

Supplementary Data

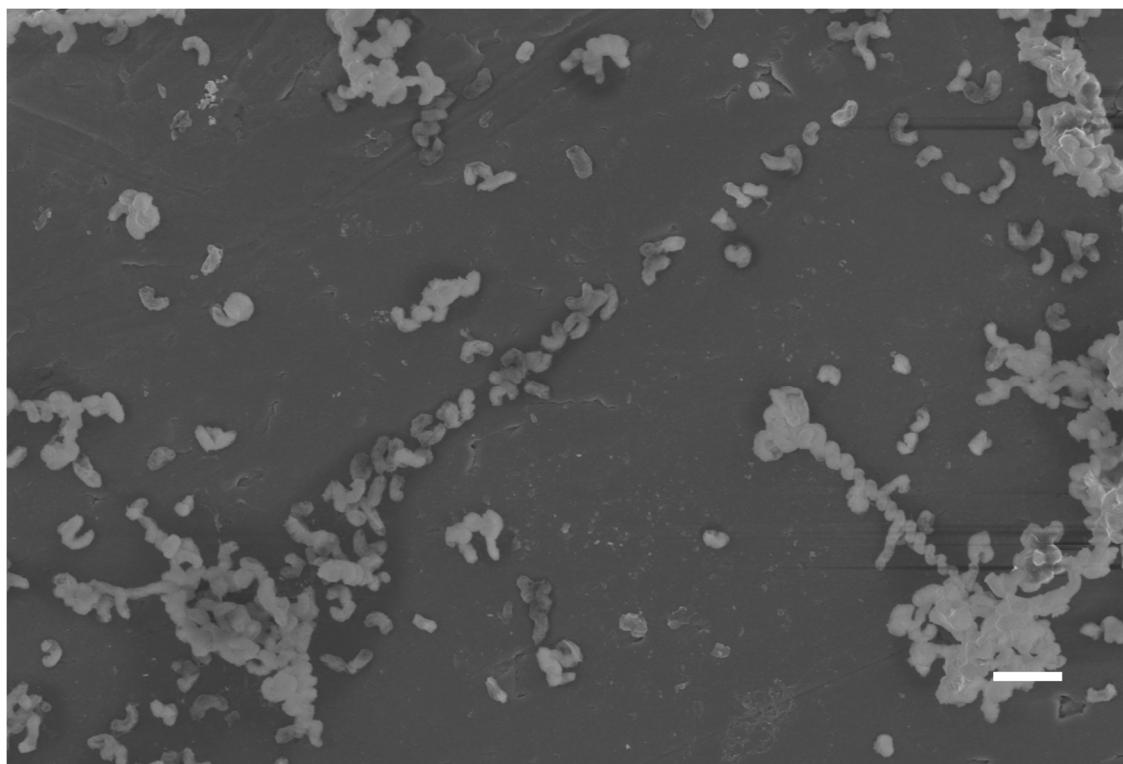


Figure S1. SEM micrograph of strain *Leptospirillum* sp. CC. Cells were grown on ferrous iron at 40 °C for 5 days. Bar represents 2 μm.

Table S1. Iron leaching from pyrite by a pure culture of *L. ferriphilum* CC and associations with other iron- and sulfur-oxidizing and heterotrophic bacteria.

Bacterial Strains and Their Associations	Iron Extracted for 25 Days			pH, Initial/Final	Final ORP, mV, Ag/AgCl
	Fe ³⁺	g/L Fe ²⁺	% Fe Total		
Control	0	0.840	0.840	4.8	1.7/1.6 600
<i>L. ferriphilum</i> CC	2.98	0.56	3.54	20.2	1.7/1.9 650
<i>At. ferrooxidans</i> ZnC	1.7	1.62	3.32	18.9	1.7/1.8 635
<i>L. ferriphilum</i> CC + <i>At. ferrooxidans</i> ZnC	5.43	0.672	6.1	34.8	1.7/2.0 775
<i>L. ferriphilum</i> CC + <i>At. albertensis</i> SO-2	3.376	0.824	4.2	24.0	1.7/1.7 625
<i>L. ferriphilum</i> CC + <i>Acidocella</i> sp. RBA	9.3	0.504	9.8	56.0	1.7/1.6 715
<i>At. ferrooxidans</i> ZnC + <i>L. ferriphilum</i> + <i>At. albertensis</i> SO-2	6.8	0.112	6.94	39,7	1.7/1.1 850