This information is current as of April 6, 2017.
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On the cover: Twenty-five TLR4 TIR dimer models in which the BB loop of one TIR domain interacts with the E helix of the other. Toshchakov et al. screened a library of TLR4 TIR-derived decoy peptides to demonstrate that peptides derived from these regions inhibit TLR4 signaling by binding to the TLR4 TIR. Toshchakov, V. Y., H. Szmacinski, L. A. Couture, J. R. Lakowicz, and S. N. Vogel. 2011. Targeting TLR4 signaling by TLR4 Toll/IL-1 receptor domain-derived decoy peptides: Identification of the TLR4 Toll/IL-1 receptor domain dimerization interface. *J. Immunol.* 186: 4819–4827.
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