



HOW LYSOSOMAL ACID LIPASE AFFECT CHRONIC INFLAMMATION AND TUMORIGENESIS?

GUEST LECTURE by



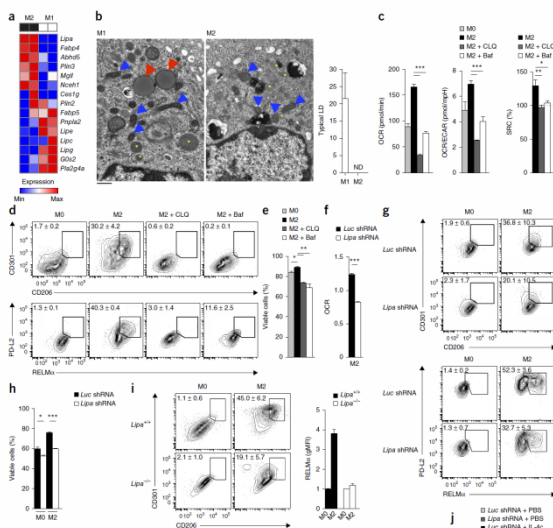
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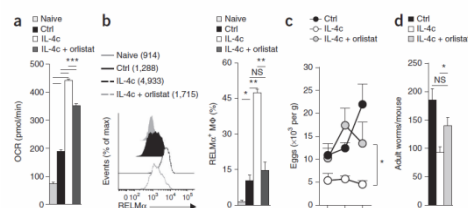
Friday, 11.09.2015

13:15

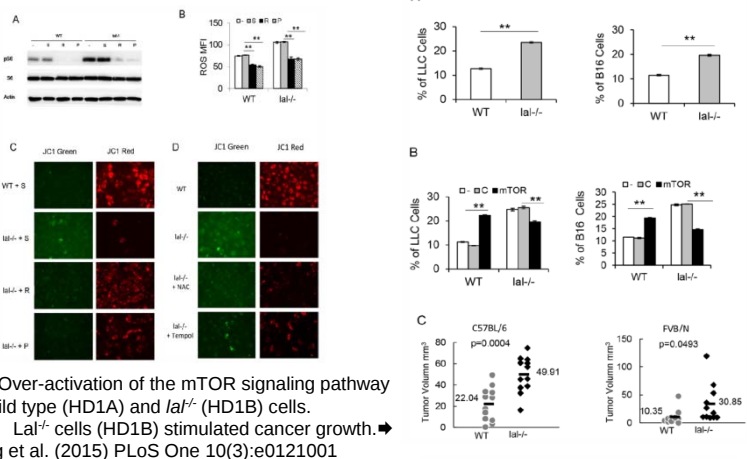
**SR 07.11, Preclinics, MUG
(Harrachgasse 21, 1st floor)**



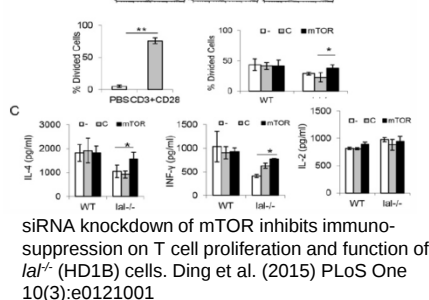
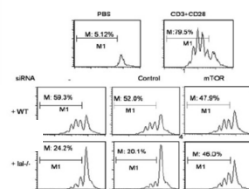
Lipolysis for M2 activation is mediated by LAL.
Huang et al. (2014) Nature Immunol 15(9):846-55



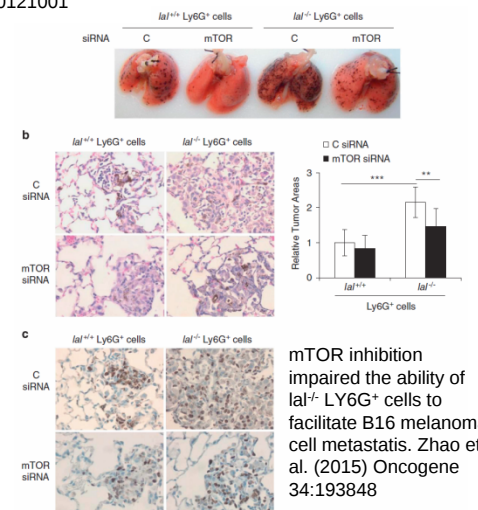
Inhibition of lipolysis suppresses IL-4-driven M2 activation of macrophages *in vivo* and the elimination of primary *H. polygyrus* infection. Huang et al. (2014) Nature Immunol 15(9):846-55



↑ Over-activation of the mTOR signaling pathway in wild type (HD1A) and *lal*^{-/-} (HD1B) cells. *lal*^{-/-} cells (HD1B) stimulated cancer growth. Ding et al. (2015) PLoS One 10(3):e0121001



siRNA knockdown of mTOR inhibits immuno-suppression on T cell proliferation and function of *lal*^{-/-} (HD1B) cells. Ding et al. (2015) PLoS One 10(3):e0121001



mTOR inhibition impaired the ability of *lal*^{-/-} LY6G⁺ cells to facilitate B16 melanoma cell metastasis. Zhao et al. (2015) Oncogene 34:193848