

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Differential expression of genes of in vitro generated B-MF (BBCM4TCM) as compared to BM B cells culture in B-cell medium. Microarray data.

File Name: Supplementary Data 2

Description: Differential expression of genes of in vitro generated B-MF (BBCM4TCM) as compared to monocyte-derived macrophages. Microarray data.

File Name: Supplementary Data 3

Description: Unique scRNA-seq transcription profile of B-MF as compared to Mo-MF.