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On the cover, lysosomes from human fibroblasts visualized by confocal-immunofluorescence microscopy showing Lysosomal-associated membrane protein 1 in lysosomal membranes (*green*), rhodamine-dextran in the lysosomal lumen (*red*), and the DAPI-stained nucleus (*blue*). Lysosomes are complex organelles that are critical for normal cell function, yet their protein composition is poorly understood. A proteomic survey of an integral-membrane protein fraction from rat liver lysosomes makes the picture clearer. For details, see the article by Bagshaw *et al.*, pages 133–143.

Online version of this article contains supplemental material.

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