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Sommario/riassunto

"A full review of the latest research findings on microbes involved in conventional aerobic nitrification, anaerobic ammonia oxidation, and related processes. Examines the four principal groups of nitrifying microbes including conventional aerobic bacterial ammonia oxidizers, recently discovered aerobic archaeal ammonia oxidizers, anaerobic ammonia-oxidizing planctomycetes, and nitrite-oxidizing bacteria. Provides current information on the ecology, phylogeny, biochemistry, molecular biology, and genomics of each group of microbes. Discusses the latest industrial applications of nitrification and anammox processes, and explores the ecology of nitrification in marine, freshwater, soil, and wastewater environments."
