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On The Cover: Peroxisomes are multifunctional and dynamic cellular organelles that play critical roles during the progression of a virus infection as discussed by Cook *et al*. on pages 906–914. These functions have a dual character, as the peroxisome can either protect the host by orchestrating antiviral signaling, or be hijacked by the virus to sabotage the host and support virus replication. By depicting the peroxisome as a sword held aloft across a divided field of viral pathogens and eukaryotic cells, we have captured this emerging perspective of peroxisome biology, painting the peroxisome as a double-edged sword that is actively engaged in the arms race between viruses and their hosts. Image courtesy Katelyn C. Cook.

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