



# The Microflora of Lakes and Its Geochemical Activity

*S. I. Kuznetsov*

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The geochemical processes that take place in water bodies do not stem entirely from the activity of bacteria, but are also determined by the biological activity of higher plants and animals. *The Microflora of Lakes and Its Geochemical Activity*, the first English translation of the work of S. I. Kuznetsov, renowned Soviet microbiologist, is a detailed description of these processes.

*The Microflora of Lakes* opens with a complete outline of the ecology and physical and chemical properties of water bodies and a discussion of the entire complex of hydrobionts, since these factors exert tremendous influence on the microbial population. The work then focuses on the principles of the morphology and physiology of the living cell, background knowledge essential to the understanding of the role of microorganisms in the chemical cycle. Having laid the groundwork for the discussion, Kuznetsov follows with chapters on the distribution of bacteria and transformations of organic matter in lakes. He then examines the role of bacteria in the oxygen regime, and the cycles of organic matter, nitrogen, sulfur, iron, manganese and phosphorus. The last chapter describes the role of microorganisms in sediments of calcium carbonate waters.

*The Microflora of Lakes and Its Geochemical Activity* provides a wealth of information on the microbial limnology of fresh-water lakes throughout the world, particularly in the Soviet Union. As a summary of the geochemical activities as related to the geographic, geological, and physical relationships of fresh-water lakes, it is a monumental study.

*The Microflora of Lakes* was translated for the National Science Foundation, Washington, D.C., by the Israel Program for Scientific Translations in Jerusalem.

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