

Researcher Information Form

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Research Interest (1-2 Sentences):

The roles of autophagy and TFEB in tumor angiogenesis and vascular biology

Unique Resources/Techniques: Genetically engineered transgenic mouse models, angiogenesis models.

Representative Publications (5 Maximum, May use Hyperlink):

Lu H, Sun J, Liang W, Chang Z, Rom O, Zhao Y, Zhao G, Xiong W, Wang H, Zhu T, Guo Y, Chang L, Garcia-Barrio MT, Zhang J, Chen YE, **Fan, Y.** Cyclodextrin Prevents Abdominal Aortic Aneurysm via Activation of Vascular Smooth Muscle Cell TFEB. *Circulation*. 2020 May 1. doi: 10.1161/CIRCULATIONAHA.119.044803. Online ahead of print. PMID: 32354235

Fan Y[#], Lu H, Liang W, Garcia-Barrio MT, Guo Y, Zhang J, Zhu T, Hao Y, Zhang J, Chen YE. Endothelial TFEB (Transcription Factor EB) Positively Regulates Postischemic Angiogenesis. *Circ Res*. 2018 Mar 30;122(7):945-957. **# Corresponding author**. PMID: PMC5918429

Lu H, **Fan Y**^{*,#}, Qiao C, Liang W, Hu W, Zhu T, Zhang J, Y Eugene Chen. TFEB inhibits inflammation and reduces atherosclerosis. *Science Signaling*. 2017, 10: eaah4214. *** Contributed equally to the work, # Corresponding author**. PMID: 28143903

Holmen OL^{*}, Zhang H^{*}, **Fan Y**^{*}, Hovelson DH, Schmidt EM, Zhou W, Guo Y, Zhang J, Langhammer A, Løchen ML, Ganesh SK, Vatten L, Skorpen F, Dalen H, Zhang J, Pennathur S, Chen J, Platou C, Mathiesen EB, Wilsgaard T, Njølstad I, Boehnke M, Chen YE, Abecasis GR, Hveem K, Willer CJ. Systematic evaluation of coding variation identifies a candidate causal variant in TM6SF2 influencing total cholesterol and

myocardial infarction risk. *Nat Genet.* 2014; 46(4): 345-51. * **Contributed equally to the work.** PMID: PMC4169222

Fan Y, Lu H, Guo Y, Zhu T, Garcia-Barrio MT, Jiang Z, Willer CJ, Zhang J, Chen YE. Hepatic transmembrane 6 superfamily member 2 regulates cholesterol metabolism in mice. *Gastroenterology.* 2016 May; 150(5):1208-18. PMID: PMC4842105