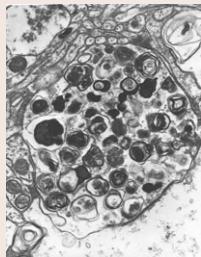


Journal of Cell Science

Volume 120 (23) 2007



Cover: This ultrastructural image shows 'dystrophic neurites', a characteristic feature of the pathology in the Alzheimer disease (AD) brain. These structures, which are grossly swollen portions of an axon or sometimes a dendrite, are filled predominantly with autophagic vacuoles such as autophagosomes and autophagolysosomes, reflecting a pathological impairment in the crucial process of autophagy in AD. Disruption of autophagy has important implications for amyloid accumulation and neuron survival in this disease. See Commentary by Nixon (p. 4081-4091).

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- 4209 **The processing of double-strand breaks and binding of single-strand-binding proteins RPA and Rad51 modulate the formation of ATR-kinase foci in yeast.** Dubrana, K., van Attikum, H., Hediger, F. and Gasser, S. M.
- 4221 **NBS1 mediates ATR-dependent RPA hyperphosphorylation following replication-fork stall and collapse.** Manthey, K. C., Opiyo, S., Glanzer, J. G., Dimitrova, D., Elliott, J. and Oakley, G. G.
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- 4081 **Autophagy, amyloidogenesis and Alzheimer disease.**
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