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Culture-dependent and -independent analysis of bacterial community structure in Jiangshui, a traditional Chinese fermented vegetable food

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Culture-dependent and -independent analysis of bacterial 1 community structure in Jiangshui, a traditional Chinese 2 fermented vegetable food 3 4 Zhang Jun^{a*}, Wu Shuaishuai^a, Zhao lihua^a, Ma qilong^a, Li Xi^b, Ni 5 Mengyang^a, Zhou Tong^a, Zhu Hongli^{a*} 6 7 a Key Laboratory of Resources Biology and Biotechnology in Western China, Ministry of Education, College of Sciences, Northwest University, Xi'an, Shaanxi, 710069, China 8 b Xi'an Supervision and Inspection Institute of Product Quality, Xi'an, Shaanxi, 710065, 9 10 China 11 *Corresponding author 12 *These two authors contributed equally as corresponding author Email: zhangjun@nwu.edu.cn; zhuyjw1971@nwu.edu.cn 13 14 15 **Abstract** 16 17 The bacterial community structure of Jiangshui, a traditional Chinese 18 fermented vegetable food, was investigated using a culture-dependent 19 method combined with culture-independent denaturing gradient gel 20 electrophoresis (DGGE) analysis. Lactic acid bacteria (LAB) strains 21 isolated from Jiangshui were closely related (> 99% 16S rDNA sequence 22

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