Supplementary Information

Quantum dots as a fluorescent labeling tool for live-cell imaging of *Leptospira*

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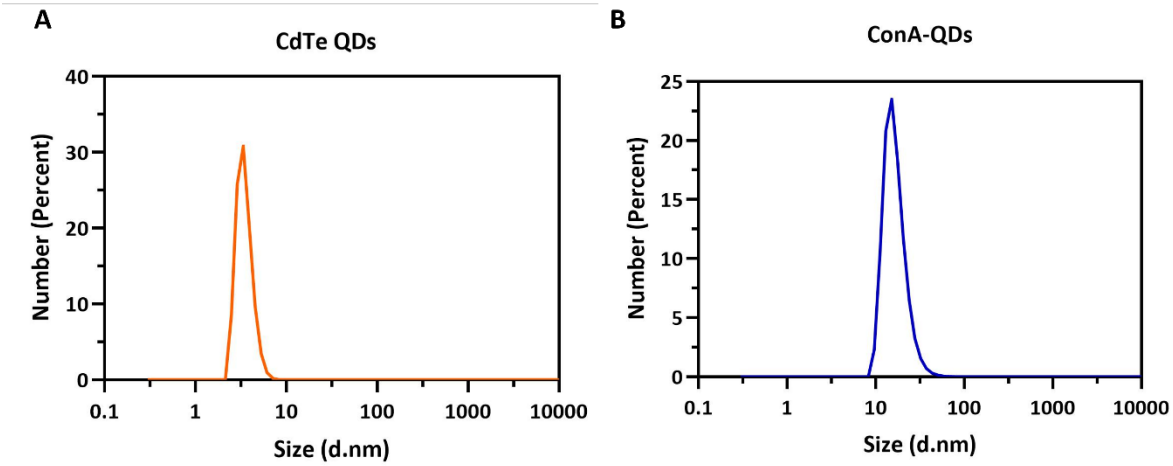
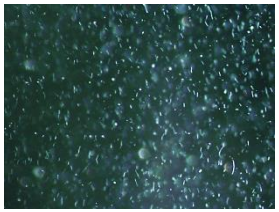
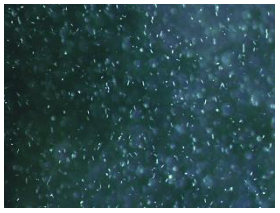
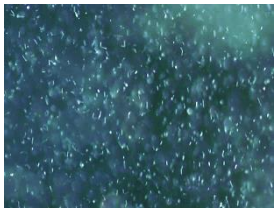
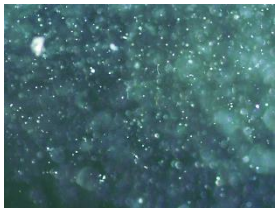
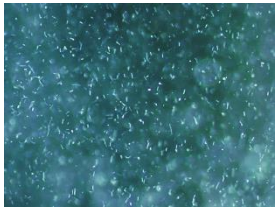
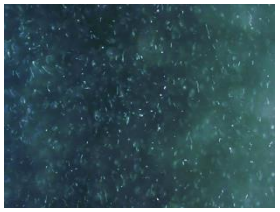
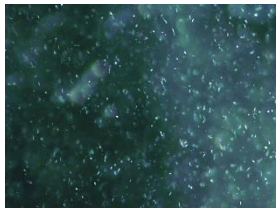
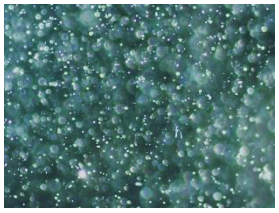
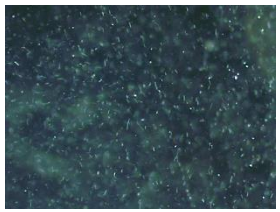
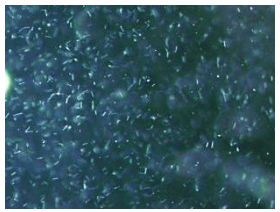
Supplementary Figure 1. The hydrodynamic size in water. (A) CdTe QDs (B) ConA-QDs.

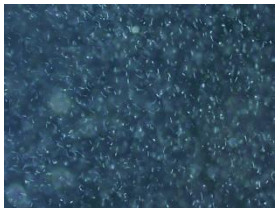
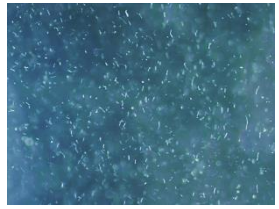
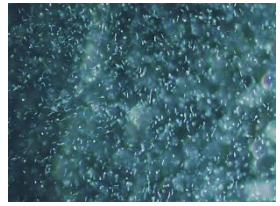
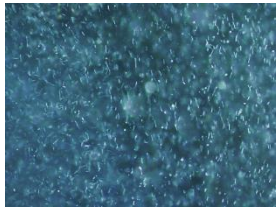
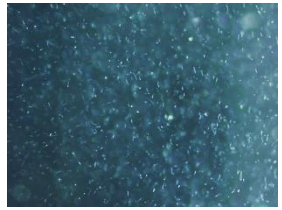
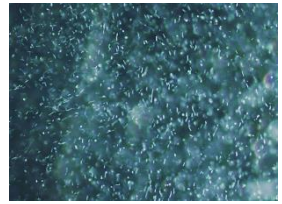


Sample	Hydrodynamic size (nm)	PdI	Zeta potential (mV)
CdTe QDs	5.7 ± 4.9	1.0	-6.6
ConA-QDs	15.6 ± 3.5	0.5	-4.7

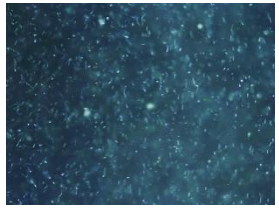
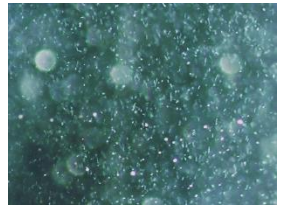
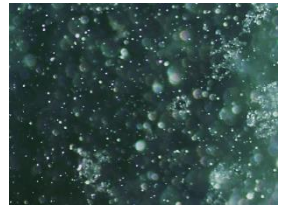
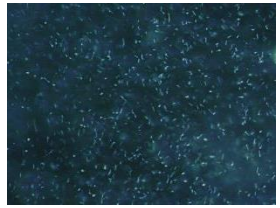
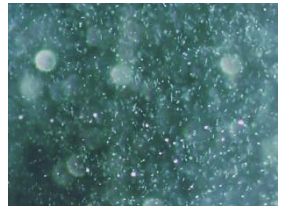
Supplementary Figure 2. Dark-field images of Shermani cells incubated with 100 nM, 300 nM or 600 nM QDs for 0-72 h.

Incubation time (hour)	Sample (Shermani)				
	QDs 100 nM	QDs 300 nM	QDs 600 nM	Distilled water	10% Clorox
0					
6					
12					

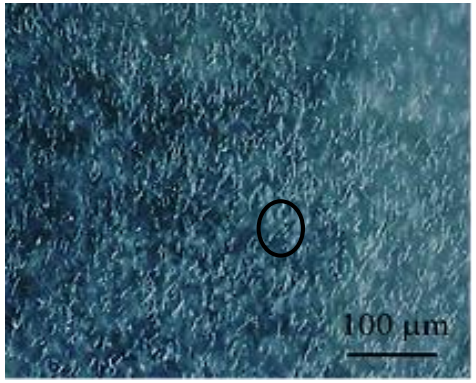
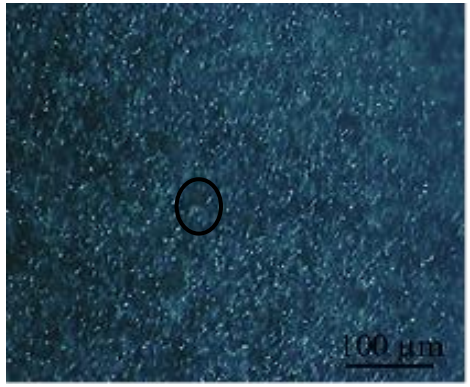
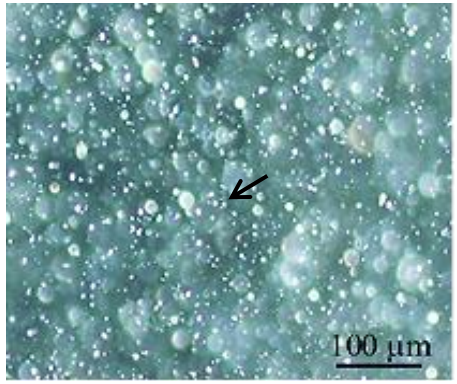
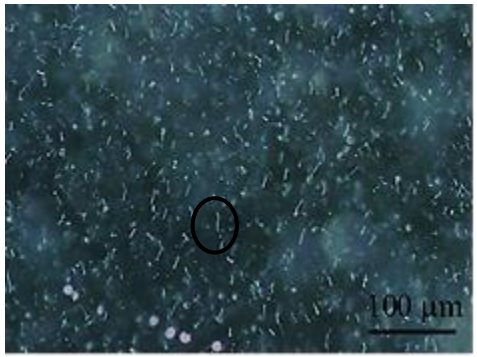
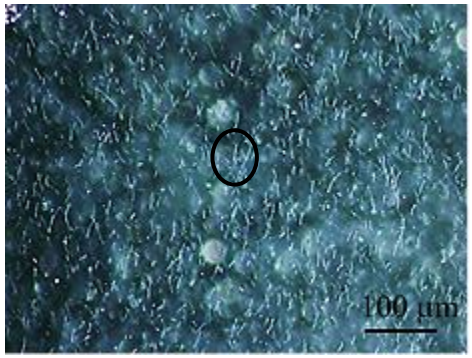
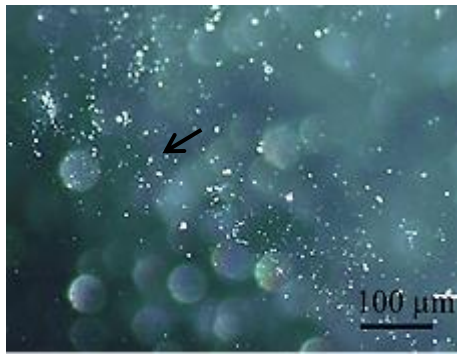
Supplementary Figure 2. Dark-field images of Shermani cells incubated with 100 nM, 300 nM or 600 nM QDs for 0-72 h.

Incubation time (hour)	Sample				
	QDs 100 nM	QDs 300 nM	QDs 600 nM	Distilled water	10% Clorox
24					
36					
48					

Supplementary Figure 2. Dark-field images of Shermani cells incubated with 100 nM, 300 nM or 600 nM QDs for 0-72 h.

Incubation time (hour)	Sample				
	QDs 100 nM	QDs 300 nM	QDs 600 nM	Distilled water	10% Clorox
60					
72					

Supplementary Figure 3 Toxicity effect of MSA-capped CdTe QDs after 72 hrs exposure on each sub-cultured Shermani; Black arrows indicate the cell like a dot spot and sheet plate. The black circles indicate intact bacteria cell. The distilled water and 10% Clorox were used as positive control and negative control, respectively.

Shermani	Sample		
	QDs (600 nM)	Distilled water	10 % Clorox
First generation			
Second generation			

Supplementary Figure 4. Determination of cell growth of *L. santarosai* based on O.D. of 420 nm after incubation with different concentrations (0-600 nM) of ConA-QDs.