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# Comparative hydrodynamic and nanoscale imaging study on the interactions of teicoplanin-A2 and bovine submaxillary mucin as a model ocular mucin

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Comparative hydrodynamic and nanoscale imaging study on the interactions of teicoplanin-A2 and bovine submaxillary mucin as a model ocular mucin
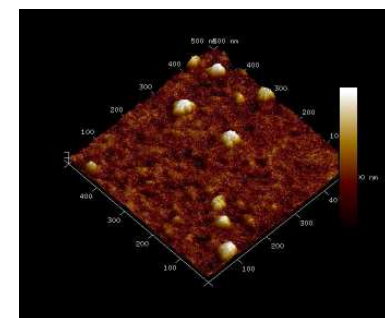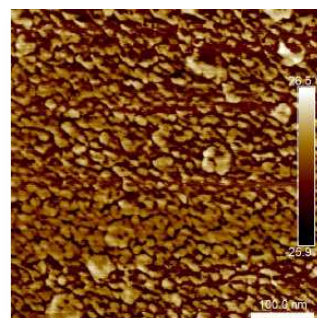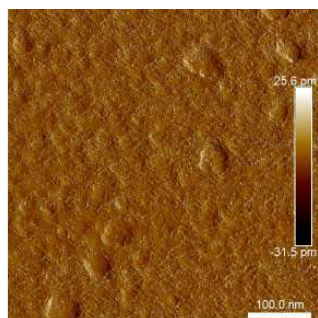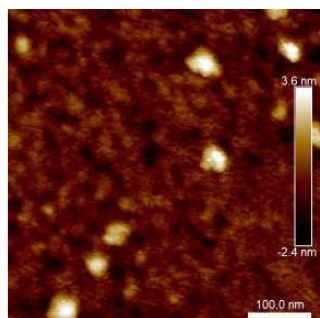**(Chun et al)**

Supplementary Information for Figure 4:   AFM imaging for teicoplanin-BSM mixtures, with controls
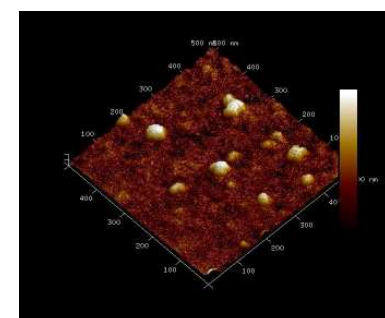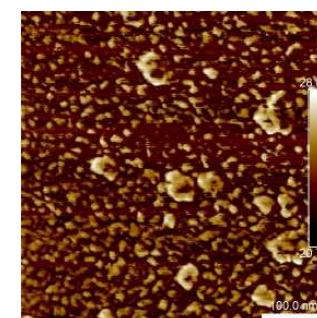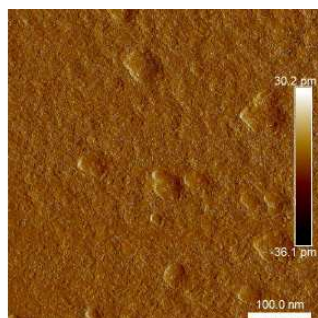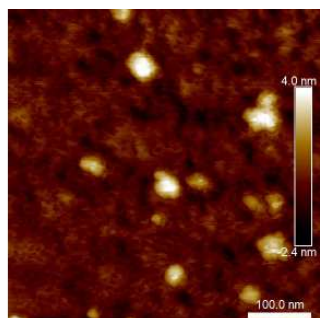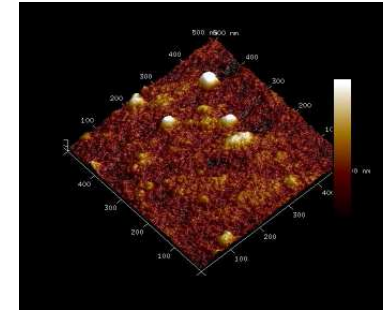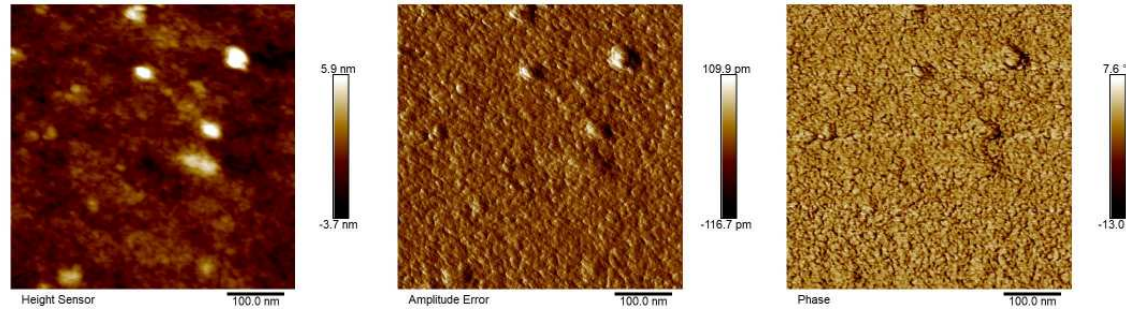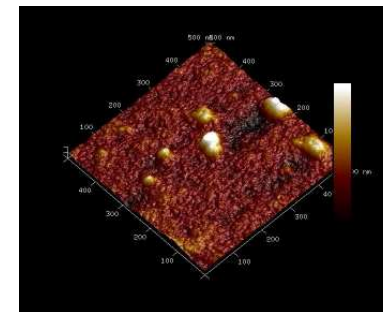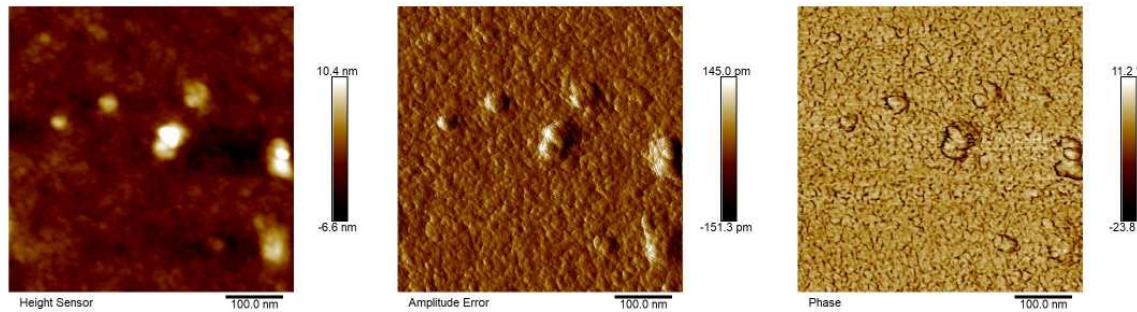
Teicoplanin control 0.125 mg/ml – H$_2$O

Area 1
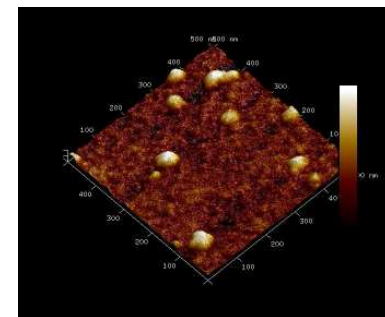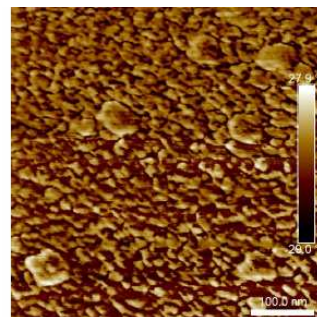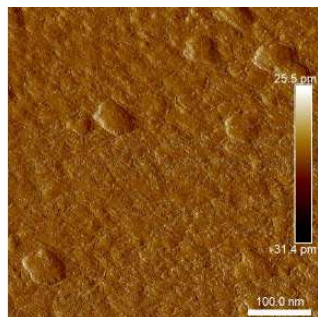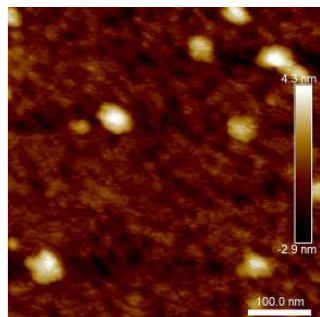
Area 2

Area 3

Teicoplanin Control 1.25 mg/ml – H$_2$O
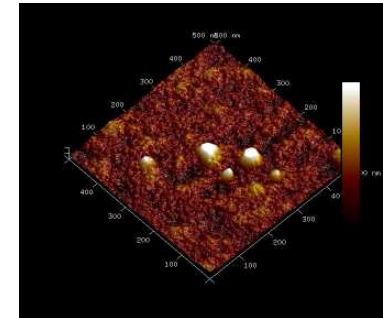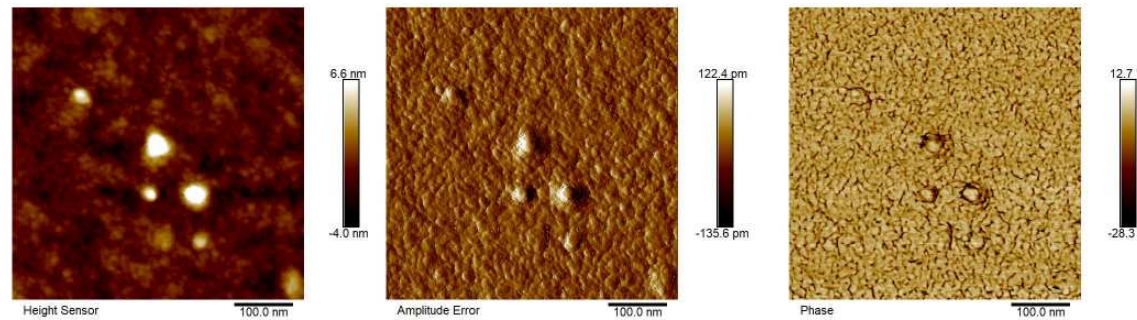
Teicoplanin Control 12.5 mg/ml – H$_2$O
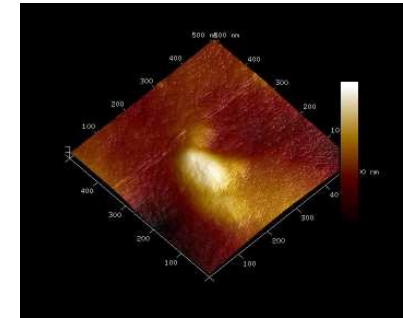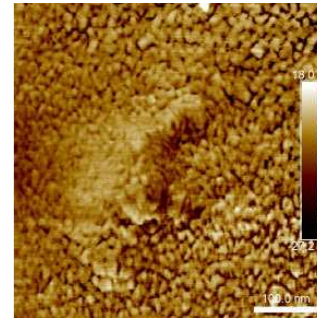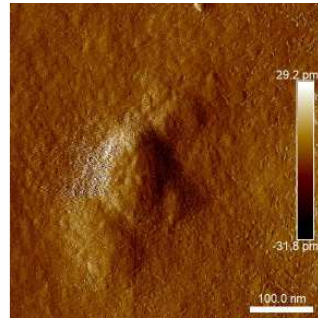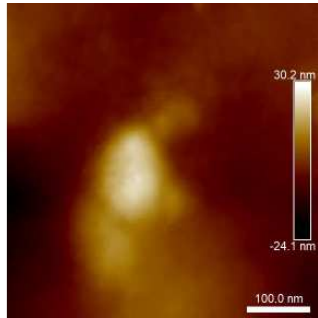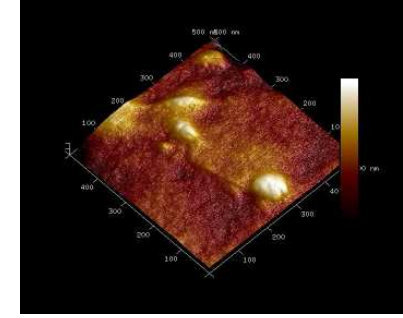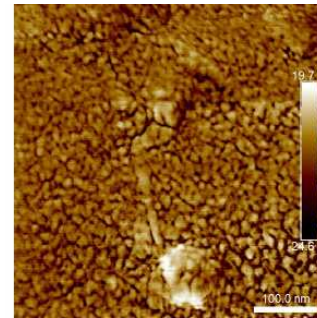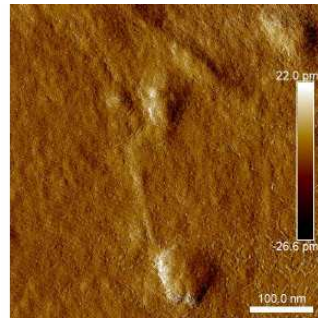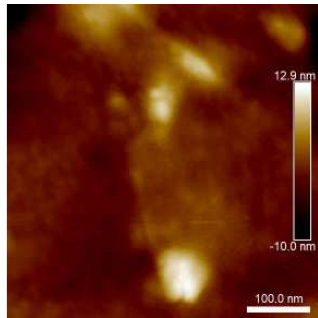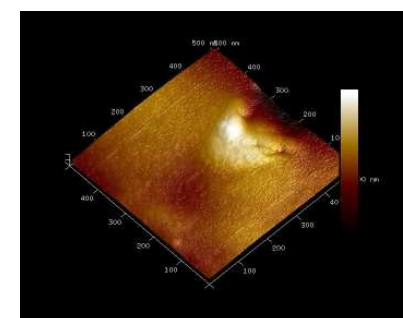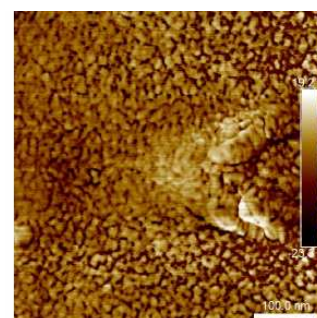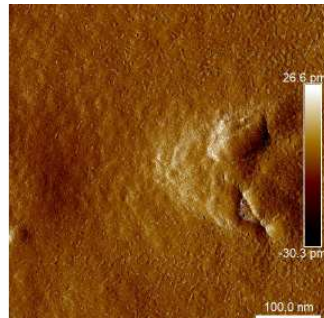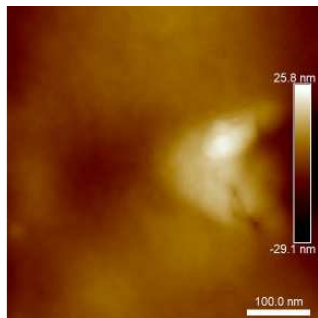
BSM Control 1 mg/ml – H_2O

Area 1
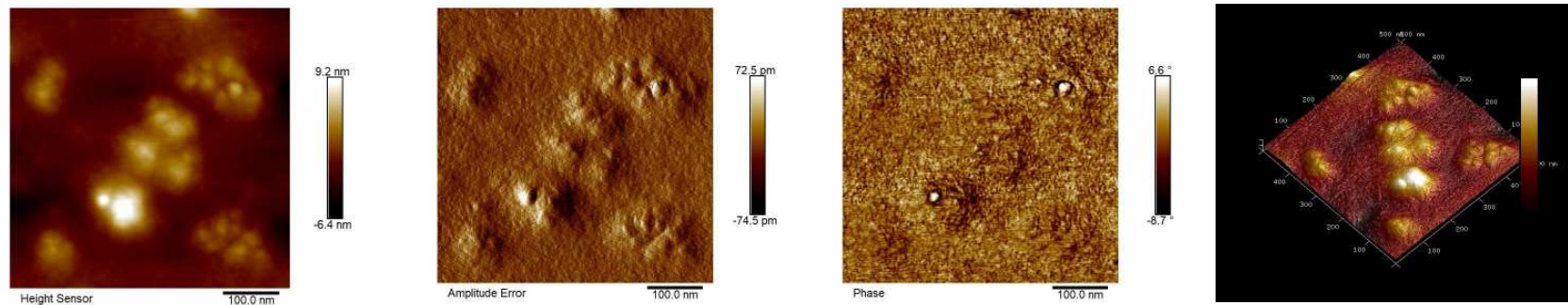
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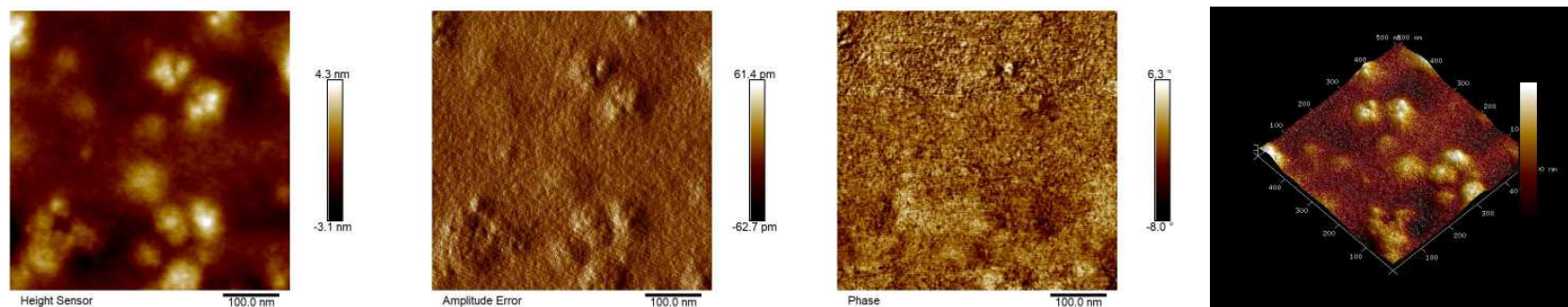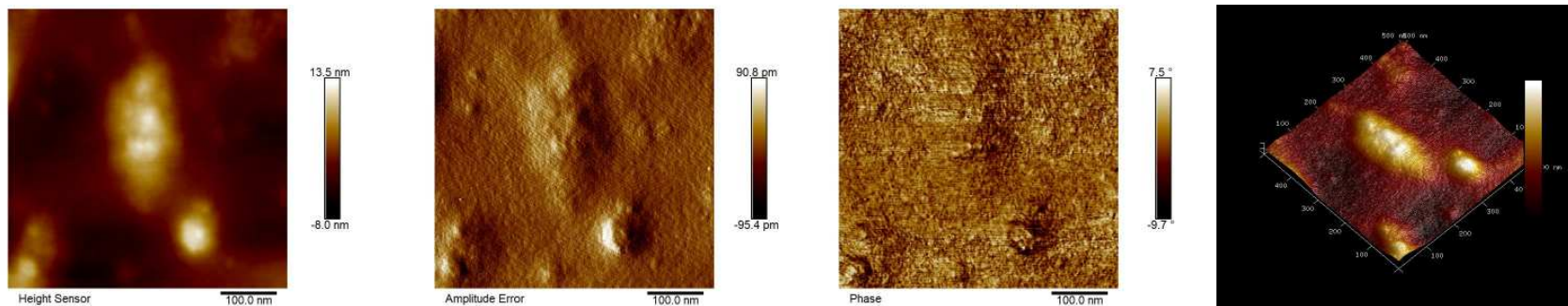
Area 3

TP (0.125 mg/ml) - BSM (1 mg/ml) – H$_2$O

TP (1.25 mg/ml) - BSM (1 mg/ml) – H$_2$O

Area 1

Height Sensor — 25.8 nm / −25.5 nm — 100.0 nm

Amplitude Error — 166.8 pm / −176.3 pm — 100.0 nm

Phase — 11.1 ° / −18.5 ° — 100.0 nm

Area 2

Height Sensor — 29.4 nm / −34.4 nm — 100.0 nm

Amplitude Error — 163.4 pm / −187.0 pm — 100.0 nm

Phase — 17.4 ° / −27.1 ° — 100.0 nm

Area 3

Height Sensor — 28.7 nm / −25.3 nm — 100.0 nm

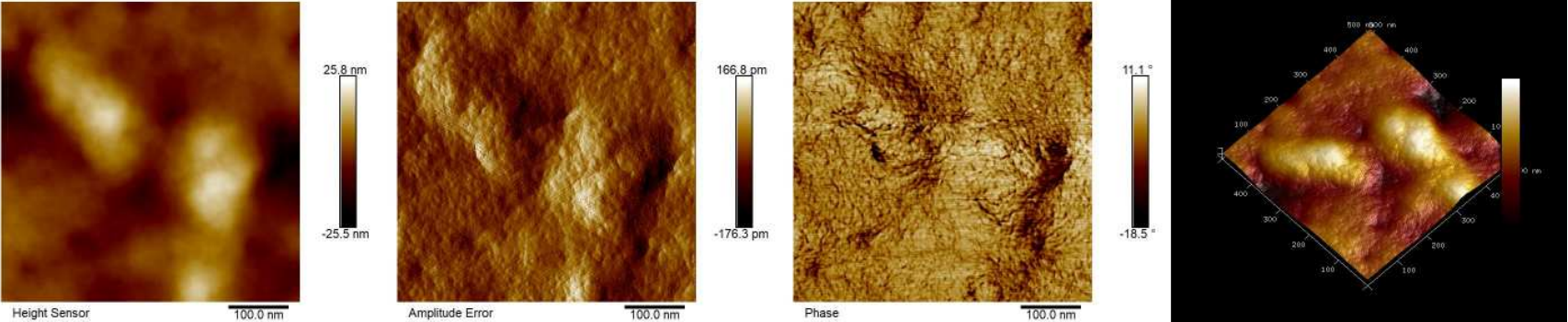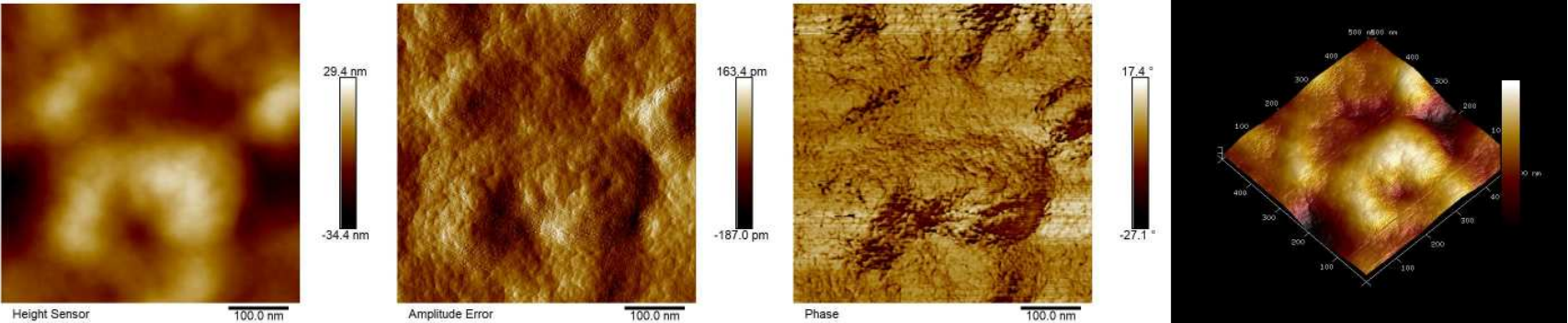Amplitude Error — 123.4 pm / −135.7 pm — 100.0 nm

Phase — 13.8 ° / −25.9 ° — 100.0 nm
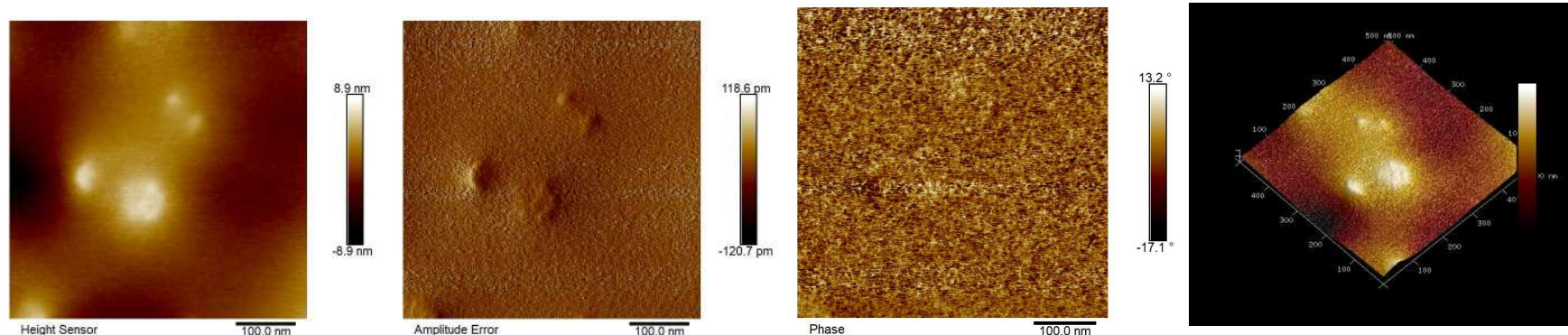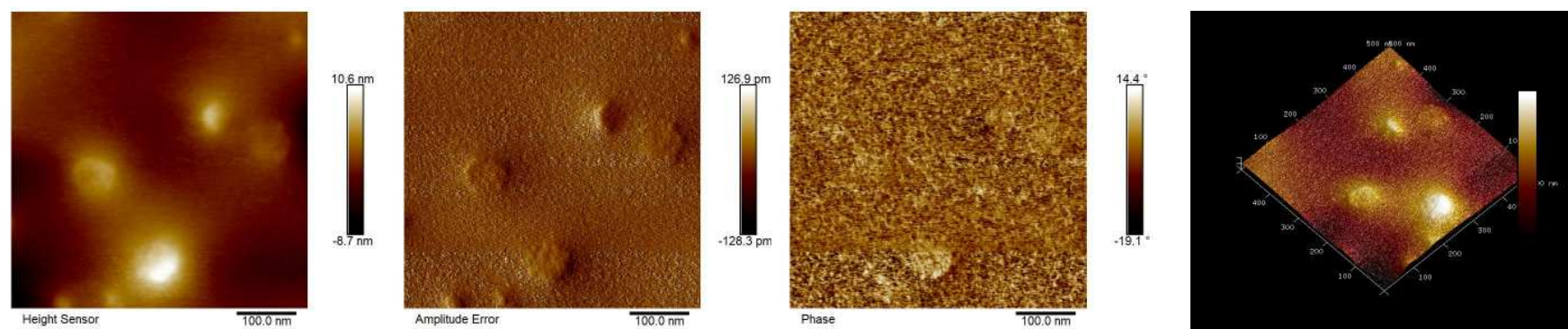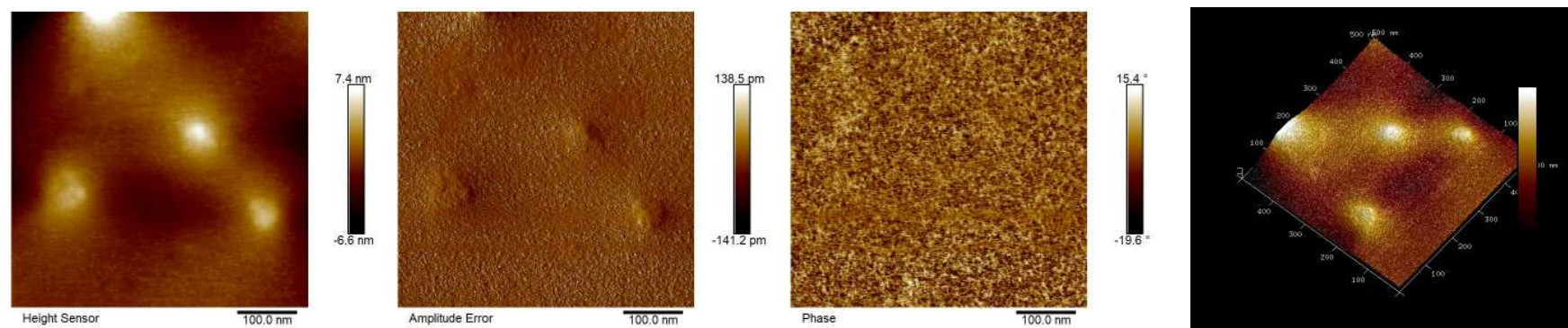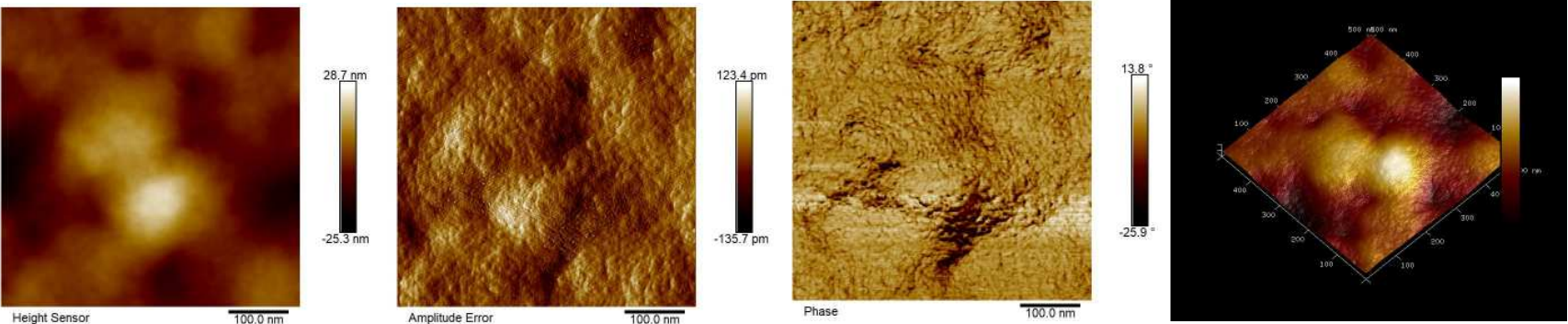
TP (12.5 mg/ml) - BSM (1 mg/ml) – H$_2$O
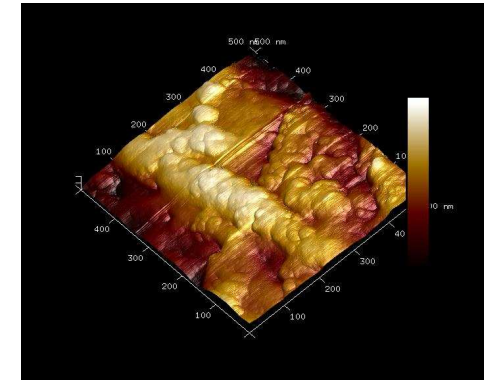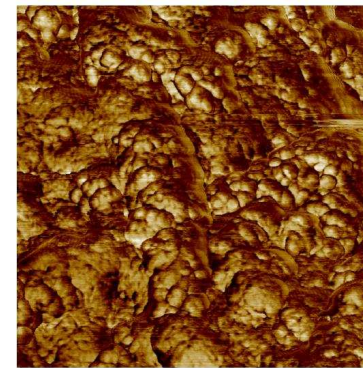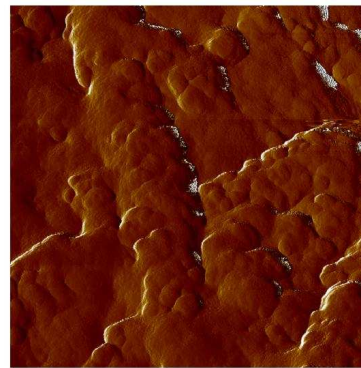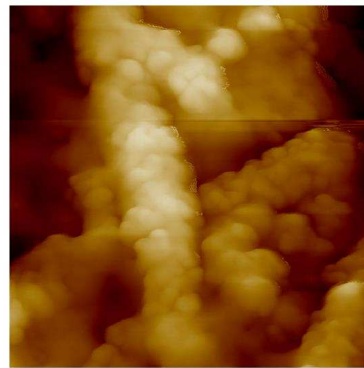
Area 1

Area 2
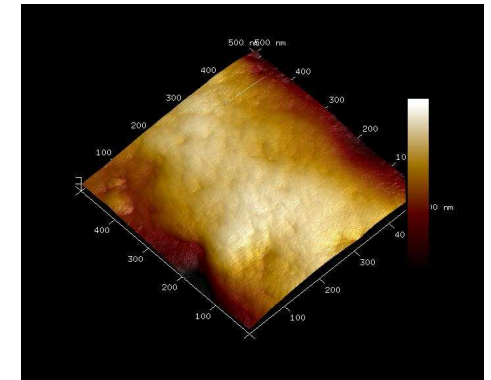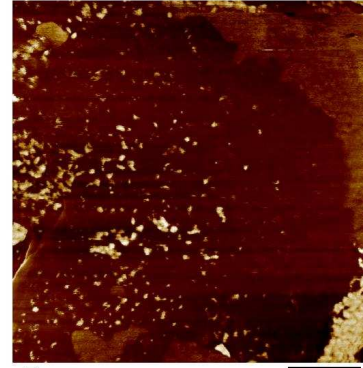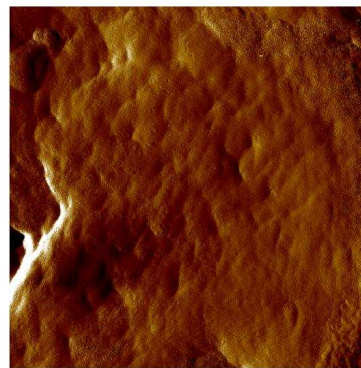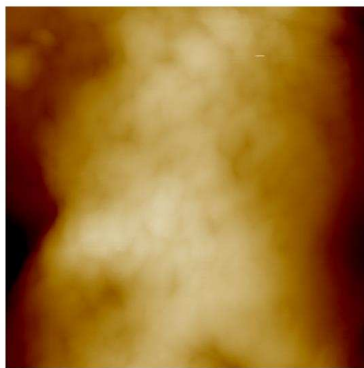
Additional TP (12.5 mg/ml) - BSM (1 mg/ml) – H$_2$O