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Deterministic mechanisms define the long-term anaerobic digestion microbiome and its functionality regardless of the initial microbial community

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## ACCEPTED MANUSCRIPT Deterministic mechanisms define the long-term anaerobic digestion microbiome and its functionality regardless of the initial microbial community M. Peces<sup>a,\*</sup>, S. Astals<sup>b</sup>, P.D. Jensen<sup>b</sup>, W.P. Clarke<sup>a</sup> <sup>a</sup> Centre for Solid Waste Bioprocessing, Schools of Civil and Chemical Engineering, The University of Queensland, St. Lucia Campus, 4072, QLD, Australia. <sup>b</sup> Advanced Water Management Centre, The University of Queensland, St. Lucia Campus, 4072, QLD, Australia. \* Corresponding author: Miriam Peces. Centre for Solid Waste Bioprocessing, Schools of Civil and Chemical Engineering, The University of Queensland, St. Lucia Campus, 4072 (QLD), Australia. miriam.peces@gmail.com **Keywords** Anaerobic digestion, microbial community, core-community, activity assays, kinetics, correlation.

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