



## International Course on Stone Conservation SC13

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**SESSION:** Biodeterioration characterization/ sample characterization

**INSTRUCTOR:** Giulia Caneva, Ornella Salvadori

**TIME:** Tuesday, 28<sup>th</sup> May/ 9:30 – 11:00 (1.5 hours) & 11:30 – 13:00 (1.5 hours)

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### SESSION OUTLINE

#### ABSTRACT

Micro and macro organisms are agents of biodeterioration. The identification of these organisms is an important step in understanding the types of damage they induce and their associated preferred habitats. Various kinds of procedures and techniques are used for organism identification. These include sampling, cultural techniques, molecular techniques, and optical and stereo microscopy. Other analytical methods are essential in the determination of the relationship between biodeteriogens and the substrate. All of this will be discussed and demonstrated in the subsequent laboratory session.

#### OBJECTIVES


By the end of this session, participants will be able to

- know the methodological process and techniques used for the study and identification of biodeteriogens;
- be able to identify the criteria for selection of a sampling technique in relation to the purpose of analysis; and
- understand the relationship between types of biodeteriogens and the deterioration they produce upon/within stone.

#### READINGS

 = Essential reading material

 = Available online

 Caneva, Giulia, Maria Pia Nugari, and Ornella Salvadori, ed. 2008. *Plant Biology for Cultural Heritage: Biodeterioration and Conservation*. Los Angeles: Getty Conservation Institute. 273-308.

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