

## Departamento de Ciências da Terra

**Dinoeggs** — Dinosaur eggs and embryos in Portugal.  
Paleobiological implications and paleoenvironmental settings



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Dinoeggs since March  
2012  
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**CENTRO DE INVESTIGAÇÃO EM CIÊNCIA  
E ENGENHARIA GEOLÓGICA**  
UNIVERSIDADE NOVA DE LISBOA



## Objectives

The objectives for the Project Dinoeggs, lead by Doutor Octávio Mateus are:

- Late Jurassic paleoenvironmental characterization
- Late Jurassic paleobiological characterization
- Dinosaur thermoregulation
- Dinosaur heterochrony

However, my point of interest is the local geology and stratigraphical setting, geochronology and establishment of Late Jurassic dinosaur biozones at Lourinhã Formation.

## Methodology

Field work:

- Stratigraphic description, mapping, fossil search and collect

Laboratory work:

- Preparing egg fossils, by cleaning and consolidating
- Sieving samples for microfossils and bone remains
- Scan Electron Microscope analysis of eggshells
- Polarized Light Microscope analysis of eggshell thin sections
- Tomography
- Oxygen <sup>18</sup>O and Carbon <sup>13</sup>C Isotope analysis

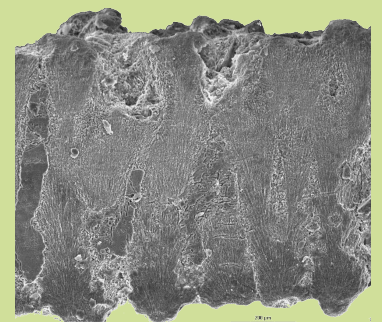
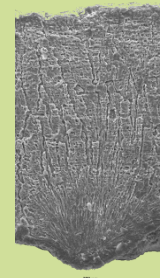
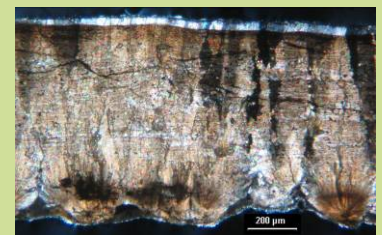
## Expected Results

Establishment of spatial and temporal relation between different egg sites

Finding new egg sites or other dinosaur fossils

Characterization of:

- eggshell type
- eggs dimension and volume
- sediments where the eggs were found
- egg nest by egg number and pattern



Funding:

