

Most Recent Publications (Ocular Virology Laboratory)

1. Tiwari V, Clement C, Scanlan PM, Yue BYJT, **Shukla D (2005)**. A Role for HVEM as the Receptor for Herpes Simplex Virus-1 Entry into Primary Human Trabecular Meshwork Cells. **Journal of Virology** 79:13173-79
2. Xu D, Tiwari V, Guoqing Xia, **D. Shukla**, J. Liu **(2005)**. Characterization of Heparan Sulfate 3-O-sulfotransferase Isoform 6 and its Role in Assisting the Entry of Herpes Simplex Virus Type- 1. **Biochemical Journal**, 385: 451-459.
3. Raghuraman, A., Tiwari, V, Thakkar, J.N., Gunnarsson, T., **Shukla, D.**, Hindle, M., Desai, U **(2005)** Structural characterization of a serendipitously discovered bioactive macromolecule, Lignin sulfate. **Biomacromolecules**. 6(5):2822-32.
4. Scanlan P, Tiwari V, Bommireddy S, **Shukla D. (2005)**. Spinoculation of heparan sulfate deficient CHO 745 cells enhances herpes simplex type-1 entry, but does not abolish the need for essential glycoproteins involved in the virus fusion mechanism. **Journal of Virological Method** 128 (1-2):104-112.
5. **Shukla D**, Scanlan P, Tiwari V, Sheth V, Clement C, Kavouras JH, Lu Leach, Grace Guzman-Hartman, Dermody TS, Tibor Valyi-Nagy **(2005)**. Effect of Herpes Simplex Virus Type 1 Infection on Nectin-1 Expression in the Murine Brain. **Applied Immunohistochemistry and Molecular Morphology**, (*In press*)
6. Kamimura K, Rhodes JM, Ueda R, McNeely M, **Shukla D**, Kimata K, Spear PG, Shworak NW, Nakato H. **(2004)** Regulation of Notch signaling by Drosophila heparan sulfate 3-O sulfotransferase. **J Cell Biol.** 166(7):1069-79.
7. Tiwari V, Clement C, Duncan MB, Chen J, Liu J, **Shukla D (2004)**. The role for 3-O-sulfated heparan sulfate in cell-to-cell fusion mediated by herpes simplex virus type-1. **Journal of General Virology**, 85, 805-809.
8. Tibor Valyi-nagy, Veeral Seth, Christian Clement, Tiwari V, Perry Scanlan, Jerry H. Kavouras, Lu Leach, Grace-Guzman-Hartman, Terence S. Dermody, **Shukla D (2004)**. Herpes Simplex virus entry receptor nectin-1 is widely expressed in the human eye. **Current Eye Research**, 29,303-309.
9. Scanlan P, Tiwari V, Bommireddy S, **Shukla D (2003)**. Cellular expression of gH confers resistance to Herpes Simplex Virus. **Virology, U.S.A.** 312 (1): 14-24.
10. Xia G, Chen J, Tiwari V, Ju W, Jin-Ping Li, Malmström A, **Shukla D**, Liu J **(2002)**. Heparan Sulfate 3-O-Sulfotransferase Isoform 5 Generates Both an Antithrombin-binding Site and an Entry Receptor for Herpes Simplex Virus Type 1. **The Journal of Biological Chemistry, U.S.A.** 227(40): 37912-37919.