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On the Role of Retinoic Acid in virus induced Inflammatory Response in Cornea

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## ACCEPTED MANUSCRIPT

1	On the Role of Retinoic Acid in virus induced Inflammatory Response in Cornea
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15	
16	Abstract: Ocular infection with herpes simplex virus (HSV) can result in a chronic
17	immune inflammatory lesion that is a significant cause of human blindness. A key to
18	controlling stromal keratitis (SK) lesion severity is to identify cellular and molecular
19	events responsible for tissue damage and to counteract them. One potentially useful
20	approach to achieve such therapy is Retinoic Acid (RA). Here we show that RA therapy
21	reduces the severity of SK by having inhibitory effects on the T effector subtypes
22	responsible for orchestrating SK. RA also served to stabilize the function of regulatory T
23	cell (Treg) which counteract inflammatory cell activity. The Treg stabilizing effect was

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