

Supplementary Materials

Table S1. Sequencing information of bacteria in root of tomatoes under different growth stages.

| Sample\Info | Seq_num | Base_num | Mean_length | Min_length | Max_length |
|-------------|---------|----------|-------------|------------|------------|
| GH1 | 24770 | 9310531 | 375.87933 | 202 | 443 |
| GH2 | 24193 | 9099384 | 376.116397 | 200 | 488 |
| GH3 | 23092 | 8681861 | 375.968344 | 204 | 515 |
| GJ1 | 22316 | 8392293 | 376.066186 | 203 | 467 |
| GJ2 | 20282 | 7619816 | 375.693521 | 207 | 478 |
| GJ3 | 24620 | 9277244 | 376.817384 | 202 | 489 |
| GY1 | 21760 | 8178415 | 375.846278 | 201 | 458 |
| GY2 | 23931 | 8997021 | 375.956751 | 206 | 528 |
| GY3 | 24095 | 9054416 | 375.779871 | 200 | 424 |

Table.S2 Sequencing information of fungi in root of tomatoes under different growth stages

| Sample\Info | Seq_num | Base_num | Mean_length | Min_length | Max_length |
|-------------|---------|----------|-------------|------------|------------|
| GH1 | 73910 | 15475450 | 209.382357 | 143 | 504 |
| GH2 | 70784 | 14970472 | 211.49514 | 143 | 495 |
| GH3 | 73980 | 15506775 | 209.607664 | 145 | 530 |
| GJ1 | 73167 | 15293170 | 209.017317 | 166 | 496 |
| GJ2 | 73058 | 16099065 | 220.360056 | 143 | 526 |
| GJ3 | 74588 | 16001512 | 214.531989 | 140 | 523 |
| GY1 | 52322 | 12417391 | 237.326383 | 159 | 530 |
| GY2 | 57439 | 16048810 | 279.406153 | 193 | 495 |
| GY3 | 71738 | 15863673 | 221.133472 | 147 | 484 |

Table. S3 Amplified sequence information of tomato root bacteria and fungi under different growth stages

| Type | Amplified Region | Insert size(bp) | Raw Reads | Sequences | Bases (bp) | Total Base(bp) | Average Length |
|----------|------------------|-----------------|-----------|-----------|------------|----------------|----------------|
| Bacteria | 799F_1193R | 394 | 209059*2 | 209059 | 78610981 | 125853518 | 376 |
| Fungi | ITS1F ITS2 R | 300 | 1234928*2 | 1234928 | 287046596 | 743426656 | 232 |