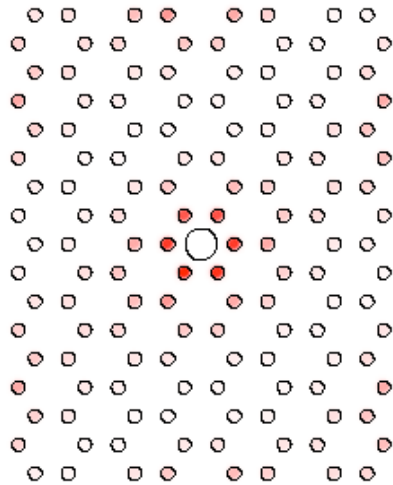


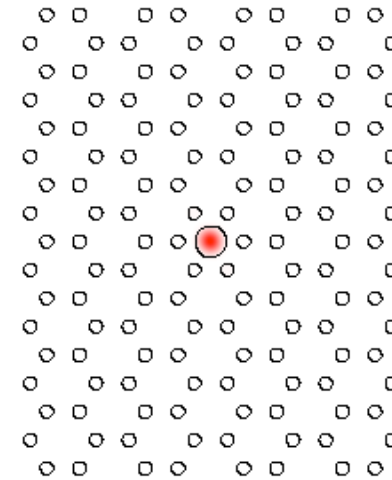
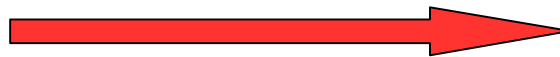
## Bio-sensor based on a photonic crystal array of nanotubes



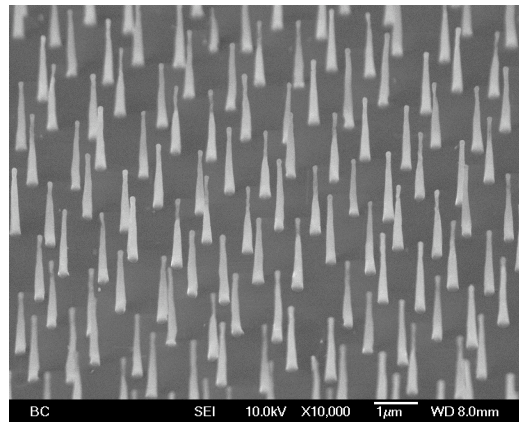
Before bio-attack



The pattern of transmitted light changes after the adsorbed biological species modifies the dielectric constant at the defect site.



After bio-attack



Photonic crystal array based on nanotubes