

CHAPMAN UNIVERSITY SCHOOL OF PHARMACY (CUSP)

News and Events

chapman.edu/pharmacy

Chapman Professor Publishes Paper on Anti-Inflammatory Activities of Nucleoside-Based Anti-HIV Drugs

Dr. Keykavous Parang, Associate Dean of Research, Graduate Studies and Global Affairs and a full professor at Chapman University School of Pharmacy, has recently co-authored a paper about the anti-inflammatory activities of nucleoside-based anti-HIV drugs. The work was recently published in American Association for the Advancement of Science's Science journal.

Nucleoside reverse transcriptase inhibitors (NRTIs) are inexpensive FDA-approved drugs that stop HIV by blocking a critical step in HIV life cycle called reverse transcription, a process critical for HIV to replicate its genome. This collaborative research shows that NRTIs also block the activity of a biological pathway responsible for activating inflammatory processes in the body caused by a large protein complex called the NLRP3 inflammasome. According to this collaborative work, repurposing of NRTIs could be used for the treatment of age-related macular degeneration (AMD), as well as other inflammatory disorders.

To read the full article, visit <http://www.sciencemag.org/content/346/6212/1000.full?sid=9149ed95-9841-4de7-ba04-63782d5ca610>