



UNIVERSIDADE  
DE ÉVORA



ED-ARCHMAT

**STW4** chaired by Prof. Ana Teresa Caldeira of UEVORA “*Biodegradation and Biotechnology in Cultural Heritage Material Science*” will be held ***in presence*** at the University of Évora on the 27th and 28th of October.

The workshop will include practical sessions at the UEVORA Biochemistry labs in the HERCULES Laboratory.

STW 4: “*Biodegradation and Biotechnology in Cultural Heritage Material Science*”

Biodeterioration is an undesirable process, triggered by living organisms, which can affect cultural and built heritage and economically important materials.

The development of new methodologies to easily detect and identify the microorganisms colonizing cultural heritage and to determine the microbial community involved in its deterioration is crucial to design appropriate effective treatment or preventive strategies.

This workshop concern methodological approaches for the characterisation of microorganisms thriving in heritage context as molecular biology techniques for DNA extraction and subsequent amplification and detection.

**Timetable**

Date	time	
27/10/21	15 –19 h	Brief Introduction_ <i>Biodegradation and Biotechnology in Cultural Heritage</i> . <i>Practical aspects:</i> A. DNA extraction from heritage samples
28/10/21	15 – 19 h	B. Quantification of extracted DNA and PCR amplification with fungi-specific primers C. DNA analysis by electrophoresis