



Figure 2.1. The Affymetrix method for the manufacture of *in situ* synthesized DNA microarrays (courtesy of Affymetrix). (1) A photo-protected glass substrate is selectively illuminated by light passing through a photolithographic mask. (2) Deprotected areas are activated. (3) The surface is flooded with a nucleoside solution and chemical coupling occurs at photo-activated positions. (4) A new photolithographic mask pattern is applied. (5) The coupling step is repeated. (6) This process is repeated until the desired set of probes is obtained.