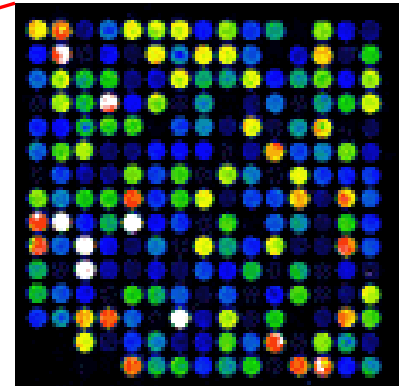
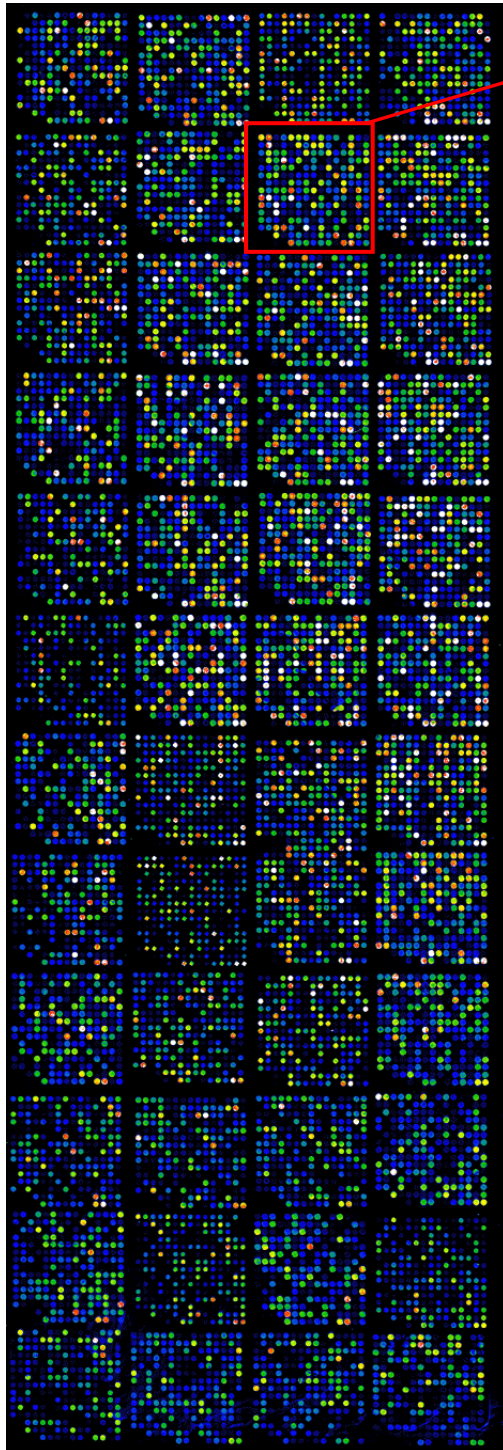


## SPBIO® II Spotter Application

# High Density Spotting 2



This image shows a hybridized Human Oligo chip with 30,000 elements hybridized to Human Cell Line K562 RNA. Total RNA was 20 ug.

The excellent spot morphology was achieved using MiraiBio's proprietary spotting pins. Utilizing a unique crosscut pin designed, these spotting pins deliver excellent spot size coefficients of variations (typically in the 1% - 7% range). They are 100 um in diameter and precision manufactured from 303 stainless steel.

The chip was spotted with a 48-pin printhead (4x12) using a spotting pitch of 280 um. The spotting buffer used was a proprietary, phosphate-based buffer not yet commercially available.