



**Cover image:** Pictured is a 3-week-old tadpole of the African clawed frog (*Xenopus laevis*). The tadpoles primarily use innate-like (i) T cells to counteract pathogens. Eva-Stina Edholm et al. report an ancestral immune system based on MHC class I-like (MHC-like) interacting iT cells that forms a critical component in defense against mycobacteria in *X. laevis*. MHC-like iT cells have also been identified in mammals, and the findings suggest that mammals and amphibians might have independently developed a convergent immune surveillance system. See the article by Edholm et al. on pages E4023–E4031. Image courtesy of J. Adam Fenster (University of Rochester, Rochester, NY).

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