

### Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: **BMS1 versus RA- DEGS for all cell types.**

Table shows all the differentially expressed genes for all cell types.

File Name: Supplementary Data 2

Description: **RA1 versus RA- DEGS for all cell types.**

Table shows all the differentially expressed genes for all cell types.

File Name: Supplementary Data 3

Description: **RA10 versus RA- DEGS for all cell types.**

Table shows all the differentially expressed genes for all cell types.

File Name: Supplementary Data 4

Description: **Macular and peripheral markers.**

Macular and peripheral retina enriched genes obtained from the foetal retina datasets described in Zuo et al.,.

File Name: Supplementary Data 5

Description: **CARD marker genes.**

