

Power Sex Suicide Mitochondria And The Meaning Of Life Oxford Landmark Science By University College London Lane Nick Professor Of Evolutionary Biochemistry

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"Pressestimmen 'Full of startling insights into the nature and evolution of life as we know it.'--*The Economist* Synopsis Mitochondria are tiny structures located inside our cells that carry out the essential task of producing energy for the cell. They are found in all complex living things, and in that sense, they are fundamental for driving complex life on the planet. But there is much more to them than that. Mitochondria have their own DNA, with their own small collection of genes, separate from those in the cell nucleus. It is thought that they were once bacteria living independent lives. Their enslavement within the larger cell was a turning point in the evolution of life, enabling the development of complex organisms and, closely related, the origin of two sexes. Unlike the DNA in the nucleus, mitochondrial DNA is passed down exclusively (or almost exclusively) via the female line. That's why it has been used by some researchers to trace human ancestry daughter-to-mother, to 'Mitochondrial Eve'. Mitochondria give us important information about our evolutionary history. And that's not all. Mitochondrial genes mutate much faster than those in the nucleus because of the free radicals produced in their energy-generating role. This high mutation rate lies behind our ageing and certain congenital diseases. The latest research suggests that mitochondria play a key role in degenerative diseases such as cancer, through their involvement in precipitating cell suicide. Mitochondria, then, are pivotal in power, sex, and suicide. In this fascinating and thought-provoking book, Nick Lane brings together the latest research findings in this exciting field to show how our growing understanding of mitochondria is shedding light on how complex life evolved, why sex arose (why don't we just bud?), and why we age and die. This understanding is of fundamental importance, both in understanding how we and all other complex life came to be, but also in order to be able to control our own illnesses, and delay our degeneration and death. 'An extraordinary account of groundbreaking modern science...The book abounds with interesting and important ideas.' Mark Ridley, Department of Zoology, University of Oxford Alle Produktbeschreibungen"

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The vital force proton power and the origin of life mitochondria and the meaning of life power sex suicide about dr nick lane is a british biochemist and writer he was awarded the ?rst provost s venture research prize in

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Without mitochondria we would have no cell suicide no sculpting of embryonic shape no sexes no menopause no aging in this fascinating and thought provoking book nick lane brings together the latest research in this exciting field to show how our growi

3 the vital force proton power and the origin of life 4 insider deal why mitochondria are needed for the evolution of plexity 5 power laws size and the ramp of ascending plexity 6 power sex suicide the troubled b, power sex suicide is an incredibly dense but fascinating book that makes the fantasies of that fiction book seem tame nick lane contends that mitochondria are responsible , power sex suicide mitochondria have also made the headlines for their use in forensics to establish the true identity of people or corpses including several celebrated cases.

Power sex suicide focuses strongly on theories relating to evolutionary aspects of the mitochondrion mitochondriologists may find some of his preferred hypotheses too controversial

but they and anyone interested in the broader and more philosophical aspect Mitochondria then are pivotal in power sex and suicide in this fascinating and thought provoking book nick lane brings together the latest research findings in this exciting field to show how our growing understanding of mitochondria is shedding light , this high mutation rate lies behind our ageing and certain congenital diseases the latest research suggests that mitochondria play a key role in degenerative diseases such as cancer through their involvement in, lane argues that the primordial mitochondrial apoptotic machinery was the engine driving the origin of sex in a damaged cell selfish mitochondria could preserve themselves by encouraging the cell to fuse with an undamaged cell thereby providing the mitochondria with a new cytoplasm with a more favorable redox environment while at the same time reborn.

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Without programmed cell death the bonds that bind cells in plex multicellular anisms might never

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Power sex suicide mitochondria and the meaning of life nick lane if it, in power sex suicide author nick lane being a biochemist himself focuses on the scientific side of the argument it wasn t till the 1840 s that the first intercellular structures were , if it weren t for mitochondria scientists argue we d all still be single celled bacteria indeed these tiny structures inside our cells are important beyond imagining without mitochondria we would .

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