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Evolution of Eukaryotes

A. Malcolm Campbell • Christopher J. Paradise

Many people have a vague sense that the hypothesized origin of life, in the form of bacteria, sounds plausible. However, few people can fathom how the first eukaryotic cell, complete with nucleus, mitochondria and maybe chloroplast, came into being. This book presents the evidence that reveals the origins of all three DNA-containing organelles. In addition, this book will illustrate how DNA, a molecule that is 2 meters (6 feet) long, can fit into all cells' nuclei that are only about 2 microns (0.000002 meters) in diameter. Once eukaryotes evolved, the next obvious question is how multicellular organism could have evolved from simpler unicellular species. This book looks at multicellular algae as a case study on the origins of multicellularity.

A. Malcolm Campbell teaches biology at Davidson College, NC. He received national and international education awards: Genetics Society of America (2013); American Association for the Advancement of Science (2012); and American Society for Cell Biology (2006). He was the founding co-editor in chief of CBE Life Sciences Education; founding director of Genome Consortium for Active Teaching (GCAT); and member of the American Society for Cell Biology governing council (2012–2014).

Christopher J. Paradise is professor of biology and environmental studies at Davidson College. He teaches introductory biology, ecology, entomology, and topical seminars on ecotoxicology and renewable natural resources. He also occasionally leads a study abroad program in India. His research evaluates anthropogenic factors that influence insect biodiversity at a variety of scales. His current research interests include effects of land use patterns on pollinator communities in parks.



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