

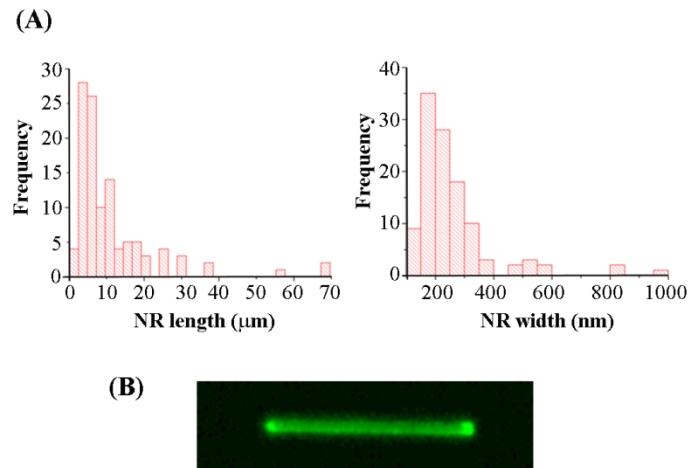
Electronic Supplementary Information:

Unique Temporal and Spatial Biomolecular  
Emission Profile on Individual Zinc Oxide Nanorods

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**Figure S1.** (a) Length and diameter distribution of the ZnO NRs used in biomolecular fluorescence analysis and (b) *FINE* observed from fluorescein isothiocyanate molecules on ZnO NR with no coupled proteins.



**Figure S2.** Full movies of FDTD radiation pattern from a dipole located 10 nm from the surface of a ZnO NR when dipole polarization is (a) parallel to the NR (b) in the transverse direction, and (c) perpendicular to the NR.

See attached files of mpeg movies