

## Supporting information

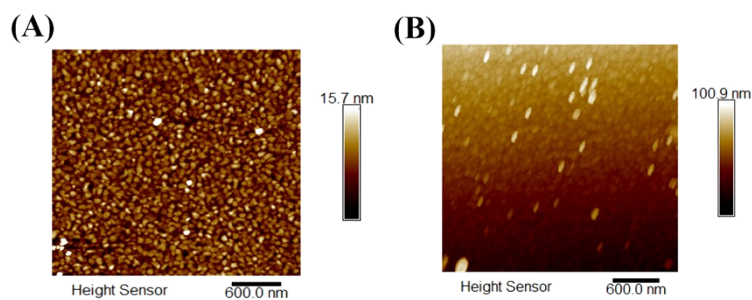
### **A novel electrochemical biosensor based on WO<sub>3</sub>@AuNPs and HBP@BIBB macromolecular-triggered ATRP for DR1 detection**

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#### 1. The AFM characterization of the sensor



**Fig. S1** The AFM images of the bare electrode (A) and the electrode after polymerization (B).