

# ANALYSIS OF RESINOUS MATERIALS

Anu Teearu, Signe Vahur, Ester Oras, Ivo Leito Institute of Chemistry, University of Tartu, Ravila 14A, 50411, Tartu, Estonia anu.teearu@ut.ee



Euroopa Liit Euroopa Regionaalarengu Fond

Eesti tuleviku heaks

### **OBJECTS OF ANALYSIS:**



- Tartu Art Museum (Estonia).
- Brought to Tartu by Otto Friedrich von Richter at the beginning of 19th century.

Textile



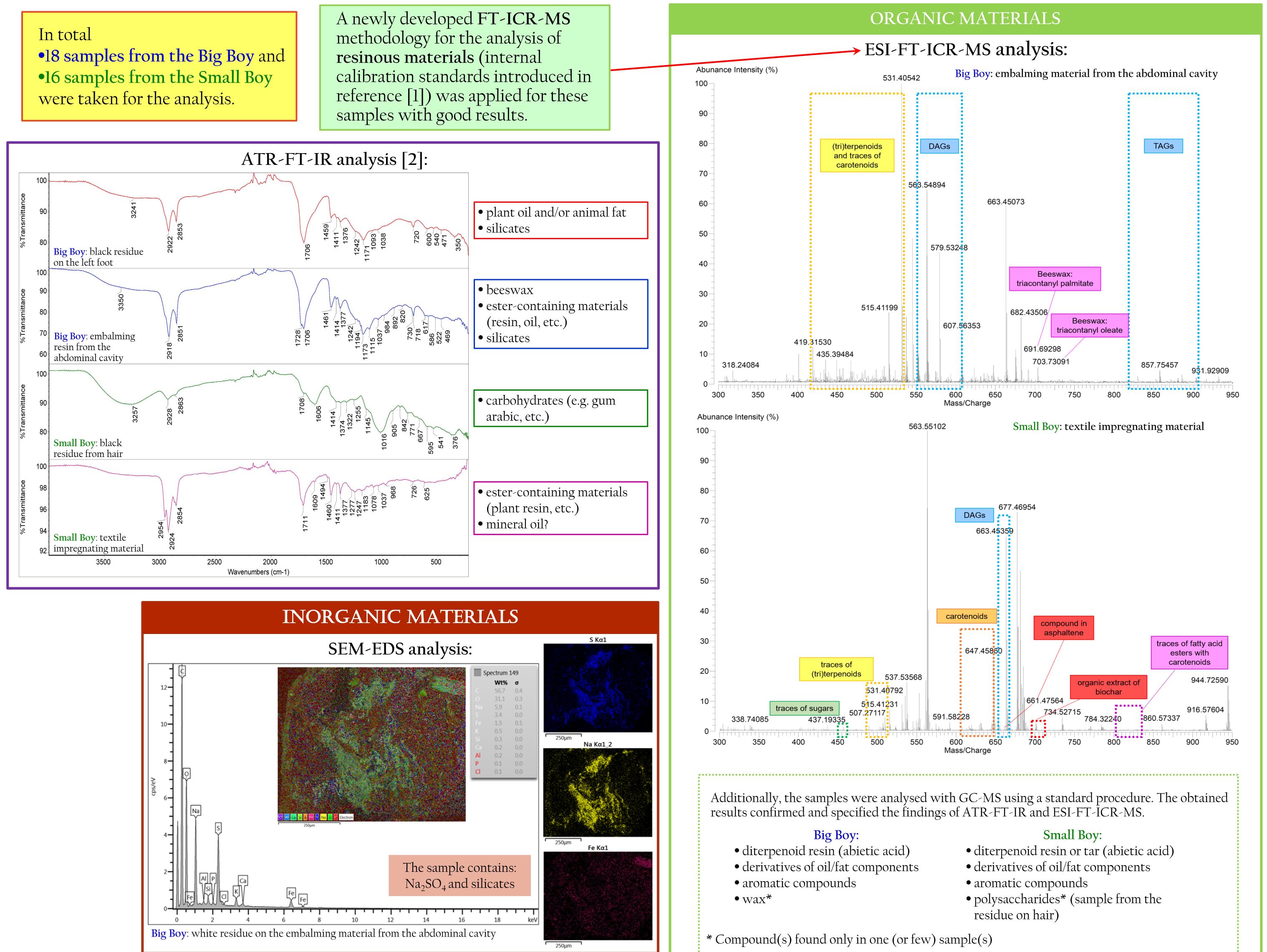






Photos: Signe Vahur

## ANALYSIS OF MATERIALS USED FOR THE EMBALMING OF THE MUMMES:



### **REFERENCES**:

### **ACKNOLEDGMENTS:**

1. Teearu, A.; Vahur, S.; Rodima, T.; Herodes, K.; Bonrath, W.; Netscher, T.; Tshepelevitsh, S.; Trummal, A.; Lõkov, M.; Leito, I. Method development for the analysis of resinous materials with MALDI-FT-ICR-MS: novel internal standards and a new matrix material for negative ion mode. Journal of Mass Spectrometry, **2017**, 52 **(9)**, 603-617. 2. Vahur, S.; Teearu, A.; Peets, P.; Joosu, L.; Leito, I. ATR-FT-IR spectral collection

of conservation materials in the extended region of 4000–80 cm<sup>-1</sup>. Analytical and Bioanalytical Chemistry, 2016, 408 (13), 3373–3379.

The authors would like to thank all the team-members from University of Tartu Art Museum, University of Tartu Institute of History and Archaeology, University of Tartu Institute of Genomics, University of Tartu Institute of Chemistry, and the Estonian Forensic Science Institute for their contribution in this project. The results of the project have been compiled into a manuscript that is about to be submitted for publication.

This work has been supported by University of Tartu rectorate funds, the Estonian Research Council Institutional and Personal Research Funding schemes IUT20-7, PUT1217, PUT1521, MOBERC14, and the Archimedes Foundation (Estophilus scholarship no. 36.10-3/338).

All calculations were performed on the High-Performance Computing Cluster of University of Tartu.

