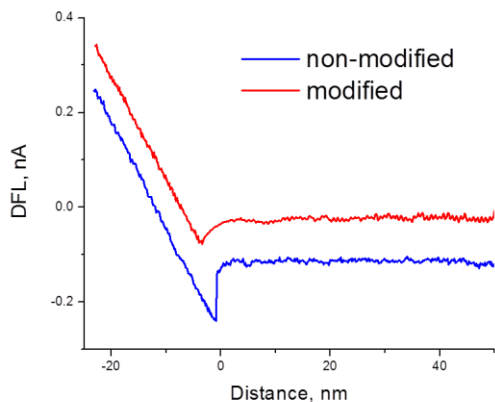


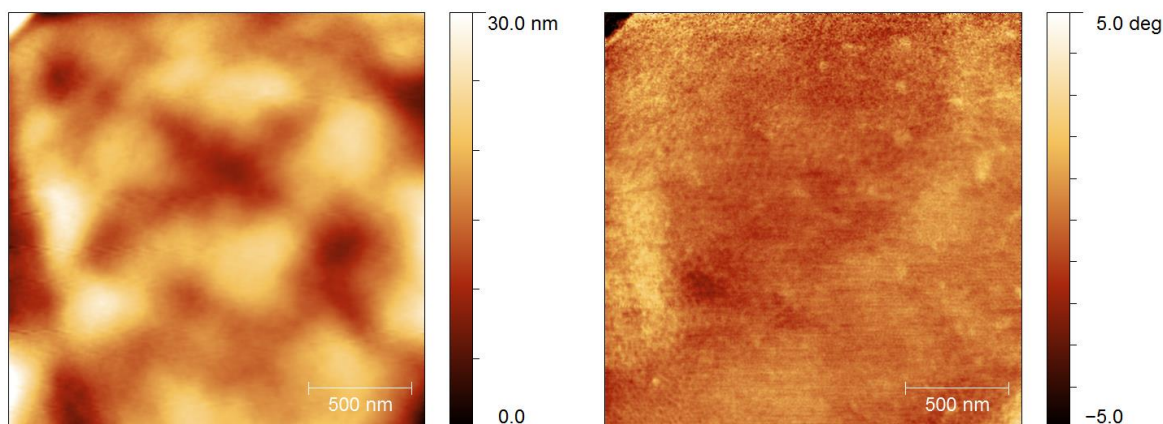
Electronic Supplementary Information

- 1) AFM force - displacement curves for wild-type (non-modified) and genetically modified yeast cells. Cells were characterized by AFM (NTEGRA Spectra system, NT-MDT Inc., Russia) in 'upright' configuration in the contact mode using CSG10 cantilevers with a force constant of 0.1 Nm^{-1} .



- 2) AFM images. Cells were characterized by AFM (NTEGRA Spectra system, NT-MDT Inc., Russia) in 'upright' configuration in the tapping mode using commercial silicon cantilevers NSG11 with a force constant of 5 Nm^{-1} at a scan rate of typically 1 Hz.

Wild-type yeast cells: 2D topography (left) and phase images (right).



Genetically modified yeast cells: 2D topography (left) and phase images (right).

