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Interactive comment

## Interactive comment on "Divergence of dominant factors on soil microbial communities and functions in forest ecosystems along a climatic gradient" by Zhiwei Xu et al.

## **Anonymous Referee #1**

Received and published: 28 September 2017

Divergence of dominant factors on soil microbial communities and functions in forest ecosystems along a climatic gradient is a investigation paper. Authors chose 12 forests along three climate zones to investigate the variation of soil activities and microbe structures among these forests along three climate zones. The results showed that soil enzyme activities and microbial PLFAs differed with forest types along climatic zones. Both climate and forest type had significant effects on soil enzyme activities and microbial communities. Litter nutrients made an important effect to variations in the soil microbial communities and enzyme activities in temperate zones, while soil micro-climate and nutrients were the main effect factors on the soil microbial community structure and enzymatic activities in warm temperate and subtropical zones. The

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SCB in temperate zone was not same as it in Subtropical forest, it is better abbreviated

as SCBt SCBs 3. Fig. 2 ABCD was represent different enzyme activities, please check them 4. The format of some references did not fit with the format of this journal such as New Physiologist which did not was abbreviated.

Interactive comment on Biogeosciences Discuss., https://doi.org/10.5194/bg-2017-243, 2017.

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