

Publications:

1. A 12-week aerobic exercise intervention results in improved metabolic function and lower adipose tissue and ectopic fat in high-fat diet fed rats. Gopalan V, Yaligar J, Michael N, Kaur K, Anantharaj R, Verma SK, Sadananthan SA, Le GTT, Goh J, Velan SS. *Biosci Rep.* 2021 Jan 29;41(1):BSR20201707.
2. Dynamic contrast-enhanced MRI of brown and beige adipose tissues. Yaligar J, Verma S.K, Gopalan V, Anantharaj R, Thu Le G.T, Kaur K, Mallilankaraman K, Shing Leow M.K, Velan S.S. *Magn Reson Med*, 2020 Jul;84(1):384-395.
3. Narciclasine Attenuates Diet-Induced Obesity by Promoting Oxidative Metabolism in Skeletal Muscle, Julien S.G, Kim S.Y, Brunmeir R, Sinnakannu J.R, Ge X, Li H, Ma W, Yaligar J, Kn B.P, Velan S.S, Röder P.V, Zhang Q, Sim C.K, Wu J, Garcia-Miralles M, Pouladi M.A, Xie W, McFarlane C, Han W, Xu F. *PLoS Biol.* 2017 Feb 16;15(2).
4. Differentiating brown and white adipose tissues by high-resolution diffusion NMR spectroscopy, Verma SK, Nagashima K, Yaligar J, Michael N, Lee SS, Xianfeng T, Gopalan V, Sadananthan SA, Anantharaj R, Velan SS., 2017, *J Lipid Res.*, 58, 1, 289-298.
5. Longitudinal metabolic imaging of hepatocellular carcinoma in transgenic mouse models identifies acylcarnitine as a potential biomarker for early detection , Yaligar J, Teoh WW, Othman R, Verma SK, Phang BH, Lee SS, Wang WW, Toh HC, Gopalan V, Sabapathy K, Velan SS., 2016, *Sci Rep.* 2, 6, 20299.
6. Effect of Exercise and Calorie Restriction on Tissue Acylcarnitines, Tissue Desaturase Indices, and Fat Accumulation in Diet-Induced Obese Rats, Gopalan V, Michael N, Ishino S, Lee SS, Yang AY, Bhanu Prakash KN, Yaligar J, Sadananthan SA, Kaneko M, Zhou Z, Satomi Y, Hirayama M, Kamiguchi H, Zhu B, Horiguchi T, Nishimoto T, Velan SS., 2016, *Sci Rep.* 20, 6, 26445.
7. Segmentation and characterization of interscapular brown adipose tissue in rats by multi-parametric magnetic resonance imaging, Bhanu Prakash KN, Verma SK, Yaligar J, Goggi J, Gopalan V, Lee SS, Tian X, Sugii S, Leow MK, Bhakoo K, Velan SS., 2016, *MAGMA*, 29, 2, 277-286.
8. TLR3 agonist and Sorafenib combinatorial therapy promotes immune activation and controls hepatocellular carcinoma progression. Ho V, Lim TS, Lee J, Steinberg J, Szmyd R, Tham M, Yaligar J, Kaldis P, Abastado JP, Chew V., 2015, *Oncotarget*, 29, 6, 27252-27266.
9. Molecular characterization of hepatocarcinogenesis using mouse models. Teoh WW, Xie M, Vijayaraghavan A, Yaligar J, Tong WM, Goh LK, Sabapathy K., 2015, *Dis Model Mech.*, 8, 7, 743-753.
10. Evaluation of Dietary Effects on Hepatic Lipids in High Fat and Placebo Diet Fed Rats by In Vivo MRS and LC-MS Techniques, Jadegoud Yaligar, Venkatesh Gopalan, Ong Wee Kiat, Shigeki Sugii, Guanghou Shui, Buu Duyen Lam, Christiani Jeyakumar Henry, Markus R. Wenk, E. Shyong Tai, S. Sendhil Velan, 2014, *PLoS One.*, 9, 3, e91436.

11. Fat Storage-inducing Transmembrane Protein 2 Is Required for Normal Fat Storage in Adipose Tissue, Miranda D.A, Kim J.H, Nguyen L.N, Cheng W, Tan B.C, Goh V.J, Tan J.S, Yaligar J, Kn B.P, Velan S.S, Wang H, Silver D.L. J Biol Chem. 2014;289(14):9560-72., 2014.
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13. Lactate MRSI and DCE MRI as surrogate markers of prostate tumor aggressiveness, Yaligar J, Thakur SB, Bokacheva L, Carlin S, Thaler HT, Rizwan A, Lupu ME, Wang Y, Matei CC, Zakian KL, Koutcher JA., 2012, NMR Biomed, 25, 1, 113-122.
14. Bioactive compounds from sour orange inhibit colon cancer cell proliferation and induce cell cycle arrest. Jayaprakasha GK, Jadegoud Y, Nagana Gowda GA, Patil BS. 2010, J Agric Food Chem, 58, 1, 180-186.