

Students' Annual Webinar

Bendless is required for PINK1-PARK mediated degradation of mitochondrial fusion protein Marf

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Mitochondrial fission and fusion is required for the regulation of their size and quality control. We observed that increased mitochondrial size, e.g., in DRP1 mutants, results in degradation of mitochondrial fusion protein Marf/Mitofusin in a proteasomal dependent mechanism, possibly a feedback mechanism to avoid further mitochondrial fusion. In our attempt to identify players in this feedback mechanism, we found Marf degradation is mediated by PINK1 and PARK. Further, we identified K63 ubiquitin conjugating enzyme bendless/Ubc13 is required for PINK/PARK mediated Marf degradation.

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10:30 AM