

Vol. 129 (January–June 2020)



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., volume 129, issue 4, Pages 412-417 (2020)(Copyright©2020 The Society for Biotechnology, Japan).

⇒ JBBアーカイブ : Vol.107 (2009) ~最新号

⇒ JBBアーカイブ : Vol. 93 (2002) ~Vol. 106 (2008)