

Review

Technical note: flow cytometry assays for the detection, counting and cell-sorting of polyphosphate-accumulating bacteria

I think the paper in its current state reads very well and is a valuable addition to the literature out there and the information can be used by any researcher interested in polyP counting. It gives all the information required to make a protocol to combine polyP labeling with DAPI and FCM to enrich and isolate high accumulating PAB and gives insights into the use of the JC-D7 dye.

I would therefore recommend it for publication and have only minor comments/suggestions. Another review round is not necessary in my opinion.

Figure 7: Change “Bioavailable inorganique P” in the legend to “Bioavailable inorganic P”

L88: “fluorescence signal” instead of “fluorescent signal”

L271: Change “The counting of DAPI-polyP complexes in epifluorescence microscopy will then be used to validate the cytometric data.” to “The counting of DAPI-polyP complexes in epifluorescence microscopy **was** used to validate the cytometric data.”

L449: Period after “(Table S.19)”

L509: **Show the data.** There is no limit on the supplement and there are plenty of repositories for microscopy images.

L511: “poly**P**” in the title

L557-558: “causes events with size and structure mimic nonviable cells.” should probably be “causes events **which** size and structure mimic nonviable cells.” If not, I do not understand this sentence.

L639: “dramatically lower abundance of polyP when comparing to microorganisms” to “dramatically lower abundance of polyP **compared** to microorganisms”