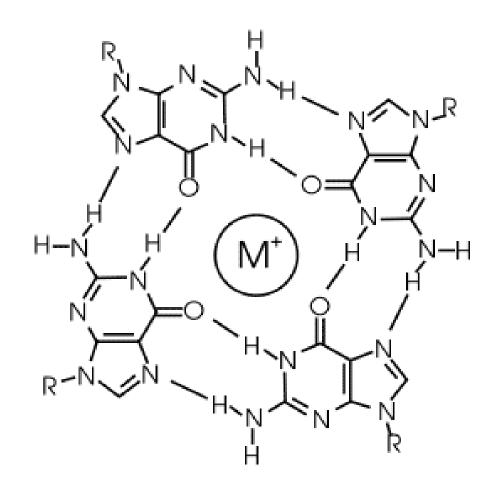
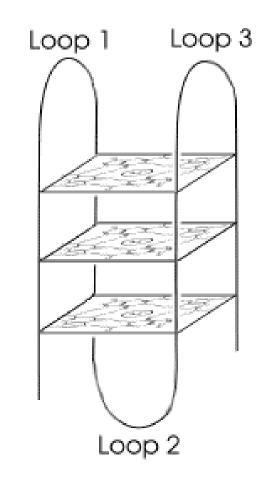
G-Spots

- G-Spot
- GGGG+
- **Biochemical effect Alternative Splicing**
- G-Quadruplexes

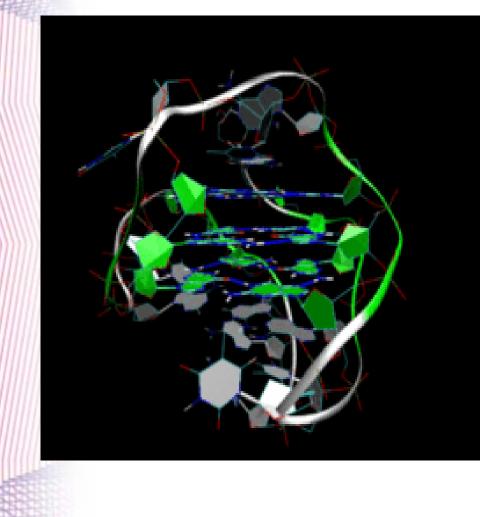
G-Quadruplexes

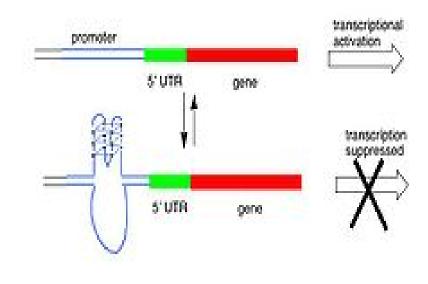




2

G-Quadruplexes





3

Microarrays

- Measure gene expression
- ~25 bases
- Probes arranged in pairs PM/MM

4

Misleading information

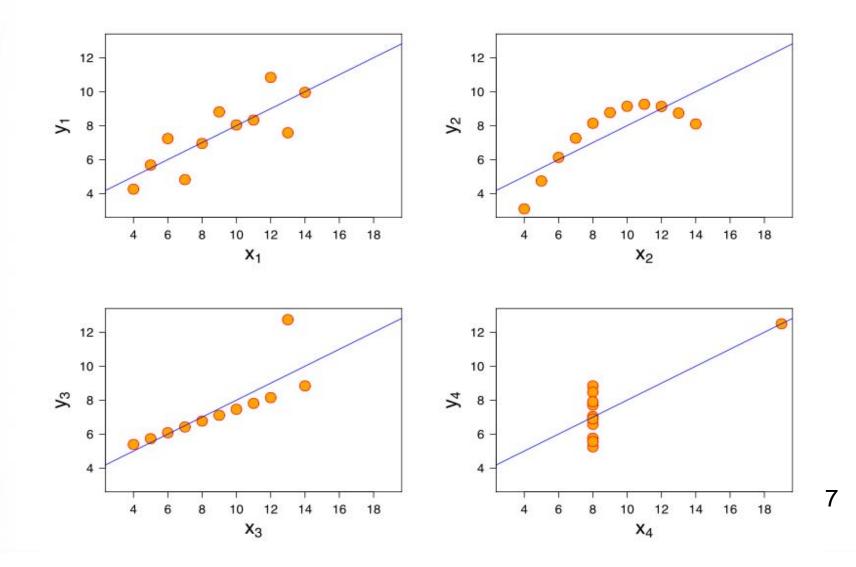
- Exclude from analysis
- NCBI Gene Expression Omnibus
- ~40% of probsets 1+ GSpots

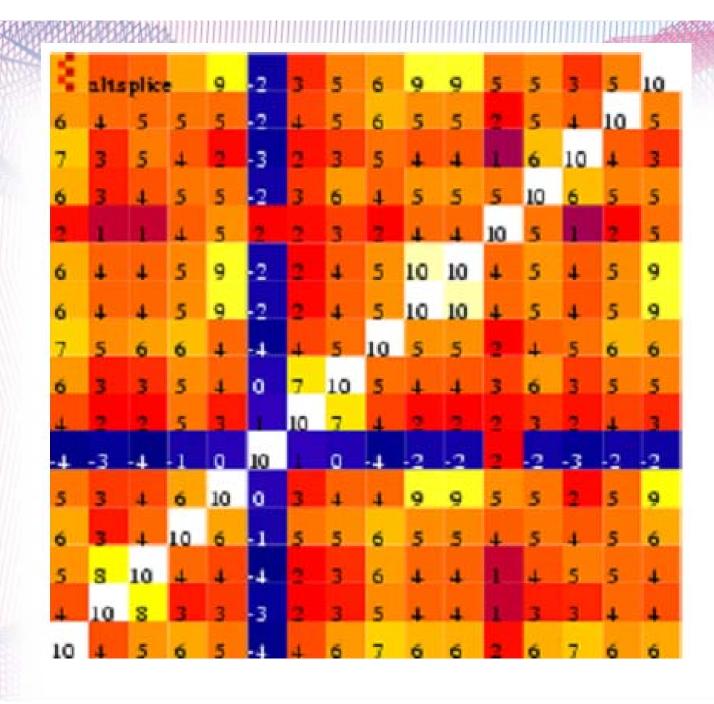
5

GSEs – Gene expression Series

- 6.000 Datasets relating ~300 GSEs
- Pearson Coefficent between Probe pairs

Correlation





Potential for the formation

- Average distance about 3nm
- Can come into contact
- Stable up to 90°
- Remaining probes more space

Steps

- Download files from NCBI-GEO
- Create correlation coefficients
- Exclude Data
- Identify probes with G-Quadruplex