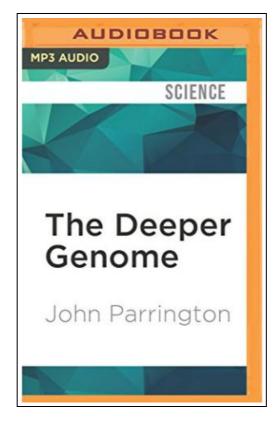
# The Deeper Genome: Why There Is More to the Human Genome Than Meets the Eye



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## Reviews

This publication may be really worth a go through, and a lot better than other. It really is full of knowledge and wisdom Its been printed in an exceptionally easy way in fact it is simply after i finished reading this publication by which basically modified me, affect the way i really believe.

(Troy Dietrich DDS)

### THE DEEPER GENOME: WHY THERE IS MORE TO THE HUMAN GENOME THAN MEETS THE EYE



Audible Studios on Brilliance, United States, 2016. CD-Audio. Book Condition: New. Unabridged. 171 x 133 mm. Language: English. Brand New. Over a decade ago, as the Human Genome Project completed its mapping of the entire human genome, hopes ran high that we would rapidly be able to use our knowledge of human genes to tackle many inherited diseases and understand what makes us unique among animals. But things didn t turn out that way. For a start we turned out to have far fewer genes than originally thoughtjust over 20,000, the same sort of number as a fruit fly or worm. What s more, the proportion of DNA consisting of genes coding for proteins was a mere 2 percent. So, was the rest of the genome accumulated junk? Things have changed since those early heady days of the Human Genome Project. But the emerging picture is, if anything, far more exciting. In this book John Parrington explains the key features that are coming to lightsome, such as the results of the international ENCODE program, still much debated and controversial in their scope. He gives an outline of the deeper genome, involving layers of regulatory elements controlling and coordinating the switching on and off of genes; the impact of its 3D geometry; the discovery of a variety of new RNAs playing critical roles; the epigenetic changes influenced by the environment and life experiences that can make identical twins different and be passed on to the next generation; and the clues coming out of comparisons with the genomes of Neanderthals, as well as that of chimps, about the development of our species. We are learning more about ourselves and about the genetic aspects of many diseases. But in its complexity, flexibility, and ability to respond to environmental cues, the human...



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