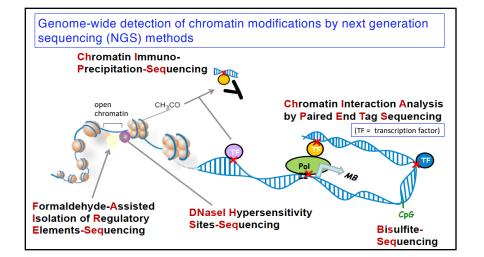
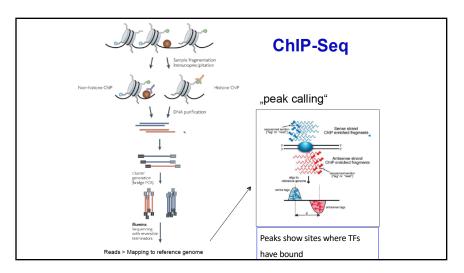
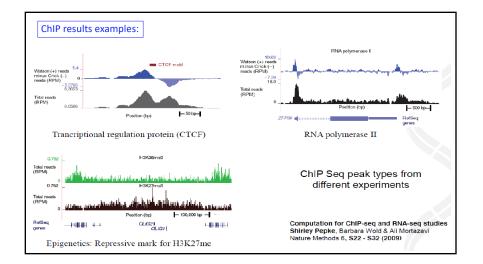
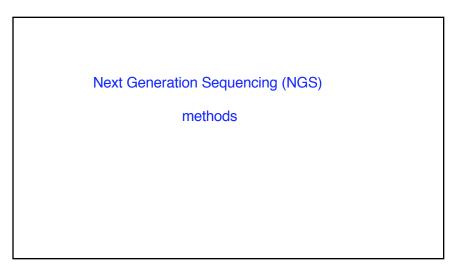


## 8

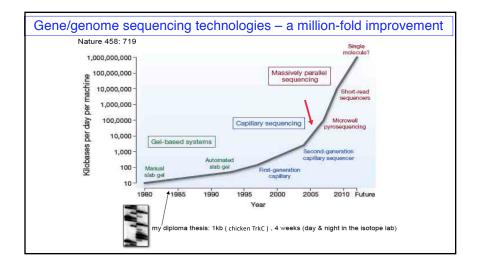




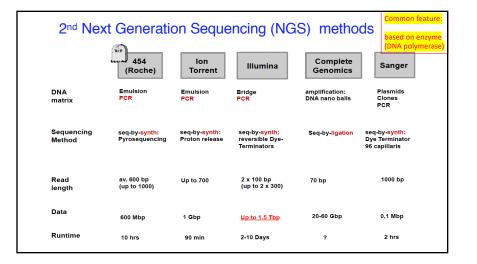


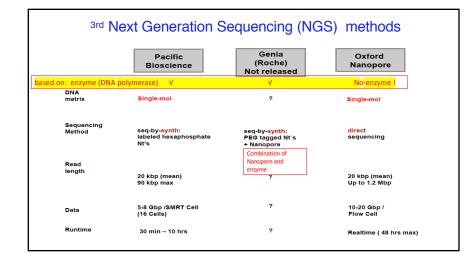


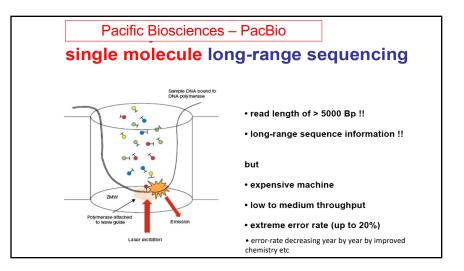
2 <sup>nd</sup> Nex	xt Generati	on Seque	encing (NG	S) metho	ds Common featu
	454 (Roche)	lon Torrent	Illumina	Complete Genomics	(DNA polymer Sanger
DNA matrix	Emulsion PCR	Emulsion PCR	Bridge PCR	amplification: DNA nano balls	Plasmids Clones PCR
Sequencing Method	seq-by- <mark>synth:</mark> Pyrosequencing	seq-by- <mark>synth:</mark> Proton release	seq-by- <mark>synth</mark> : reversible Dye- Terminators	Seq-by-ligation	seq-by <mark>-synth</mark> : Dye Terminator 96 capillaris
Read length	av. 600 bp (up to 1000)	Up to 700	2 x 100 bp (up to 2 x 300)	70 bp	1000 Бр
Data	600 МЬр	1 Gbp	Up to 1.5 Tbp	20-60 Gbp	0,1 Mbp
Runtime	10 hrs	90 min	2-10 Days	?	2 hrs

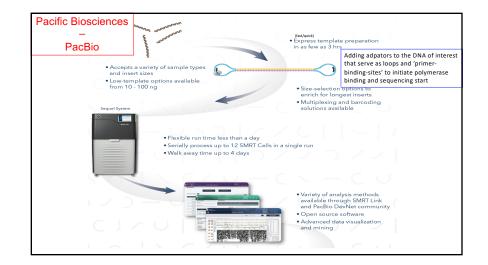


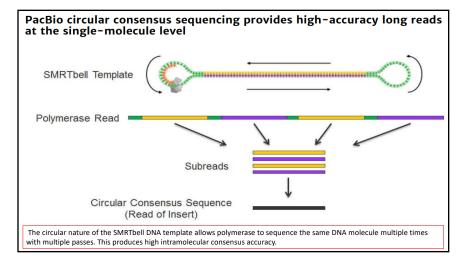
## NGS technology: How to... Image: State of the state of th

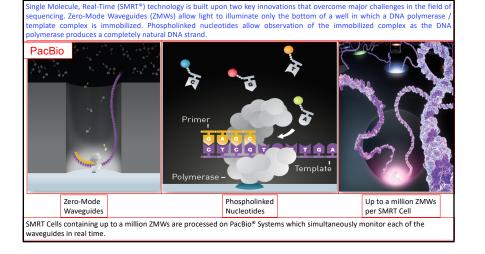


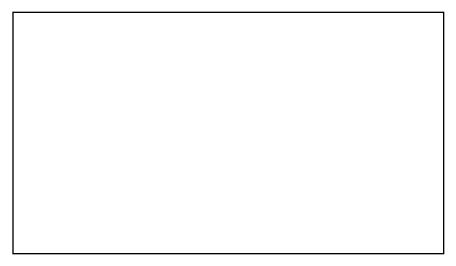


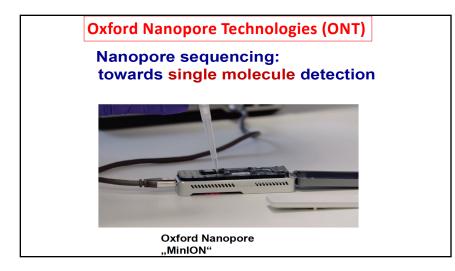


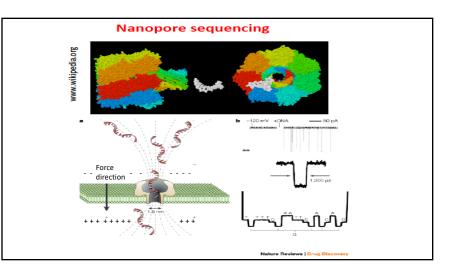


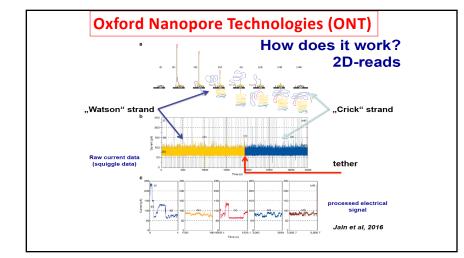






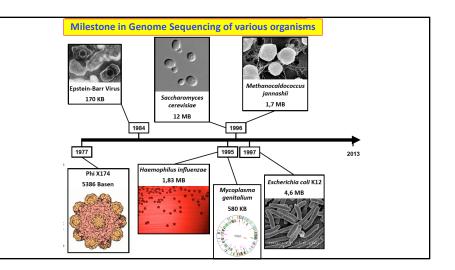


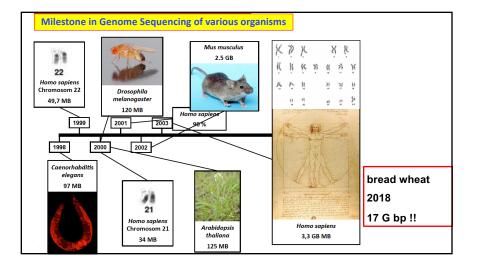


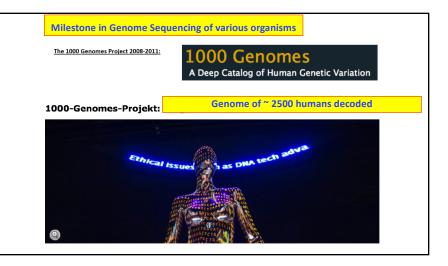


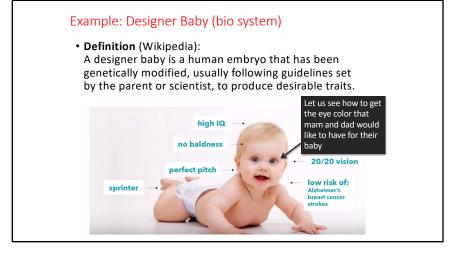


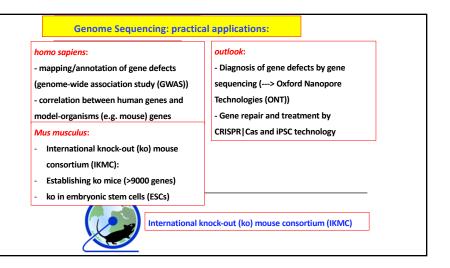


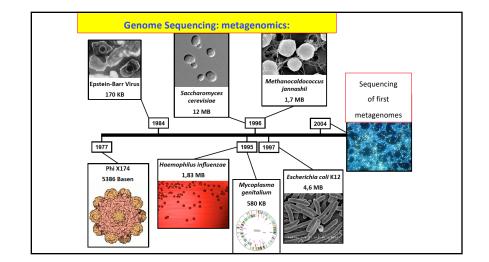


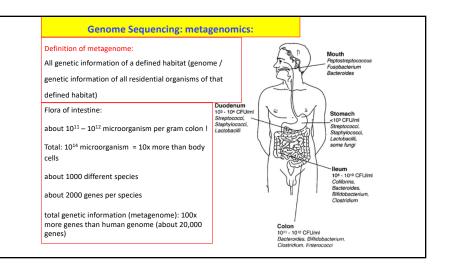


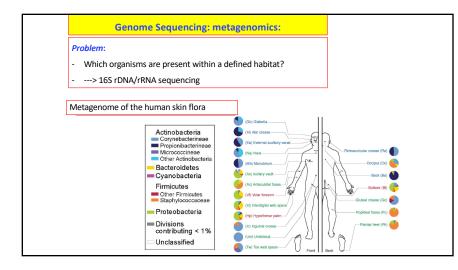


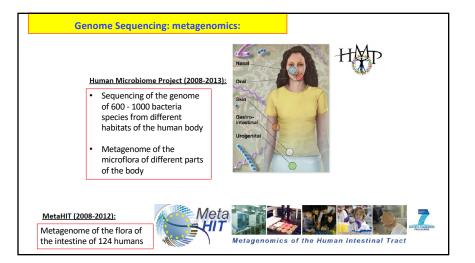


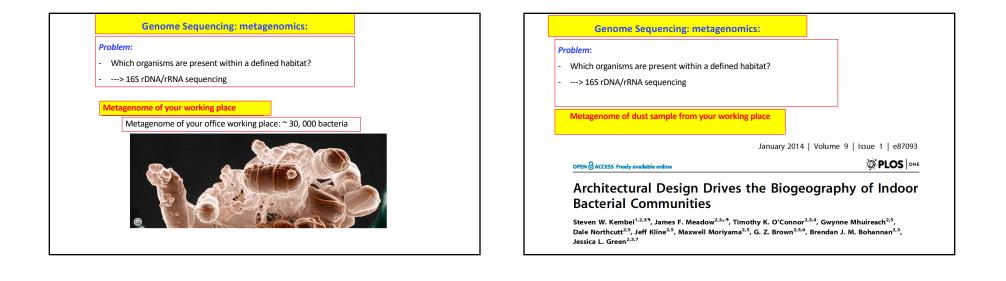


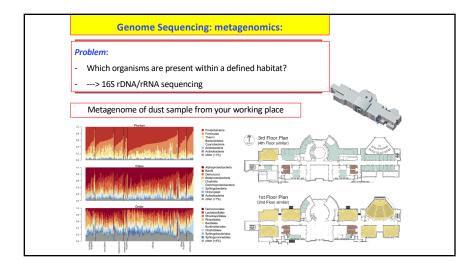


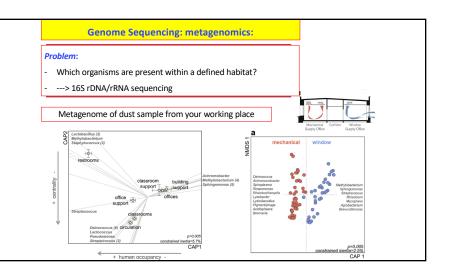












## Genome Sequencing: concluding remarks

Sequencing becomes faster and easier – still, classical

molecular biology methods, applying e.g. target-

mutagenesis, are needed to identify NT-variation-induced phenotypes.