ABSTRACT SUBMISSION

Persepolis Biodeterioration; Isolation and Inhibitory treatment

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Abstract

Conservation of cultural heritage (ancient identities) is a critical duty of nations. Biodeteriorationis one of the irreversible damagesonart works caused byMicroorganisms, lichens andinsect pests.The aim of this study was isolation, identification and inhibitory treatment ofmicroorganisms(bacteria and fungi)from carbonate monument of Persepolis.12 Samples were collected from different ports of the Persepolis(Hundred Column Hall,International Gateand XerxesPalace). Sampleswere immediately taken to the laboratory for more studying. Isolation, biofilm formation, identification and inhibitory treatment ofmicroorganisms were done respectively.Several bacteria and fungi were isolated. After passing biofilm formation test, microorganism were identified. Inhibitory treatment ofmicroorganism's in vitro experiments was done through direct methods. All of these bacteria and fungi and have an extremely slow growth rate.Results of this study will be presented in this conference.

Keywords

Persepolis, Conservation, Biodeterioration, Inhibitory treatment

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