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Title: Light-Dependent Intracellular Positioning of Mitochondria in Arabidopsis thaliana Mesophyll Cells
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Mitochondria are one of the most dynamic cell organelles. There are so many reports on actin- or microtubule-dependent movement of mitochondria in plant cells. But light-dependent mitochondria intracellular positioning and redistribution have not been elucidated anywhere. Using Arabidopsis thaliana stably expressing green fluorescent protein fused with mitochondria-targeting signal, we aim to ask whether mitochondria in leaf mesophyll cells change their intracellular positions depending on different light conditions. To our knowledge, this report is the first one on light-induced mitochondria redistribution in plant cells.
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