

Kuinka solut kehittyivät?

Kolmenlaisia soluja

Solujen kohtalot

Illumina/Solexa



- **Sample preparation**
 - 100ng–1 g
 - **Attaching to Flow cell**
 - **Bridging**
 - **PCR**
 - **Elongation**
 - **Denaturation**
 - **Clonal amplification**



Fragment Library

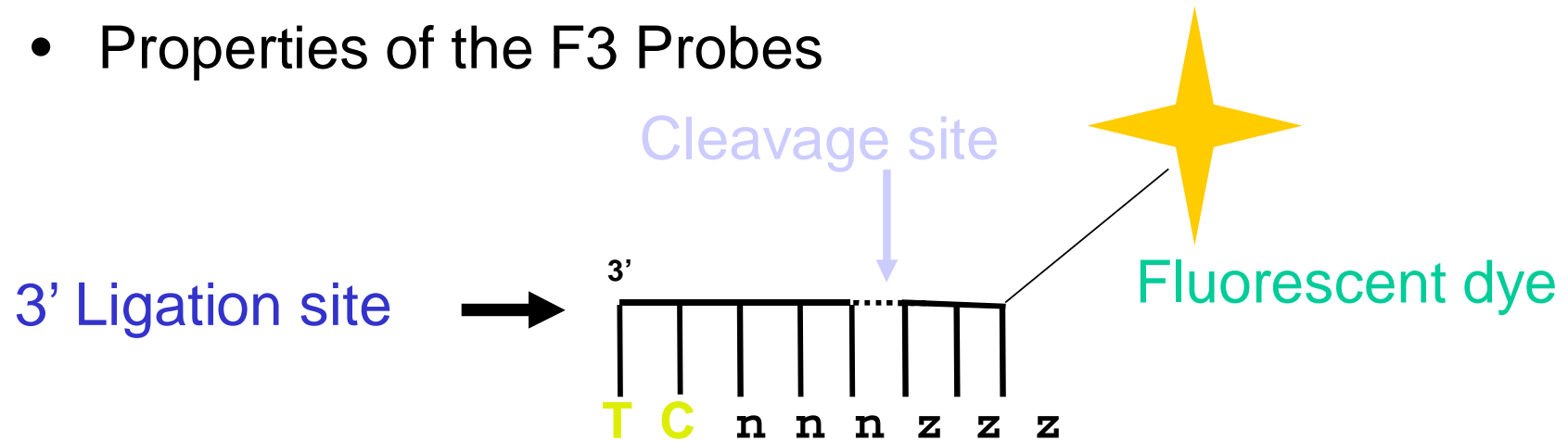


Fragment sample

Randomly or Targeted
(e.g. sonication mechanical
enzymatic digestion)

The F3 SOLiD chemistry

- Properties of the F3 Probes

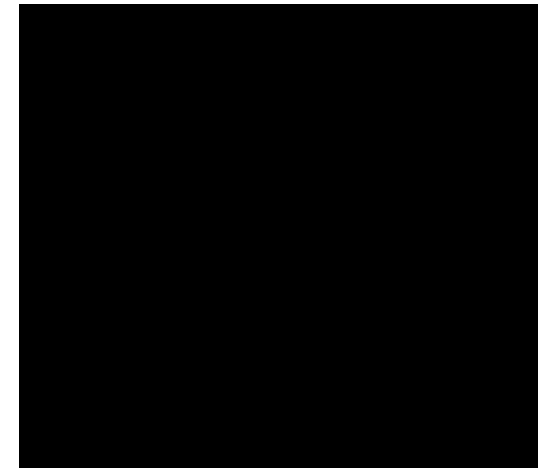


1024 Octamer Probes (4^5)

4 Dyes 4 dinucleotides 256 probes per dye

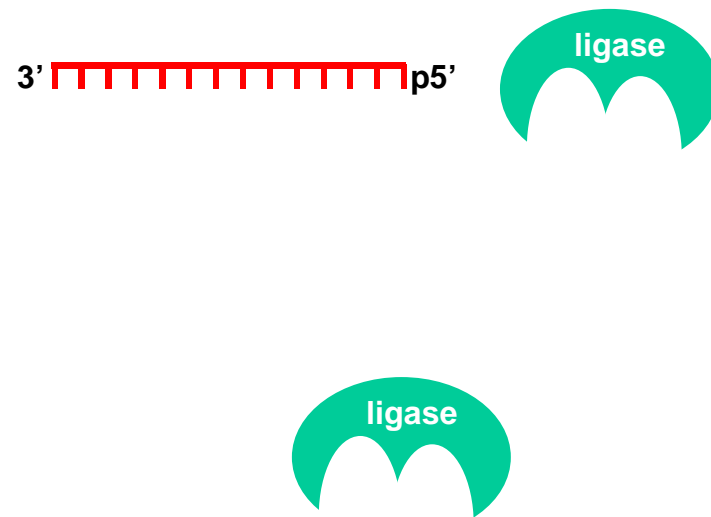
Each dimer is encoded by a color

N= Degenerate bases Z= Universal bases



SOLiD Chemistry System 4-color ligation

Step 2: the ligation reaction process



Patchiness

§ All the samples were different:
from 1390 different OTUs only
11 were present in all samples
less than 1% of observed OTUs
present in all samples
substantial patchiness in



Mitä voidaan analysoida genomilaajuisesti?

- Genomi- ja metagenomi-sekvensointi

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- Kiitokset mielenkiinnosta