

- Cheng T, Sudderth J, Yang C, Mullen AR, Jin ES, Matés JM, et al. Pyruvate carboxylase is required for glutamine-independent growth of tumor cells. *Proc Natl Acad Sci U S A* 2011; 108(21): 8674–9.
- Fan TW, Lane AN, Higashi RM, Farag MA, Gao H, Bousamra M, et al. Altered regulation of metabolic pathways in human lung cancer discerned by (13)C stable isotope-resolved metabolomics (SIRM). *Mol Cancer* 2009; 8: 41.
- Laemmli UK. Cleavage of structural proteins during the assembly of the head of bacteriophage T4. *Nature* 1970, 227(5259): 580-5.
- Phannasil P, Ansarib IH, Azzouny ME, Longacreb MJ, Rattanapornsompong K, Burant CF, et al. Mass spectrometry analysis shows the biosynthetic pathways supported by pyruvate carboxylase in highly invasive breast cancer cells. *Biochim Biophys Acta Mol Basis Dis* 2017; 1863(2): 537–51.
- Phannasil P, Thuwajit C, Warnnissorn M, Wallace JC, MacDonald MJ, Jitrapakdee S. Pyruvate carboxylase is up-regulated in breast cancer and essential to support growth and invasion of MDA-MB-231 cells. *PLoS One* 2015; 10(6): e0129848.
- Polyak SW, Chapman-Smith A. Biotin. In: Lennarz WJ, Lane MD, editors. *Encyclopaedia of Biological Chemistry*. 2nd ed. New York: Academic Press; 2013. p. 221-5.
- Schulze A, Harris AL. How cancer metabolism is tuned for proliferation and vulnerable to disruption. *Nature* 2012; 491(7424): 364-73.
- Sternicki LM, Wegener KL, Bruning JB, Booker GW, Polyak SW. Mechanisms governing precise protein biotinylation. *Trends Biochem Sci* 2017; 42(5): 383-94.
- Suzuki Y, Yang X, Aoki Y, Kure S, Matsubara Y. Mutations in the holocarboxylase synthetase gene hlcs, *Hum Mutat* 2005; 26(4): 285-90.
- Svensson RU, Parker SJ, Eichner LJ, Kolar MJ, Wallace M, Brun SN, et al. Inhibition of acetyl-CoA carboxylase suppresses fatty acid synthesis and tumor growth of non-small-cell lung cancer in preclinical models. *Nat Med* 2016; 22(10): 1108-19.
- Tong L. Structure and function of biotin-dependent carboxylases. *Cell Mol Life Sci* 2013; 70(5): 863–91.
- Welch HG, Gorski DH, Albertsen PC. Trends in metastatic breast and prostate cancer - lessons in cancer dynamics. *N Engl J Med* 2015; 373(18): 1685–7.