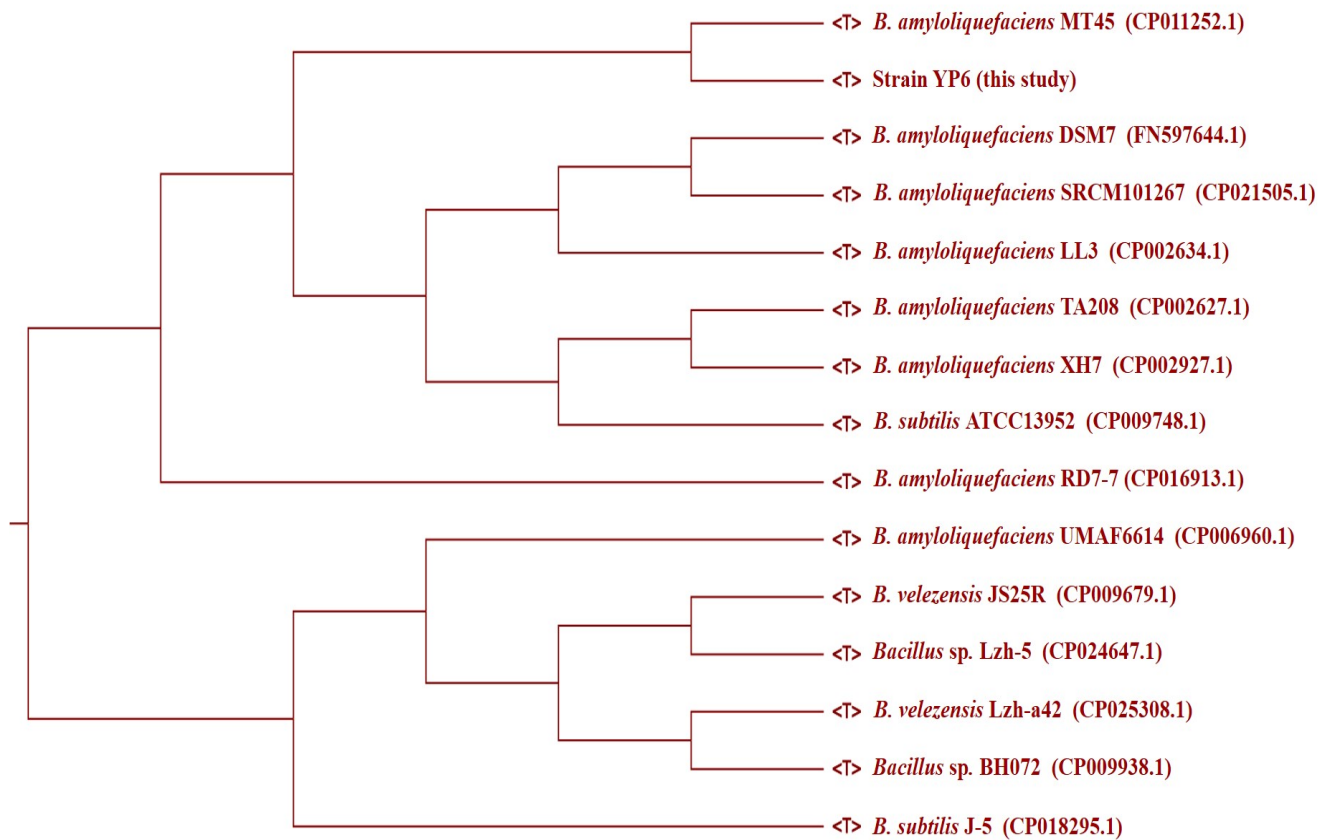


Appendix A. The plant-growth-promoting activity and OPs-degrading capability of strain YP6. (a) The solubilizing-phosphate effect of strains; (b) The contents of indole-3-acetic acid (IAA) and siderophores by strain YP6; (c) Degradation of various types of OPs by strain YP6. The average values and standard error were calculated from three independent replicates. The conditions of culture for (a) and (b): YP6 was incubated of 1-5 d at 30 °C, 200 r/min in LB medium (containing 10 g/L rock phosphate powder). The conditions of culture for (c): YP6 was incubated of 48 h at 30 °C, 200 r/min in LB medium with 6 types of OPs with initial concentration of 50 mg/L, respectively.



Appendix B. Phylogenetic tree from the genomes of strain YP6 and other *Bacillus* strains using CVTree web tool. (K=6)

Appendix C. The partial genes involved in solubilizing-phosphorus, OPs-degradation, IAA and siderophores synthesis in *B. amyloliquefaciens* YP6

Capabilities	Description	Gene name	Strand	Start	End
Solubilizing-phosphorus/OPs degradation	alkaline phosphatase	<i>phoD</i>	+	256,152	257,903
		<i>phoA</i>	-	922,335	920,956
	phosphatase	<i>phoE</i>	-	1,007,871	1,007,296
		<i>ycsE</i>	-	1,073,123	1,072,311
		<i>bcrC</i>	-	2,069,264	2,068,653
	carboxylesterase	<i>yvaK</i>	-	3,284,370	3,283,624
Producing indole-3-acetic acid (IAA)	tryptophan synthase subunit alpha	<i>trpA</i>	-	2,313,324	2,312,527
	tryptophan synthase subunit beta	<i>trpB</i>	-	2,314,519	2,313,317
	indole-3-glycerol-phosphate synthase	<i>trpC</i>	-	2,315,910	2,315,158
	anthranilate phosphoribosyltransferase	<i>trpD</i>	-	2,316,919	2,315,903
	anthranilate synthase component I	<i>trpE</i>	-	2,318,438	2,316,891
	acetyltransferase	<i>cgeE</i>	-	2,080,138	2,079,359
		<i>epsM</i>	-	3,345,785	3,345,138
Producing siderophores	isochorismatase	<i>entB</i>	-	3,110,569	3,109,649
	isochorismate synthase	<i>menF</i>	-	3,000,480	2,999,068
		<i>entC</i>	-	3,113,427	3,112,231
	2,3-dihydro-2,3-dihydroxybenzoate dehydrogenase	<i>entA</i>	-	3,114,235	3,113,450