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Contrastive effects of inorganic phosphorus addition on soil microbial respiration and microbial biomass in tropical monoculture tree plantation soils in Thailand

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## ACCEPTED MANUSCRIPT

Agriculture and Natural Resources. 2016. 50(5): xx-xx. 1  $\mathbf{2}$ Agr. Nat. Resour. 2016. 50(5): xx-xx. 3 Contrastive effects of inorganic phosphorus addition on soil microbial respiration and 4 microbial biomass in tropical monoculture tree plantation soils in Thailand  $\mathbf{5}$ 6 Taiki Mori<sup>ad\*</sup>, Chongrak Wachrinrat<sup>b</sup>, Duriva Staporn<sup>b</sup>, Ponthep Meunpong<sup>b</sup>,  $\overline{7}$ Warawich Suebsai<sup>b</sup>, Kazuki Matsubara<sup>c</sup>, Khitja Boonsri<sup>b</sup>, Warisa Lumban<sup>b</sup>, 8 Manassawee Kuawong<sup>b</sup>, Thanida Phukdee<sup>b</sup>, Juruwan Srifai<sup>b</sup>, Kannika Boonman<sup>b</sup> 9 10<sup>a</sup>Forest Ecology Laboratory, Graduate School of Agriculture, Kyoto University, 11 12Kitashirakawa Oiwake-cho Sakyo-ku, Kyoto, 606-8502, Japan <sup>b</sup>Faculty of Forestry, Kasetsart University, 50 Ngamwongwan Road, Chatuchak, Bangkok 1310900, Thailand 14<sup>c</sup>Shiga University of Medical Science, Seta Tsukinowa-cho, Otsu, Shiga, 520-2192, Japan 15<sup>d</sup>Key Laboratory of Vegetation Restoration and Management of Degraded Ecosystems, South 16China Botanical Garden, Chinese Academy of Sciences, Guangzhou, Guangdong, 510650, 17China 181920Received 13/05/15 Accepted 18/04/16 2122Keywords: 23 $\mathbf{24}$ Microbial biomass carbon, Phosphorus, 25Soil respiration, 26

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