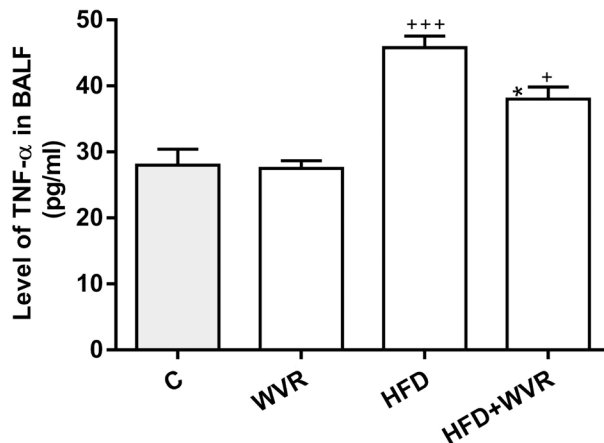
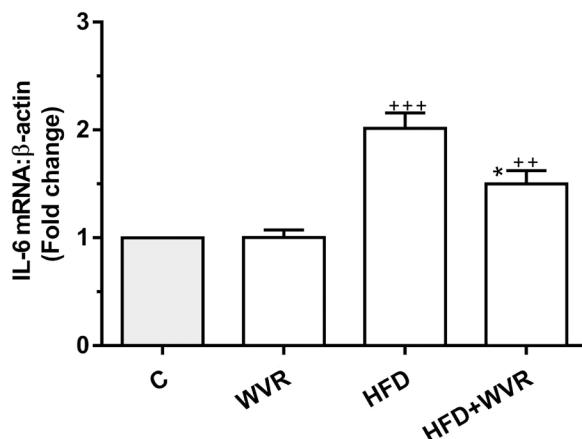


## Effect of voluntary wheel running on autophagy status in lung tissue of high-fat diet-fed rats

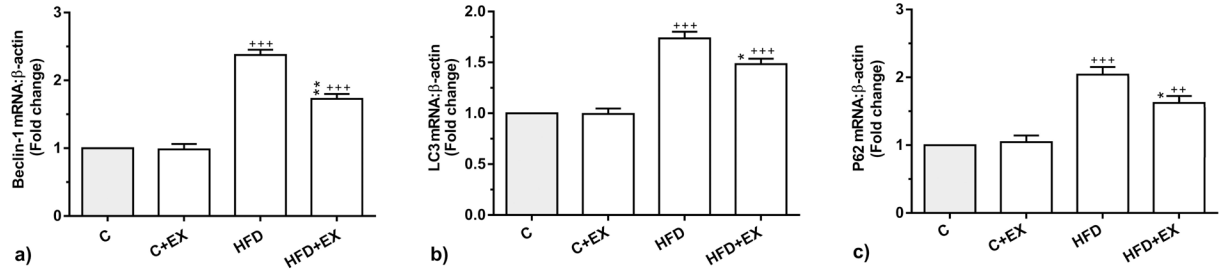
*J. Rezaie, A. Aboulhassani, R. Keyhanmanesh, R. Rahbarghazi, A. Delkhosh, L. Salimi, A.R. Nezhad Zamani, A. Rahbarghazi, M. Ahmadi and R. Ghiasi*



**Figure S1.** Tumour necrosis factor (TNF)- $\alpha$  levels in BALF of rats receiving a normal diet (Control); rats receiving a normal diet + voluntary wheel running (VWR); rats receiving high-fat-diet (HFD) and rats receiving HFD + VWR (n=8). Statistical difference between Control and different groups: +  $P<0.05$  and +++  $P<0.001$ . Statistical difference between HFD and HFD + VWR group: \*  $P<0.05$ .



**Figure S2.** Measuring the transcription of interleukin (IL)-6 mRNA in the lung tissues of rats receiving a normal diet (Control); rats receiving a normal diet + voluntary wheel running (VWR); rats receiving high-fat-diet (HFD) and rats receiving HFD + VWR (n=8). Statistical difference between Control and different groups: ++  $P<0.01$  and +++  $P<0.001$ . Statistical difference between HFD and HFD + VWR group: \*  $P<0.05$ .



**Figure S3. Transcription of (A) Beclin-1, (B) LC3 and (C) p62 mRNA in the lung tissues of rats receiving a normal diet (Control); rats receiving a normal diet + voluntary wheel running (VWR); rats receiving high-fat-diet (HFD) and rats receiving HFD + VWR (n=8). Statistical difference between Control and different groups: ++  $P<0.01$  and +++  $P<0.001$ . Statistical difference between HFD and HFD + VWR group: \*  $P<0.05$  and \*\*  $P<0.01$ .**