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An Update on Magnetotactic Bacteria

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Message from the Guest Editor

Dear Colleagues,

Magnetotactic microorganisms produce magnetic nanoparticles controlling their size, shape, and composition. These structures are called magnetosomes, and their usual intracellular organization in chain(s) provides the cell with a magnetic moment. Traditional knowledge associates the orientation of cells along geomagnetic field lines and chemotaxis in stratified environments to explain the function of magnetosomes and the benefits of this organelle to the cell. However, detailed analysis has shown that magnetosomes have additional roles in cell homeostasis. Current studies have revealed the broad phylogenetic distribution of magnetotactic microorganisms in life domains, mainly bacteria. In this Special Issue, we aim to gather updates on magnetotactic bacteria. Original data on other magnetotactic organisms are welcome.

Dr. Fernanda Abreu
Guest Editor

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Message from the Editor-in-Chief

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