Genetics sheet #1 – Recombinant DNA Technology 12/02/2019

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{ sheet correction link: <bit.ly/geneticsod> }

\*scientists names are important

\*barbara works on gene mapping

\*to produce new generation , the recombination should be Done (mixing)

\* cross over between sister's chromatids \*Classes of antibodies : IGG , IGM , IGA, IGD ,IGE

\* anti bodies (Y shape) contain 3 constant ( c1 ,c2,c3) regions and variable regions In heavy and light chain

\* specificity of antibodies depend on variable region (J 1....j5): joining genes

\*combination between joining genes and variable genes give different antibodies

\* IGG : the major class (70%)

\*IGE: allergy

IGA: respiratory and digestive systems \*restriction endonucleases 300 types

\* always we go from 5 to 3 in the sequence

\*Blunt end transform to Sticky ends by deoxynucleotidyl transferase

\*The same Sequence , the same code in humans and in bacteria

\*all hormones are human hormones ( insulin,..)