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Eigenbrode J. L. Steele A. Summons R. E. McAdam A. C. Sutter B. Franz H. B. Freissinet C. Millan M. Glavin D. Ming D. W. Navarro-Gonzalez R. Pavlov A. Hurowitz J. A. Grotzinger J. Conrad P. G. Mahaffy P. R.
In Situ Observations of Refractory Organic Matter in Lacustrine Mudstones of Gale Crater and Their Implications for the Search for Organic Biosignatures **[#2012]**
Evidence of refractory organic matter has been discovered in the ancient lacustrine sediments of Gale Crater by the Sample Analysis at Mars (SAM) instrument suite onboard the Curiosity rover.

Onstott T. C. Harris R. L. Sherwood Lollar B. Pedersen K. A. Colwell F. S. Pfiffner S. M. Phelps T. J. Kieft T. L. Bakermans C.
Biomarker Preservation Potential of Subsurface Ecosystems **[#2041]**
If surface life emerged on Mars it may have succumbed to a Gaian bottleneck, whereas subsurface life would have continued to grow and evolve sheltered in rocks with sub-freezing saline pore water and their remains preserved in excavated rock.