

1 **Supplementary file 4.**

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3 **Multiple strategies for heat adaptation in rice endosperms**
4 **revealed by on-site cell-specific analysis**

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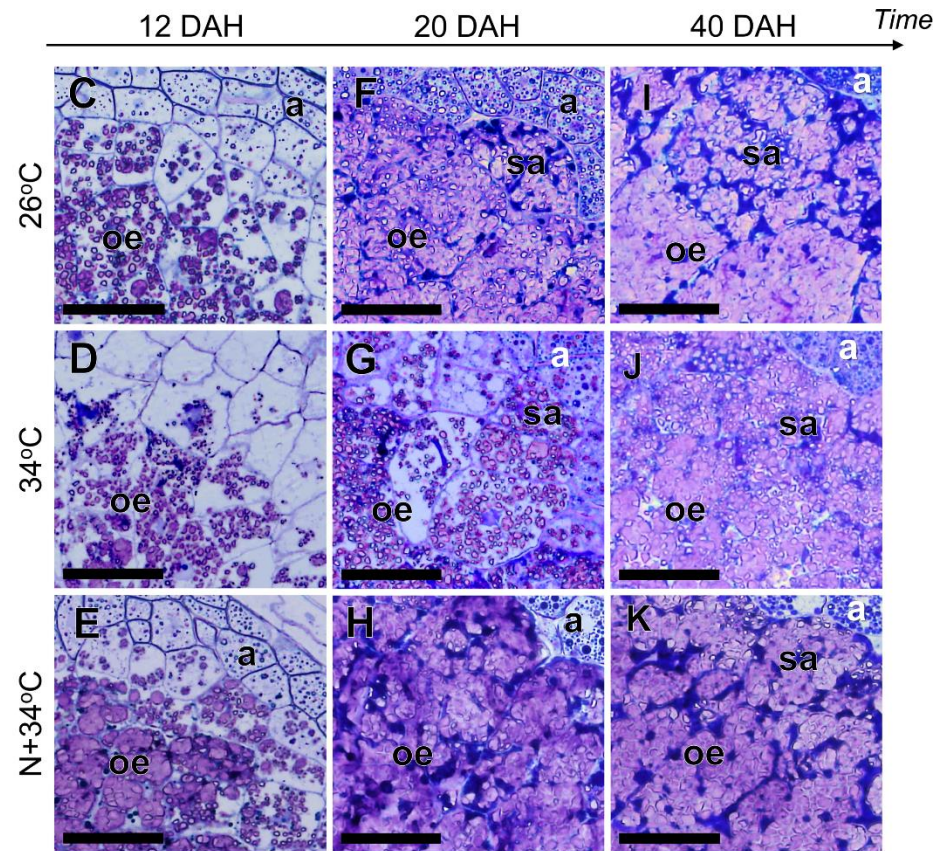
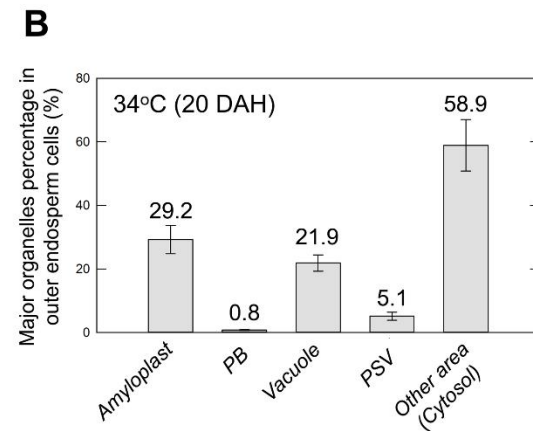
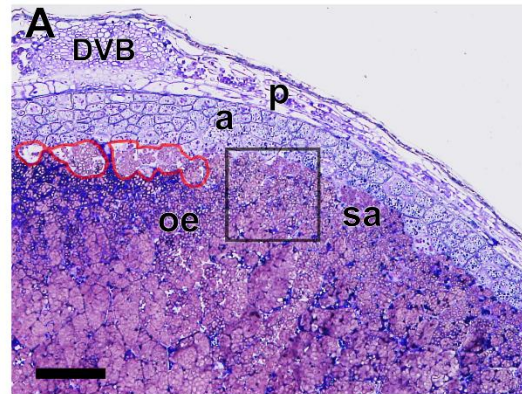
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21 Supplementary file 4.

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The transverse sections of 34°C-treated kernels collected at 20 DAH (A). Volumetric percentage of each organelle per cell in a part of putative chalky zone (traced in red in A) at 20 DAH was shown in B (see Discussion). The data in B indicate the means±SEs of 19 individual cells collected from 3 kernels from 3 individual plants. The black square in A corresponds to the area used for light microscopic observations shown in C-K. The transverse sections collected at 12 DAH (C-E), 20 DAH (F-H), and 40 DAH (I-K) in 26°C (C, F, I), 34°C (D, G, J), and N+34°C (E, H, K) treatments. DVB, dorsal vascular bundle; a, aleurone layer; oe, outer endosperm; sa, subaleurone cell layer; a, aleurone layer; oe, outer endosperm; p, pericarp; sa, subaleurone cell layer. Bars in A and B-G indicate 100 and 50 μm, respectively.