



**Cover:** Presence of hydrogen peroxide ( $H_2O_2$ ; orange) in the gut of *Drosophila melanogaster* following infection. Bandarra et al. identified a novel function of the mammalian hypoxia-inducible factor (HIF) and the *Drosophila* homologue (Sima) in restraining the major inflammation-responsive transcription factor, nuclear factor  $\kappa B$  (NF- $\kappa B$ ).  $H_2O_2$  levels were increased in *sima* loss-of-function transgenic flies following *Serratia marcescens* infection. HIF-1 $\alpha$  was identified as an inhibitor of NF- $\kappa B$  activity, and could therefore be important in preventing excessive and harmful pro-inflammatory responses. See article by Bandarra et al. on page 169.

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