

Examination of the properties of remanent magnetization carried by magnetotactic bacteria *Magnetospirillum magnetotacticum* MS-1

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Variation of the past geomagnetic field is recorded in marine sediments as a fossil magnetization, called natural remanent magnetization (NRM). It has begun to be pointed out that NRM of the sediment is carried not only by detrital and aeolian magnetic grains but also by biogenic magnetic grains originated from magnetotactic bacteria. To investigate characters of NRM carried by biogenic magnetic grains, we cultured the microaerobic bacteria *Magnetospirillum magnetotacticum* MS-1 in laboratory and made samples using them for remanent magnetization measurements by simulating a very early process of sediment formation. We will report properties and characters of the remanent magnetization carried by the samples including simulated NRMs.