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Biological Effects of Electromagnetic Fields on Bacterial Properties[1] DEREK SMITH, BABAK KEYGHOBADI, BEHESHTE EFTEKHARI, SAMINA MASOOD, University of Houston Clear Lake — Previous experiments have shown a significant effect from electromagnetic fields (EMFs) upon bacteria, such as an altered growth rate. We review previous experiments and their results in order to summarize the effects of EMFs upon bacteria, with a special interest in gram-negative bacteria. Emphasis is also placed upon the experimental equipment used for testing, the shape-dependent effects upon bacteria, the effects of varying field strengths, and the effects of using a liquid growth medium. Our preliminary study shows the effect of magnetic field is non-ignorable on most of the bacterial species.

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