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On the cover: CD4 T cells (red) targeting amyloid- β (A β) plaques (blue) in the brain of a mouse model of Alzheimer's disease. A β -reactive Th1 CD4 T cells were injected into the lateral ventricle of the brain and are shown within the brain parenchyma colocalized with MHCII-expressing cells (green) at sites of A β plaques. Fisher, Y., I. Strominger, S. Biton, A. Nemirovsky, R. Baron, and A. Monsonogo. 2014. Th1 polarization of T cells injected into the cerebrospinal fluid induces brain immunosurveillance. *J. Immunol.* 192: 92–102.

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