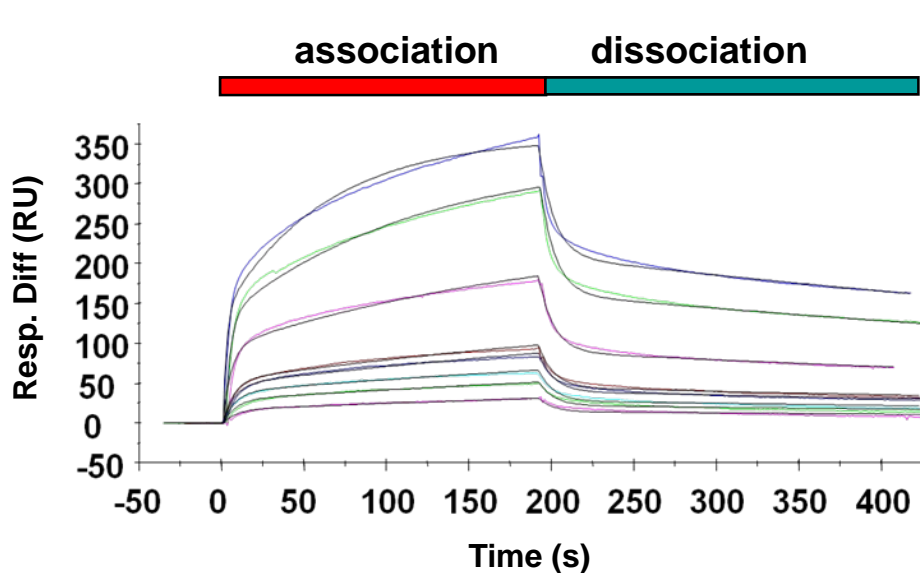


# Biacore 3000 (GE Healthcare)



**Biacore 3000 system uses the Surface Plasmon Resonance (SPR) technology to measure the macromolecular interactions in real time. During the measurement, the molecule A is immobilized on the sensor chip. The molecule B is dissolved in the running buffer and passed over the molecule A on the sensor chip. If the two molecules interact with each other, the interaction signal can be observed in real time.**



**In this experiment, the ricin toxin A chain (RTA) was immobilized on the sensor chip and yeast ribosomes were passed over RTA at eight different concentrations. The real time association and dissociation were observed. The data were analyzed with the Biacore software. The colored lines represent the interaction data and the black lines represent the global fitting results. The values for  $k_{on}$ ,  $k_{off}$ ,  $K_A$  and  $K_D$  of the interaction can be obtained by fitting the data with the interaction model.**

**This instrument is shared with the Department of Pharmacy**

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