Reviewer's report

Title: What makes gouty inflammation so variable?

Version: 0 Date: 28 Jun 2017

Reviewer: Martin Herrmann

Reviewer's report:

In his manuscript „What makes gouty inflammation so variable?„, Robert Terkeltaub reviewed the etiopathogenesis of gout. The author describes gout as an pleomorphic clinical condition. As a known expert the review is unbiased and includes most of the features from clinical and basic science. There is only minor criticism

1. page 3/60 empty brackets.

2. page 6/45 since gout is reportedly associated with beer with and without alcohol, the role of alcohol has to be discussed a little bit more in detail.

3. page 13/44 "Conversely, failure of clearance of circulating urate microaggregates in phagocytes was suggested to promote NETosis to toxic to the vasculature" this sentence is not clear.

4. Figure 1 NETosis should be changed into formation of aggregated NETs.

1. The role of acetate is pro (page 6/40) and anti-inflammatory (page 11/50). What are the mechanisms? What do you think is more relevant?

2. The role of monocyte/macrophage sodium overload after uptake of MSU crystals should be discussed.

3. The role of the urate receptor Clec12a should be discussed.

4. The word "NETosis" should be substituted by "NET formation" (to avoid the isophony and similarity to cell death pathways).
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