese Academy of Sciences, China

Editorial Board Member of **Science** (since 2013) and **Protist** (since 2017). Was previously Board Member for **EMBO Journal** (2000-2020), **EMBO reports** (2002-2010), **J. Phycology** (2002-2014), **Marine Biotechnology** (2000-2012), **Marine Ecology** (2009-2012), **Marine Genomics** (2009-2019), **Plant Cell** (2005-2014), **Plant Journal** (2000-2004), and **Scientific Data** (2014-2018).