

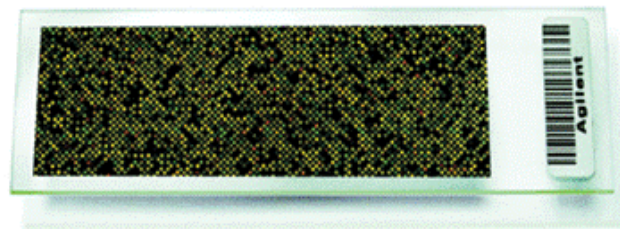
Microarray design workflow

Workflow of Guinea Pig Microarray Designing from Mammalian 244K Array

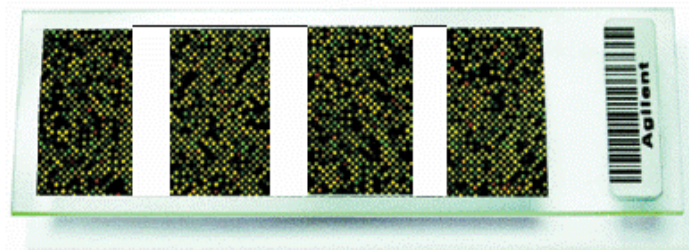
60mer oligos spanning whole genome of Human, Mouse, Rattus, Macaca mulatta, Canine familiaris, Equus caballus (Horse), Felis catus (Cat), Ovis aries (sheep), Sus scrofa (Pig), Cavea porcellus (Guinea pig), Chinchilla lanigera, Pan troglodyte (Chimpanzee), Monodelphis domestica(Gray tailed opussum), Bos Taurus were pooled to make a 2,44,000 features array.



RNA obtained from multiple conditions were pooled and labelled with Cy3 and genomic DNA of Guinea pig was labelled with Cy5 and hybridized, scanned and feature extracted as per Agilent Recommended protocol.



Best hybridized probes for each gene was selected on the basis of total intensity in Cy3 (RNA) and Cy5 (gDNA). All the guinea pig probes were included apart from newly added EST's in Genbank to make 44K microarray (44,000 Features).



Functionally important genes are filtered from the 44,000 features array and microarray with 15,000 features can be made to screen large amount of samples.

