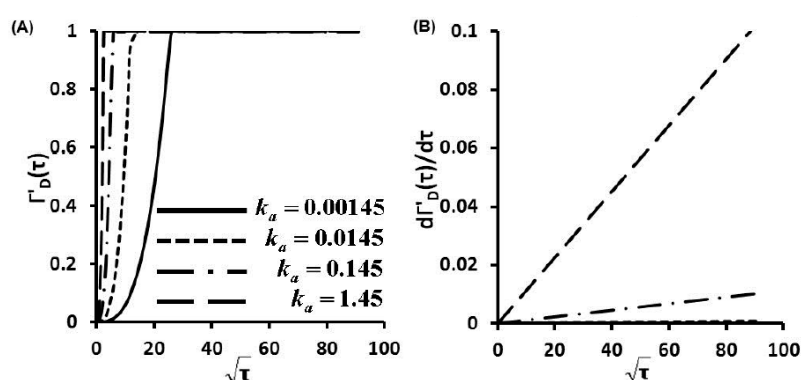


## Supplementary Information

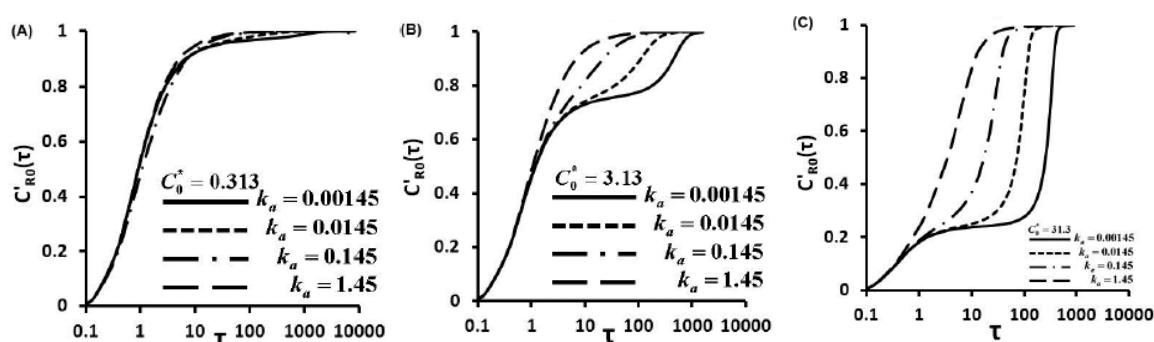
# Protein Adsorption in Microengraving Immunoassays. *Sensors* 2015, 15, 26236-26250

Qing Song

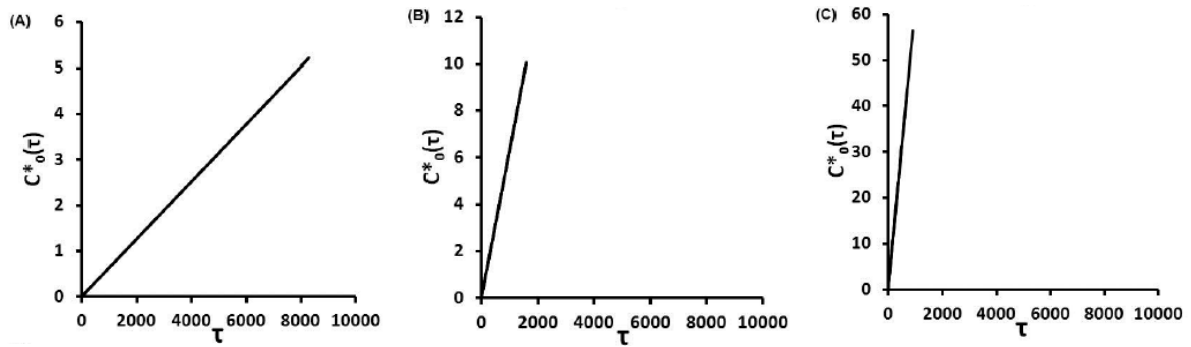
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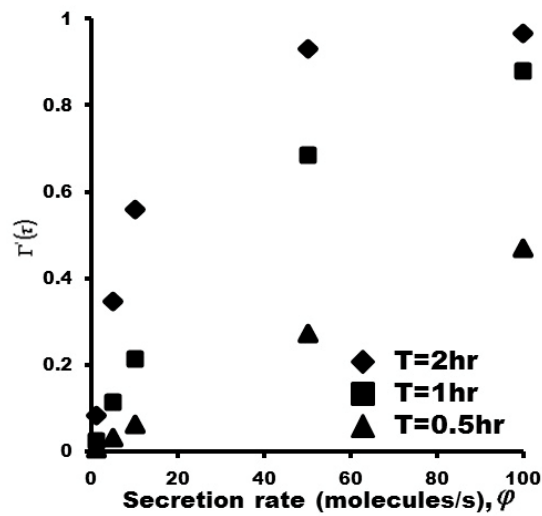
**Figure S1.** Diffusion controlled limits. (A) Concentration of protein captured on glass slide surface as a function of time  $\Gamma_D(\tau)$ ; (B) Protein adsorption rates as a function of time  $d\Gamma_D(\tau)/d\tau$ .



**Figure S2.** Concentration of protein at sublayer of the glass slide surface as a function of time  $C'_{R0}(\tau)$  at different  $C_0^* = 0.313$  (A),  $C_0^* = 3.13$  (B), and  $C_0^* = 31.3$  (C).



**Figure S3.** Concentration of protein at surface of the single cell as a function of time  $C^*_{R_0}(\tau)$  at different  $C^*_0 = 0.313$  (A),  $C^*_0 = 3.13$  (B), and  $C^*_0 = 31.3$  (C).



**Figure S4.** Adsorption isotherms ( $K_D = 8.7 \times 10^{-9}$  M) at different incubation time of 2 h, 1 h, and 0.5 h in the range of 1–100 molecules/s.