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THE NEW
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OF HUMAN
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Ancestors In Our Genome The New Science Of Human Evolution

John Parrington



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Ancestors in Our Genome Eugene E. Harris, 2014-10-31 An up to date account of the evolution of the human genome amongst the primate group written from the perspective of population genetics

Ancestors in Our Genome Eugene E. Harris (Professor), 2015 In 2001 scientists were finally able to determine the full human genome sequence and with the discovery began a genomic voyage back in time Since then we have sequenced the full genomes of a number of mankind's primate relatives at a remarkable rate The genomes of the common chimpanzee 2005 and bonobo 2012 orangutan 2011 gorilla 2012 and macaque monkey 2007 have already been identified and the determination of other primate genomes is well underway Researchers are beginning to unravel our full genomic history comparing it with closely related species to answer age old questions about how and when we evolved For the first time we are finding our own ancestors in our genome and are thereby gleaning new information about our evolutionary past In *Ancestors in Our Genome* molecular anthropologist Eugene E Harris presents us with a complete and up to date account of the evolution of the human genome and our species Written from the perspective of population genetics and in simple terms the book traces human origins back to their source among our earliest human ancestors and explains many of the most intriguing questions that genome scientists are currently working to answer For example what does the high level of discordance among the gene trees of humans and the African great apes tell us about our respective separations from our common ancestor Was our separation from the apes fast or slow and when and why did it occur Where when and how did our modern species evolve How do we search across genomes to find the genomic underpinnings of our large and complex brains and language abilities How can we find the genomic bases for life at high altitudes for lactose tolerance resistance to disease and for our different skin pigmentations How and when did we interbreed with Neandertals and the recently discovered ancient Denisovans of Asia Harris draws upon extensive experience researching primate evolution in order to deliver a lively and thorough history of human evolution *Ancestors in Our Genome* is the most complete discussion of our current understanding of the human genome available

The Deeper Genome John Parrington, 2015 Mapping the human genome proved to be just the beginning in understanding our genes what makes us human and how we can use the knowledge to cure inherited diseases John Parrington describes an emerging picture of our genome in 3D with many non gene players and environmental influences that is far more complex and subtle than we ever imagined

Redesigning Life John Parrington, 2016 Rapid developments in the manipulation of genomes including editing genes with molecular scissors and the synthesizing of new lifeforms look set to transform our future and perhaps that of life on Earth John Parrington explains the cutting edge science and its implications

Constructed Ecologies Margaret Grose, 2017-03-16 Today designers are shifting the practice of landscape architecture towards the need for a more complex understanding of ecological science *Constructed Ecologies* presents ecology as critical theory for design and provides major ideas for design that are supported with solid and imaginative science In the questioning narrative of

Constructed Ecologies the author discards many old and tired theories in landscape architecture With detailed documentation she casts off the savannah theory critiques the search for universals reveals the needed role of designers in large scale agriculture abandons the overlay technique of McHarg and introduces the ecological and urban health urgency of public night lighting Margaret Grose presents wide ranging new approaches and shows the importance of learning from science for design of going beyond assumptions of working in multiple rather than single issues of disrupting linear design thinking and of dealing with data This book is written with a clear voice by an ecologist and landscape architect who has led design students into loving ecological science for the support it gives design *Introduction to Genomics* Arthur M. Lesk,

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