

Why isn't all life pond-scum? Why are there multimillion-celled, long-lived monsters like us, built from tens of thousands of cooperating genes? Mark Ridley presents a new explanation of how complex large life forms like ourselves came to exist, showing that the answer to the greatest mystery of evolution for modern science is not the selfish gene; it is the cooperative gene. In this thought-provoking book, Ridley breaks down how two major biological hurdles had to be overcome in order to allow living complexity to evolve: the proliferation of genes and gene-selfishness. Because complex life has more genes than simple life, the increase in gene numbers poses a particular problem for complex beings. The more genes, the more chance for copying error; it is far easier to make a mistake copying the Bible than it is copying an advertising slogan. To add to the difficulty, Darwin's concept of natural selection encourages genes that look out for themselves, selfish genes that could easily evolve to sabotage the development of complex life forms. By retracing the history of life on our planet -- from the initial wobbly, replicating molecules, through microbes, worms, and flies, and on to humans -- Ridley reveals how life evolved as a series of steps to manage error and to coerce genes to cooperate within each body. Like a benign and unseen hand -- what Ridley calls Mendel's Demon -- the combination of these strategies enacts Austrian monk Gregor Mendel's fundamental laws of inheritance. This demon offers startling new perspectives on issues from curing AIDS, the origins of sex and gender, and cloning, to the genetics of angels. Indeed, if we are ever to understand the biology of other planets, we will need more than Darwin; we will need to understand how Mendel's Demon made the cooperative gene into the fundamental element of life. What does the cooperative gene tell us about our future? With genetic technology burgeoning around the world, we must ask whether life will evolve to be even more complex than we already are. Human beings, Ridley concludes, may be near the limit of the possible, at least for earthly genetic mechanisms. But in the future, new genetic and reproductive biosystems could allow our descendants to increase their gene numbers and therefore their complexity. This process, he speculates, could lead to the evolution of life forms far stranger and more interesting than anything humanly discovered or imagined so far. Written with uncommon energy, force, and clarity, *The Cooperative Gene* is essential reading for anyone wishing to see behind the headlines of our genetic age. It is an eye-opening invitation to the biotech adventure humanity has already embarked upon.

The Underneath of Things: Violence, History, and the Everyday in Sierra Leone, *Composition, Biofeedback and Self Control: An Aldine Reader on the Regulation of Bodily Processes and Consciousness.*, *Alaska Fisheries: Hearings Before the Subcommittee of the Committee on Fisheries, United States Senate, Sixty-Second Congress, Second Session, on S.5856, a Bill to Amend an ACT for the Protection and Regulation of the Fisheries of Alaska (Paperback)* - Com, *The Universal Family Health Encyclopedia, Sic Semper Tyrannis ! - Volume 40: The Decline and Fall of Child Protective Services, Annals Child Devel V5 1988 (Annals of Child Development)*, *One Good Knight with the Presidents Daughter: A Three-Act Comedy*, Robert Clive, *Cycles of Life (American Indians)*,

Can you discover a simple mathematical result of Mendelian genetics that describes how genes interact with each other?. *The Cooperative Gene* has 69 ratings and 5 reviews. Walt said: This was a very interesting book, but seems somewhat incomplete. As a description of the ef.

The main solution to the problem of copying error, in complex life, is sexual reproduction. But complex life on Earth uses a particular kind of sex.

We use a population-genetic model to explore when cooperative binding of transcription factors is favored by evolution, and what effects. Nature. Nov 1;() doi: /nature Epub Oct
Origins of life: The cooperative gene. Attwater J, Holliger P. Comment on. It is remarkable that a field founded on the concept of selfish genes (Dawkins, b) got so far for so long without paying much attention to specifiable genes. Geneticists from the Universities of Manchester and Bath are celebrating the discovery of the elusive 'greenbeard gene' that helps explain why.

THE COOPERATIVE GENE: How Mendel's Demon Explains the Evolution of Complex Beings. Mark Ridley, Author. Free Press \$26 (p) ISBN.

The Cooperative Gene: Evolution, Human Nature, and Politics. Author(s). Peter A. Corning,. Book/Volume: 10 Editor(s): Albert Somit, Steven A. Peterson ISBN.

For all the talk of selfish genes, there's considerable evidence that advanced life evolved from cooperation between genes.

Transcriptional synergy is a key element of such combinatorial control in gene regulation networks. It requires cooperative binding of multiple. Brief comments on Mark Ridley's book 'The Cooperative Gene: How Mendel's Demon Explains the Evolution of Complex Beings'.

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