

### *Search strategy and selection criteria*

We searched for manuscripts in PubMed and Scopus databases using the search terms “portal hypertension”, “cirrhosis”, “bacterial translocation”, “PAMP(s)” or “DAMP(s)”, “intestinal barrier”, “vascular barrier”, “inflammation”, and “FXR” alone or in combination to identify relevant manuscripts. All article types available in English language were considered and assessed for thematic relevance and quality, while priority was given to publications from the past 5 years. Furthermore, we searched for randomized trials on clinicaltrials.gov that were either ongoing or recently completed as well as recent abstracts from major international conferences. The references that were finally included were selected in consideration of their novelty and relevance to pathophysiological concepts.