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On the cover: Malaria induces T cell infiltration of the brain. A 600- μ m-thick cleared brain section from a C57BL/B6 mouse infected with blood-stage *Plasmodium berghei* ANKA (PbA). Multiphoton imaging on day 6.5 postinfection shows RBCs (white; stained with anti-TER-119 Ab), PbA-specific CD8⁺ PbT-I cells (red; DsRed), and PbA-specific CD4⁺ PbT-II cells (green; uGFP). Ghazanfari, N., J. L. Gregory, S. Devi, D. Fernandez-Ruiz, L. Beattie, S. N. Mueller, and W. R. Heath. CD8⁺ and CD4⁺ T cells infiltrate into the brain during *Plasmodium berghei* ANKA infection and form long-term resident memory. *J. Immunol.* 207: 1578–1590.

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