



FORM PER PROGETTI BANDO DOTTORATO XXXIV CICLO

1. Project title

The Middle Triassic of Sardinia (Muschelkalk) in the frame of the Western Tethys evolution

2. Proposer

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4. Key words

(Max. 5 – at least 2)

Muschelkalk, Sardinia, Middle Triassic, western Tethys

5. Abstract

(Max. 1.500 characters with spaces)

The project focuses on the Middle to lowermost Upper Triassic (Röt and Muschelkalk facies) sedimentary successions in Sardinia, to improve inter-regional correlations with Iberia and the Balearic Islands to the west and the Southern Alps (Dolomites) to the east. Those successions (mostly shallow marine facies) crops out in Nurra (NW), Sulcis-Iglesiente (SW) and Sarcidano-Gerrei (central to SE). These outcrops must be re-studied in detail and under new perspectives (event and sequence stratigraphy, integrated chronostratigraphy) for precise correlation among them and in a larger inter-regional context. Previous data paleogeographically locate Sardinia in a marine corridor connecting the Tethys Sea and the SW branch of the Germanic Sea. Nevertheless, the position of the future Corso-Sardinian Block on the southern edge of Paleo-Europe is still controversial.

The new stratigraphic works in the Middle Triassic of E Spain (e.g. Mercedes-Martín et al 2014; Escudero-Mozo et al. 2015; Pérez-Valera 2015) and the well-established stratigraphic framework of the Dolomites (e.g. Gianolla et al 1998, Stefani et al 2010; Dal Corso et al 2015) conform a solid basis for inter-basin correlations within the W Tethys, a scientific task in which Sardinia is a key area because its intermediate position. This project should contribute to the knowledge of the Triassic evolution of the Tethys, a crucial time during which the area experienced a total reorganization related to Pangea break-up and dismemberment of Cimmeria.

