



Autophagy: Chapter 14. Immunogenicity of Dying Cancer Cells-The Inflammasome Connection: Autophagic Death Arrives on the Scene

Gizem Ayna, Goran Petrovski, László Fésüs

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One of the natural functions of the immune system is to find and eradicate neoplastic and dysplastic cells in tissues. This immune surveillance can be impaired due to the unpredictable immune escape strategies of cancer cells. Induction of apoptotic cell death by chemotherapy is applied to kill malignant cells in patients with cancer even though it has many weak points, such as the fact that apoptotic cells are usually ignored by the immune system since they are immunologically silent and even suppress inflammation. Inducing immunogenic cell death can promote efficient clearance of cancerous cells before they become aggressive and lethal. Unlike the generally anti-inflammatory apoptotic cells, clearance of immunogenic apoptotic, necrotic, and autophagic dying cells often triggers an innate immune response through inflammasome activation with subsequent release of IL-1 β and IL-18 from immune-competent cells. These immunogenic dying cells can expose or release danger-associated molecular pattern molecules (DAMPs), which are the inducers of inflammasome components' expression and/or assembly of the inflammasome to activate caspase-1 for the formation of active cytokines. In this chapter, we discuss which inflammasome-stimulant DAMPs have been recognized so far, and how immunogenic apoptotic, necrotic, and particularly autophagic dying cells may provoke inflammasome induction and/or activation.

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