

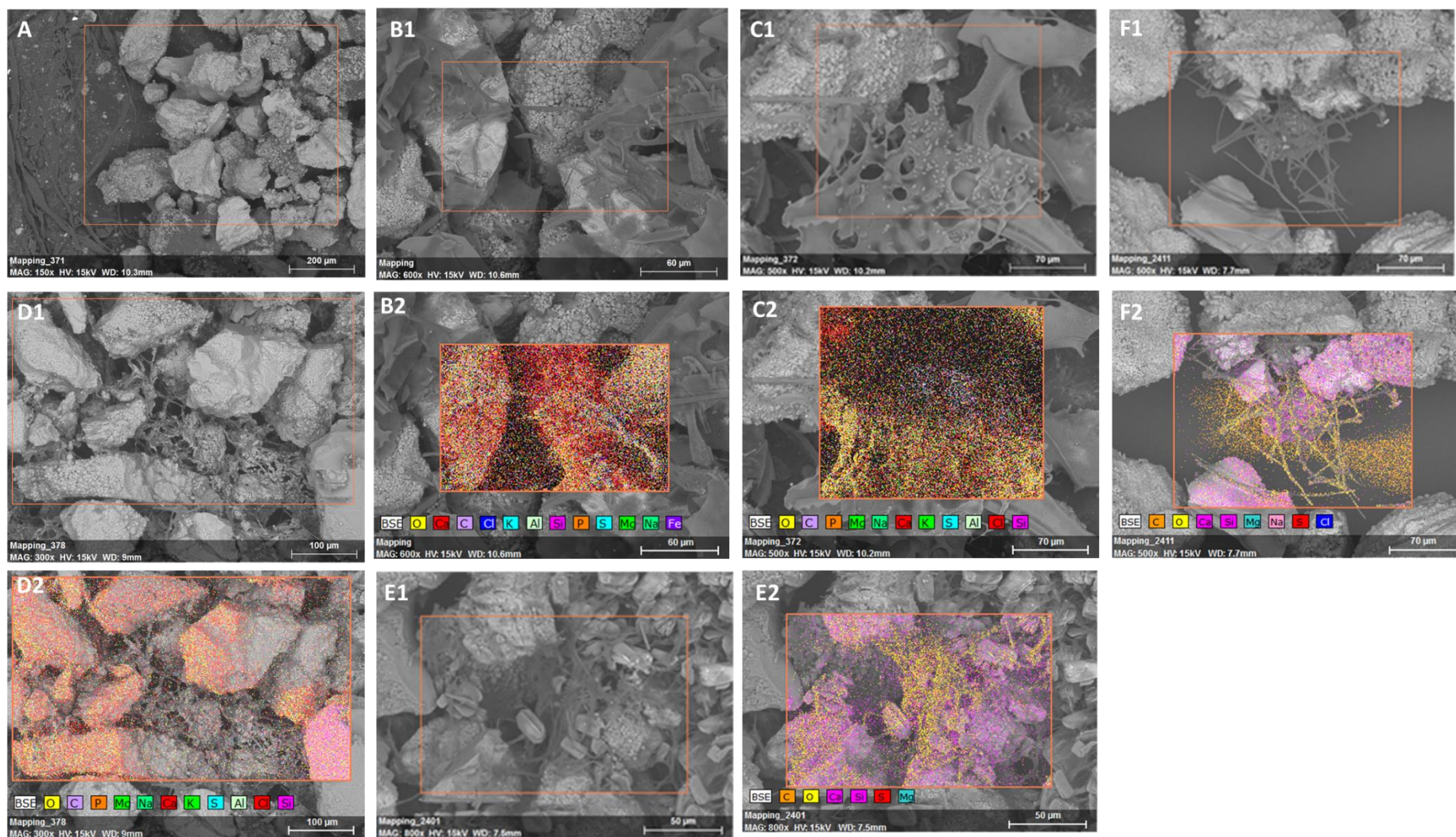
Supplementary data S1. Percentage of calcium and silicium released into solution, Percentage of glucose consumed and pH for all the experiments

Species		% Ca released in solution		% Si released in solution		% Glucose consumed		pH	
		Mean	Standard deviation	Mean	Standard deviation	Mean	Standard deviation	Mean	Standard deviation
Bacteria	<i>Burkholderia</i>	1.6	0.293	0.0056	0.0021	93.8	0.280	7.720	0.061
	<i>Massilia sp.</i>	1.4	0.034	0.0053	0.0008	91.5	0.875	7.923	0.446
	<i>Bacillus sp.</i>	0.4	0.027	0.0000	0.0000	43.0	7.337	7.267	0.067
	<i>Bacillus licheniformis</i>	1.7	0.194	0.0010	0.0006	67.0	0.351	7.493	0.208
	<i>Bacillus simplex</i>	0.5	0.084	0.0000	0.0000	29.7	10.009	7.520	0.026
	<i>Microbacterium sp.</i>	1.1	0.061	0.0055	0.0016	94.0	0.550	7.923	0.197
	<i>Microbacterium phyllosphaerae</i>	0.6	0.243	0.0000	0.0000	58.5	2.775	7.523	0.000
	<i>Stenotrophomonas sp.</i>	1.5	0.016	0.0046	0.0009	50.1	4.696	7.433	0.129
	<i>Stenotrophomonas maltophilia</i>	0.6	0.121	0.0121	0.0029	39.5	1.025	7.660	0.315
	<i>Pseudomonas gessardii</i>	1.6	0.035	0.0126	0.0013	93.9	0.280	7.667	0.237
	<i>Pantoea agglomerans</i>	1.5	0.029	0.0016	0.0005	66.8	0.202	7.483	0.023
	<i>Enterobacter sp.</i>	0.6	0.017	0.0002	0.0003	18.0	6.101	8.087	0.042
	<i>Clavibacter michiganensis</i>	0.7	0.053	0.0016	0.0006	16.3	3.948	7.720	0.046
	<i>Streptomyces sp.</i>	0.4	0.051	0.0010	0.0017	4.0	12.371	7.603	0.065
	<i>Rhodococcus sp.</i>	0.3	0.034	0.0018	0.0007	12.2	12.651	7.557	0.176
	<i>Pedobacter sp.</i>	2.3	0.074	0.0000	0.0000	79.0	1.087	7.770	0.020
Fungi	<i>Mucor circinelloides</i>	2.41	0.57	0.030	0.001	56.63	2.71	8.04	0.10
	<i>Aureobasidium sp.</i>	2.59	0.72	0.045	0.012	68.69	5.21	7.80	0.16
	<i>Trichoderma sp.</i>	4.70	1.36	0.023	0.001	95.69	4.54	6.00	1.10
	<i>Penicillium glandicola</i>	0.92	0.13	0.043	0.001	77.02	5.13	7.21	0.26
	<i>Aureobasidium pulullans</i>	6.54	0.64	0.050	0.001	100.27	0.03	7.83	0.13

	<i>Cladosporium sp.</i>	1.72	0.45	0.026	0.002	86.71	7.72	7.82	0.10
	<i>Neocucurbitaria irregularis</i>	2.19	0.42	0.050	0.003	71.32	11.96	7.04	0.88
	<i>Stachybotrys chratrum</i>	3.06	1.35	0.055	0.002	69.63	14.02	7.10	1.02
	<i>Penicillium speluncae</i>	1.67	0.20	0.058	0.002	46.99	4.80	7.57	0.07
	<i>Beauveria bassiana</i>	1.58	0.11	0.061	0.003	40.11	6.29	7.73	0.14
	<i>Aspergillus tubingensis</i>	0.63	0.30	0.070	0.005	68.45	14.43	3.15	0.22
	Blank	0.40	0.15	0.03	0.02	0.00	1.46	7.89	0.12

Supplementary data S2. Low molecular mass organic acids concentrations (mg/l) in limestone biodissolution by bacterial strains. “-“ means below detection limits.

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Supplementary data S3. Scanning electron micrographs of initial (non-contacted) limestone grains (A) and after 7 days in the bioleaching medium with *Rhodococcus* sp. (B), *Stenotrophomonas* sp. (C) *Pedobacter* sp. (D), *Penicillium glandicola* (E) and *Aureobasidium* sp. (F)