



## Life on the Edge: The Coming of Age of Quantum Biology

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By Jim Al-Khalili, Johnjoe McFadden

Transworld Publishers Ltd. Paperback. Book Condition: new. BRAND NEW, Life on the Edge: The Coming of Age of Quantum Biology, Jim Al-Khalili, Johnjoe McFadden, Life is the most extraordinary phenomenon in the known universe; but how does it work? Even in this age of cloning and synthetic biology, the remarkable truth remains: nobody has ever made anything living entirely out of dead material. Life remains the only way to make life. Are we missing a vital ingredient in its creation? Like Richard Dawkins' The Selfish Gene, which provided a new perspective on evolution, Life on the Edge alters our understanding of life's dynamics as Jim Al-Khalili and Johnjoe Macfadden reveal the hitherto missing ingredient to be quantum mechanics. Drawing on recent ground-breaking experiments around the world, they show how photosynthesis relies on subatomic particles existing in many places at once, while inside enzymes, those workhorses of life that make every molecule within our cells, particles vanish from one point in space and instantly materialize in another. Each chapter in Life on the Edge opens with an engaging example that illustrates one of life's puzzles - How do migrating birds know where to go? How do we really smell the scent...



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