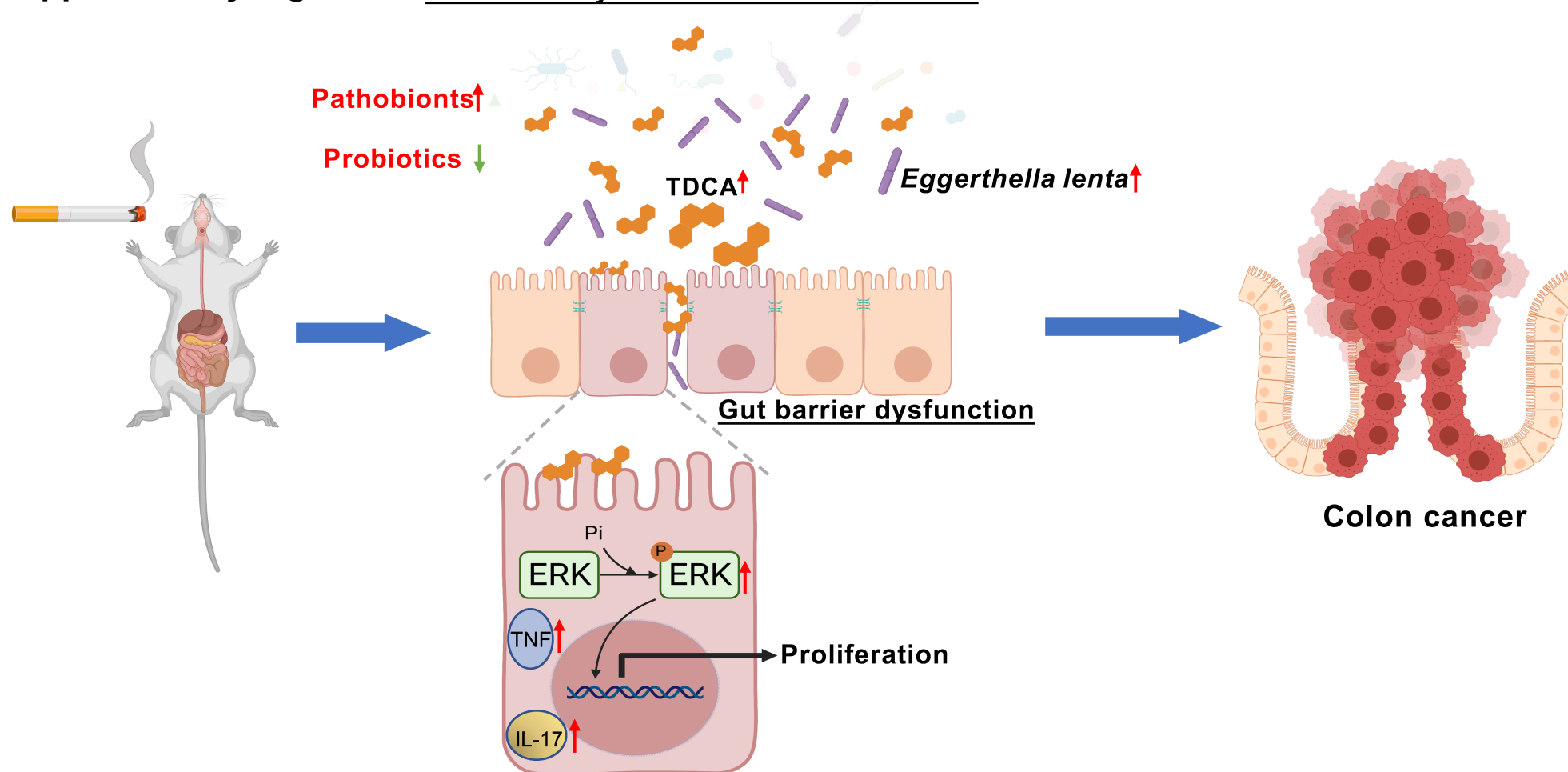


Supplementary Figure 7 Microbiota dysbiosis/altered metabolites



Supplementary figure 7. Cigarette smoke promotes colon tumorigenesis by inducing gut microbiota dysbiosis and changed metabolites. Cigarette smoke induced gut microbiota dysbiosis and altered metabolites (eg. induced taurodeoxycholic acid (TDCA)), which activated oncogenic MAPK/ERK signaling and pro-inflammatory (IL-17 and TNF) signalling pathways in colonic epithelium. Moreover, gut barrier dysfunction caused by gut microbiota dysbiosis might facilitate the TDCA to activate the MAPK/ERK signaling pathway. (Created with BioRender.com.)