

Anoxia

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From the contents: Introduction, Joseph Seckbach. Stepping into the book of Eukaryotes and Anoxia, Alexander Altenbach, Joan Bernhard, Joseph Seckbach. List of Authors and their Addresses. List of External Reviewers and Referees. Acknowledgment to authors, reviewers and any special people who assisted. PART I: GENERAL INTRODUCTION Anaerobic eukaryotes, Tom Fenchel. Biogeochemical reactions in marine sediments underlying anoxic water bodies, Tina Treude. Diversity of anaerobic prokaryotes and eukaryotes breaking long-established dogmas, Aharon Oren. PART II: FUNCTIONAL BIOCHEMISTRY The biochemical adaptations of mitochondrion-related organelles of parasitic and free-living microbial eukaryotes to low oxygen environments, Anastasios Tsaousis et al. Hydrogenosomes and mitosomes: mitochondrial adaptations to life in anaerobic environments, Rob De Graaf and Johannes Hackstein. Adapting to hypoxia: lessons from vascular endothelial growth factor, Nina and Andy Levy. PART III: MANAGING ANOXIA Magnetotactic protists at the oxic-anoxic transition zones of coastal aquatic environments, Dennis A. Bazylinski et al. A novel ciliate (Ciliophora: Hypotrichida) isolated from bathyal anoxic sediments, David J. Baudoin et al. The wood-eating termite hindgut: diverse cellular symbioses in a microoxic to anoxic environment, Michael F. Dolan. Ecological and experimental exposure of insects to anoxia reveals surprising tolerance, William W. Hoback. The unusual response of encysted embryos of the animal extremophile, *Artemia franciscana*, to prolonged anoxia, James S. Clegg. Survival of tardigrades in extreme environments a model animal for astrobiology, Daiki Horikawa. Long-term anoxia-tolerance in flowering plants, Robert M.M. Crawford. PART IV: FORAMINIFERA Benthic Foraminifera: inhabitants of low-oxygen environments, Karoliina Koho and Elisa Pia-Ochoa. Ecological and biological response of benthic Foraminifera under oxygen-depleted conditions: evidence from laboratory approaches, Petra Heinz and Emmanuele Geslin. The response of benthic Foraminifera to low-oxygen conditions of the Peruvian oxygen minimum zone, Jrgen Mallon et al. Benthic foraminiferal communities and microhabitat selection on the continental shelf off central Peru, Jorge Cardich et al. PART V: ZONES AND REGIONS Living assemblages from the Dead Zone and naturally occurring hypoxic zones, Kurt R. Buck et al. The return of shallow shelf seas as extreme environments: Anoxia and

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