PERSONAL PROFILE

VINCENZA CINZIA VERDE

Parco Caruso, Via Miliscola 133, 80078 Arco Felice, Pozzuoli (NA)
081 6132710 3279836787
c.verde@ibp.cnr.it; cinzia.verde@ibbr.cnr.it; c.verde@pec.it
www.ibbr.cnr.it

Sex: F | Date of birth: 16/04/1962 | Nationality: Italian

ROLE IN THE INSTITUTION

Senior Scientist, National Research Council (CNR), Institute of Biosciences and BioResources (IBBR), Naples, Italy

QUALIFICATION

1987: Degree in Biological Science with maximum rating and cum laude, University of Naples Federico II

PROFESSIONAL BACKGROUND

Verde is a marine biochemist. Her research is focused on studying the molecular basis of cold adaptation of oxygen-binding proteins in bacteria and fish. The results of this study are summarised in **128** publications (**40** as corresponding author in ISI journals), in highly qualified international journals and book chapters, as well as invitations to contribute to prestigious Encyclopaedias.

Invited Co-author of each section of the 526-pp SCAR (Scientific Committee for Antarctic Research) 2009 Report 'Antarctic Climate Change and the Environment (ACCE)', with 410 citations (2018 Google Scholar), SCAR Scott Polar Research Institute, Cambridge, UK. www.scar.org. Updates to the ACCE Report are presented annually to the Antarctic Treaty Consultative Meeting.

Member of the Planning, Advisory and Scientific Group of the SCAR programme Antarctic Ecosystem: Adaptation, Thresholds and Resilience (AnT-ERA).

1988

Qualified as "Entitled to perform the profession of Biologist". Registry No. 16402 of the Bureau of Examinations of the State, University of Naples Federico II

1989 (Jan-June)

Visiting Scientist" Department of Pathology, WHO, Immunology Research and Training Centre (Switzerland), Project "Production of Monoclonal Antibodies Against Ribonuclease".
- Fellowship: Federation of European Biochemical Societies (FEBS). Approval letter of C. Gancedo, Chair of "FEBS Fellowships Committee, 26th December 1988.
- Fellowship: Società Italiana di Biochimica (SIB). Approval letter of SIB Fellowships Committee

1997-2001

Health-Care Charge of Managing Executive of the 1st level (former X level), Health Care Dept of Laboratory Medicine (Prof F. Salvatore, Director), Policlinical Organisation, University of Naples Federico II (Certificate No. 64 in the registry of document release of the University Federico II, Policlinical Organisation, 09/08/2000, according to the Law No. 370, 23/08/1988). Protocol No. 6868, 23/10/1997. Resolutions of the General Director, No. 2649, 29/05/1997; and No. 2905, 13/06/1997

2001-2010

2003-2004	CNR Researcher and Group Leader of the Project “Globins”, Institute of Protein Biochemistry (CNR-IBP), Naples, Italy Visiting Scientist”, Northeastern University, Department of Biology, Boston, USA (CNR fellowship, “Short-Term Mobility”, 2004). Project: “Erythropoiesis”.
2010-present	CNR Senior Researcher and Group Leader of the Project “Globins” CNR-IBBR, Naples, Italy
2016	In 2016, SCAR achieved the publication of Verde's biography and CV in Wikipedia in recognition of her achievements in science, in particular protein structure and function <https://en.wikipedia.org/wiki/Cinzia_Verde>https://en.wikipedia.org/wiki/Cinzia_Verde

EDUCATION

1981	Classical High School Degree with maximum rating
1987	Degree in Biological Science with maximum rating and *cum laude*, University of Naples Federico II
1988	Qualified as “Entitled to perform the profession of Biologist”. Registry No. 16402 of the Bureau of Examinations of the State, University of Naples Federico II
2014	Fully qualified for the position of Associate Professor in General Biochemistry and Clinical Biochemistry 05/E1 (Abilitazione nazionale Bando 2012 (DD n. 222/2012) (from 16.06.2014 to 10.04.2020).
2015	Fully qualified for the position of Full Professor in General Biochemistry and Clinical Biochemistry 05/E1 (Abilitazione nazionale Bando 2013 (DD n.161/2013) (from 10.04.2015 to 10.04.2021).

1.1. HONOURS, LEADERSHIP/SERVICE

2018:	**2018: Member** of the National Advisory Board of Extremophiles 2018, Ischia (Italy) 16-20 September 2018 **2018: Member** of the Scientific Committee *XX International Conference on Dioxygen Binding and Sensing Proteins*, Barcelona (Spain) 3-7 September 2018
2016:	**2016: Member** of the Committee for the public selection of a Researcher in Functional Genomics of Marine Organisms (Stazione Zoologica Anton Dohrn, *Bando* n. 12 2016) **2016: Member** of the Scientific Committee *XIXth International Conference on Dioxygen Binding and Sensing Proteins*, Hamburg (UK) 11-14 September 2016 **2016: Research Fellow** Stazione Zoologica A. Dohrn, Naples, Italy
2014:	**2014: Member** of the Scientific Committee of the AnT-ERA Workshop on *Molecular and genetic advances to understanding evolution and biodiversity in the polar regions -The legacy of EBA*, IBBR, Naples. **2-3 October 2014**

2014: Member of the Scientific Committee of the *XVIII^{lth} International Conference on Dioxygen Binding and Sensing Proteins*, Manchester (UK) **6-10 July 2014**

2012: **2012: Research Fellow** Dept of Biology, Roma Tre University, Rome, Italy. Decision taken in the Faculty Meeting of 30.05.2012

2012: Member of the Scientific Committee of the *XVIIth International Conference on Dioxygen Binding and Sensing Proteins*, Parma (Italy) **29 August-1 September**

2012-present: Member of the Planning and Scientific Group of SCAR Programme: *Antarctic Thresholds - Ecosystem Resilience and Adaptation (AnT-ERA)* http://www.scar.org/antera/antera-about

2011: **2011: Member** of the Scientific Committee of *CAREX Conference on Life in Extreme Environments*, Dublin (Ireland) **18-20 October 2011**

2010: **2010: Member** of the Scientific Committee of the Workshop *Polar Marine and Lacustrine Organisms: Gene and Protein Evolution in a Changing Environment,* in the framework of the SCAR Programme *Evolution and Biodiversity in the Antarctic - The Response of Life to Change (EBA)* IBP, Naples. **24-25 May 2010**

2010: Member of the Scientific Committee of the *XVIth International Conference on Dioxygen Binding and Sensing Proteins*, Antwerp (Belgium) **22-26 August 2010**

2009: **2009: Expert of Marine Biology** in the *Working Group 3: Environmental change and marine ecosystems. Marine observatories and ecosystem time series.* Svalbard Integrated Arctic Earth Observing System (SIOS). SIOS: a Collaborative Project and Coordination and Support Actions for Construction of New Infrastructures - Preparatory Phase - funded by EU under INFRA-2010-2.2.3

2008: **2008: Member** of the Scientific Committee of the *XV International Conference on Dioxygen Binding and Sensing Proteins*, Aarhus (Denmark). **17-21 August 2008**

2008: Member of the Scientific Committee of the Workshop "*The Polar and Alpine Environments: Molecular and Evolutionary Adaptations in Prokaryotic and Eukaryotic Organisms*", IBP, Naples. **29-30 May 2008**

2008: Associate Partner in "CAREX" (Coordination Action for Research Activities on Life in Extreme Environments) FP7 call ENV.2007.2.2.1.6

2007: **2007: Head of the Research Area** "Polar Biology" (TA. P02.021.001, Department of Earth and Environment (DTA), CNR: "*Life and adaptations in polar environments*"

2006: **2006-present: Invited Member and Participant**, **TUNU-Mafig** (TUNU = *East Greenland*; MAFIG = *MArine FIshes of N.E. Greenland*), "Lead Project" of IPY

2006-2012: Invited Member and Participant, **EBA** (*Evolution and Biodiversity in the Antarctic: the Response of Life to Change*), *Scientific Committee on Antarctic Research* (SCAR)

2006-2012: Member of "SCAR-IPY *ad hoc* Steering Committee for Marine Biology"

2006: Member of the Scientific Committee of the *XIVth International Conference on Dioxygen Binding and Sensing Proteins,* Naples, (Italy). **3-7 September 2006**

2001: **2001:** Vice-President of the CNR Network of Polar Research "Polarnet"

2001: Coordinator of the Whole Sector Biological Sciences (PNRA) in Italy for the Theme:

"Molecular bases of cold adaptation in Antarctic and Arctic organisms", Project "*Physiological, biochemical and molecular bases of evolutionary adaptation in teleosts*". Prot. N. 815. Ministero dell'Istruzione, dell'Università e della Ricerca. Commissione Scientifica Nazionale per l'Antartide.

Protocol Numbers do not exist for many of the services cited in the biography, because they have not been registered with such numbers.

1.2. EDITORIAL ACTIVITY

2018: **2018: Guest Editor** of the Special issue, Cardio-respiratory adaptations to environmental changes (Berenbrink M, Detrich W, Peck L, Verde C eds), Marine Genomics journal

2016: **2016-present:** Member of the Editorial Board of *Biodiversity* ***Journal of Life on Earth*** (Taylor & Francis) http://www.tandfonline.com/loi/tbid20?open=12#vol_12 Published by Biodiversity Conservancy http://www.biodiversityconservancy.org/and Taylor & Francis Journals

2016: Guest Editor of the Special issue, Marine Genomics "Navigating the Future: Cross Sector Marine Genomics" (Labes A, Reich M, Giuliano L, Verde C eds) http://www.journals.elsevier.com/marine-genomics/news/call-for-papers-navigating-the-future-cross-sector-marine-ge/

2016: Guest Editor of the Special issue**,** Marine Genomics "**Genome-powered perspectives in integrative physiology and evolutionary biology**" (Berenbrink M, Cossins A, Verde C, eds)

2016: Guest Editor of the Special issue**, Biodiversity-*Journal of Life on Earth*** "Evolution and Biodiversity in Polar Regions - Molecular and Genetic Advances" (di Prisco G, Giordano D, Gutt J, Verde C, eds)

2015: **2015: Guest Editor of the Special issue**, **Marine Genomics** "The Marine Genome: Structure, Regulation and Evolution" (Danovaro R, Costantini M, Verde C, eds)

2012: **2012: Guest Editor of the Special issue**, **Marine Genomics** "Molecular and genetic advances to understanding evolution and biodiversity in the polar regions" (Verde C, di Prisco G, Convey P, eds)

2012: Editor From Pole to Pole, Adaptation and evolution in marine environments. A book series on the scientific achievements of environmental research during the International Polar Year (IPY), C. Verde and G. di Prisco, eds, Vol 2, 239 pp. Springer

2012: Editor From Pole to Pole, Adaptation and evolution in marine environments. A book series on the scientific achievements of environmental research during the International Polar Year (IPY), G. di Prisco and C. Verde, eds, Vol 1, 222 pp. Springer

2011: **2011: Guest Editor** of the *Oecologia Australis* Special issue *Antarctic-South American interactions in the marine environment* (ASAI) Campos L, Bassoi M, Verde C, Gutt J, eds, Vol 15: 40-50. **ISSN**: 21776199

2009: **2009: Editor of a Special issue of *Marine Genomics*** devoted to the Workshop "*The Polar and Alpine Environments: Molecular and Evolutionary Adaptations in Prokaryotic and Eukaryotic Organisms*" (G. di Prisco, P. Luporini, L. Tutino, C. Verde, eds), Elsevier. Vol 2, Issue 1, pp 1-80 (March 2009). Vol 2, Issue 2, pp 81-148 (June 2009)

2008: **2008-Present: Managing Editor of *Marine Genomics* (Elsevier)**

2008: Editor, "Dioxygen Binding and Sensing Proteins", Protein Reviews Series (M

Bolognesi, G di Prisco, C Verde eds), Springer

2007: **2007: Editor of a Special Issue of *Gene*, devoted to the "*XIVth International Conference on Dioxygen Binding and Sensing Proteins*"** (L Moens, M Bolognesi, G di Prisco, C Verde eds), Elsevier. **Vol 398, Issues 1-2, pp 1-248**

(There are no Protocol Numbers for many of these services, because they have not been registered with such numbers. Autocertification always applies)

1.3. REVIEWING

Reviewer of over **100** articles for top-level journals in marine biology and biochemistry

2014: **2014: Reviewer** of the Project Pegasus- Short application to the Research Foundation Flanders-FWO. Structural and functional investigations into a tRNA-modifying enzyme complex tuned by GTP hydrolysis, A Pica, Coordinator

2014: Reviewer of the Project NSF MCB/1112/1413141/, National Science Foundation Proposal: **1341661** *Collaborative Research: Causes of parallel molecular evolution: insights from protein engineering* Prof Jay Storz

2013: **2013: Reviewer** of the SCAR fellowship applications

2013: Reviewer of the Project NSF 13-527, National Science Foundation Proposal: **1341661** *Phylogenomic study of adaptive radiation in Antarctic fishes*, Prof Thomas Near

2013: Reviewer of the Project P 26465-B25, Biological and Medical Sciences Austrian Science Fund Proposal **1341661** *Evolutionary dynamics of Eocene Antarctic cartilaginous fishes*, Prof Jürgen Kriwet

2013: Reviewer of the Project 14-27546S Czech Science Foundation Proposal *Prokaryotic community composition of soils of the James Ross Island, Antarctica - a potential pool for biotechnology*, Prof Ivo Sedlàček

2012: **2012: Reviewer** of the Project 5111, National Science Foundation Proposal: 1246181 Collaborative Research: *Phylogenomics and the adaptive radiation of Antarctic notothenioid fishes (Teleostei: Percomorpha)*, Prof Thomas Near

2012: Reviewer of the Project 09-612, National Science Foundation Proposal:1204260 *Synthesis of genomic, structural biology, and molecular physiological analyses to understand adaptive mtDNA variation in polar species*, Dr Michael Garvin

2011: **2011: Reviewer** of the Project "Hemoglobin layered nanoparticles", ASTRID 2011, *Agence National de la Recherche* (ANR), France, Coordinator: Prof. Michael Marden

2011: Reviewer of the Project "New tools and directions for the understanding of the effect of environmental changes on fish physiology", *Agence National de la Recherche* (ANR), France, Programme for Post-docs

2010: **2010: Reviewer** of the Project *"Phylogeny of the Cumacea (Crustacea) and the evolution of cumacen hemocyanin"* **RE 3160/1-1-**DFG-Erstantrag (11.05.2010). DFG Deutsche Forschungsgemeinschaft (*German Research Foundation*) Coordinator: Dr. Peter Rehm

2008: **2008: Present Reviewer** of the *National Science Foundation* for Polar Research

2008: Reviewer, Project 0839007, National Science Foundation, Proposal:08-535

"Antarctic organisms and ecosystems", Coordinator: Prof. Thomas Near

2.1. ORGANISATION OF CONFERENCES

2018: **2018: Organiser of the Session Cardio-Respiratory Adaptations to Environmental Change, Society of Experimental Biology Annual Meeting Florence (Italy)** 3-6 July 2018**. Co-Organisers: M. Berenbrink** & **C. Verde. Funded by the Society.**

2017: **2017: Organiser of the International Debate,** *Festival della Scienza*: Life at sea ice/water contact: what we may lose, Genova (Italy) **26 October-5 November 2017**. **Funded by the *Festival della Scienza***

2014: **2014: Organiser of** the AnT-ERA Workshop on *Molecular and genetic advances to understanding evolution and biodiversity in the polar regions - The legacy of EBA*, IBBR, Naples. **2-3 October 2014**

2011: **2011: Chair and Organiser Side-Meeting Event Advances on Evolution and Biodiversity in Marine Antarctic Environment,** *World Conference on Marine Biodiversity*, Aberdeen (Scotland) **26-30 September**

2011: Organiser of the International Debate, *Festival della Scienza*: Un secolo dopo le imprese di Amundsen e Scott: il ruolo dell'Antartide nel Sistema Terra, Genova (Italy) **21 October-2 November 2011**. **Funded by the *Festival della Scienza***

2010: **2010: Organiser** of the Workshop *Polar Marine and Lacustrine Organisms: Gene and Protein Evolution in a Changing Environment,* in the framework of the *SCAR Programme SCAR, IPY, Evolution and Biodiversity in the Antarctic. The Response of Life to Change (EBA)* IBP, Naples (Italy) **24-25 May 2010**

2008: **2008: Organiser** of the International Debate, *Festival della Scienza*: Evoluzione e adattamenti molecolari negli ambienti polari, Genova (Italy). **23 October-4 November 2008. Funded by the *Festival della Scienza***

2008: Organiser of the Workshop "*The Polar and Alpine Environments: Molecular and Evolutionary Adaptations in Prokaryotic and Eukaryotic Organisms*", IBP-CNR, Naples. **29-30 May 2008**

2006: **2006: Organiser** of the "*XIVth International Conference on Dioxygen Binding and Sensing Proteins*", Stazione Zoologica Anton Dohrn, Naples (Italy). **3-7 September 2006**

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2.2. CHAIR/CONVENOR AT MEETING SESSIONS

2018: **2018: Chair of Session 33** *XXXV SCAR Biennial Meetings Arctic Science Summit Week 2018 & IASC Business Meetings-SCAR/IASC Open Science Conference 2018-Arctic Observing Summit* Davos (Switzerland) **15-26 June 2018** **http://www.polar2018.org/**

2018: Chair of Session *XX International Conference on Dioxygen Binding and Sensing Proteins*, Barcelona (Spain) **3-7 September 2018**

2017:

2017: Chair of Session, *XII SCAR BIOLOGY Symposium*, Leuven (Belgium): **S08**: *Response to climate change: understanding bio resilience*.**10-14 July 2017**

2017: Chair of Session, *XII SCAR BIOLOGY Symposium*, Leuven (Belgium): *Adaptation and processes in top predators*. **10-14 July 2017**

2017: Chair of Session, *XII SCAR BIOLOGY Symposium*, Leuven (Belgium): *Understanding Physiology (including '-omics' approaches)*; **10-14 July 2017**

2014: Chair of Session AnT-ERA Workshop *Molecular and genetic advances to understanding evolution and biodiversity in the polar regions - The legacy of EBA*, IBBR, Naples **2-3 October**

2014

2014: Chair of Session *XVIIIth International Conference on Dioxygen Binding and Sensing Proteins*, Sheffield (UK) **6-10 July**

2014: Chair of Session *XXXIII SCAR Open Science Conference*, Auckland (New Zealand), **23-31 August**

2013

2013: Chair of Session *XI SCAR BIOLOGY SYMPOSIUM*. Barcelona, (Spain) **15-19 July**

2012

2012: Chair of Session *XVIIth International Conference on Dioxygen Binding and Sensing Proteins*, Parma (Italy). **29 August-1 September**

2012: Chair of session Evolutionary Adaptation to the Antarctic Environment, *XXXII SCAR Open Science Conference*, Portland, (USA) **13-25 July**

2011

2011: Chair Side-Meeting Event Advances on Evolution and Biodiversity in Marine Antarctic Environment, *World Conference on Marine Biodiversity*, Aberdeen (Scotland) **26-30 September**

2011: Chair Session 1 Advances on Evolution and Biodiversity in Marine Antarctic Environment, *World Conference on Marine Biodiversity*, Aberdeen (Scotland) **26-30 September**

2011: Chair of Session *CAREX Conference on Life in extreme environments*, Dublin (Ireland) **18-20 October 2011**

2010

2010: Chair of Session *XVIth International Conference on Dioxygen Binding and Sensing Proteins*, Antwerp (Belgium). **22-26 August 2010**

2009

2009: Chair of Session *X SCAR International Biology Symposium*, Sapporo, Hokkaido (Japan). **26-31 July 2009**

2008

2008: Chair of Session *XV International Conference on Dioxygen Binding and Sensing Proteins*, Aarhus (Denmark). **17-21 August 2008**

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2.3. INVITED LECTURES

2018:

2018: *Invited Lecture,* *Society of Experimental Biology Annual Meeting Florence (Italy)* ***3-6 July***

2017: **2017***:* **Invited Lecture** *MicroArctic meeting*, Akureyri (Iceland) **03-09 April 2017**

2016: **2016***:* **Invited Lecture** *41 CIESM Conference*, Kiel (Germany) **12-14 September 2016**

2016*:* **Keynote Lecture** *XXXIV SCAR Open Science Conference*, Kuala Lumpur (Malaysia) **20-30 August 2016**

2015: **2015: Lecture** *6th International Conference on Polar and Alpine Microbiology*, České Budějovice (Czech Republic) **6-10 September**

2015: Lecture *SCAR cross-program workshop*, *Barcelona* (Spain) **16-18 September**

2015: Lecture *Society of Experimental Biology*, Annual Meeting, Prague (Czech Republic) **30 June-3 July**

2014: **2014: Lecture** *XXXIII SCAR Open Science Conference*, Auckland (New Zealand), **23-31 August**

2014: Invited Lecture, *Society of Experimental Biology*, Annual Meeting, Manchester (UK) **1-4 July**

2013: **2013: Lecture** *Society of Experimental Biology*, Annual Meeting, Valencia (Spain) **3-6 July**

2013: Lecture *XI SCAR BIOLOGY SYMPOSIUM*. Barcelona, (Spain) **15-19July**

2013: Invited Lecture Convegno "Giornata Antartica" Università Roma 3, Roma (Italia). **15 March 2013**

2012: **2012: Invited Lecture** Side-Meeting Event**,** *XXXII SCAR Open Science Conference*, Portland, (USA) **13-25 July**

2012: Lecture Session: Bipolar Science: Connections with the Arctic, *XXXII SCAR Open Science Conference*, Portland, (USA) **13-25 July**

2012: Lecture, *IPY Conference Montreal, From Knowledge to Action*, Montreal, (Canada) **22-27 April**

2012: Invited Lecture *Planet Under Pressure*, Elsevier Conference, London (UK) **25-28 March**

2011: **2011: Lecture** *Society of Experimental Biology*, Glasgow, (Scotland) **30 June-4 July**

2011: Invited Expert *European Science Foundation (ESF) "Brainstorming meeting: towards a wider scenario*", Cascais (Portugal) **10-11 February 2011**

2011: Lecture *World Conference on Marine Biodiversity*, Aberdeen (Scotland) **26-30 September 2011**

2011: Lecture *CAREX Conference on Life in extreme environments*, Dublin (Ireland) **18-20 October 2011**

2011: Keynote Lecture International Debate, *Festival della Scienza*, Genova (Italy) **21 October-2 November 2011**

2010: **2010: Invited Lecture** Workshop *Polar Marine and Lacustrine Organisms: Gene and Protein Evolution in a Changing Environment,* in the framework of the *SCAR Programme SCAR-IPY, Evolution and Biodiversity in the Antarctic. The Response of Life to Change (EBA)* IBP, Naples (Italy) **24-25 May 2010**

2010: Invited Participant *Workshop on the future of SCAR biology*, Castiglioncello (Italy) **27-28 May 2010**

2010: Invited Lecture *Society of Experimental Biology*, Prague (Czech Republic) **30 June- 3 July 2010**

2010: Lecture *The International Polar Year Science Conference,* Oslo (Norway) **8-12 June 2010**

2010: Keynote Lecture *Biodiversity: Life response to Changes*, ESF Workshop, Strasbourg (France) **27 September 2010**

2009:

2009: Keynote Lecture *X SCAR International Biology Symposium*, Sapporo, Hokkaido (Japan). **26-31 July 2009**

2009*:* **Invited Lecture** *European Community-CAREX - Laboratory Procedures Workshop,* Viterbo (Italy). **25-26 June 2009**

2009: Invited Lecture, *ASLO Aquatic Sciences Meeting Conference*, Nice (France). **25-30 January 2009**

2008:

2008: Invited Lecture *European Community-CAREX - Identification of model ecosystems in extreme environments,* Sant Feliu de Guixols (Spain). **30 November-2 December 2008**

2008: Keynote Lecture International Debate, *Festival della Scienza*, Genova (Italy). **23 October-4 November 2008**

2008: Invited Lecture *Joint EC-US/CIESM Workshop on Marine Genomics: at the Interface of Marine Microbial Ecology and Biotechnological Applications*, Montecarlo (Monaco). **12-14 October 2008**

2008: Invited Participant due to expertise and role in Marine Genomics *Joint EC-US/CIESM Workshop on Marine Genomics: at the Interface of Marine Microbial Ecology and Biotechnological Applications*, Montecarlo (Monaco). **12-14 October 2008**

2008: Invited Lecture *Ciclo di seminari per i dottorandi della Scuola di Dottorato in Scienze Polari*, Università di Siena, Siena (Italy). **12 September 2008**

2008: Keynote Lecture *XV International Conference on Dioxygen Binding and Sensing Proteins*, Aarhus (Denmark). **17-21 August 2008**

2008: Invited Lecture *XXX **SCAR**/IASC IPY Open Science Conference*, St. Petersburg (Russia). **5-7 July 2008**

2008: Keynote Lecture *XVIII Settimana della Cultura Scientifica*, Rome, (Italy). **7 March 2008**

2007:

2007: Keynote Lecture "*Ny-Ålesund and IPY" Seminar*, Cambridge (UK.) **16-17 October 2007**

2007: Invited Speaker *6th PNRA Meeting on Antarctic Biology*, Follonica (Italy). **7-9 June 2007**

2007: Keynote Lecture "Italy-Norway Meeting", Rome (Italy). **11 May 2007**

2006:

2006: Invited Lecture *Workshop on Antarctic Evolutionary Biology,* Leuven (Belgium) **4-5 December 2006**

2006: Invited Participant *Workshop on Antarctic Evolutionary Biology,* Leuven (Belgium) **4-5 December 2006**

2006: Lecture *Marine Genomics,* Sorrento (Italy). **28 October-1 November 2006**

2006: Invited Lecture *Conferenza Nazionale sulla Ricerca nelle aree Polari,* Rome (Italy). **17-18 October 2006**

2006-Invited Lecture *XIVth International Conference on Dioxygen Binding and Sensing Proteins,* Naples, (Italy). **3-7 September 2006**

2006-Invited Lecture *XXIX SCAR Meeting and Open Science Conference,* Hobart (Australia). **12-14 July 2006**

2005:

2005: Keynote Lecture *Third International Symposium on the Arctic Research and Seventh Ny-Ålesund Scientific Seminary,* Tokyo (Japan). **22-24 February 2005**

2005: Invited Lecture, *The ICEFISH Symposium*, Walpole, Maine (USA). **21-24 August 2005**

2005: Invited Lecture *IX SCAR International Antarctic Biology Symposium*, Curitiba (Brasil). **25-29 July 2005**

2005: Invited Lecture *XVI riunione della sezione Sardegna della Società Italiana di Biochimica e Biologia Molecolare,* Sassari, (Italy). **24 June 2005**

2004:

2004: Lecture, *Ecology of the Antarctic Sea Ice Zone, Final Symposium,* Korčula (Croatia). **27 September-1 October 2004**

2004: Lecture *XXVIII SCAR & COMNAP XVI: Evolution and Biodiversity of Life in Polar Regions,* Bremen (Germany). **25-31 July 2004**

2002:

2002: Invited Lecture *EVOLANTA 2nd Workshop: Adaptive Evolution of Antarctic Marine Organisms*, Pontignano, Siena (Italy). **1-6 December 2002**

2002: Invited Lecture *9th Int Symp on Antarctic Science. Environmental changes in Antarctica: impacts and responses,* Ansan-Seoul (South Korea). **8-10 October 2002**

2002: Invited Lecture *1st Korea-Italy Workshop on Polar Research,* Ansan-Seoul (South Korea). **4 October 2002**

2002: Invited Participant *1st Korea-Italy Workshop on Polar Research,* Ansan-Seoul (South Korea). **4 October 2002**

Protocol Numbers do not exist for many of the services cited in my biography, because they have not been registered with such numbers.

3.1. EDUCATION: TUTORING

Two persons of the permanent staff are working directly with C Verde, and also assist graduate students (formally assigned to them) that contribute to the project

2013-2016:

2013-2016: Tutor of PhD student. Candidate: Giovanna Altomonte. PhD in BIOMEDICAL SCIENCES AND TECHNOLOGIES/XXIX cycle, Project: "Structural and functional characterization of globins in Arctic and Antarctic fish". Roma Tre University

2013-2014:

2013-2014: Tutor of an experimental thesis for a master's degree in Medical Biotechnologies, "Federico II Naples University".
Thesis: "Structural and functional characterisation of cytoglobins of the Antarctic fishes *Chaenocephalus aceratus* and *Dissostichus mawsoni*".

2009-2011:	**2009-2011: Tutor of PhD student. Candidate: Roberta Russo.** PhD in CHEMICAL SCIENCES /XXIV cycle, Project: "Structure and function of hemoproteins from cold-adapted organisms". "Federico II Naples University".
	2009-2011: Tutor of PhD student. Candidate: Alessia Riccio. PhD in CHEMICAL SCIENCES /XXIV cycle, Project: "Functional and comparative studies of hemoglobins of polar fish". "Federico II Naples University".
	2009-2011: Tutor of PhD student. Candidate: Daniela Coppola. PhD in BIOTECHNOLOGICAL SCIENCES/XXIV cycle, Project: "Structural and functional studies of hemoproteins from polar marine organisms". "Federico II Naples University".
2004-2007:	**2004-2007: Tutor of PhD student. Candidate: Daniela Giordano.** PhD in Biochemical studies of the proteome/XIX cycle "Structure, function and evolution of haemoglobins of polar fishes". Cattolica del Sacro Cuore University, Rome.
2005-2008:	**2005-2008: Tutor** of an experimental thesis for a master's degree in Chemistry, "Federico II Naples University". **Thesis:** "Struttura ed evoluzione dell'emoglobina troncata "two on two" del batterio antartico *Pseudoalteromonas haloplanktis TAC125*".
2004-2006:	**2004-2006: Tutor** of an experimental thesis for a master's degree in Biological Sciences, "Federico II Naples University". **Thesis:** "Il sistema di trasporto dell'ossigeno del teleosteo nototenioideo sub-antartico *Cottoperca gobio*".
2001-2003:	**2001-2003: Tutor** of an experimental thesis for a master's degree in Chemistry, "Federico II Naples University". **Thesis: "**Struttura e funzione di emoglobine da specie adattate al freddo". *Protocol Numbers do not exist for many of the services cited in the biography, because they have not been registered with such numbers.*

3.2. EDUCATION: TEACHING

2018:	**AnT-ERA SCAR international School:** Biological Processes in Antarctic Ecosystems for PhD and Postdoc Students, Buenos Aires, Argentina, 24-28 September 2018. **Invited Lecturer**
2012:	**2012: PhD school lectures in Chemistry "**Studio di emoproteine con funzione protettiva da specie reattive dell'azoto e dell'ossigeno", University Federico II, Naples, Italy
	2012: PhD school lectures *Ciclo di seminari per i dottorandi della Scuola di Dottorato* per le SCIENZE della Terra, ambientali e POLARI. **Invited Lecture** on Evolutionary adaptations in polar marine organisms. The role of the time and oxygen. Academic Year 2011-2012
1999-2000:	**Didactic Integrative Activity** in teaching Clinical Enzymology, School of Specialisation in Biochemistry and Clinical Chemistry, Degree in Medicine and Surgery, Faculty of Medicine and Surgery, University of Naples Federico II. **Academic year: 1999-2000**
1988-1989:	**Didactic Integrative Activity** in teaching Clinical Enzymology, School of Specialisation in Biochemistry and Clinical Chemistry, Degree in Medicine and Surgery, Faculty of Medicine and Surgery, University of Naples Federico II. **Academic year: 1988-1989**
1987-88, 1988-89, 1989-90:	**Didactic Integrative Activity,** in the framework of the Degree in Biological Sciences,

practical and theoretical experimental lab activity in Biological Chemistry, Faculty of Science University of Naples Federico II. **Academic years: 1987-1988, 1988-1989, 1989-1990**

Official Membership of the Committees for Examinations in Biological Chemistry for students of the Degree in Biological Sciences, Faculty of Sciences, University of Naples Federico II. **Academic years: 1987-1988, 1988-1989, 1989-1990.**

1998-1999: **1998-1999: Graduate degree programme in Neurophysiopathology** for Biochemistry. University Federico II, Naples, Italy. Protocol N. 129 (Faculty Council 21 December 1998). University Federico II, Naples, Italy.

4. RESEARCH GRANTS

2018/2019 (UNDER EVALUATION)

Group leader Biotechnological Applications of Arctic Microorganisms; **EU Project Innovative Training Networks (ITN)** Call: H2020-MSCA-ITN-2019. **Under Review. Total funding 6.0 M EURO.**

Group Leader of a Research Team in the PNRA Project 2018 *Diving in the Ross Sea: Molecular Approaches to Unravel the Evolutionary Specializations of Weddell Seals, Sentinel Species for Environmental Hazards*. **Under Review.**

2017-2019: **2017-2019: Coordinator of the PNRA Project** *Enzymes of a cold-active metabolic pathway for the biosynthesis of long-chain omega-3 fatty acids: biotechnological applications*
Total Funding EURO 94.000,00

2017-2019: Group Leader of a Research Team in the PNRA Project 2010/A1.08 *Journey to the cold and back: comparative genomics and transcriptomics in Antarctic and sub-Antarctic notothenioids.* **Total Funding EURO 138.500,00**
VERDE EURO 34.100,00

2014-2020: **2014-2020: Leading Investigator Theme 1: *Physiological limits, bio-molecular processes, and thresholds* for the** international SCAR project AnT-ERA for communication, dissemination and coordination. **Total funding in 2016: 20.000 USD**

2016: **2016: Associated Partner of WP 3:** *Polar microorganisms: responses to warming of model organisms and release of pathogens into the environment*; **EU Project MicroArctic Innovative Training Networks (ITN)** Call: H2020-MSCA-ITN-2015**2016-** (http://www.microarctic.eu/). **Total funding 3.8 M EURO.**

2016: Participant in the Project "Premiale Photosynthesis 2.0 – Italia 2016. Coordinator: CNR

2015 **2015: Participant in the Project** "Cibo & Salute– Italia 2015. Coordinator: CNR

2014: **2014: Partner in the Project** *Detrimental effects of oil exposure on polar cod investigated*

by genome-wide transcriptome analysis and enzyme assays of vital organs, coordinated by Dr. Øivind Andersen (Nofima; Norway)

2013/2014:

2013/2014: Coordinator of the Project CNR_CONICET (Argentina) *Structure and function of hemoproteins from Antarctic microorganisms*. Prot. N. 0005262 (28.01.2013)
Total funding EURO 8000

2013:

2013: Coordinator of the PNRA Project 2013/AZ1.20 "*The emergent role of new globins of Antarctic fish in the defence against oxidative and nitrosative stress*". Prot.-n. 0048514
Total Funding EURO 58.000,00

2013: Participant in the PNRA Project 2013/C1.04 "*TUNU Euro-Arctic Marine Fishes (TEAM-Fish): Impact of climate change on biodiversity, adaptation, contaminant bioaccumulation. Comparison with Antarctic*, coordinated by Dr. Simonetta Corsolini (Siena University)
Total Funding EURO 70.000,00
VERDE EURO 26.000,00

2013: Participant in the PNRA Project 2013/AZ1.10 "*Response of Antarctic notothenioids to thermal stress: an integrated molecular approach to investigate the effects of increasing temperatures in Trematomus bernacchii and Chionodraco hamatus*", coordinated by Prof. Tomaso Patarnello (Padova University)
Total Funding EURO 96.000,00

2013: Participant in the Project PGR 00151 Italia-Argentina, Ministero degli Affari Esteri *Il ruolo delle emoglobine nella rimozione delle specie reattive dell'ossigeno e dell'azoto*" coordinated by Cristiano Viappiani (Parma University)
Total Funding EURO 21.000,00
VERDE EURO 2000,00 + 10.000,00 for traveling

2012:

2012: Partner in the project "*Interaction of thermal stress and toxicant exposure in polar cod investigated by genome-wide transcriptome analysis*" coordinated by Dr. Øivind Andersen (Nofima, Norway).

2012: Co-Leader of a Research Team in the Project PRIN 2010 "*Neuroprotection vs Neurodegeneration: Role of Estrogen-Induced Neuroglobin Expression*", coordinated by Prof. Paolo Ascenzi (Roma University). Prot. N.20109MXHMR
Total Funding EURO 752.892,00
VERDE EURO 50.000,00

2012: Participant in the Project Italia-Argentina, Ministero degli Affari Esteri, "*Il ruolo delle emoglobine nella rimozione delle specie reattive dell'ossigeno e dell'azoto*" coordinated by Cristiano Viappiani (Parma University)
Total Funding EURO 21.000,00
VERDE EURO 4.500,00 + 10.000,00 for traveling

2011:

2011: Participant in the Project Italia-Argentina, Ministero degli Affari Esteri, "*Il ruolo delle emoglobine nella rimozione delle specie reattive dell'ossigeno e dell'azoto*" coordinated by Cristiano Viappiani (Parma University)
Total Funding EURO 30.000,00
VERDE EURO 6.250,00 + 10.000,00 for traveling

2010-2011:

2010-2011: Group Leader of a Research Team in the PNRA Project 2010/A1.08 "Role of the Oxygen in the Evolution – Genes and Proteins of Polar Fishes", coordinated by Ennio Cocca (CNR, Naples)
Total Funding EURO 125.000,00
VERDE EURO 49.000,00

2009-2010: **2009-2010: Group Leader of a Research Team in the PNRA Project** 2010/A2.02 "*Biogeochemical characterization of sub-glacial Antarctic Lakes*", coordinated by Prof. Carlo Barbante (Venezia University)
Total Funding EURO 150.000,00
VERDE EURO 21.000,00

2007-2009: **2007-2009: Group Leader of a Research Team in the PRIN Project 2007 SFZXZ7_001** "*Structure, function and evolution of heme proteins from Arctic and Antarctic marine organisms: cold-adaptation mechanisms and acquisition of new functions*", coordinated by Prof. L. Mazzarella (Naples University) Prot. N. 12673 (09-02-2009)
Total Funding EURO 257.400,00
VERDE EURO 50.000,00

2006-2013: **2006-2013: Participant in the EBA** (*Evolution and Biodiversity in the Antarctic: the Response of Life to Change*) SCAR programme. WP2 Evolutionary Adaptation to the Antarctic Environment.
Total Funding $145,875

2006: **2006: Group Leader and Coordinator of the International IPY Project:** ICEFISH ("*International Collaborative Expedition to collect and study Fish Indigenous to Sub-Antarctic Habitats*"), chosen by the Steering Committee of ICSU-WMO ("International Council for Science-World Meteorological Organisation") as "Lead Project" for the International Polar Year (IPY)

2006: Group Leader and Coordinator of the CNR Project: "*Bloodthirsty and erythropoiesis*" CNR. Proposal number 971
Total Funding EURO 7.000,00

2005-2007: **2005-2007: Group Leader of a Research Team in the PNRA Project** 2005/1.04 "*Polar Aquarium*"
Total Funding EURO 80.000,00
VERDE EURO 80.000,00

2005-2007: Group Leader of a Research Team in the PNRA Project 2005/1.01 "*Genomics and Proteomics of the Antarctic Psychrophilic Ciliate Euplotes focardii*" coordinated by Prof. Cristina Miceli (Camerino University)
Total Funding EURO 220.000,00
VERDE EURO 70.000,00

2005-2007: Group Leader of a Research Team in the PNRA Project 2005/12.1 "*Exploration and characterisation of Lake Concordia, East Antarctica*" coordinated by Prof. Carlo Barbante (Venezia University)
Total Funding EURO 300.000,00
VERDE EURO 47.800,00

2004: **2004: Participant in the PNRA Project** EVOLANTA ("*Evolution of Antarctic organisms*")
Total Funding EURO 20.000,00
VERDE EURO 20.000,00

2004-2006: **2004-2006: Group Leader of a Research Team in the PNRA Project** 1.3 2004/2006 "*Evolution and molecular adaptation of the oxygen transport system in polar marine organisms. Structure, function and genes*" coordinated by Dr. Ennio Cocca (CNR, Naples)
Total Funding EURO 600.000,00
VERDE EURO 250.000,00

2002-2003: **2002-2003: Participant in the PNRA Project** 2002/1.09 "*Transportation and maintenance of Antarctic fish*", coordinated by Elio Parisi (CNR, Naples)
Total Funding EURO 50.000,00

VERDE EURO 25.000,00

2002-present: Partner *TUNU-MAFIG: Marine Fishes of NE Greenland – diversity and adaptation*;
(The research programme is funded and managed by the University of Tromsø since 2002 and comprises scientists from 10 nations, among which Italy, for participation in oceanographic expeditions)

2000-2004:

2000-2004: Group Leader of a Research Team in the Project *"Erythrocyte functions, ion transport and hemoglobin-cell interaction in Arctic marine organisms"* (CNR). Programme *Strategico Artico* CNR 2000; 2001; 2002-2003; 2003-2004. Prot. N. 176/04.
Total Funding EURO 130.000,00
VERDE EURO 80.000,00

2002-2003:

2002-2003: Group Leader of a Research Team in the PNRA Project 1.2, 2000-2002 "*Molecular bases of cold adaptation in Antarctic and Arctic organisms*", Project "*Physiological, biochemical and molecular bases of evolutionary adaptation in teleosts*"
Total Funding EURO 400.000,00
VERDE EURO 160.188,00

1999-2001:

1999-2001: Participant in the PNRA Project: "Molecular bases of cold adaptation in Antarctic teleosts" (1.2, 1999-2001), coordinated by Maurizio Tamburrini (CNR, Naples)
Total Funding EURO 273.206,00.

Protocol Numbers do not exist for many of the services cited in the biography, because they have not been registered with such numbers.

RESEARCH INTERESTS

Molecular adaptations in models of prokaryotes and eukaryotes from extreme environments; vulnerability to climate change. Impacts on ecosystems of fast climate change occurring in the polar regions, and pressures arising from global change, invasive species, human impacts, and extreme events. Production of changes in individuals, populations and communities by synergistic stresses. Multidisciplinary studies of current biological processes in polar ecosystems, to define tolerance limits/thresholds and thereby determine resistance and resilience to environmental changes, also by means of structural/functional analysis of genes and proteins, in the framework of impacts on adaptations and evolution.

Interest on polar marine organisms: *(i)* they are amongst the most vulnerable species to climate change; *(ii)* micro/macro-organisms are a valuable source of natural products that can function as start structures of new molecules for drug discovery. New projects are aimed at taking advantage of biodiversity of marine organisms for the development of novel bioactive compounds.

Protein structure and function

From 2000 to now, I led work on protein structure/function, most importantly on observing that levels of structural flexibility were much higher at very low temperatures. My policy on publications with my staff is that, while I provide the scientific direction and drive for ongoing research, I encourage them to draft the papers in order to help them to develop as scientists. This means that I often appear as last author, even though I have led the intellectual components of the work. As

leading and corresponding author, I significantly contribute to data interpretation and paper editing and revision.

My research focuses on two areas: molecular adaptations to polar marine environments and responses to environmental change. I have a leading international profile in both areas. My work is mainly experimental. My main focus in the last 5 years has been on characterising protein response to environmental conditions and how adaptation to environments affects this, aiming at safeguarding biodiversity from the impacts of current global warming. Since 2000, in collaboration with other authors, I demonstrated the hexa-coordination in fish hemoglobins. I then extended this research to Antarctic bacterial globins by incorporating novel technologies in this area, and used genomics in collaboration with Illinois University to characterise proteins such neuroglobin and cytoglobin (discovered by us in Antarctic fish) with important biomedical perspectives (including Alzheimer's disease).

I am a leading science communicator, as shown by the number of lectures given in many international countries since 2000. My influence on policymakers comes from roles such as my membership in the Steering Committee of AnT-ERA, the Scientific Research Programme of SCAR *for the exchange of knowledge and for the support of research on BIOLOGICAL PROCESSES at ecological time scales especially related to environmental change.*

Future developments:

In the immediate future and over the next 10 years, I will develop my main research theme of adaptation and responses to environmental change and new projects for the development of novel bioactive compounds from Antarctic microorganisms.

REFEREED PUBLICATIONS

MANUSCRIPTS 2018/2019 UNDER REVIEWING

2018/2019

1. Giordano D, Boubeta F, Estrin DA, Viappiani C, di Prisco G, Smulevich G, **Verde C** Dynamics and flexibility drive cold adaptation in *Pseudoalteromonas haloplanktis* TAC125 globins. *Antioxidant & Redox Signaling* (Invited Review). UNDER REVIEWING
Corresponding author
2018 IF: 6.55

2. Giordano D, Pesce A. Nardini M, Bruno S, Luque J, di Prisco G, Bolognesi M, Viappiani C, Dewilde S, **Verde C** Cytoglobin-1 of Antarctic fish: from function to structural

properties. *Antioxidant & Redox Signaling* (Original Research Article). UNDER REVIEWING
Corresponding author
2018 IF: 6.55

1. Núñez-Pons L, Avila C, Romano G, Verde C, Giordano D **2018** UV-protective compounds in marine organisms from the Southern Ocean. *Mar Drugs* **16**: 336; doi:10.3390/md16090336
2018 IF: 4.38

2. Boubeta FM, Boechi L, Estrin D, Patrizi B, Di Donato M, Iagatti A, Giordano D, **Verde C**, Bruno S, Abbruzzetti S, Viappiani C **2018** Cold-adaptation signatures in the ligand rebinding kinetics to the truncated hemoglobin of the Antarctic bacterium *Pseudoalteromonas haloplanktis* TAC125. *J Phys Chem* DOI: 10.1021/acs.jpcb.8b07682
2018 IF: 3.146

3. Giordano D, Costantini M, Coppola D, Lauritano C, Núñez Pons L, Ruocco N, di Prisco G, Ianora A, **Verde C 2018** Biotechnological applications of bioactive peptides from marine sources. *Adv Microb Physiol* **73**: 171-220.
Corresponding author
2018 IF: 3.45

4. Gutt J, Isla E, Bertler AN, Bodeker GE, Bracegirdle TJ, Cavanagh RD, Comiso JC, Convey P, Cummings V, De Conto R, De Master D, di Prisco G, d'Ovidio F, Griffiths HJ, Khan AL, López-Martínez J, Murray AE, Nielsen UN, Ott S, Post A, Ropert-Coudert Y, Saucède T, Scherer R, Schiaparelli S, Schloss IR, Smith CR, Stefels J, Stevens C, Strugnell JM, Trimborn S, **Verde C**, Verleyen E, Wall DH, Wilson NG, Xavier JC **2018** Cross-disciplinarity in the advance of Antarctic ecosystem research. *Marine Genomics*. doi: 10.1016/j.margen.2017.09.006.
2018 IF: 1.94 (ISI Web of knowledge)

5. Coppola D, Giordano D, Milazzo L, Howes BD, Ascenzi P, di Prisco G, Smulevich G, Poole RK, **Verde C 2018** Coexistence of multiple globin genes conferring protection against nitrosative stress to the Antarctic bacterium *Pseudoalteromonas haloplanktis* TAC125. *Nitric Oxide* **73**: 39-51.
Corresponding author
2018 IF: 4.37

2017

6. Giuliano L, Labes A, Reich M, **Verde C 2017** Navigating the Future: Cross-sector Marine Genomics. *Marine Genomics* **36**: 1-2
Corresponding author
2018 IF: 1.94 (ISI Web of knowledge)

7. Cuypers B, Vermeylenb S, Hammerschmid D, Trashin S, Rahemi V, Konijnenberg A, De Schutter A, Cheng C-H C, Giordano D, **Verde C**, De Wael K, Sobott F, Dewilde S, Van Doorslaer S **2017** Antarctic fish *versus* human cytoglobins - the same but yet so different. *Journal of Inorganic Biochemistry* **173**: 66-78
2017 IF: 3.205 (ISI Web of knowledge)
2018 IF: 3.063 (ISI Web of knowledge)

8. Russo R, Giordano D, Paredi G, Francesco Marchesani F, Milazzo L, Altomonte G, Del Canale P, Abbruzzetti S, Ascenzi P, di Prisco G, Viappiani C, Fago A, Bruno S, Smulevich G, **Verde C 2017** The Greenland shark *Somniosus microcephalus* - hemoglobins and ligand-binding properties. *PLoS ONE* 12(10): e0186181. doi: 10.1371/journal.pone.0186181. eCollection 2017.
Corresponding author

2018 IF: 2.77 (ISI Web of knowledge)

2016

9. Berenbrink M, **Verde C**, Cossins AR **2016** Genome-powered perspectives in integrative physiology and evolutionary biology. *Marine Genomics* **30**: 1-2
2016 IF: 1.88 (ISI Web of knowledge)
2018 IF: 1.94 (ISI Web of knowledge)

10. Verde C, Giordano D, Bellas CM, di Prisco G, Anesio AM **2016** Polar marine microorganisms and climate change. *Adv Microb Physiol* **69**: 187-215
Corresponding author
2016 IF: 3.55 (ISI Web of Knowledge)
2018 IF: 3.45 (ISI Web of Knowledge)

11. Fiocchetti M, Cipolletti M, Leone S, Naldini A, Carraro F, Giordano D, **Verde C**, Ascenzi P, Marino M **2016** Neuroglobin in breast cancer cells: effect of hypoxia and oxidative stress on protein level, localization, and anti-apoptotic function. *PLoS ONE* 11(5): e0154959. doi: 10.1371/journal.pone.0154959
2018 IF: 2.77 (ISI Web of knowledge)

2015

12. Ascenzi P, di Masi A, Leboffe L, Frangipani E, Nardini M, **Verde C**, Visca P **2015** Structural biology of bacterial haemophores. *Adv Microb Physiol* **67**: 127-175 http://dx.doi.org/10.1016/bs.ampbs.2015.09.002
2015 IF: 3.41 (ISI Web of knowledge)
2018 IF: 3.45 (ISI Web of Knowledge)

13. Giordano D, Russo R, Coppola D, Altomonte G, di Prisco G, Bruno S, **Verde C 2015** “Cool” adaptations to cold environments: globins in Notothenioidei. *Hydrobiologia*, Biology of the Ross Sea, **761**: 293-312. ISSN: 0018-8158. doi: 10.1007/s10750-015-2306
Corresponding author
2015 IF: 2.66 (ISI Web of knowledge)
2018 IF: 2.16 (ISI Web of Knowledge)

14. Coppola D, Giordano D, Abbruzzetti S, Marchesani F, Balestrieri M, di Prisco G, Viappiani C, Bruno S, **Verde C 2015** Functional characterisation of the haemoglobins of the migratory notothenioid fish *Dissostichus eleginoides*. *Hydrobiologia*, Biology of the Ross Sea, **761**: 315-333. ISSN: 0018-8158 doi:10.1007/s10750-015-2439-2
Corresponding author
2015 IF: 2.66 (ISI Web of knowledge)
2018 IF: 2.16 (ISI Web of Knowledge)

15. Giordano D, Pesce A, Boechi L, Bustamante JP, Caldelli E, Howes BD, Riccio A, di Prisco G, Nardini M, Estrin D, Smulevich G, Bolognesi M, **Verde C 2015** Structural flexibility of the heme cavity in the cold-adapted truncated hemoglobin from the Antarctic marine bacterium *Pseudoalteromonas haloplanktis* TAC125. *FEBS J* **282**: 2948–2965. ISSN: 1742-464X. doi: 10.1111/febs.13335
Corresponding author
2015 IF: 4.24 (ISI Web of Knowledge)
2018 IF: 4.53 (ISI Web of Knowledge)

16. Giordano D, Coppola D, Russo R, Denaro R, Giuliano L, Lauro F, di Prisco G, **Verde C 2015** Marine microbial secondary metabolites: pathways, evolution and physiological roles. *Adv Microb Physiol* **66**: 357-428. ISSN: 0065-2911 doi: 10.1016/bs.ampbs.2015.04.001
Corresponding author
2015 IF: 2.73 (ISI Web of Knowledge)
2018 IF: 3.45 (ISI Web of Knowledge)

17. di Prisco G, **Verde C 2015** The Ross Sea and its rich life: research on molecular adaptive evolution of stenothermal and eurythermal Antarctic organisms and the Italian contribution. *Hydrobiologia*, Biology of the Ross Sea, **761**: 335-361(1). DOI: 10.1007/s10750-015-2425-8
2015 IF: 2.66 (ISI Web of knowledge)
2018 IF: 2.16 (ISI Web of Knowledge)

2014

18. Mazzarella L, Merlino A, Vitagliano L, **Verde C**, di Prisco G, Peisach J, Vergara A **2014** Structural modifications induced by the switch from an endogenous bis-histidyl to an exogenous cyanomet hexa-coordination in a tetrameric haemoglobin. *RSC Advances* **4**: 25852
RSC Advances
2014 IF: 3.84 (ISI Web of knowledge)
2018 IF: 2.94 (ISI Web of Knowledge

2013

19. Giordano D, Coppola D, Russo R, Tinajero-Trejo M, di Prisco G, Lauro F, Ascenzi P, **Verde C 2013** The globins of cold-adapted *Pseudoalteromonas haloplanktis* TAC125: from the structure to the physiological functions. *Adv Microb Physiol* **63**: 329-389
Corresponding author
2013 IF: 5.80 (ISI Web of Knowledge)
2018 IF: 3.45 (ISI Web of Knowledge)

20. Russo R, Zucchelli S, Codrich M, Marcuzzi F, **Verde C**, Gustincich S **2013** Hemoglobin is present as a canonical $\alpha_2\beta_2$ tetramer in dopaminergic neurons. *Biochim Biophys Acta* 1834: 1939-1943
Corresponding author
2013 IF: 3.19 (ISI Web of Knowledge)
2018 IF: 2.61 (ISI Web of Knowledge)

21. Russo R, Giordano D, di Prisco G, Hui Bon Hoa G, Marden MC, **Verde C**, Kiger L **2013** Ligand-rebinding kinetics of 2/2 hemoglobin from the Antarctic bacterium *Pseudoalteromonas haloplanktis* TAC125. *Biochim Biophys Acta* **1834**: 1932-1938
2013 IF: 3.19 (ISI Web of knowledge)
2018 IF: 2.61 (ISI Web of Knowledge)

22. Van Leuven W, Cuypers B, Desmet F, Giordano D, **Verde C**, Moens L, Van Doorslaer S, Dewilde S **2013** Is the heme pocket region modulated by disulfide-bridge formation in fish and amphibian neuroglobins as in humans? *Biochim Biophys Acta* 1834: 1757-1763
2013 IF: 3.19 (ISI Web of knowledge)
2018 IF: 2.61 (ISI Web of Knowledge)

23. Ronda L, Merlino A, Bettati S, **Verde C**, Balsamo A, Mazzarella L, Mozzarelli A, Vergara A **2013** Role of tertiary structures on the Root effect in fish hemoglobins. *Biochim Biophys Acta*. **1834**: 1885-1893
2013 IF: 3.19 (ISI Web of knowledge)
2018 IF: 2.61 (ISI Web of Knowledge)

24. Coppola D, Giordano D, Tinajero-Trejo M, di Prisco G, Ascenzi P, Poole RK, **Verde C 2013** Antarctic bacterial hemoglobin and its role in the protection against nitrogen reactive species. *Biochim Biophys Acta* **1834**: 1923-1931
Corresponding author
2013 IF: 3.19 (ISI Web of Knowledge)
2018 IF: 2.61 (ISI Web of Knowledge)

2012

25. Gutt J, Adams B, Bracegirdle T, Cowan D, Cummings V, di Prisco G, Gradinger R, Isla E, McIntyre T, Murphy E, Peck L, Schloss I, Smith C, Suckling C, Takahashi

A, **Verde C**, Wall DH, Xavier J **2012** Antarctic Thresholds – Ecosystem Resilience and Adaptation: a new SCAR-Biology Programme. *Polarfoschung* **82**: 147-150
IF: NA

26. Giordano D, Boron I, Abbruzzetti S, Van Leuven W, Nicoletti FP, Forti F, Bruno S, Cheng C.-H. C, Moens L, di Prisco G, Nadra AD, Estrin D, Smulevich G, Dewilde S, Viappiani C, **Verde C 2012** Biophysical characterisation of neuroglobin of the icefish, a natural knockout for hemoglobin and myoglobin. Comparison with human neuroglobin. *PLoS ONE* **7**(12): e44508. doi: 10.1371/journal.pone.0044508
Corresponding author
2012 IF: 3.73 (ISI Web of Knowledge)
2018 IF: 2.77 (ISI Web of knowledge)

27. Coppola D, Abbruzzetti S, Nicoletti FP, Merlino A, Gambacurta A, Giordano D, Barry D. Howes BD, De Sanctis G, Vitagliano L, Bruno S, di Prisco G, Mazzarella L, Smulevich G, Coletta M, Viappiani C, Vergara A, **Verde C 2012** ATP regulation of the ligand-binding properties in temperate and cold-adapted haemoglobins. X-ray structure and ligand-binding kinetics in the sub-Antarctic fish *Eleginops maclovinus*. *Mol BioSystems* **8**(12): 3295-304. doi: 10.1039/c2mb25210d
Corresponding author
2012 IF: 3.35 (ISI Web of Knowledge)
2018 IF: 2.76 (ISI Web of Knowledge)

28. di Prisco G, Convey P, Gutt J, Cowan D, Conlan K, **Verde C 2012** Understanding and Protecting the World's Biodiversity: the Role and Legacy of the SCAR Programme Evolution and Biodiversity in the Antarctic". *Marine Genomics* Dec;**8**: 3-8. doi: 10.1016/j.margen.2012.04.001
Corresponding author
2012 IF: 1.34 (ISI Web of knowledge)
2018 IF: 1.94 (ISI Web of knowledge)

29. Verde C, di Prisco G, Giordano D, Russo R, Anderson D, Cowan D **2012** Antarctic psychrophiles: models for understanding the molecular basis of survival at low temperature and responses to climate change. *Biodiversity* **13**: 249-256 **ISSN: 1488-8386, doi:10.1080/14888386.2012.706703 ISSN**1488-8386 (Print), 2160-0651 (Online)
Corresponding author
IF: NA

30. Verde C, Giordano D, di Prisco G, Andersen Ø **2012** The hemoglobins of polar fish: evolutionary and physiological significance of multiplicity in Arctic fish. *Biodiversity* **13**: 228-233 **ISSN**1488-8386 (Print), 2160-0651 (Online) **ISSN: 1488-8386, doi: 10.1080/14888386.2012.700345**
Corresponding author
IF: NA

31. Gutt J, Zurell D, Bracegridle TJ, Cheung W, Clark MS, Convey P, Danis B, David B, De Broyer C, di Prisco G, Griffiths H, Laffont R, Peck L, Pierrat B, Riddle MJ, Saucede T, Turner J, **Verde C**, Wang Z, Grimm V **2012** Correlative and dynamic species distribution modelling for ecological predictions in the Antarctic: a cross-disciplinary concept. *Polar Research* **31**: 11091 http://dx.doi.org/10.3402/polar.v31i0.11091
2012 IF: 1.62 (ISI Web of knowledge)
2018 IF: 1.50 (ISI Web of knowledge)

32. Giordano D, Russo R, di Prisco G, **Verde C 2012** Molecular adaptations in Antarctic fish and marine microorganisms. *Marine Genomics* **6**: 1-6
Corresponding author
2012 IF: 1.34 (ISI Web of knowledge)

2018 IF: 1.94 (ISI Web of knowledge)

2011

33. Coppola D, Bruno S, Ronda L, Viappiani C, Abbruzzetti S, di Prisco G, **Verde C**, Mozzarelli A **2011** Low affinity PEGylated hemoglobin from *Trematomus bernacchii*, a model for hemoglobin-based blood substitutes. BMC *Biochemistry* **12**: 66
2011 IF: 1.98 (ISI Web of knowledge)
2018 IF: 1.59 (ISI Web of knowledge)

34. Boron I, Russo R, Boechi L, Cheng CH, di Prisco G, Estrin DA, **Verde C**, Nadra AD **2011** Structure and dynamics of Antarctic fish neuroglobin assessed by computer simulations. *IUBMB Life* **63**: 206-213
2011 IF: 3.51 (ISI Web of knowledge)
2018 IF: 3.24 (ISI Web of knowledge)

35. Howes BD, Giordano D, Boechi L, Russo R, Mucciacciaro S, Ciaccio C, Sinibaldi F, Fittipaldi M, Martí MA, Estrin DA, di Prisco G, Coletta M, **Verde C**, Smulevich G **2011** The peculiar heme pocket of the 2/2 hemoglobin of cold-adapted *Pseudoalteromonas haloplanktis* TAC125. *J Biol Inor Chem* **16**: 299-311
2011 IF: 3.28 (ISI Web of knowledge)
2018 IF: 2.95 (ISI Web of knowledge)

36. Merlino A, Howes BD, di Prisco G, **Verde C**, Smulevich G, Mazzarella L, Vergara A **2011** Occurrence and formation of endogenous histidine hexa-coordination in cold-adapted hemoglobins. *IUBMB Life* **63**: 295-303
2011 IF: 3.51 (ISI Web of knowledge)
2018 IF: 3.24 (ISI Web of knowledge)

37. Patarnello T, **Verde C**, di Prisco G, Bargelloni L, Zane L **2011** How will fish that evolved at constant sub-zero temperatures cope with global warming? Notothenioids as a case study. *BioEssays* **33**: 260-268 **(*Invited Review*)**
2011 IF: 4.95 (ISI Web of knowledge)
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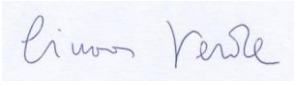

Napoli, 16-01-2019