Supplementary Materials

Fate of rice shoot and root residues, rhizodeposits, and microbe-assimilated carbon in paddy soil: I. Decomposition and priming effect

Zhenke Zhu[1,2,#], Guanjun Zeng[2,#], Tida Ge[1,2*], Yajun Hu[1], Chengli Tong[1], Olga Shibistova[3,4], Juan Wang[1], Georg Guggenberger[1,3], and Jinshui Wu[1,2*]

[1]Key Laboratory of Agro-ecological Processes in Subtropical Region, Institute of Subtropical Agriculture, Chinese Academy of Sciences, Hunan, 410125, China

[2]Changsha Research Station for Agricultural and Environmental Monitoring, Institute of Subtropical Agriculture, Chinese Academy of Sciences, Hunan, 410125, China

[3]Institute of Soil Science, Leibniz Universität Hannover, 30419 Hannover, Germany

[4]VN Sukachev Institute of Forest, Siberian Branch, Russian Academy of Sciences, 660036 Krasnoyarsk, Russian Federation

#These authors contributed equally to this work.

Correspondence to: Tida Ge (gtd@isa.ac.cn) and Jinshui Wu (jswu@isa.ac.cn)
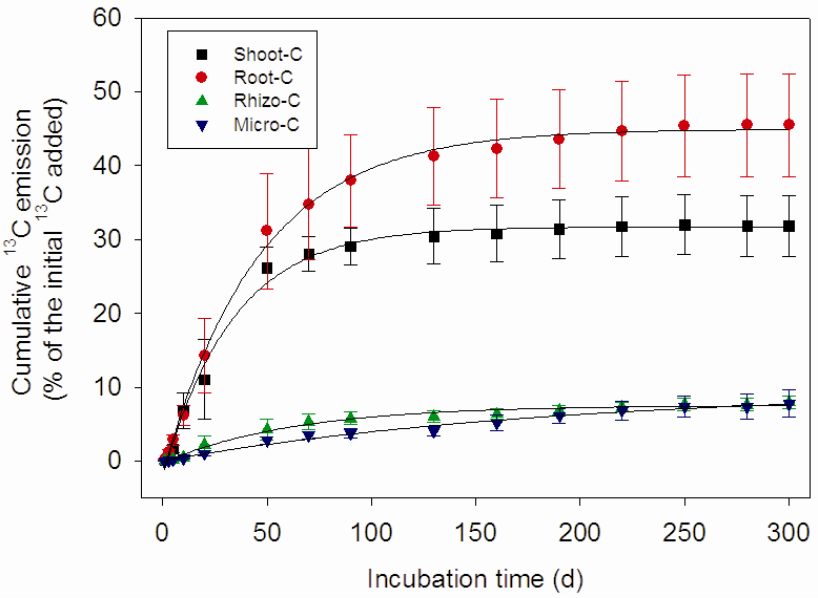
Fig. S1. Cumulative ^{13}C emissions (% initial ^{13}C) of rice paddy soils treated with different ^{13}C-labelled carbon substrates over a 300-d incubation. Values and error bars represent the means ± SE (n = 4). Shoot-C, unlabelled paddy soil containing ^{13}C-labelled shoot residue; Root-C, unlabelled paddy soil containing ^{13}C-labelled root residue; Rhizo-C, paddy soil containing ^{13}C-labelled rice rhizodeposits; Micro-C, paddy soil containing ^{13}C-labelled microbial-assimilated C.