



*Acinetobacter* sp. Tol 5 is a hydrocarbon-degrading bacterium and exhibits noteworthy high adhesiveness to various abiotic surfaces from hydrophobic plastics to hydrophilic glass and metals. This unique nonspecific adhesiveness is mediated by AtaA, a nanofiber protein on the cell surface. The photograph shows a fluorescent microscopic observation of mCherry-expressing Tol 5 cells stained with an anti-AtaA antibody. The cell body of Tol 5 (red) was covered with surrounding AtaA fibers (green).

For more information regarding this work, read the article: Aoki, S. et al., "Native display of a huge homotrimeric protein fiber on the cell surface after precise domain deletion", *J. Biosci. Bioeng.*, <https://doi.org/10.1016/j.jbiosc.2019.09.022> (2020) (Copyright © 2020 The Society for Biotechnology, Japan).

▶ [Journal of Bioscience and Bioengineering – 表紙画像Topへ](#)