

## Supplement

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**Pyrosequencing investigation into the bacterial communities  
in the Qinghai-Tibet Plateau soils associated with soil  
characteristic factors**

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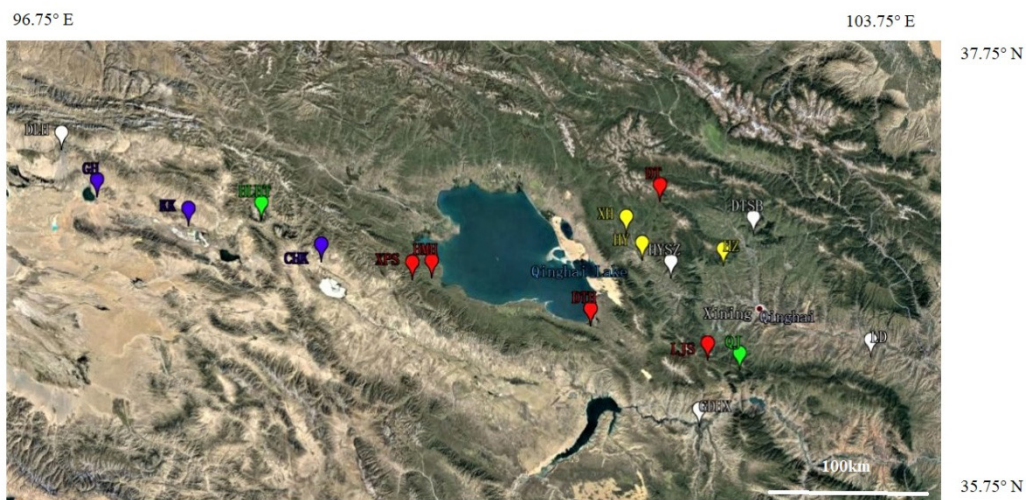


Figure S1 Geographic locations of 18 sampling sites.

GH, KK, and CHK samples are from gray desert soil; DLH, HYSZ, GDHX, DTSB, and LD samples are from castanozems; HLHT and QJ sample are from gray-cinnamon soil; HMH, XPS, DTH, LJS, and DT are from mountain meadow soil; HY, XH, and HZ are from chernozems.

Table S1 Soil physical and chemical characteristics of 18 soil samples from the QTP.

Samples	Location	Elevation(m)	Position	MAT °C	SM%	pH	TOC%	TN%	P%	K%	Land use	Soil type
GH	Gahai	2871	37.12°N 97.61°E	19.2	19.28	8.55	1.69	0.30	0.11	2.16	<i>Achnatherum splendens</i>	gray desert soil
HLHT	Halihatu	3499	37.03°N 98.66°E	13.4	31.05	7.55	1.49	1.40	0.59	2.24	<i>Picea crassifolia</i>	gray-cinnamon soil
DLH	Delhi	2945	37.35°N 97.37°E	11.3	26.74	8.07	6.55	0.80	0.16	2.25	<i>Lycium barbarum</i>	castanozems
DTH	Daotanghe	3396	36.53°N 100.72°E	12.03	34.91	8.02	7.52	0.90	0.16	2.62	<i>Gentiana veitchiorum</i>	mountain meadow soil
LJS	Lajishan	3802	36.36°N 101.45°E	14.16	37.45	8.30	6.5	0.70	0.16	2.43	<i>Kobresia humilis</i>	mountain meadow soil
QJ	Qunjia	3049	36.31°E 101.65°N	21.47	46.97	8.43	7.81	0.90	0.18	2.52	<i>Pinus densata</i>	gray-cinnamon soil
DT	Datong beichuan	3674	37.15°N 101.15°E	20.34	42.71	8.33	7.17	0.90	0.18	2.24	<i>Potentilla gerida</i>	mountain meadow soil
HY	Haiyan	2992	36.86°N 101.04°E	19.06	37.49	8.32	7.52	9.00	0.18	2.52	<i>Spiraea blumei</i>	chernozems
XH	Xihai	3126	36.99°N 100.94°E	18.34	35.16	8.26	5.58	0.70	0.14	2.52	<i>Potentilla glabra</i>	chernozems
LD	Leduputai	2146	36.37°N 102.48°E	23.18	36.18	8.24	11.66	1.20	0.18	2.43	<i>Triticum aestivum</i>	castanozems
HMH	Heimahe	3298	36.76°N 99.73°E	16.29	40.19	8.16	11.47	1.00	0.20	2.71	<i>Potentilla gerida</i>	mountain meadow soil
XPS	Xiangpihan	3815	36.75°N 99.61°E	16.54	38.16	8.17	7.47	1.10	0.18	2.71	<i>Potentilla gerida</i>	mountain meadow soil
HZ	Huangzhong	2730	36.83°N 101.55°E	18.24	29.46	8.34	12.72	1.40	0.18	2.52	<i>Caragana microphylla</i>	chernozems
HYSZ	Huangyuanshenzhong	2960	36.77°N 101.22°E	17.64	34.16	8.36	10.42	1.20	0.19	2.61	<i>Brassica napus</i>	castanozems
DTSB	Datong shuobei	2550	36.99°N 101.74°E	19.46	37.54	7.86	12.85	1.50	0.16	2.42	<i>Brassica oleracea</i>	castanozems
GDHX	Guide hexi	2231	36.03°N 101.40°E	21.34	12.46	8.18	9.71	2.10	0.11	2.42	<i>Prunus armeniaca</i>	castanozems
CHK	Chaka	3124	36.83°N 99.04°E	18.26	9.54	7.69	8.96	1.20	0.29	2.24	<i>Agropyron cristatum</i>	gray desert soil
KK	Keke	2963	36.99°N 98.20°E	19.64	9.31	7.88	3.71	0.33	0.16	2.16	<i>Stipa breviflora</i>	gray desert soil

MAT, mean annual temperature; SM, soil moisture; TOC, total organic carbon; TN, total nitrogen; P, phosphorus; K, potassium