

Erratum

Correction for Mestrom et al., "Artificial Fusion of mCherry Enhances Trehalose Transferase Solubility and Stability" (*Applied and environmental microbiology* (2019) 85 8 PII: e00942-19)

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Correction for Mestrom et al., “Artificial Fusion of mCherry Enhances Trehalose Transferase Solubility and Stability”

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Volume 85, issue 8, e03084-18, 2019, <https://doi.org/10.1128/AEM.03084-18>. The presented trehalose transferase from *Pyrobaculum yellowstonensis* fused to mCherry (mCherry-PyTreT) was mislabeled. The correct name for the given protein sequence fused to mCherry is trehalose transferase from *Thermoproteus uzoniensis* (mCherry-TuTreT). The protein sequence was correct in all cases and only the name was incorrect throughout the article. This mistake did not alter the main conclusion of the article, i.e., that mCherry increases the solubility and stability of an aggregation-prone archaeal trehalose transferase. Hence, the presented results were obtained with mCherry-TuTreT instead of mCherry-PyTreT.

Throughout the paper, all references to “mCherry-PyTreT” should be “mCherry-TuTreT.”

Page 1, Abstract, lines 9 and 10: “*Pyrobaculum yellowstonensis* (PyTreT)” should be “*Thermoproteus uzoniensis* (TuTreT).”

Page 1, Importance, line 7: “*Pyrobaculum yellowstonensis*” should be “*Thermoproteus uzoniensis*.”

Page 2, paragraph 4, line 1: “PyTreT” should be “TuTreT.”

Page 5, paragraph 1, lines 4 through 6: “Furthermore, a high intracellular concentration of 0.37 mg of trehalose per mg of protein was reported for *Pyrobaculum aerophilum* (1). . . .” should read “Furthermore, a high intracellular concentration of 0.10 mg of trehalose per mg of protein was reported for *Thermoproteus tenax* (1). . . .”

Page 5, paragraph 2, lines 1 and 2: “Due to the poor solubility of PyTreT, a fusion construct of mCherry and PyTreT. . . .” should read “Due to the poor solubility of PyTreT, a fusion construct of mCherry and TuTreT. . . .”

Page 5, paragraph 2, lines 5 through 7: The following sentence should be deleted: “PyTreT has a pI similar to that of mCherry and was therefore chosen as a candidate for further investigations as the fusion construct mCherry-PyTreT.”

Page 5, paragraph 4, line 9: “PyTreT” should be “mCherry-TuTreT.”

Page 6, paragraph 1, line 2: “PyTreT” should be “TuTreT.”

Page 6, paragraph 2, line 2: “PyTreT” should be “TuTreT.”

Page 6, paragraph 2, line 11: “ $\epsilon_{\text{mCherry-PyTreT}}$ ” should be “ $\epsilon_{\text{mCherry-TuTreT}}$.”

Page 9, paragraph 3, line 4: “PyTreT” should be “TuTreT.”

Page 10, paragraph 2, lines 5 and 7: “PyTreT” should be “TuTreT.”

Page 10, paragraph 3, line 1: “PyTreT” should be “TuTreT.”

Supplemental material: In Fig. S1, an additional SDS-PAGE of the produced N-terminal His₆-tagged TuTreT protein (Fig. S1g) is given. This is referred to as Fig. S1g in the revised supplemental information. As well, throughout the supplemental material, “mCherry PyTreT” should be “mCherry TuTreT.” Revised supplemental material is posted online at <https://doi.org/10.1128/AEM.03084-18>.

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