

Responses to reviewer:

Reviewer #1: In this paper, the authors performed a single-cell RNA-seq combined with bulk RNA-seq analysis of peripheral blood to better understand ulcerative colitis - pathophysiology, therapy, prognostic and predictive factors. The paper is very well written and organised. It is concise and provides us with a lot of data, clinically very interesting. Results are clear and the Discussion is precise. These results could pave the way for personalized treatment of ulcerative colitis.

Response: Thanks for your comments.

Reviewer #2: This is a very good study, which resulted in the identification (through single cell RNA seq combined with bulk RNA seq analysis of peripheral blood) of three core immune cell genes (RhoB, CTSD and ZYX) of ulcerative colitis that are closely associated with monocyte infiltration. The clinical significance of the study is the potential use of these genes as potential diagnostic markers and molecular targets for the treatment of inflammatory bowel disease. The study is well illustrated. Literature sources are up-to-date and without self-citation. The manuscript is undoubtedly recommended for publication.

Response: Thanks for your comments.