

## Interdisciplinary Research

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Development and employment of new methodologies are seen in various fields such as oxygen isotopic dendrochronology in dating measurement, next generation DNA sequencing in DNA analysis, and high frequency inductively coupled plasma in identification of origin and material. These methodologies did not take over conventional methods, but rather are used together to increase accuracy of the analysis. On the other hand, accumulation and organization of data is being conducted to make comparative study possible for analysis with long years of accumulated research and increased data in the past such as pollen analysis and radiocarbon dating measurement. Data organization beyond the framework of researchers and institutions conducting the analysis is significant for future research. Also, analysis using a combination of methodologies in different fields is active such as dating measurement and DNA analysis. Progress is seen in fundamental research that is important to gain higher accuracy in research results.

Development of surveying technology is outstanding in recent years. Although excavation in emergency research had to be conducted on the land to be developed within the range of an archaeological site, it is important to grasp what type of landscape and ground the site was formed by measurement and geological surveys, in order to understand formation of the site and its historical significance. Various trials will continue in the future to deepen the study within limited hours and budgets, with lighter and less expensive drones, improvement of digital cameras, and development of three-dimensional reconstruction software, in addition to conventional methodologies.

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