

Nel rispetto  
delle norme **anti-Covid**  
sono disponibili solo **40** posti.

**Grenn Pass** obbligatorio

*In compliance  
with **anti-Covid** regulations  
only **40** seats are available.*

**Grenn Pass** mandatory

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INTERNATIONAL WORKSHOP OF A JOINT RESEARCH PROJECT  
(Research of conservation environment and eco-friendly  
damage control of cultural heritage Korea and Italy)



**Biological Risk for Hypogea: Shared Data  
among Italy and Republic of Korea**

Tarquinia 12<sup>nd</sup> November 2021

Biblioteca Comunale, V. Cardarelli, via Umberto I<sup>o</sup>, 34

# PROGRAM

- 10.00 **Greetings from the authorities**
- 10.20 **Caneva G.** (Univ. Roma Tre) *Biological risks for hypogea tombs: a review from international literature and new contributions*
- 10.40 **Chung Y. J.** (Korea National University of Cultural Heritage) – *Microbial risk of Goguryeo Tomb Murals in North Korea and international cooperation plan for conservation.*
- 11.00 **Maras D.F. - Cecchini A.** (Soprintendenza Archeologia, Belle Arti e Paesaggio per la provincia di Viterbo e l'Etruria Meridionale - Associazione Amici delle tombe dipinte di Tarquinia) – *Protection and conservation of the Etruscan painted tombs of Tarquinia (UNESCO Heritage site): previous experience, current necessities and future expectations.*
- 11.20
- 11.35 **Lunch break**
- 11.35 **Lee H.S.** (Konkuk University) - *Manufacturing Technology and Material of Ancient Murals in Korea.*
- 11.55 **Yu Y. G.** (Konkuk University) – *Degradation According to the Material Properties of Ancient Murals in Korea*
- 12.15 **Lee H. J.** (Korea National University of Cultural Heritage) - *In vitro trials: detrimental potential, trials of compatibility between bacterial and fungal species, and antimicrobial activity of green biocides on Italian and Korean biodeteriogens.*
- 12.35 **Park J. H.** (National Research Institute of Cultural Heritage) – *A study on the microclimate characteristics and microbial diversity for preservation of Seokbinggo (ice storage made of stone).*
- 12.55 **Bartoli F.** (Roma Tre University) – *Comparative evaluation of Antimicrobial activity of green biocides on infected substrata reproducing original materials of Italian.*
- 13.15 **Casanova A.** (Roma Tre University) – *Interference tests of green biocides for application on mural painting of Italian and Korean hypogean*
- 13.35
- 14.30 **Lunch break**
- 14.30 **Isola D.** (Roma Tre University) – *Roots damages in Etruscan tombs and biomolecular tools for their identification.*
- 14.50 **Rinaldi T.** (Univ. Sapienza) – *Microbial communities in the hypogea Etruscan tombs in Tarquinia, protection and biodeterioration of frescoes*
- 15.10 **Bruno L.** (Univ. Tor Vergata) – *Biological colonization of Roman Catacombs and other confined stone monuments: characterization and control methods*
- 15.30 **Zucconi L.** (Tuscia University, Viterbo) – *Black fungi in Etruscan tombs of Tarquinia: new findings from different tombs*
- 15.50
- 16.30 **General Discussion and Closing of the works**

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