



Autophagy: Chapter 18. Autophagy, Stem Cells, and Tumor Dormancy

David A. Gewirtz

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There is currently a great deal of interest in autophagy, a process whereby a cell digests its constituents to generate energy and metabolic precursors under conditions of stress such as nutrient deprivation. Autophagy may serve as a mechanism for protection of the tumor cell from the effects of radiation and chemotherapy, but may also mediate tumor cell death in response to these challenges. Accumulating evidence indicates that autophagy is also a fundamental characteristic of stem cells, including tumor stem cells. As tumor stem cells are likely to play a central role in tumor dormancy, it appears that autophagy could contribute to the capacity of tumor stem cells to survive for extended periods of time in a dormant state and eventually give rise to recurrent tumors that are primary determinants of morbidity and mortality in cancer patients.

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