

Experimental design

Microarray							
Channel	1	2	3	4	5	6	7
Green	ref	tumor 1	normal 1	tumor 2	normal 2	tumor 3	normal 3
Red	ref	ref	ref	ref	ref	ref	ref

1.

2.

3.

Data analysis:

1. Green/Red ratio for technical normalization (dye performance, array processing). Probes with no signal are set at background level.
2. Normalized signals compared within patient, tumor vs. normal. Is an oncogenic target present in tumor cells but not in adjacent normal tissue?
3. Normalized signals compared to reference DNA, tumor or normal vs. ref. Is a predisposing target present in the patient but not in healthy reference?
4. Is an oncogenic or predisposing target consistently detected across a patient cohort?