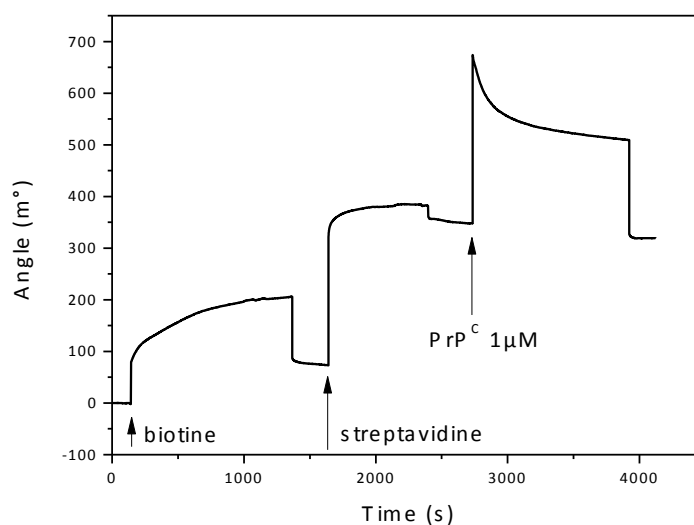


## Binding kinetics of human cellular prion detection by DNA aptamers immobilized on a conducting polypyrrole

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**Fig. S1.** SPR kinetic curves obtained with bilayers

SPR kinetic curves of different steps of biosensor construction followed by addition of prion protein: immobilization of biotin (Bio) ( $2 \text{ mg.mL}^{-1}$ ), streptavidin (Str) ( $100 \text{ }\mu\text{g.mL}^{-1}$ ) and then immobilization of prion protein PrPC ( $1 \text{ }\mu\text{M}$ ) followed by washing of the sensor by PBS.

The curve shows any variation of SPR angle after prion addition on the surface of modified polypyrrole without DNA aptamer which confirm the non-specific interaction of prion with the bilayer surface.