

## Biological and non-biological sulfide precipitation from hydrothermal fluids at the Toyoha mine, Hokkaido

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Abundant fine-grained pyrites are found in the aragonite sinter developed on the discharging area of hydrothermal fluids at subsurface of the Toyoha mine, Hokkaido. Sulfur isotope compositions of these fine-grained pyrites are distinctive compared to hydrothermal sulfides. Systematic analyses of sulfur isotope may reveal the relationship between the organic-world and inorganic world.