

Supplementary Information

A PDMS-Based Cylindrical Hybrid Lens for Enhanced Fluorescence Detection in Microfluidic Systems. *Sensors* 2014, 14, 2967-2980

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Figure S1. The sensitivity (slope) of the fluorescence detections with fluorescence collecting lens (FC) and without lens (NL) for (a) Nile red and (b) Rhodamine 6G. The excitation laser has an incident angle of 25°.

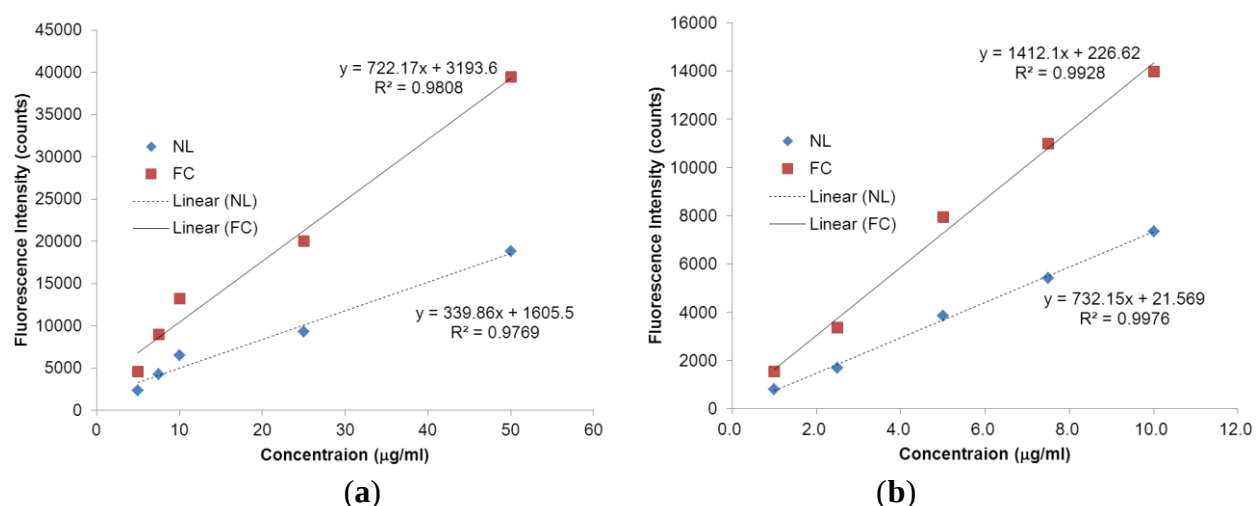
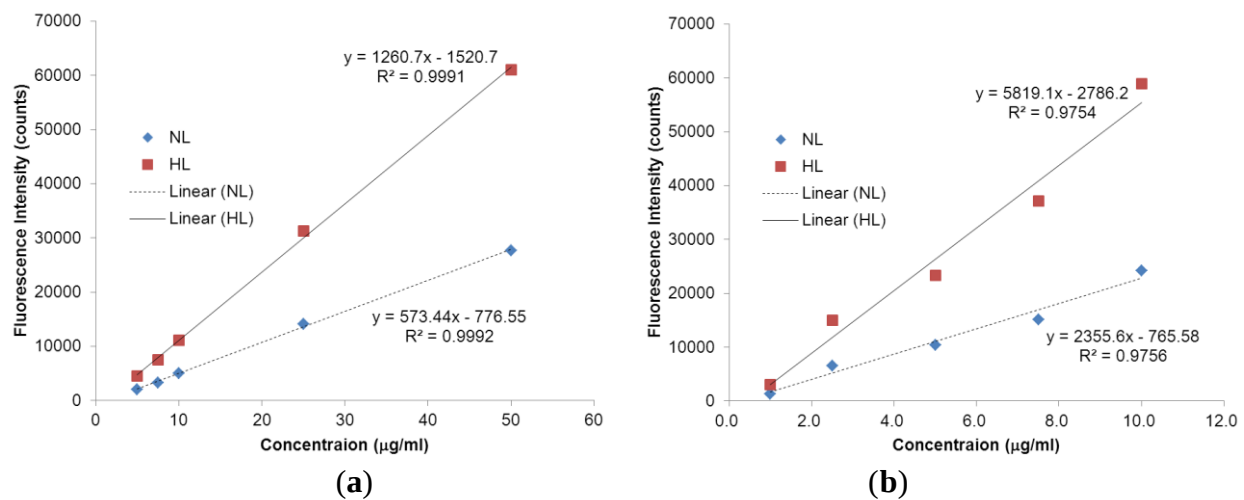


Figure S2. The sensitivity (slope) of the fluorescence detections with hybrid lens (HL) and without lens (NL) for (a) Nile red and (b) Rhodamine 6G. The excitation laser has an incident angle of 15°.



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Author Contributions

Bor-Shyh Lin and Han-Yu Yang designed the hybrid lens and performed the simulations of optical paths for the proposed lens. Yu-Ching Yang manufactured the hybrid lens, setup the optical platform, and performed the fluorescence intensity measurements. Chong-Yi Ho performed pretreatments of the samples (dye solutions and *Chlorella vulgaris* cell suspension) for the validation of lens performance. Hsiang-Yu Wang detailed the deployment of PDMS lens to the microfluidic systems for fluorescence measurements.

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