

Curriculum vitae

Nadia Sabatino, PhD

Name: Nadia
Surname: Sabatino
Gender: Female
Nationality: Italian
Birth date: 06-10-1974
Birth place: Petralia Sottana (Palermo, Italy)
E-mail: nadia.sabatino@iamc.cnr.it

Current professional situation

Research fellow at the Institute for Coastal Marine Environment (IAMC-CNR) of Capo Granitola

Profile

I am a geologist with a background in integrated stratigraphy, geochemistry and sedimentology, interested in studying deep-time environmental and climatic perturbations and changes in the depositional environment and their link to internal and external forcing mechanisms of the Earth system. In the last years I have been involved also in different projects focused on the characterization of coastal marine environment affected by anthropogenic activities.

Education

March 2007: Ph.D. in Geochemistry financed by the University of Palermo and the European Social Fund. Thesis: “The Early Toarcian anoxic event in the Tethyan domain: use of high resolution geochemical records for palaeoceanographic reconstructions”. Tutor: Prof. R. Neri.

July 2001 - Degree in Geological Sciences - University of Palermo.

Research experiences

March 2017 – present: Post-doctoral research fellowship on: *Integrated analysis of the biochemical and biophysical mechanisms determining and regulating the interactions between pollutants, ecosystem and human health*. CISAS project. IAMC-CNR of Capo Granitola.

December 2013 - December 2016: Post-doctoral research fellowship on: *Late Cretaceous – Paleogene paleoceanography on the basis of geochemical data and isotopic chemostratigraphy from sedimentary records*. PRIN 2010-2011, IAMC-CNR of Capo Granitola.

September 2012 – August 2013: Post-doc research grant on “Astronomic tuning of Cretaceous sedimentary sequences of the Umbria-Marche Basin”. Università degli Studi di Urbino

July 2009 – August 2012: Post-doc research grant (cofinanced MIUR 2003) on “Environmental crises in carbonate platforms of the Mesozoic greenhouse world”. Advisor: G. Scopelliti. Università degli Studi di Palermo, Di.STeM.

April 2007 – January 2009: Post-doc research grant (cofinanced MIUR 2003) on “Petrographic and geochemical records of global perturbation events”. Advisor: R. Neri. Università degli Studi di Palermo, Dpt. C.F.T.A.

2005 – 2008: short periods (6 months) at the Department of Earth Sciences, University of Oxford, in the form of several collaborations.

January 2002 – May 2003: Fellowship: “Progetto Antartide-P.R.N.A” on the geochemistry of Cenozoic sediments of the Ross Sea, coordinated by Prof. A. Bellanca. Università degli Studi di Palermo, Dpt. C.F.T.A.

I have attended different national and international congresses, courses and meetings

Experience on oceanographic cruises

July 2017: staff in the Marine Strategy 2017 cruise; June 2016: staff in the ANOMCITY 2016 cruise; June 2015: staff in the ANOMCITY 2015 cruise; June 2014: staff in the ANOMCITY 2014 cruise; January 2012: staff in the ANOMCITY 2012 cruise; January 2011: staff in the SICSIA 2011 cruise.

Teaching activities

2016: Course of Isotopic chemistry (Iden.Pr.eP.T project – ECOCONTROL SUD, Siracusa)

2009/2010: Course of Sedimentary Petrography. University of Palermo.

2008/2009: Course in Petrography and Applied Petrography. University of Palermo.

2007/2008: Course in Applied Mineralogy and Petrography. University of Palermo.

Technical competencies

Use of analytical equipment: Mass Spectrometry for the determination of carbon, nitrogen and oxygen stable isotopes in different matrix, scanning Electron Microscope (SEM) and X-Ray Diffraction Spectrometry (XRD).

Selected peer reviewed publications

Sabatino N., Meyers S.R., Voigt S., Coccioni R., Sprovieri M., 2017. *A new high-resolution carbon-isotope stratigraphy for the Campanian (Bottaccione section): its implications for global correlation, ocean circulation, and astrochronology*. Palaeogeography, Palaeoclimatology, Palaeoecology, in press.

Galeotti S., Moretti M., **Sabatino N.**, Sprovieri M., Ceccatelli M., Francescone F., Lanci, L., Lauretano, V., Monechi S., 2017. *Cyclochronology of the Early Eocene carbon isotope record from a composite Contessa Road - Bottaccione section (Gubbio, central Italy)*. Newsletter on Stratigraphy, doi: 10.1127/nos/2017/0347.

Oliveri E., Salvagio Manta D., Bonsignore M., Cappello S., Tranchida G., Bagnato E., **Sabatino N.**, Santisi S., Sprovieri M., 2016. *Mobility of mercury in contaminated marine sediments: biogeochemical pathways*. Marine Chemistry, doi: 10.1016/j.marchem.2016.07.002

Sabatino N., Coccioni R., Salvagio Manta D., Baudin F., Vallefucio M., Traina A., Sprovieri M., 2015. *High-resolution chemostratigraphy of the late Aptian-early Albian oceanic anoxic event (OAE 1b) from the Poggio le Guaine section (Umbria-Marche Basin, central Italy)*. Palaeogeography, Palaeoclimatology, Palaeoecology, 426, 319-333, doi: 10.1016/j.palaeo.2015.03.009

Coccioni R., **Sabatino N.**, Frontalini F., Gardin S., Sideri M., Sprovieri M., 2015. *The neglected history of Oceanic Anoxic Event 1b: insights and new data from the Poggio le Guaine section (Umbria-Marche Basin)*. Stratigraphy, 11, 245-282

Oliveri, E., Sprovieri, M., Manta, D. S., Giaramita, L., La Cono, V., Lirer, F., Rumolo, P., **Sabatino, N.** et al., 2013. *Sediment geochemistry of the Thetis hypersaline anoxic basin (eastern Mediterranean Sea)*. Sedimentary Geology, doi: 10.1016/j.sedgeo.2013.08.007

Sabatino, N., Vlahović, I., Jenkyns, H. C., Scopelliti, G., Neri, R., Velić, I., & Prtoljan, B., 2013. *Carbon-isotope record and palaeoenvironmental changes during the early Toarcian Oceanic Anoxic Event in shallow-marine carbonates of the Adriatic Carbonate Platform in Croatia*. Geological Magazine, 150(06), 1085-1102, doi:10.1017/S0016756813000083

Sprovieri, M., **Sabatino, N.**, Pelosi, N., Batenburg, S. J., Coccioni, R., Iavarone, M., & Mazzola, S., 2013. *Late Cretaceous orbitally-paced carbon isotope stratigraphy from the Bottaccione Gorge (Italy)*. Palaeogeography, Palaeoclimatology, Palaeoecology, 379-380, 81-94, doi: 10.1016/j.palaeo.2013.04.006

Incarbona A., Ziveri P., **Sabatino N.**, Salvagio M.D., Sprovieri M., 2011. *Conflicting coccolithophore and geochemical evidence for productivity levels in the Eastern Mediterranean sapropel S1*. Marine Micropaleontology, 81, 131-143, doi: 10.1016/j.marmicro.2011.09.003

Sabatino N., Neri R., Bellanca A., Jenkyns H.C., Masetti D., Scopelliti G., 2011. *Petrography and high-resolution geochemical records of Lower Jurassic manganese-rich deposits from Monte Mangart, Julian Alps*. Palaeogeography, Palaeoclimatology, Palaeoecology, 299 97-109, doi: 10.1016/j.palaeo.2010.10.039

Scopelliti G., Bellanca A., Neri R., **Sabatino N.**, 2010. *Phosphogenesis in the Bonarelli Level from northwestern Sicily, Italy: petrographic evidence of microbial mediation and related REE behaviour*. Cretaceous Research, 31, 237-248, DOI: 10.1016/j.cretres.2009.11.004

Sabatino N., Neri R., Bellanca A., Jenkyns H.C., Baudin F., Parisi G., Masetti D., 2009. *Carbon-isotope records of the Early Jurassic (Toarcian) Oceanic Anoxic Event from the Valdorbia (Umbria-Marche Apennines) and Monte Mangart (Julian Alps) sections: palaeoceanographic and stratigraphic implications*. Sedimentology, 56, 1307-1328, doi: 10.1111/j.1365-3091.2008.01035.x

Bellanca A., Aghib F.S., Neri R., **Sabatino N.**, 2005. *Bulk carbonate isotope stratigraphy from CRP3 core (Victoria Land Basin, Antarctica): evidence for palaeoclimatic evolution*. Global and Planetary Change, 45, 237-247, doi: 10.1016/j.gloplacha.2004.06.014