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Nota di contenuto	Bioinformatics and genomic data: investigating a complex genetic disease -- Computational manipulation of DNA: genetic screening for disease alleles -- Sequence alignment: investigating an influenza outbreak -- Database searching and multiple alignment: investigating antibiotic resistance -- Substitution matrices and protein alignments: virulence factors in e. coli -- Distance measurement in molecular phylogenetics: evolution of mammals -- Tree building in molecular phylogenetics: the three domains of life -- DNA sequencing: identification of novel viral pathogens -- Sequence-based gene prediction: annotation of a resistance plasmid.