

## Supplementary Materials

**Table S1.** Pearson correlation matrix of soil nutrient, microbial biomass and enzyme activity in *E. grandis* × *E. urophylla* sprout forests.

	DOC	TN	AN	TP	AP	MBC	qMBC	MBN	qMBN	MBP	qMBP	BG	URE	ACP
SOC	<b>0.82***</b>	<b>0.96***</b>	<b>0.85***</b>	<b>0.75***</b>	<b>0.69***</b>	0.31	<b>-0.64***</b>	<b>0.54**</b>	-0.23	<b>0.74***</b>	0.30	<b>0.53**</b>	<b>0.66***</b>	0.11
DOC		<b>0.77***</b>	<b>0.62***</b>	<b>0.61***</b>	<b>0.68***</b>	0.28	<b>-0.53**</b>	<b>0.50**</b>	-0.12	<b>0.73***</b>	<b>0.41*</b>	<b>0.49**</b>	<b>0.69***</b>	0.07
TN			<b>0.88***</b>	<b>0.85***</b>	<b>0.64***</b>	0.30	<b>-0.58***</b>	<b>0.58***</b>	-0.23	<b>0.72***</b>	0.14	<b>0.51**</b>	<b>0.66***</b>	0.17
AN				<b>0.77***</b>	<b>0.64***</b>	0.25	<b>-0.57**</b>	<b>0.48**</b>	-0.22	<b>0.66***</b>	0.16	<b>0.51**</b>	<b>0.57**</b>	0.18
TP					<b>0.59***</b>	0.18	<b>-0.46*</b>	<b>0.51**</b>	-0.19	<b>0.78***</b>	0.05	<b>0.41*</b>	0.31	0.12
AP						-0.24	<b>-0.80***</b>	0.17	<b>-0.38*</b>	<b>0.70***</b>	<b>0.45*</b>	<b>0.65***</b>	0.25	0.07
MBC							<b>0.47**</b>	<b>0.65***</b>	<b>0.45*</b>	0.08	-0.16	-0.23	<b>0.48**</b>	0.11
qMBC								0.06	<b>0.46*</b>	<b>-0.62***</b>	<b>-0.53**</b>	<b>-0.61***</b>	-0.25	0.02
MBN									<b>0.64***</b>	<b>0.45*</b>	0.08	0.10	<b>0.60***</b>	0.17
qMBN										-0.16	0.01	-0.28	0.13	0.11
MBP											<b>0.64***</b>	<b>0.56**</b>	<b>0.38*</b>	0.06
qMBP												0.34	0.20	-0.17
BG													0.35	<b>0.56**</b>
URE														0.24

Note: Bold be used for highlighting correlationship that over significant level ( $P < 0.05$ ). \*:  $P < 0.05$ , \*\*:  $P < 0.01$ , \*\*\*:  $P < 0.001$ .