

**B101-012**

**Room: 302**

**Time: May 29 15:00-15:15**

## **Structural change of layer manganese oxide mineral of bacterial origin to todorokite by HRTEM**

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Manganese layer minerals of bacterial origin from Onnetoh, Yunotaki, Hokkaido were examined mainly by HRTEM. 10 Å layer structure changed gradually to todorokite structure. Its initial stage of forming wall-like structure in layer structure was observed. In comparison, todorokite structures of Mn ores of Tertiary age, in Japan were also examined. Structural changes, textures and origin of Mn ores were discussed.