

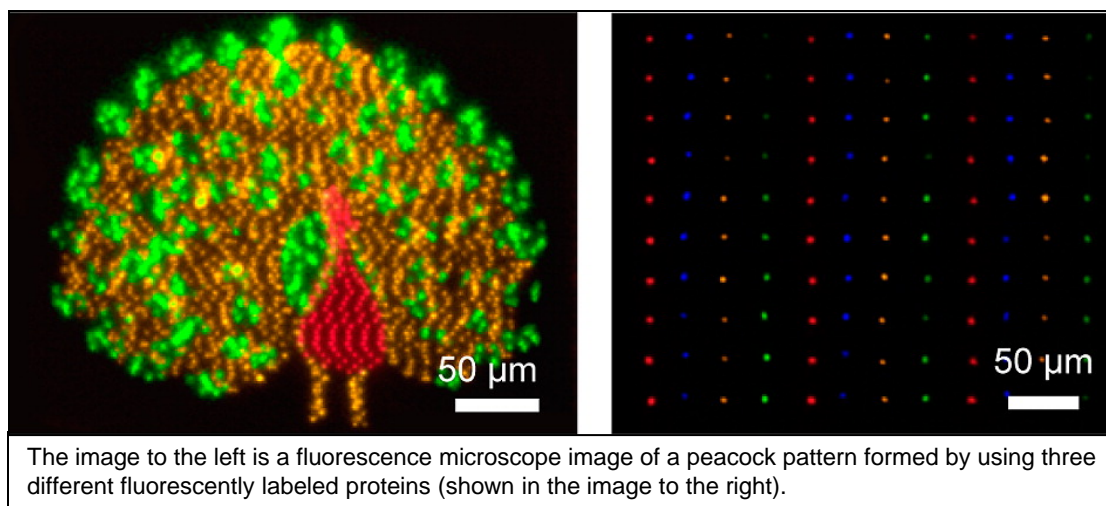


Aptamer Arrays for Biological Studies and Sensing



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In collaboration with John Rogers' group, we have developed functional protein microarrays using the electrohydrodynamic (E-jet) printing technique [1], a technique which can generate very high resolution features in a short period of time. More specifically, we have investigated the compatibility of proteins and antibodies with this technique as protein microarrays hold great promise in proteomics and diagnostics. These microarrays are as important as genetic DNA microarrays; however, they are also more vulnerable than DNA microarrays.



[1] Kazuyo Shigeta, Ying He, Erick Sutanto, Somi Kang, An-Phong Le, Ralph G. Nuzzo, Andrew G. Alleyne, Placid M. Ferreira, Yi Lu, John A. Rogers, "Functional Protein Microarrays by Electrohydrodynamic Jet Printing", *Analytical Chemistry* 84, 10012-10018 (2012).