



# Eukaryotism and Symbiosis

By Schenk, Hainfried E.A. / Herrmann, Reinhold G.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Intertaxonic Combination versus Symbiotic Adaptation | New techniques in molecular biology have brought spectacular new insights into the study of evolution at the molecular level. This book presents the resulting relatively new concept of "molecular phylogeny", with an overview of current accomplishments and the future direction of research on organelle origin and evolution and the biology of the "higher cell". | Part I Intertaxonic Combination and the Origin and Differentiation of the Cell.- 1.1 Phylogeny of Exogenosomes.- Origin and Evolution of Chloroplasts: Current Status and Future Perspectives.- What's Eating Eu? The Role of Eukaryote/Eukaryote Endosymbioses in Plastid Origins.- The Complete Sequence of the Cyanobacterial Genome of *Cyanophora paradoxa*: The Genetic Complexity of a Primitive Plant.- Plastid-like Organelles in Anaerobic Mastigotes and Parasitic Apicomplexans.- Complete Mitochondrial DNA Sequence of Budding Yeast *Hansenula wingei* Indicates Its Intermediary Characteristics Between Those of Yeasts and Filamentous Fungi.- Biogenesis of Hydrogenosomes in *Psalteriomonas lanterna*: No Evidence for an Exogenosomal Ancestry.- 1.2 Intertaxonic Combination and Gene Transfer (Interspecific, Intracellular).- Eukaryotism, Towards a New Interpretation.- Obituary: Hans Kössel (1934-1995).- Transcript Editing in Chloroplasts of Higher Plants.- The Mobile Introns in Fission Yeast Mitochondria: A Short Review and New Data.- Gene Transfer from...



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