

## Th17 plasticity and its relevance to inflammatory bowel disease

(Manuscript number: 20815)

Reviewer: 02519674

Comment: This is a good and well-written paper. I only recommend to include a figure or scheme showing the relationship between the key components of Th17 plasticity. This would enhance the value of the paper.

Response: We highly appreciate the reviewer's evaluation on this manuscript. As per suggestion, we included the scheme to enhance comprehensibility of this manuscript (please see the "Figure").

Reviewer: 00227449

Comment: (1) I suggest a slight modification of the title to be more specific: Th17 plasticity and its changes associated with inflammatory bowel disease Overall, this is a thorough review with clinical relevance.

(2) There is a new publication that should be included: TH17 cells transdifferentiate into regulatory T cells during resolution of inflammation Nature 523, 221–225 (09 July 2015) doi:10.1038/nature14452

(3) The third paragraph writing under 2. Characterization of Th17 and Treg sbsets, should be moved to after 4. Th17 plasticity.....

(4) The second paragraph under 2.a. has a typo. ....retinoic acid receptor-related orphan receptor.....

(5) The sentence immediately before 2.b. should be rephrased to ....secukinumab, a human anti IL-17 monoclonal antibody, in the treatment of Crohn's disease reflects the complex role of IL-17 and the heterogeneous causes of the disease.

Response: (1) We gladly accept the change of title – Th17 plasticity and its changes associated with inflammatory bowel disease.

(2) The reference which the reviewer recommended to include has already been cited in the manuscript (ref#: 108 in the article).

(3) Section 2 focuses on characterisation of Th17 and Treg subsets and contextualising it within IBD. We believe this characterization should include comparing and contrasting the individual development of these two subsets without necessarily reflecting upon the the capacity or mechanisms of plasticity between the subsets. We have clarified the title of 2c as such, changing it from "Developmental relationship between Th17 and Treg subsets" to "Similarities and differences between Th17 and Treg development" (Please see the revised).

(4) We sincerely apologize for the typo mistake suggested in the comment. We have proofread the manuscript once again to make sure there remain no such errors.

(5) We gladly accept to rephrase the sentence as indicated.