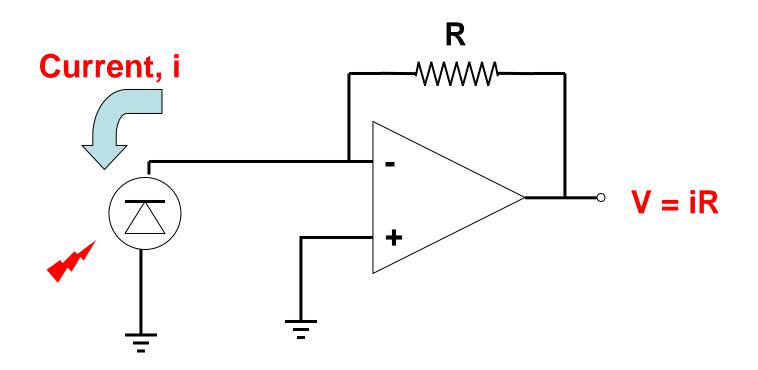
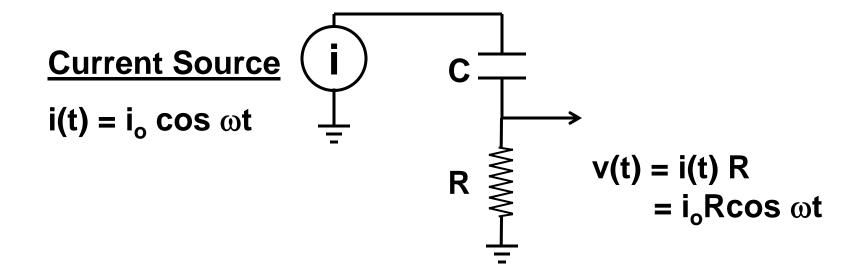
Correction from previous lecture

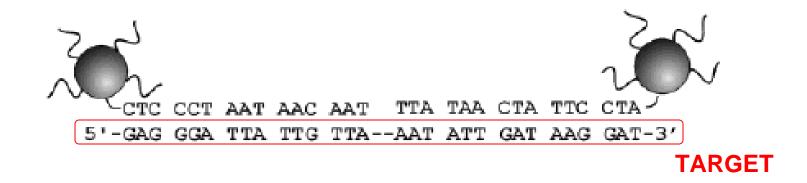


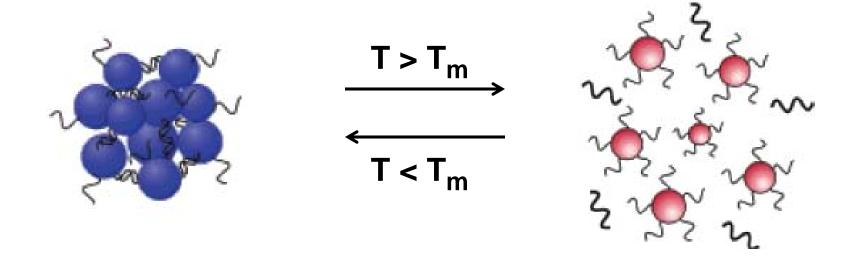
Do high/low pass circuits filter a current source?



DNA-linked gold nanoparticle assemblies

Mirkin Lab, Northwestern University

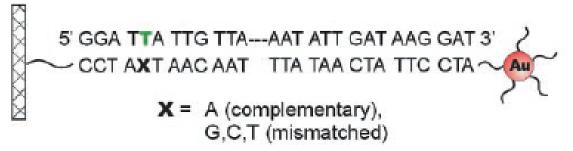


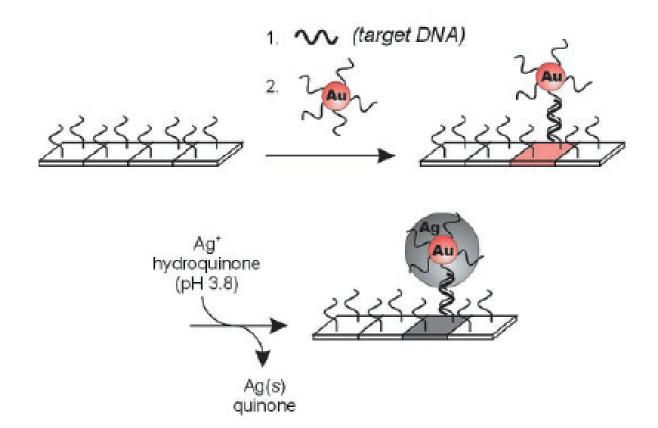


How do nanoparticles influence the DNA melting curve?

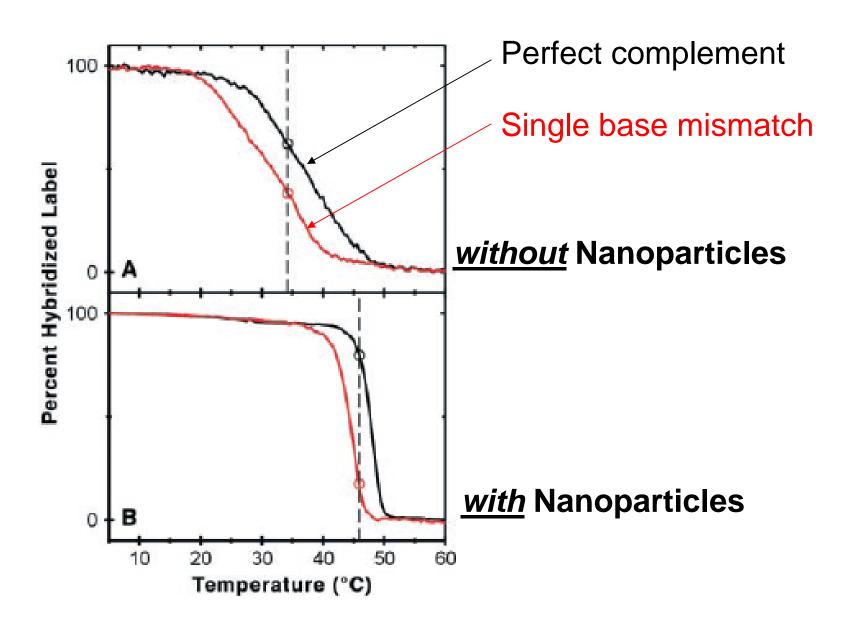
DNA Array with Nanoparticle Probes

Taton, Mirkin, Letsinger, Science 277 (2000)

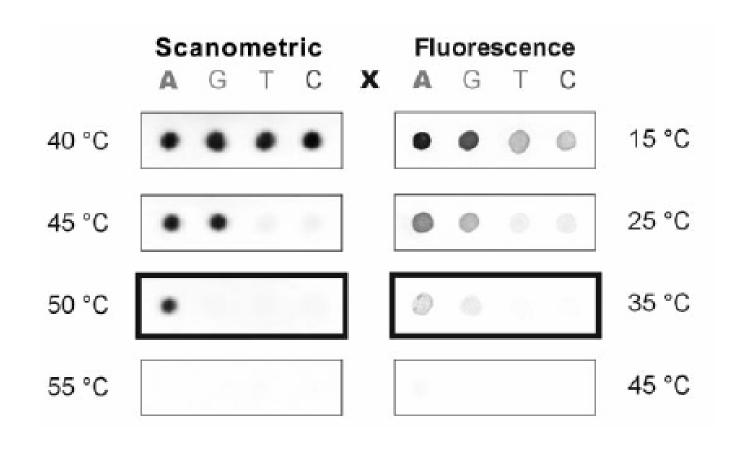




DNA Melting Curves



Sharper melting curves increase sequence selectivity



20.309 Roadmap

Sept 26 Sept 28	Fourier Analysis Noise and the power spectral density
Oct 3 Oct 5	Scanning Probe Microscopy Convolution Theorem
Oct 10 Oct 12	Holiday Linear Systems
Oct 17 Oct 19	Ultimate limits of force and position detection Student presentations on micro cantilevers
Oct 24	Optics with Prof. So