

## *School of Pharmacy*

# Division of Pharmacology

## Anil Kumar, Ph.D.

### Chair and Professor

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### Academic Background:

Ph.D. Kanpur University, Kanpur, India, 1987

### Research Interests:

- Effect of drug and alcohol abuse on pathogenesis of AIDS.
- Identification of target of immune responses in HIV-1 during natural infection
- Compartmentalization of HIV during natural infection
- Vaccine approaches in monkey model of AIDS

### Research Grants:

5R01AA015045-03 (Kumar) Alcohol and AIDS: Pathogenesis and Immunity in Macaque  
 5R21AI059361-02 (Kumar) Immune Targets during Natural Dengue Infection

### Lab Members:

Ashish S. Verma, Ph.D.  
 Grissell Tirado, Ph.D.  
 Aseem Umesh, Ph.D.  
 Antonio Perez Casanova, M.S.

### Research Publications (2006 only):

Kumar R, Orsoni S, Norman L, Verma AS, Tirado G, Giavedoni LD, Staprans S, Miller GM, Buch SJ, **Kumar A.** (2006). Chronic morphine exposure causes pronounced virus replication in cerebral compartment and accelerated onset of AIDS in SIV/SHIV-infected Indian rhesus macaques. Virology. Online publication PMID: 16876224.

Noel RJ Jr, Marrero-Otero Z, Kumar R, Chompre-Gonzalez GS, Verma AS, **Kumar A.** (2006) Correlation between SIV Tat evolution and AIDS progression in cerebrospinal fluid of morphine-dependent and control macaques infected with SIV and SHIV. Virology. 349:440-52.

Tirado G, **Kumar A.** (2006) Evolution of SIV envelope in morphine-dependent rhesus macaques with rapid disease progression. *AIDS Res Hum Retroviruses*. 22:114-9.

Noel RJ Jr, **Kumar A.** (2006) Virus replication and disease progression inversely correlate with SIV tat evolution in morphine-dependent and SIV/SHIV-infected Indian rhesus macaques. *Virology*. 346:127-38.

Dhillon NK, Dhillon S, Chebloune Y, Pinson D, Villinger F, **Kumar A**, Narayan O, Buch S. (2006) Therapy of "SHIV" infected macaques with liposomes delivering antisense interleukin-4 DNA. *AIDS*. 20:1125-30.

Singh DP, Kubo E, Takamura Y, Shinohara T, **Kumar A**, Chylack LT Jr, Fatma N. (2006) DNA binding domains and nuclear localization signal of LEDGF: contribution of two helix-turn-helix (HTH)-like domains and a stretch of 58 amino acids of the N-terminal to the trans-activation potential of LEDGF. *J Mol Biol*. 355:379-94.

Norman LR and **Kumar A.** (2006) Neuropsychological Complications of HIV Disease and Substances of Abuse. *Am. J Inf. Dis.* 2:115-124.

Rivera-Amill V, Noel RJ, Orsoni S, Tirado G, Garcia J, Buch SJ and **Kumar A.** (2006) The variable region 4 of SIV envelope correlates with rapid disease progression in morphine-exposed macaques infected with SIV/SHIV. *Virology*. In press.

Noel RJ Jr, Toro-Bahamonde A, Marrero-Otaro Z, Orsoni S, Verma AS, Kumar R, **Kumar A.** (2006) Lack of Correlation Between SIV-Nef Evolution and Rapid Disease Progression in Morphine-dependent Non-Human Primate model of AIDS. *AIDS Res Hum Retroviruses*. 22:

Noel RJ and **Kumar A.** (2006) SIV Vpr evolution is inversely related to disease progression in a morphine-dependent rhesus macaque model of AIDS. Submitted.

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