

FRANCESCA R. BOSELLINI

Current position: Associate Professor since November 2000 (SSD GEO01- Paleontologia e Paleoecologia) at the University of Modena and Reggio Emilia.

My research interests

- Systematics of Cenozoic scleractinian corals
- Functional morphology of reef-building scleractinian corals.
- Facies analysis and paleoecological reconstruction of Mediterranean Cenozoic coral reef systems.
- Cenozoic coral reefs in marginal settings, associated with mixed carbonate-siliciclastic systems.
- Role and significance of coral assemblages in relation to major paleoenvironmental and climatic changes.
- Coral paleobiodiversity patterns through the Cenozoic, paleoclimatic and paleogeographic implications.
- The response of shallow-water biocalcifiers to the early Paleogene global warming.

Study areas. Italy (Veneto, Liguria, Salento Peninsula), Corsica (Bonifacio Basin), Spain (Jaca Basin), France (Aquitaine), Turkey (Mut Basin).

Recent and Current Research Projects

- "Carbonate production from Greenhouse to Icehouse Earth System: changing patterns of reef ecosystems and z-coral communities". International Project for Scientific Cooperation (PICS) financed by the French CNRS (three years: 2009-2011) (Leader of the Italian Research Group: F. Bosellini).
- "The Geology of the Neogene Rocks Between Adana-Mut (İçel) and Their Palaeogeographical Evolution". Project financed by the Turkish Maden Tetkik ve Arama Genel Müdürlüğü (MTA), 2010-2011.
- "Variabilidad en plataformas carbonatadas en funcion de los cambios de produccion y de acomodacion". Proyecto de Investigation y Desarrollo Tecnológico - Ministerio de Education y Ciencia –Spain, 2010-2012 (Leader: L. Pomar).
- Lifelong Learning programme/Erasmus: HIGHER EDUCATION (ERASMUS). Bilateral agreement between the University of Modena e Reggio Emilia and the Cukurova University l'Università (Adana, Turkey), 2010-2013.
- "Exploring new skeletal characters from the scleractinian coral *Diploastrea* and allied genera using computed tomography", SYNTHESIS project (GB-TAF-1702), 2012 (Leader: F.Bosellini)
- Contribution to the project "CORALLOSPHERE": CoralloSphere.org is a web application developed with the aim of exploring new approaches to compiling taxonomic information on extant and extinct scleractinian corals (<http://www.corallosphere.org/index>).
- PRIN 2010-2011: "Past Excess CO₂ worlds: biota responses to extreme warmth and ocean acidification"(Leader of the Research Unit of the University of Modena and Reggio Emilia: F. Bosellini), 2013-2016.
- PRIN 2017: "Biota resilience to global change: biomineralisation of planktic and benthic calcifiers in the past, present and future" (Leader of the Research Unit of the University of Modena and Reggio Emilia: F. Bosellini), 2019-2023.
- PRIN 2022: "Conservation of life on Earth: the fossil record as an unparalleled archive of ecological and evolutionary responses to past warming events" (Leader of the Research Unit of the University of Modena and Reggio Emilia: F. Bosellini), 2023-2025.

Foreign visitor experience

- November 1989: College Station (Texas, U.S.A.) for a study of Rhaetian coral facies from the Wombat Plateau (NW Australia) drilled during ODP Leg 122 (grant from the ODP Italian Commission and C.N.R.).

- May 1990: Institut of Paleontology, University of Erlangen (Germany) for a stage concerning carbonate microfacies.
- April-May 1991: University of Miami, Rosenstiel School of Marine and Atmospheric Science Miami (Florida, U.S.A) and Belize (British Honduras) for attending the advanced course "Field Seminar on the Belize reef tract" (grant from Italian C.N.R.).
- February-July 1992: study period of 6 months at the Natural History Museum of London (grant from the Royal Society of London).
- July 1993: Naturhistorische Museum Bern (Switzerland) to study Oligocene coral collections of southern Alps.
- May 2010: visiting professor within the Lifelong Learning programme/Erasmus at Adana University (Turkey) and fieldwork in the Mut Basin (Turkey).
- September 2011: Institute of Paleontology, Polish Academy of Science (Warsaw, Poland) for microstructural analyses of corals.
- June 2012: grant from the SYNTHESIS Project (European Union-funded Integrated Activities grant) (GB-TAF-1702) for a study period of one month at the Paleontology Research Division of the Natural History Museum of London (London, U.K).
- October 2014: visiting professor at the Department of Earth & Environmental Sciences, University of Iowa, Iowa City (USA).

Organizing Activity

Involved in the organization of several national and international meetings, short courses and workshops. Lecturer of invited seminars. Participation to national and international meetings with more than 40 oral presentations and posters (30 at international meetings).

- Secretary of the Società Paleontologica Italiana during years 2003-2005.
- Councillor of the Società Paleontologica Italiana during years 2006-2008
- Correspondent for Italy of the International Association for the Study of Fossil Cnidaria and Porifera.
- Organizer of the 13th International Symposium of Fossil Cnidaria and Porifera (Modena, 2019)
- President of the International Fossil Coral and Reef Society (IFCRS), 2019-2023.

Editorial activity

- Associate Editor of the international ISI journal *Rivista Italiana di Paleontologia e Stratigrafia*.
- Member of the Editorial Board of the international multi-disciplinary ISI journal *Evolving Earth* (Elsevier)
- Reviewer for scientific journals: *Geology*, *International Journal of Earth Sciences*, *Neues Jahrbuch für Geologie und Paläontologie*, *SEPM Special Publications*, *Facies*, *Annales de Paléontologie*, *Rivista Italiana di Paleontologia e Stratigrafia*, *Alcheringa*, *Bulletin of American Paleontology*, *Lethaia*, *Coral Reefs*, *Palaios*, *Arabian Journal of Geosciences*, *The Geological Society Special Publications*, *Historical Biology*, *Paleobiology*, *Journal of African Earth Sciences*.

Membership

International Fossil Coral and Reef Society (IFCRS)
 International Society for Reef Studies (ISRS)
 International Association of Sedimentologists (IAS)
 Società Paleontologica Italiana (SPI)
 Gruppo Italiano Carbonati, Sezione della Società Geologica Italiana (SGI)
 Consorzio Nazionale Interuniversitario per le Scienze del Mare (CoNISMa)

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