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On the cover: Quantitative proteomics analyses revealed the specific autophagic degradation of mitochondria in TNF- α activated macrophages. TNF- α induced mitophagy enabled the processing and presentation of mitochondrial antigens at the cell surface by MHC-class-I molecules. These findings highlight an unsuspected role of TNF- α in macrophage activation and expanded our understanding of the mechanisms responsible for the modification of the MHC class I peptide repertoire. For details, see the article by Christina Bell *et al.*, pages 2564–2578.

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