Supplementary Information for

Temperature Sensitivity Response of Soil Enzyme Activity to Simulated Climate Change at Growth Stages of Winter Wheat

This file includes:

Table S1 to S2

Table S1. The temperature setting of artificial climate chamber from jointing stage to mature stage of winter wheat

Date	AT（℃）	ET（℃）
2021/02/19-2021/03/21	12	16
2021/03/22-2021/03/29	13	17
2021/03/30-2021/04/04	14	18
2021/04/05-2021/04/08	15	19
2021/04/09-2021/04/14	16	20
2021/04/15-2021/04/21	17	21
2021/04/22-2021/05/07	19	23
2021/05/08-2021/05/16	20	24
2021/05/17-2021/05/26	21	25
2021/05/27-2021/05/30	24	28
2021/05/31-2021/06/01	25	29

Note：AT: ambient temperature；ET: Simulated warming 4℃

Table S2. Substrates and incubation time for determination of soil enzyme activity.

Soil enzyme	Substrate	Incubation time (h)
Leucine aminopeptidase (LAP)	L-Leucine-7-amino-4-methylcoumarin	2
Alanine transaminase (ALA)	L-Ala-7-amino-4-methylcoumarin	0.5
β-glucosidase (BG)	4-MUB-β-D-glucoside	2
β-xylosidase (MU)	4-MUB-β-D-xylopyranoside	4
β-N-acetyl glucosidase (NAG)	4-MUB-N-acetyl-β-D-glucosaminide	4
Cellobiohydrolase (CBH)	4-MUB-β-D-cellobioside	4
Alkaline phosphatase (AP)	4-MUB-phosphate	4