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Dynamics of soil respiration and microbial communities: Interactive controls of temperature and substrate quality

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Dynamics of soil respiration and microbial communities: interactive controls of 1 temperature and substrate quality 2 3 4 5 Rana Shahbaz Ali *, Christian Poll, Ellen Kandeler Institute of Soil Science and Land Evaluation, Department of Soil Biology, University of 6 7 Hohenheim. Emil-Wolff-Str. 27, 70593 Stuttgart, Germany. 8 9 * Corresponding author: 10 Rana Shahbaz Ali (rana@uni-hohenheim.de; shahbazrana.rana@gmail.com) 11 Emil-Wolff-Str. 27, 70593 Stuttgart, Germany 12 13 Tel.: +49 (0)711 459 – 23383; Fax: +49 (0)711 459 – 23117 14 Key words: Carbon decomposition; Substrate quality; Bacteria; Fungi; Bacterial taxa; PLFA. 15

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