

Supplementary material to:

Complementary dynamics of banana root colonization by the plant growth-promoting rhizobacteria *Bacillus amyloliquefaciens* Bs006 and *Pseudomonas palleroniana* Ps006 at spatial and temporal scales

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- **Tab. S6: Full table of PIFAR analysis of *Bacillus amyloliquefaciens* Bs006 - (included as excel file)**
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Figure S1: Micropropagation procedure of *Musa acuminata* plants using the apical meristem. A: Extraction of corms in the field, B: Elimination of roots. C: Reduction of layers of the pseudostem, D: Successive washing and disinfection in detergent (iodine and chlorine). E: Continuation of reductions and disinfections in corm cores of approximately 10 cm. F: Final reduction of the apical meristem, G: Establishment in modified Murashige and Skoog (MS) culture medium. H: Individualization of the generated plants. I: Explant multiplication phase. J-K: Seedlings generated in the multiplication phase. L: *In vitro* rooting. In this phase, the rhizobacteria were applied for confocal microscopy analysis. M: Plant washing and elimination of surplus culture medium. N: Size classification. O: Sowing and hardening under *ex vitro* conditions to acclimatize the plants.

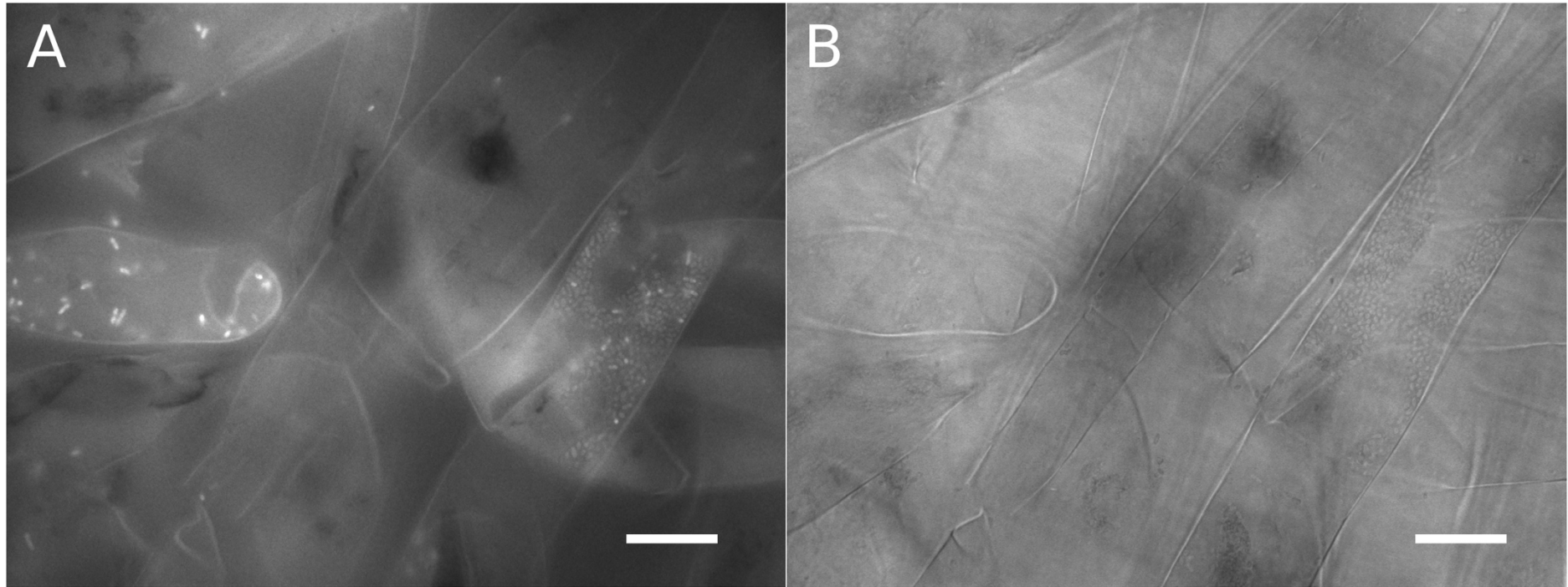


Figure S2: Fluorescence microscopy images showing the endophytic colonization of banana root hairs by *Pseudomonas palleroniana* Ps006, 30 days after inoculum. A) Fluorescent image (Zeiss Axioplan microscope; Filter Set 15); B) Correspondent bright field image. Samples were stained by FISH using the EUB338MIX probe labelled with Cy3. Scale bars: 15 μ m.

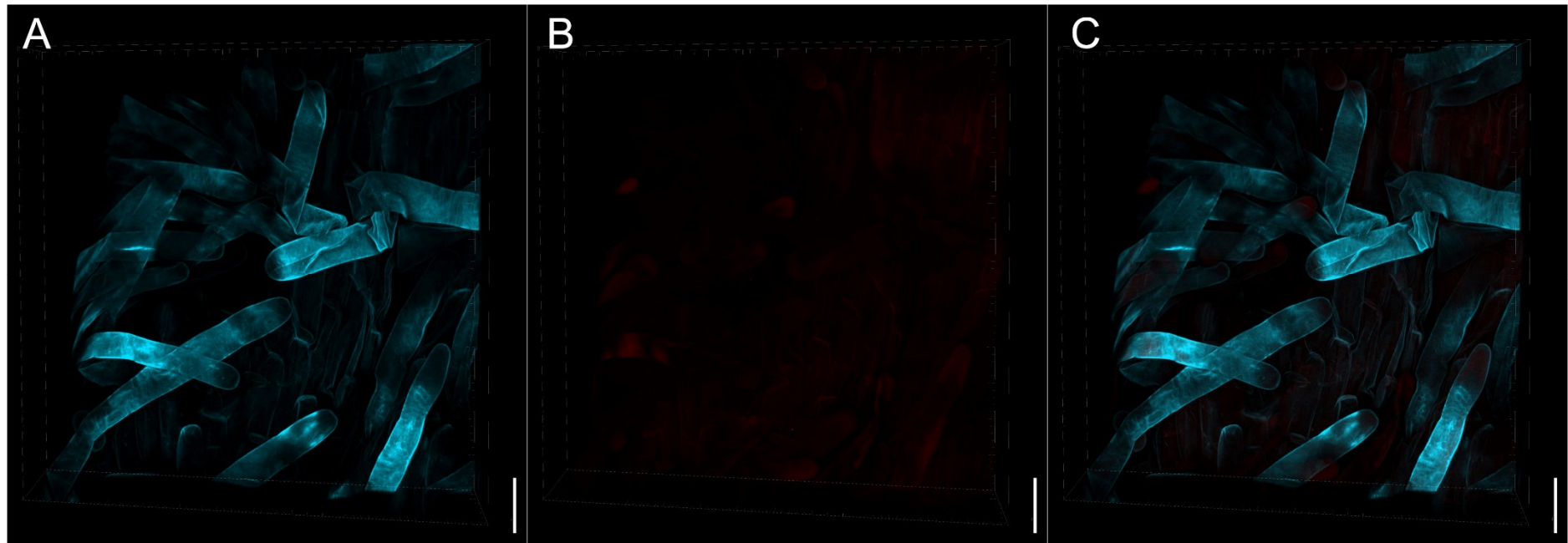


Figure S3: FISH negative control. FISH-CLSM images showing inoculated banana roots stained by FISH, by using the non-sense probe NONEUB. Only root tissue autofluorescence (A), and no probe-conferred signal (B), was detected. C) Overlap of A and B. Scale bars: 30 μm .

Table S1 Genome details of *Bacillus amyloliquefaciens* Bs006 (data from [37]) and *Pseudomonas palleroniana* Ps006 (data from [38])

Strain	bp length	GC content	N. of contigs	cds	N. of rRNA	N. of tRNA	N. of ncRNA
<i>Bacillus amyloliquefaciens</i> Bs006	4,173,094	46.4%	86	3,998	6	67	1
<i>Pseudomonas palleroniana</i> Ps006	6,250,362	60.3%	47	5,474	4	61	4