



Supplementary Fig. 1. Concentration of substrate-bound protein (Streptavidin-Cy5) as a function of both laser power and dwell time. Data represented by green triangles were obtained at constant laser power by only varying the velocity of the laser scan (top right x-axis). Blue circles and filled black circles were obtained at constant dwell time, while laser power was varied (bottom left x-axis). The images obtained to create this plot were acquired at two different ccd exposure times in order to avoid artifacts due to a nonlinear response of the camera over a very large dynamic range. Blue circles were acquired using an integration time ten times longer than the filled black circles and the green triangles. To combine all measurements on one graph, the ten overlapping points located between laser powers of 10^{-6} to 10^{-5} W were used as a reference.