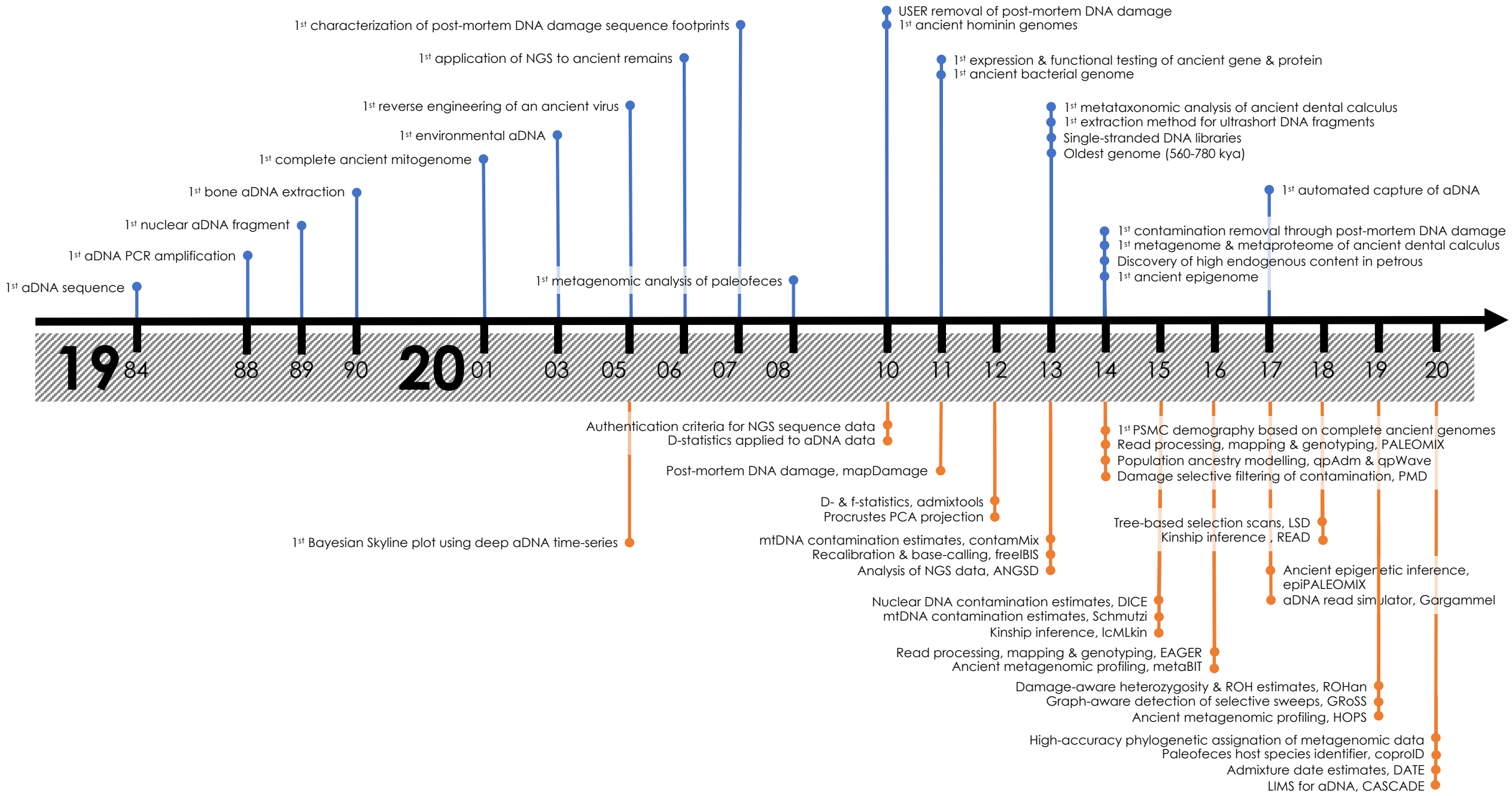
1st characterization of post-mortem DNA damage sequence footprints
1st application of NGS to ancient remains
1st reverse engineering of an ancient virus
1st environmental aDNA
1st complete ancient mitogenome
1st bone aDNA extraction
1st nuclear aDNA fragment
1st aDNA PCR amplification
1st aDNA sequence
1st metagenomic analysis of paleofeces
USER removal of post-mortem DNA damage
1st ancient hominin genomes
1st expression & functional testing of ancient gene & protein
1st ancient bacterial genome
1st metataxonomic analysis of ancient dental calculus
1st extraction method for ultrashort DNA fragments
Single-stranded DNA libraries
Oldest genome (560-780 kya)
1st automated capture of aDNA
1st contamination removal through post-mortem DNA damage
1st metagenome & metaproteome of ancient dental calculus
Discovery of high endogenous content in petrous
1st ancient epigenome
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Authentication criteria for NGS sequence data
D-statistics applied to aDNA data
Post-mortem DNA damage, mapDamage
D- & f-statistics, admixtools
Procrustes PCA projection
1st Bayesian Skyline plot using deep aDNA time-series
mtDNA contamination estimates, contamMix
Recalibration & base-calling, freeIBIS
Analysis of NGS data, ANGSD
1st PSMC demography based on complete ancient genomes
Read processing, mapping & genotyping, PALEOMIX
Population ancestry modelling, qpAdm & qpWave
Damage selective filtering of contamination, PMD
Tree-based selection scans, LSD
Kinship inference , READ
Ancient epigenetic inference, epiPALEOMIX
aDNA read simulator, Gargammel
Nuclear DNA contamination estimates, DICE
mtDNA contamination estimates, Schmutzi
Kinship inference, lcMLkin
Read processing, mapping & genotyping, EAGER
Ancient metagenomic profiling, metaBIT
Damage-aware heterozygosity & ROH estimates, ROHan
Graph-aware detection of selective sweeps, GRoSS
Ancient metagenomic profiling, HOPS
High-accuracy phylogenetic assignation of metagenomic data
Paleofeces host species identifier, coproID
Admixture date estimates, DATE
LIMS for aDNA, CASCADE