







- [14] Ahmadian M, Roshan VD, Leicht AS(2018). Age-related effect of aerobic exercise training on antioxidants and oxidative markers in the liver challenged by doxorubicin in rats. *Free Radic Res.* 52:775–82.
- [15] Sloan Richard P., Shapiro Peter A., McKinley Paula S., Bartels Matthew, Shimbo Daichi, Lauriola Vincenzo(2018). Aerobic exercise training and inducible inflammation: results of a randomized controlled trial in healthy, young adults. *J Am Heart Association.* 7:e010201.
- [16] SHI M, Wang X, Yamanaka T, Ogita F, Nakatani K, Takeuchi T.(2007).Effects of anaerobic exercise and aerobic exercise on biomarkers of oxidative stress. *Environ Health Prev Med.* 12:202–8.
- [17] Hall C, Sato K, Wu N, Zhou T, Kyritsi K, Meng F.(2017).Regulators of cholangiocyte proliferation. *Gene Expr.* 17:155–71.
- [18] Pinzani M, Luong TV.(2018).Pathogenesis of biliary fibrosis. *Biochim Biophys Acta Mol Basis Dis.*1864:1279–83.
- [19] Glaser SS, Gaudio E, Miller T, Alvaro D, Alpini G.(2009).Cholangiocyte proliferation and liver fibrosis. *Expert Rev Mol Med.*11:e7.
- [20] Yu K, Li Q, Shi G, Li N.(2018).Involvement of epithelial-mesenchymal transition in liver fibrosis. *Saudi J Gastroenterol.*24:5–11.
- [21] Gonçalves IO, Martins MJ, Beleza J, Ascensão A, Magalhães J.(2017).Chapter 24 -exercise, liver steatosis, and free radicals. In: Muriel P, editor. *Liver pathophysiology.* Boston: Academic Press. 309–22.
- [22] Hashida R, Kawaguchi T, Bekki M, Omoto M, Matsuse H, Nago T.(2017).Aerobicvs. resistance exercise in non-alcoholic fatty liver disease: A systematic review. *J Hepatol.* 66:142–52.
- [23] Kohli R, Pan X, Malladi P, Wainwright MS, Whittington PF. (2007). Mitochondrial reactive oxygen species signal hepatocyte steatosis by regulatingthe phosphatidylinositol 3-kinase cell survival pathway. *J Biol Chem.* 282:21327–36