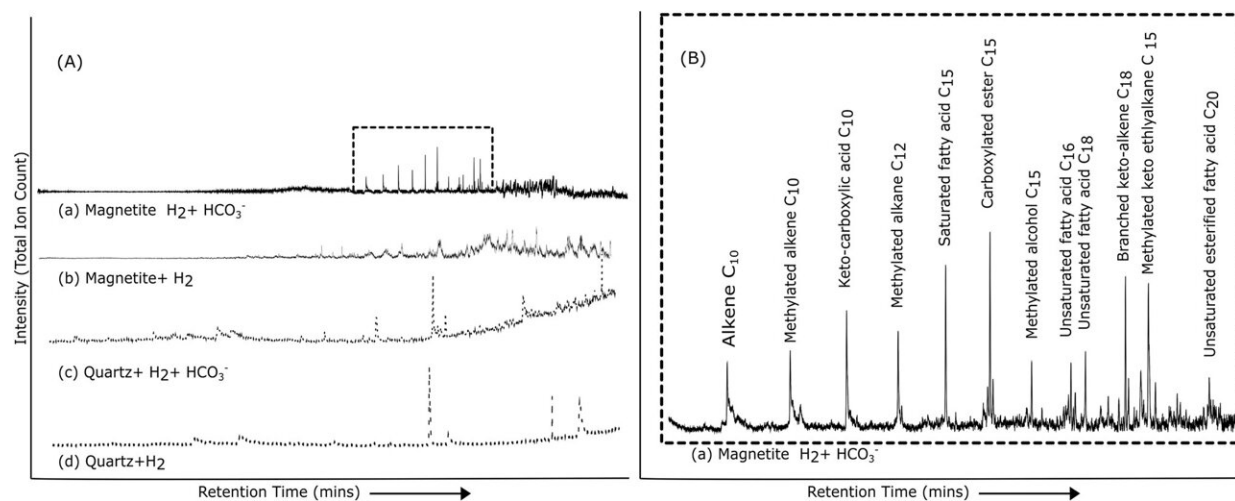


# Study uncovers potential origins of life in ancient hot springs

January 12 2024



Total Ion Chromatograms of magnetite following hydrothermal reaction compared to the controls. **A** Comparison of a representative of one of the three replicate total ion chromatograms obtained from reacting magnetite with  $\text{HCO}_3^-$  and  $\text{H}_2$  at  $90^\circ\text{C}$  and 16 bar total pressure for 16 h alongside controls. (a) Organic molecules generated using magnetite with  $\text{H}_2$  and  $\text{HCO}_3^-$ . (b) Control sample using magnetite with  $\text{H}_2$  (c) Control sample using quartz with  $\text{H}_2$  and  $\text{HCO}_3^-$  (d) Control sample using quartz with  $\text{H}_2$ . **B** Magnification of the chromatogram region bounded by the broken line box in (A). Peaks with signal: noise ratio

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