Docket #: S06-394B

R-spondin1-producing cell line

Stanford researchers have developed an R-spondin1-producing cell line. The cell line is a transfectant of 293T cells expressing mouse R-spondin1 protein tagged with N-terminus HA and C-terminus Fc.

The following related technology from Professor Calvin Kuo's lab may also be of interest: Ex vivo expansion and culture of intestinal epithelium (Stanford Docket No. S06-394)

Publications

- X Li, L Nadauld, A Ootani, DC Corney, RK Pai, O Gevaert, MA Cantrell, PG Rack, JT Neal, CW-M Chan, T Yeung, X Gong, J Yuan, J Whilhelmy, S Robine, LD Attardi, AK Plevritis, KE Hung, C-Z Chen, HP Ji & CJ Kuo, Oncogenic transformation of diverse gastrointestinal tissues in primary organoid culture, Nature Medicine, 20, 769-777 (2014). doi:10.1038/nm.3585. Epub 2014 May 25.
- Yan KS, Chia LA, Li X, Ootani A, Su J, Lee JY, Su N, Luo Y, Heilshorn SC, Amieva MR, Sangiorgi E, Capecchi MR, Kuo CJ, The intestinal stem cell markers Bmi1 and Lgr5 identify two functionally distinct populations, Proc Natl Acad Sci USA. 2012 Jan 10;109(2):466-71. doi: 10.1073/pnas.1118857109. Epub 2011 Dec 21.
- Ootani A, Li X, Sangiorgi E, Ho QT, Ueno H, Toda S, Sugihara H, Fujimoto K, Weissman IL, Capecchi MR, Kuo CJ, Sustained in vitro intestinal epithelial culture within a Wnt-dependent stem cell niche, Nature Medicine, 15, 701-706 (2009). doi:10.1038/nm.1951. Epub 2009 April 27.

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