

Identification of bacterial prey in the culture of *Andalucia incarcerata*

To identify the bacterial prey that were co-cultured with *A. incarcerata*, genomic DNA from the harvested cells was extracted with the UltraClean Soil DNA isolation Kit (MO BIO Laboratories) and bacterial 16S rRNA genes were PCR-amplified with the primers (forward: 5'-AGAGTTTGATCCTGGCTCAG-3' and reverse: 5'-GGTTACCTTGTTACGACTT-3'). After the PCR-amplified products were cloned as described above, the sequences of 48 clones were obtained and subsequently analyzed using Blast against the non-redundant database for identification. For gas chromatography mass spectrometry the bacterial prey cells were isolated from the culture of *A. incarcerata* with a capillary pipette and a bacterial culture without *A. incarcerata* was established using the same medium. The bacterial composition of the *A. incarcerata*-free culture was confirmed to be identical to that of the original culture with *A. incarcerata* by clone sequencing. There has been no evidence that any of the bacterial species within the genera *Vibrio*, *Fusibacter*, *Bacteroides*, and *Arcobacter* identified in the culture of *A. incarcerata* by ribosomal RNA typing produce tetrahymanol.

Table S1. Bacterial prey in the culture of *Andalucia incarcerationata* identified by ribosomal RNA typing.

Bacterial prey identified	Homology	Clone number
<i>Vibrio</i> sp.	<i>Vibrio</i> sp. strain MM03 (99%)	34
<i>Bacteroidetes</i> sp.	<i>Bacteroidetes</i> sp. strain Ko710 (98%)	6
<i>Fusibacter</i> sp.	<i>Fusibacter paucivorans</i> (95%)	5
<i>Arcobacter</i> sp.	<i>Arcobacter nitrofigilis</i> (99%)	3