

# Curriculum Vitae for Chris Bowler

## Current position:

Directeur de Recherche (classe exceptionnelle) at CNRS and Head of Plant and Algal Genomics Laboratory at the Institut de Biologie de l'École normale supérieure (IBENS), Paris.

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:

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'École 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:

> 250 articles in peer-reviewed journals, > 20,000 citations. h-index 77

## 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 2020 Member of Scientific Committee of the Stazione Zoologica Anton Dohrn, Naples, Italy
- 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
- 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* project (<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).