



Rita Cannas, PhD - Curriculum Vitae

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ACTUAL POSITION: Associate Professor in Zoology

Since 23/10/2023: Scientific Responsible of the Zoological Collections (Museo di Zoologia) of the University of Cagliari

05/04/2018: National Scientific Academic Qualification as Full Professor in Zoology recognized by the Italian Ministry of University and Scientific Research (MIUR)

Since 15/05/2015 Associate Professor in Zoology at the Faculty of Biology and Pharmacy, University of Cagliari, Department of Life and Environmental Sciences – Section Animal Biology and Ecology – Head of the Laboratory Molecular Zoology and Ecology

PAST POSITIONS:

30/12/2002-14/05/2015 Senior Researcher in Zoology, University of Cagliari, Italy

EDUCATION:

- February 2002 - PhD in "Compared biochemistry of ecosystems". Highest honours. PhD Dissertation: "Genetic and molecular characterization of the Mediterranean spiny lobsters". University of Sassari, Italy

RESEARCH ACTIVITIES AREAS

Research activities focus on the field of Zoology and Marine Ecology with particular interest on marine animal taxa inhabiting the Mediterranean region. In particular:

A) development and use of genetic markers applied to:

a. "fisheries genetics": differentiation and connectivity among populations for the genetic mapping of demersal stocks

b. "conservation genetics": conservation of autochthonous and/or threatened animal populations

c. "molecular systematics/DNA barcoding": identification and classification of cryptic and/or problematic taxa using molecular taxonomic methods

d. "cytogenetics": karyological techniques for the reconstruction of the phylogenetic relationships, evolution of the karyotype and karyotyping of animal species

B) Multidisciplinary approach, integrating genetic, ecological and biological data for the monitoring conservation and management of commercial species and the study of habitats of special importance for the Mediterranean biodiversity (e.g., coralligenous biocoenosis)

C) Active restocking project in overexploited species

D) Monitoring at sea for the assessment of marine demersal resources through international and national surveys (MEDITS Mediterranean International Trawl Survey) e nazionali (CAMPBIOL - biological sampling at landing), and local surveys (on board scientific observers in red coral fishery activities).

RECENT and RELEVANT RESEARCH PROJECTS

o 2024- 2026 she participates to the monitoring activities of red coral colonies foreseen by the Regional law n. 59/1979 e s.m.i., project funded by the Autonomous Region of Sardinia progetto finanziato dalla Regione Autonoma della Sardegna (Role: responsible of genetic analyses).

o 2022- today she participates to the Project e.INS Ecosystem of Innovation for Next Generation Sardinia (e.INS) funded by the European Union NextGenerationEU (Role: Participant, coordination of molecular analyses in lagoons and transitional ecosystems).

o 2020- 2023 she participates to the Research programme on red coral of the General Fisheries Commission for the Mediterranean – GFCM (Role: Participant, tasks management and genetic



analyses).

o 2002-today she participates to the campaign CAMPBIOL (biological sampling on landings). Funded by MiPaF Ministero per le Politiche Agricole e Forestali. Role: Participant, RU Cagliari GSA11.

o 1996- today she participates to the campaign MEDITS (Mediterranean International Trawl Survey) funded by the European Commission Directorate-general Fisheries Conservation Policy management of stocks. (Role: Participant, RU Cagliari, GSA11).

o 2019-2021 she participates to the project "MED_Units STUDY ON ADVANCING FISHERIES ASSESSMENT AND MANAGEMENT ADVICE IN THE MEDITERRANEAN BY ALIGNING BIOLOGICAL AND MANAGEMENT UNITS OF PRIORITY SPECIES" Specific Contract No. 3 IMPLEMENTING Framework Contract No EASME/EMFF/2016/032 Funded by European Commission. Role: Task Leader Genomic Analyses.

o 2019 - LOA between FAO and the University of Cagliari for the drafting of a 'Global Report on Precious corals', based on the Decision 17.191 of the 17a Conference of Parties CITES. Role: Scientific Supervisor

o 2017 - 2019 she participates to the project "SPELMED Evaluation of the population status and SPECIFIC MANAGEMENT ALTERNATIVES FOR THE SMALL PELAGIC FISH STOCKS IN THE NORTHWESTERN Mediterranean Sea. Specific Contract No. 2 IMPLEMENTING Framework Contract No EASME/EMFF/2016/032 funded by the European Commission. Role: Task Leader Genomic Analyses

o 2018 Scientific Project Bibliographic survey preparatory to the adoption of the National Management Plan for red coral fishing in the waters facing the national territory Programma Operativo FEAMP 2014-2020 Funded by Ministero delle politiche Agricole Alimentari Forestali e del Territorio

o 2012-2018 she participates to the project PNR (Programma Nazionale delle Ricerche) 2011/2013 Progetto bandiera PROGRAMMA RITMARE Ricerca Italiana per il Mare, finanziato MIUR, CONISMA Consorzio Nazionale Interuniversitario per le Scienze del Mare PROGRAMMA RITMARE SP2 - Tecnologie per la pesca sostenibile, WP1 - Strumenti per l'implementazione di approccio ecosistemico alla pesca ed acquacoltura sostenibile, Attività A2 - Sistemi innovativi a supporto dell'analisi e del monitoraggio degli stock ittici. SOTTOAZIONE Mappatura genomica delle unità di stock di specie demersali dei Mari Italiani: creazione di una base dati di genomica di popolazione per l'identificazione di stock e stock boundaries in *Mullus barbatus* e *Parapeneaus longirostris*. Responsabile Fausto Tinti ULR Conisma Bologna. (Role; Scientific Responsible, ULR Conisma Cagliari).

o from 2009- today co-responsible of the scientific project "ELASMOMED: DNA barcoding of the Mediterranean Elasmobranchs, progetto realizzato nell'ambito dell'iniziativa FishBOL" in partnership with: University of Bologna, University of Palermo, University of Malta, COSIPA, Department of Fisheries and Marine Research Ministry of Agriculture Rural Development and Environment Cyprus, Centre Régional de Institut National Recherche Halieutique Morocco, IAMC-CNR, Hebrew University of Jerusalem Israel, Biodiversity Institute of Ontario University of Guelph Canada, Ecole Nationale Supérieure des Sciences de la Mer et d'Aménagement du Littoral Algeria, ARPAT Toscana, Asociación Ondine, Palma de Mallorca Spain, University of Bari Aldo Moro, Institute of Oceanography and Fisheries Croatia and Canadian Center for DNA Barcoding and the Biodiversity Institute of Ontario.

o From 2017 to 2018 Scientific Responsible for RU ComBioMa Cagliari of Next-Generation BFT Consortium within the SHORT-TERM CONTRACT FOR BIOLOGICAL STUDIES (ICCAT GBYP 08/2017-2) OF THE ATLANTIC-WIDE RESEARCH PROGRAMME ON BLUEFIN TUNA (GBYP Phase 7) in partnership with ALMA MATER STUDIORUM-Università degli Studi di Bologna.

o From July 2017 to July 2018, she participates to the project "Monitoring plan of the European lobster (*Palinurus elephas*)" funded by AMP Asinara (Italia), agreement between the IAMP Asinara and Università di CAGLIARI

o 2013-2017 she participates to the project "Systems for the valorization and set up of gear with low impact and noninvasive fishing practices" funded Regione Autonoma della Sardegna nell'ambito L.R. 7 agosto 2007, n. 7. Promozione della ricerca scientifica e dell'innovazione tecnologica in Sardegna. Bando ricerca di base orientata annualità 2012. (TenderBURAS n. 47



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del 2 novembre 2012). (Role: Participant, from November 2015 Scientific responsible).
o From august 2016 -2018 Member RU Cagliari PNRA - Programma Nazionale di Ricerca in Antartide del progetto Biodiversità e funzionamento degli ecosistemi bentonici profondi del Mare di Ross, alla luce dei cambiamenti climatici in corso nell'Oceano Meridionale (Benthic biodiversity and ecosystem functioning of the Deep ROSS SEa in a changing Southern Ocean BEDROSE)(codice progetto PNRA16_00289 Bando PNRA n°651 del 5 aprile 2016). Role: genetic analyses of benthic species
o 2016-2017 she participates to the project SHORT TERM CONTRACT FOR BIOLOGICAL STUDIES (ICCAT GBYP 09/2016) OF THE ATLANTIC-WIDE RESEARCH PROGRAMME ON BLUEFIN TUNA (GBYP Phase 6) Framework of the Atlantic Wide Research Programme for Bluefin tuna (GBYP; <http://www.iccat.int/GBYP/en>) funded by ICCAT (INTERNATIONAL COMMISSION FOR THE CONSERVATION OF ATLANTIC TUNAS) (Scientific Responsible UR ComBioMa Cagliari, Role: Participant, in charge of genomic analyses).

SCIENTIFIC SOCIETY MEMBERSHIPS

Union of Italian Zoologists (UZI)
Italian Association of Oceanology and Limnology (AIOL)
Italian Society of Ecology (SitE)
Member of CoNISMa -"Consorzio Nazionale Interuniversitario per le Scienze del Mare" (National University Consortium for the Sciences applied to Sea)
Italian Society of Marine biology (SIBM)
Since 2010 she participates to the meetings of the GENERAL FISHERIES COMMISSION FOR THE MEDITERRANEAN FAO for the management of *C. rubrum*
Since 2011 she participates to the meetings of ICCAT (the International Commission for the Conservation of Atlantic Tunas) within the Atlantic Wide Research Programme for Bluefin tuna GBYP; (<http://www.iccat.int/GBYP/en>)

PUBLICATIONS

The results of these researches have produced more than 100 scientific articles published in national and international peer-reviewed journals, as well as book chapters, abstracts and contributions in international reports. The full list of peer-reviewed publications can be accessed via Orcid using the link: <https://orcid.org/0000-0001-6627-4053>.

TEACHING ACTIVITIES AT THE UNIVERSITY OF CAGLIARI

She teaches at Università degli studi di Cagliari, Facoltà di Biologia e Farmacia:

- Tecniche di studio e conservazione della biodiversità marina for the master's degree Laurea Magistrale in Bio-ecologia Marina
- Zoologia in the Bachelor's Degree Triennale in Biologia
- Evoluzione del comportamento animale in the Bachelor's Degree Triennale in Biologia

She's Member of the Academic board for the PhD School in Life Sciences Environmental and Drugs, University of Cagliari. Anno accademico 2013, 2014/2015, 2015/2016, 2016/2017, 2017/2018, 2018/2019, 2019/2020, 2021/2022, 2022- 2023, 2023-24, 2024-25- Cicli: XXIX – XXX – XXXI – XXXII – XXXIII – XXXIV – XXXV – XXXVI – XXXVII – XXXVIII – XXXIX – XL

Cagliari, July 2, 2024 *Rita Cannas*