

**B101-017**

**Room: Function Room A**

**Time: May 18 11:45-12:00**

**Retrieval of fossil DNA from thermophilic bacteria in deep subsurface rocks by a newly developed DNA extraction method.**

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A new method for DNA extraction was developed for deep subsurface core samples. As a result, DNA fragments derived from thermophilic bacteria were successfully obtained in Tertiary sedimentary rocks at depths below 300 m, where the in-situ temperature was around 25C. These results imply the formation of thermophilic subsurface biosphere in the geologic past.