

Free ebook Chapter 14 the human genome wordwise [PDF]

The human genome is a complete set of nucleic acid sequences for humans encoded as DNA within the 23 chromosome pairs in cell nuclei and in a small DNA molecule found within individual mitochondria. These are usually treated separately as the nuclear genome and the mitochondrial genome.

The Human Genome Project (HGP) was launched in October 1990 and completed in April 2003. The HGP's signature accomplishment was generating the first sequence of the human genome, providing fundamental information about the human blueprint, which has since accelerated the study of human biology and improved the practice of medicine.

The current human reference genome was released by the Genome Reference Consortium (GRC) in 2013 and most recently patched in 2019 (GRCh38.p13). This reference traces its origin to the publicly funded Human Genome Project (HGP), which was launched in 1990. The HGP's signature aim was to sequence the 3 billion bases of the human genome. Additional goals included the generation of physical maps.

Two decades after the draft sequence of the human genome was unveiled to great fanfare, a team of 99 scientists has finally deciphered the entire thing. They have filled in vast gaps and sequenced all of the approximately three billion base pairs of deoxyribonucleic acid (DNA) that make up the entire set of chromosomes of the human organism. The human genome includes the coding regions of DNA, which encode all the genes (between 20,000 and 25,000 of the human organism), as well as the noncoding regions.

The human genome holds an extraordinary trove of information about human development, physiology, medicine, and evolution. Here we report the results of an international collaboration to produce a new reference genome by the Telomere-to-Telomere (T2T) Consortium. This consortium has just taken a massive step forward in human genomics, writing in *Science* the group describes the first complete human genome project results in 2003. An accurate and complete human genome sequence was finished and made available to scientists and researchers two years ahead of the original Human Genome Project schedule and at a cost less than the original estimated budget. The finished genome sequence, building on our leadership role in the initial sequencing of the human genome, we collaborate with the world's scientific and medical communities to enhance genomic technologies that accelerate breakthroughs and improve lives by empowering and expanding the field of genomics. We can benefit all of humankind.

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the human genome project

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human genome project results in 2003 an accurate and complete human genome sequence was finished and made available to scientists and researchers two years ahead of the original human genome project schedule and at a cost less than the original estimated budget the finished genome sequence

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