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Title (English) Improved liquid exchange rate and resolution of fast interactions using SPR-technology		
Title (Swedish)		
Abstract <p>The resolution of fast interactions with Biacore technology is partly limited by the flow system and the liquid exchange rate. By improving the liquid exchange rate, the shift between buffer and sample in the flow cell can be done faster, minimizing sample dispersion and the so-called rise and fall times are shortened. New injection principles for fast interactions were implemented and evaluated. Both the lane shift and stealth inject uses the principle of hydrodynamic addressing to introduce the sample flow in the flow cell before the injection start. In the currently used Biacore S51, six times faster rise times was obtained with the stealth inject. With the new flow cell PSI and the lane shift, the rise times were improved ten times, which means that ten times faster interactions can be measured. The largest improvement was seen for low flow rates. The fall times were slightly improved or unchanged.</p>		
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