

6. Irodalomjegyzék

1. Klionsky, D.J., *Autophagy: from phenomenology to molecular understanding in less than a decade*. Nat Rev Mol Cell Biol, 2007. **8**(11): p. 931-7.
2. Feng, Y., et al., *The machinery of macroautophagy*. Cell Res, 2014. **24**(1): p. 24-41.
3. Sanchez-Wandelmer, J. and F. Reggiori, *Amphisomes: out of the autophagosome shadow?* EMBO J, 2013. **32**(24): p. 3116-8.
4. Kiel, J.A., *Autophagy in unicellular eukaryotes*. Philos Trans R Soc Lond B Biol Sci, 2010. **365**(1541): p. 819-30.
5. Tsukada, M. and Y. Ohsumi, *Isolation and characterization of autophagy-defective mutants of Saccharomyces cerevisiae*. FEBS Lett, 1993. **333**(1-2): p. 169-74.
6. Xie, Z. and D.J. Klionsky, *Autophagosome formation: core machinery and adaptations*. Nat Cell Biol, 2007. **9**(10): p. 1102-9.
7. McPhee, C.K. and E.H. Baehrecke, *Autophagy shows its animal side*. Cell, 2010. **141**(6): p. 922-4.
8. Takats, S., et al., *Autophagosomal Syntaxin17-dependent lysosomal degradation maintains neuronal function in Drosophila*. J Cell Biol, 2013. **201**(4): p. 531-9.
9. Itakura, E., C. Kishi-Itakura, and N. Mizushima, *The hairpin-type tail-anchored SNARE syntaxin 17 targets to autophagosomes for fusion with endosomes/lysosomes*. Cell, 2012. **151**(6): p. 1256-69.
10. Scott, R.C., O. Schuldiner, and T.P. Neufeld, *Role and regulation of starvation-induced autophagy in the Drosophila fat body*. Dev Cell, 2004. **7**(2): p. 167-78.
11. Moreau, K., S. Luo, and D.C. Rubinsztein, *Cytoprotective roles for autophagy*. Curr Opin Cell Biol, 2010. **22**(2): p. 206-11.
12. Rusten, T.E., et al., *Programmed autophagy in the Drosophila fat body is induced by ecdysone through regulation of the PI3K pathway*. Dev Cell, 2004. **7**(2): p. 179-92.
13. Hutagalung, A.H. and P.J. Novick, *Role of Rab GTPases in membrane traffic and cell physiology*. Physiol Rev, 2011. **91**(1): p. 119-49.
14. Solinger, J.A. and A. Spang, *Tethering complexes in the endocytic pathway: CORVET and HOPS*. FEBS J, 2013. **280**(12): p. 2743-57.
15. Bucci, C., et al., *Rab7: a key to lysosome biogenesis*. Mol Biol Cell, 2000. **11**(2): p. 467-80.
16. Gutierrez, M.G., et al., *Rab7 is required for the normal progression of the autophagic pathway in mammalian cells*. J Cell Sci, 2004. **117**(Pt 13): p. 2687-97.
17. Takats, S., et al., *Interaction of the HOPS complex with Syntaxin 17 mediates autophagosome clearance in Drosophila*. Mol Biol Cell, 2014. **25**(8): p. 1338-54.
18. Chen, Y., et al., *A Vps21 endocytic module regulates autophagy*. Mol Biol Cell, 2014.
19. Zeigerer, A., et al., *Rab5 is necessary for the biogenesis of the endolysosomal system in vivo*. Nature, 2012. **485**(7399): p. 465-70.
20. Nordmann, M., et al., *The Mon1-Ccz1 complex is the GEF of the late endosomal Rab7 homolog Ypt7*. Curr Biol, 2010. **20**(18): p. 1654-9.
21. Poteryaev, D., et al., *Identification of the switch in early-to-late endosome transition*. Cell, 2010. **141**(3): p. 497-508.
22. Cabrera, M., et al., *The Mon1-Ccz1 GEF activates the Rab7 GTPase Ypt7 via a longin-fold-Rab interface and association with PI3P-positive membranes*. J Cell Sci, 2014. **127**(Pt 5): p. 1043-51.
23. Wang, C.W., et al., *The Ccz1-Mon1 protein complex is required for the late step of multiple vacuole delivery pathways*. J Biol Chem, 2002. **277**(49): p. 47917-27.
24. Yousefian, J., et al., *Dmon1 controls recruitment of Rab7 to maturing endosomes in Drosophila*. J Cell Sci, 2013. **126**(Pt 7): p. 1583-94.

25. Beckingham, K.M., et al., *Drosophila melanogaster--the model organism of choice for the complex biology of multi-cellular organisms*. Gravit Space Biol Bull, 2005. **18**(2): p. 17-29.
26. O'Hare, K. and G.M. Rubin, *Structures of P transposable elements and their sites of insertion and excision in the Drosophila melanogaster genome*. Cell, 1983. **34**(1): p. 25-35.
27. Phelps, C.B. and A.H. Brand, *Ectopic gene expression in Drosophila using GAL4 system*. Methods, 1998. **14**(4): p. 367-79.
28. Potter, C.J., et al., *The Q system: a repressible binary system for transgene expression, lineage tracing, and mosaic analysis*. Cell, 2010. **141**(3): p. 536-48.
29. Le Borgne, R., *Regulation of Notch signalling by endocytosis and endosomal sorting*. Curr Opin Cell Biol, 2006. **18**(2): p. 213-22.
30. Reinke, R. and S.L. Zipursky, *Cell-cell interaction in the Drosophila retina: the bride of sevenless gene is required in photoreceptor cell R8 for R7 cell development*. Cell, 1988. **55**(2): p. 321-30.
31. Ichimura, Y. and M. Komatsu, *Selective degradation of p62 by autophagy*. Semin Immunopathol, 2010. **32**(4): p. 431-6.
32. Shpilka, T., et al., *Atg8: an autophagy-related ubiquitin-like protein family*. Genome Biol, 2011. **12**(7): p. 226.
33. Juhasz, G., et al., *The class III PI(3)K Vps34 promotes autophagy and endocytosis but not TOR signaling in Drosophila*. J Cell Biol, 2008. **181**(4): p. 655-66.
34. Jaber, N., et al., *Class III PI3K Vps34 plays an essential role in autophagy and in heart and liver function*. Proc Natl Acad Sci U S A, 2012. **109**(6): p. 2003-8.
35. Ravikumar, B., et al., *Rab5 modulates aggregation and toxicity of mutant huntingtin through macroautophagy in cell and fly models of Huntington disease*. J Cell Sci, 2008. **121**(Pt 10): p. 1649-60.
36. Pankiv, S., et al., *p62/SQSTM1 binds directly to Atg8/LC3 to facilitate degradation of ubiquitinated protein aggregates by autophagy*. J Biol Chem, 2007. **282**(33): p. 24131-45.

7. Köszönetnyilvánítás

A munkámhoz nyújtott fáradhatatlan segítségükért köszönettel tartozom dr. Juhász Gábornak, dr. Hegedűs Krisztinának, Takáts Szabolcsnak, Nagy Péternek, Pálfia Zsoltnénak és dr. Kovács Attilának.

Lezárás dátuma: 2014. december 29.

Tételes szerzői hozzájárulás

Alulírott Boda Attila, a dolgozatban leírt munkafolyamatok közül a:

- a transzpozon-ugratást a *Ccz1* génre (a szükséges keresztezések összerakását, a PCR-reakciót és a fragmentizolálást),
- a fehérjeminták készítését és a Western Blot-analízist,
- a zsírtestekről készült valamennyi fluoreszcens mikroszkópos kép készítését, ehhez a keresztezések összerakását, a boncolást és ahol szükséges volt, a festést végeztem el.

Budapest, 2014. december 29.


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aláírás