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Title: The AtMC4 regulates the stem cell homeostasis in Arabidopsis by catalyzing the cleavage of AtLa1 protein in response to environmental hazards

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The AtMC4 regulates the stem cell homeostasis in Arabidopsis by catalyzing the cleavage of AtLa1 protein in response to environmental hazards

Running title: **The AtMC4 cleaves the AtLa1 protein**

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Highlights:

- The AtMC4 protein catalyzes the cleavage of AtLa1 protein.
- Environmental hazards trigger the cytoplasmic-to-nuclear translocation of AtMC4 protein which further mediates the cleavage of AtLa1 protein in nucleus, resulting the nuclear-to-cytoplasmic translocation of AtLa1 protein and the enhanced translation of *WUS* mRNA in cytoplasm.

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