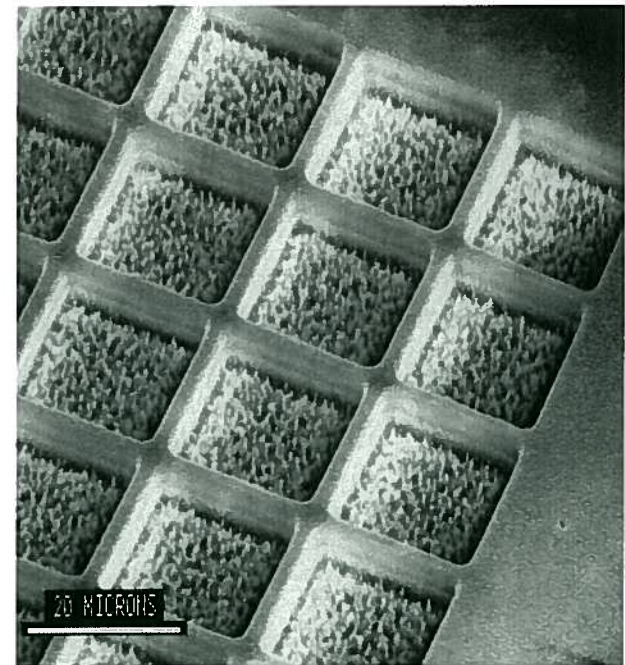
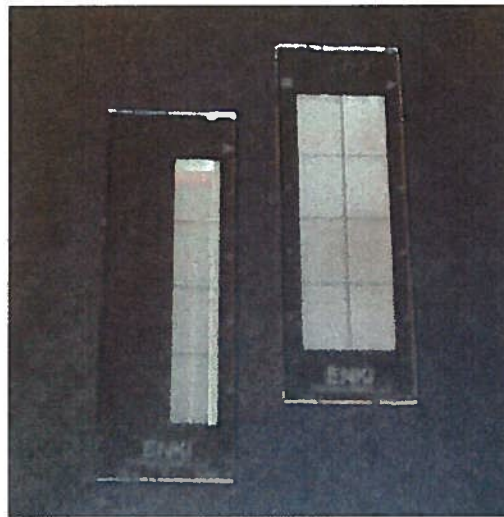


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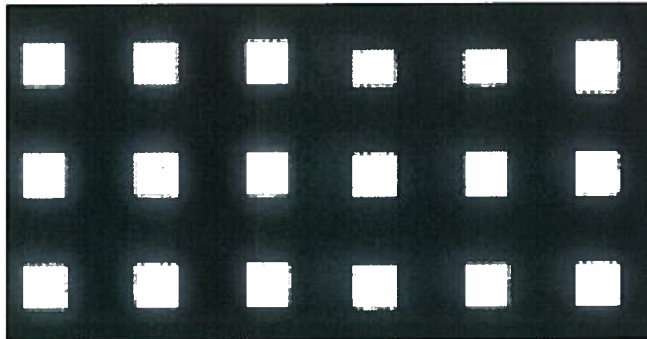
Three Dimensional Microfeatures Increase the Effective Surface Area

The microarray



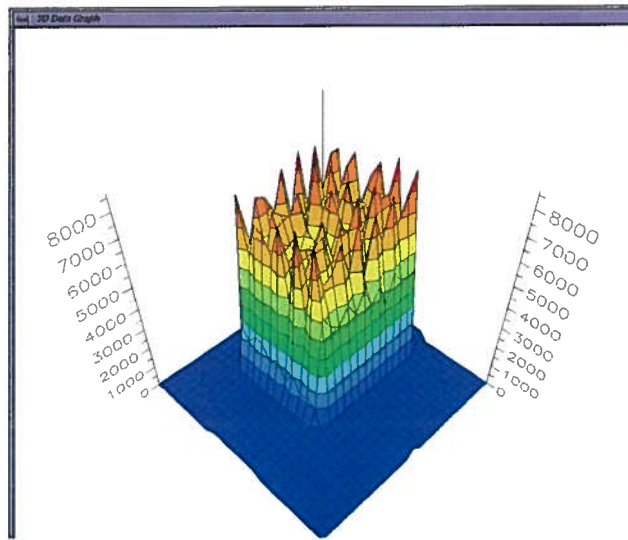
The microfeatures

This Leads to Smaller Spots

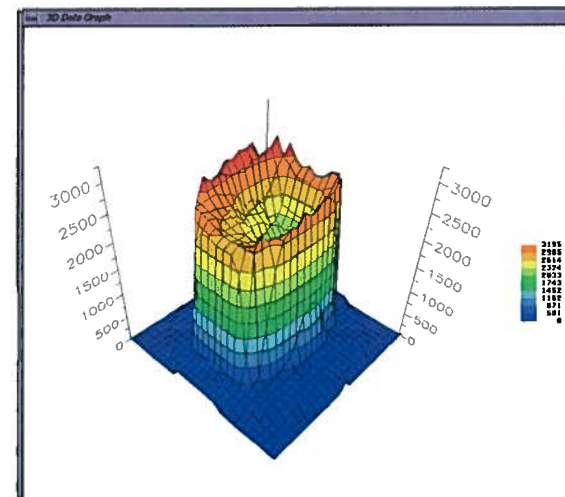


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And More Uniform Spots



3dBiosurfaces Surface with Microfeatures



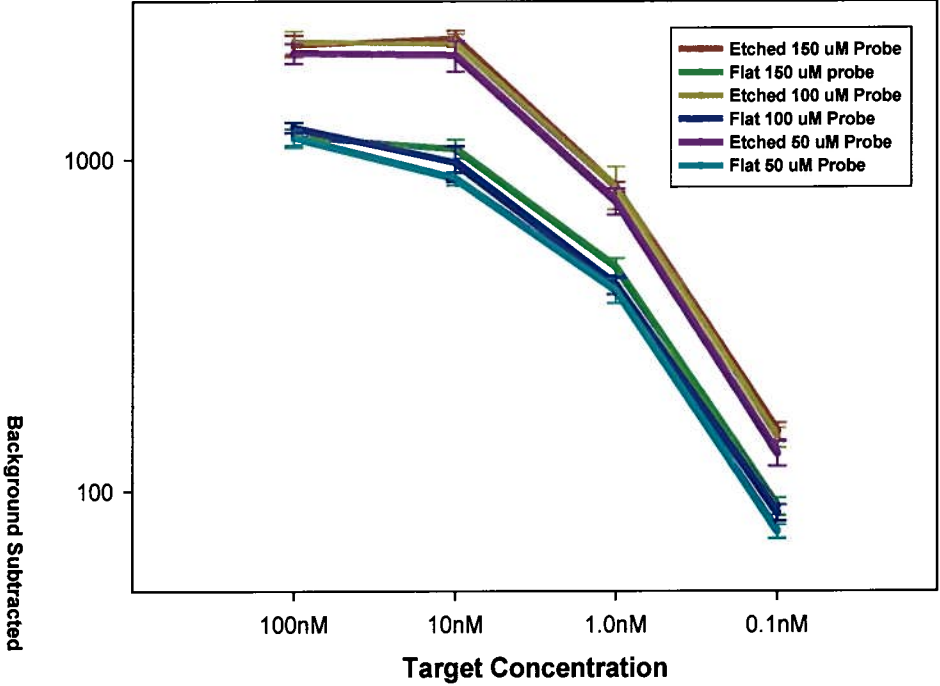
Competitor's Flat Surface

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This Improves the Signal to Background

Log Plot of Hybridization Signal

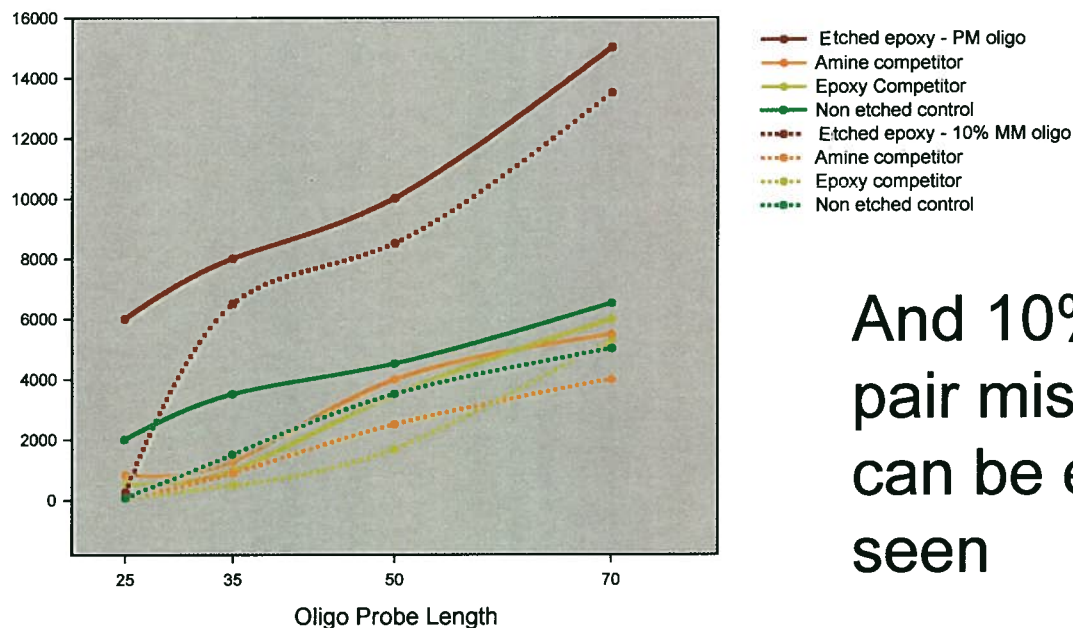
Cy3 75mer as Target



Short Oligos on an Etched Surface give Better Signal than Long Oligos on a Flat Surface

Effect of Probe length on Hybridization Signal and Specificity

Etched Substrates
vs.
Commercially available microarray substrates

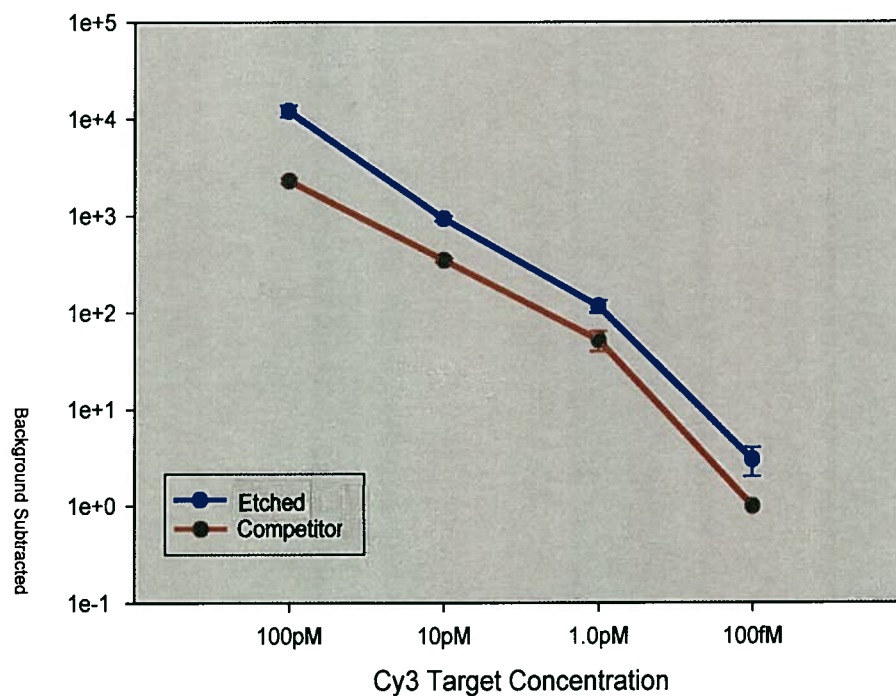


And 10% base
pair mismatches
can be easily
seen

Extending the Technology will Permit Femtomole Sensitivity

Target Dilution Comparison

Etched vs. Competitor



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