

2006

Arriaga, M. E., Carr, J., Li, P., Wang, B. and Saksena, N. K (2006) Interaction between HIV-1 and APOBEC3 sub-family of proteins. *Current HIV Research 4*: 401-409.

Assam R, Lal L, Goh S-L, Kedzierska K, Jaworowski A, Naim E, Cherry CL, Wesselingh SL, Mills J, Crowe, S. Adverse effects of antiretroviral drugs on HIV-1 infected and uninfected human monocyte-derived macrophages. *JAIDS*, 2006; 42:19-28.

Azzam, R., K. Kedzierska, E. Leeansyah, H. Chan, D. Doischer, P.R. Gorry, A.L. Cunningham, S.M. Crowe, and A. Jaworowski. (2006). Impaired complement-mediated phagocytosis by HIV-1 infected human monocyte-derived macrophages involves a cAMP-dependent mechanism. *AIDS Res. Human Retroviruses*. 22:619-629.

Azzam R, Lal L, Goh SL, Kedzierska K, Jaworowski A, Naim E, Cherry CL, Wesselingh SL, Mills J, Crowe SM. Adverse effects of antiretroviral drugs on HIV-1 infected and uninfected human monocyte-derived macrophages. *J Acquir Immune Defic Syndr*. 2006;42:19-28.

Balakrishnan P, Suniti S, Mohanakrishnan J, Cecelia AJ, Kumarasamy N, Murugavel KG, Bhavani V, Sunil SS, Crowe SM, Ganesh AK, Thyagarajan SP, Flanigan T, Mayer KH. A reliable and inexpensive easy CD4 assay for monitoring HIV-infected individuals in resource-limited settings. *JAIDS* 2006;431-4.

Batten CJ, De Rose R, Wilson KM, Agy MB, Chea S, Stratov I, Montefiori DC, Kent SJ. Comparative evaluation of simian, simian-human, and human Immunodeficiency virus infection in the pigtail macaque (*Macaca nemestrina*) model. *AIDS Research and Human Retroviruses*, 2006;22:580-588.

Bowden S (2006). Serological and molecular diagnosis. *Semin Liver Dis* 26: 97-103.

Bowden S, Locarnini S (2006). Molecular diagnostics in hepatitis B. Chapter 53. In: Principles of Molecular Medicine, 2<sup>nd</sup> edition, eds Runge MS, Patterson C. Humana Press, Totowa, NJ. Bowden DS, Berzsenyi DM (2006). Chronic hepatitis C virus infection: genotyping and its clinical role. *Future Microbiol* 1: 103-112.

Bull, R. A., E. T. V. Tu, C. J. McIver, W. D. Rawlinson and P. A. White. 2006. Emergence of a new norovirus GII.4 variant associated with global outbreaks of gastroenteritis. *Journal of Clinical Microbiology*. Feb; 44(2):327-33.

Carr, JM, Davis AJ, Feng F, Burrell CJ, Li P. (2006) Cellular interactions of virion infectivity factor (Vif) as potential therapeutic targets: APOBEC3G and more? *Curr. Drug Targets*, 7(12):1583-93.

Carr, J., Davis, A., Coolen, C., Burrell, C. & Li, P. (2006) Vif-deficient HIV reverse transcription complexes (RTCs) are subject to structural changes and mutation of RTC-associated reverse transcription products. *Virology* 351:80-91.

Carr, J., Davis, A., Feng, F., Cheney, K., Burrell, C. & Li, P (2006) Cellular interactions of virion infectivity factor (Vif) as potential therapeutic targets: APOBEC3G and more? *Current Drug Targets* 7: 1583-1593.

Cheney, K.M., Kumar, R., Purins A., Mundy, L., Ferguson, W., Shaw, D., Burrell, C. J., and Li, P. (2006). HIV-1 persistence in CD4-/CD8-double negative T cells from patients on antiretroviral therapy. *AIDS Res. and Human Retroviruses*, 22, 66-75.

Cherry CL, Skolasky RL, Lal L, Creighton J, Hauer P, Raman SP, Moore R, Carter K, Thomas D, Ebenezer GJ, Wesselingh SL, McArthur J. Antiretroviral use and other risks for HIV-associated neuropathies in an international cohort. *Neurology* 2006; 28:867-8773.

- Cherry, CL, Nolan, D, James, IR, McKinnon, EJ, Mallal, SA, Gahan, ME, Lal, L, McArthur, JC, Wesselingh, S L. Tissue specific associations between mitochondrial DNA levels and current treatment status in HIV infected individuals. *JAIDS* 2006; 42 (4): 435-440.
- Churchill, M. J., D. I. Rhodes, J. Learmont, J. S. Sullivan, S. L. Wesselingh, I. R. C. Cooke, N. J. Deacon, and P. R. Gorry. (2006). Longitudinal analysis of human immunodeficiency virus type 1 *nef*/long terminal repeat sequences in a cohort of long-term survivors infected from a single source. *J. Virol.* 80:1047-52.
- Churchill, M.J., P.R. Gorry, D. Cowley, L. Lal, S. Sonza, D.F.J. Purcell, K.A. Thompson, D. Gabuzda, J.C. McArthur, C.A. Pardo, and S.L. Wesselingh. (2006). Use of laser capture microdissection to detect integrated HIV-1 DNA in macrophages and astrocytes from autopsy brain tissues. *J. NeuroVirol.* 12:146-152.
- Churchill, M.J., A. Figueirido, D.F.J. Purcell, J.S. Sullivan, D.A. McPhee, S.L. Wesselingh, B.J. Brew, and P.R. Gorry. (2006). Transcriptional activity of blood- and cerebrospinal fluid-derived *nef*/long-terminal repeat sequences isolated from a slow progressor infected with *nef*-deleted human immunodeficiency virus type 1 (HIV-1) who developed HIV-associated dementia. *J. NeuroVirol.* 12:219-228.
- Micallef, J. M., V. Macdonald, M. Jauncey, J. Amin, W. D. Rawlinson, I. van Beek, J. M. Kaldor, P. A. White and G. J. Dore. 2006. High incidence of hepatitis C virus reinfection within a cohort of injecting drug users. Accepted 26-7-06. *Journal of Viral Hepatitis*. doi:10.1111/j.1365-2893.2006.00812.x. Published online 10-11-06.
- Jones, L. A., L. E. Clancy, W. D. Rawlinson and P. A. White. 2006. High affinity aptamers to subtype 3a HCV polymerase display genotypic specificity. *Antimicrobial Agents and Chemotherapy* 50:3019-2027.
- Clarke, JN, Lake, J-A, Burrell, CJ, Wesselingh, SL, Gorry, PR, Li, P. (2006). Novel pathway of human immunodeficiency virus type 1 uptake and release in astrocytes. *Virology*, 348,141-155.
- Clarke CL, Lake J, Burrell CJ, Wesselingh SL, Gorry PR, Li P. Novel pathway of human immunodeficiency virus type 1 uptake and release in astrocytes. *Virology* 2006; 348:141-155.
- Coupar BE, Purcell DF, Thomson SA, Ramshaw IA, Kent SJ, Boyle DB. Fowlpox virus vaccines for HIV and SHIV clinical and pre-clinical trials. *Vaccine*, 2006;24:1378-88.
- Crowe SM. Macrophages as Residual Disease. *Curr Opin HIV AIDS*, 2006;1:129-133.
- Darnell GA, Schroder WA, Gardner J, Harrich D, Yu H, Medcalf RL, Warrilow D, Antalis TM, Sonza S, Suhrbier A. Serpinb2 is an inducible host factor involved in enhancing HIV-1 transcription and replication. *J Biol Chem* 281:31348-58, 2006.
- Davis, A. J., Cheney, K. M., Carr, J. M., Karlis, J., Vandegraaff, N., Coolen, C., Peng, Z-P., Chen, H-S., Burrell, C.J. and Li, P. Measurement of integrated HIV-1 DNA in patient samples and infected cells treated with candidate integration inhibitors, 2006. *Current Topics in Virology* (accepted)
- De Rose R, Sullivan MT, Dale CJ, Kelleher AD, Emery, S, Cooper DA, Ramshaw IA, Boyle DB, Kent SJ. Dose-response relationship of DNA and recombinant fowlpox virus prime-boost HIV vaccines. *Human Vaccines*, 2006;2:134-136.
- Dunfee, R., E. Thomas, P.R. Gorry, J. Wang, P. Ancuta, and D. Gabuzda. (2006). Mechanisms of HIV-1 neurotropism. *Curr. HIV. Res.* 4:267-278.

Dunfee, R. L., E. R. Thomas, P.R. Gorry, J. Wang, J. Taylor, K. Kunstman, S. M. Wolinsky and D. Gabuzda. (2006). The HIV Env variant N283 enhances macrophage tropism and is associated with brain infection and dementia. *Proc. Natl. Acad. Sci, USA*. 103:15160-15165.

Fiscus SA, Cheng B, Crowe SM, Demeter L, Jennings C, Miller V, Respass R, Stevens W and the Forum for Collaborative HIV Research Alternative Viral Load Assay Working Group. HIV-1 Viral Load Assays for Resource Limited Settings – A Review. *PLoS Medicine*. 2006;3:e417:1-8.

Gordon A, Hobbs DA, Bowden DS, Bailey MJ, Mitchell J, Francis AJP, Roberts S (2006). Effects of Silybum marianum on serum hepatitis C virus RNA, alanine aminotransferase levels and well-being in patients with chronic hepatitis C. *J Gastro Hepatol* 21:275-280.

Gray, L., M.J. Churchill, N. Keane. J. Sterjoivski, A.M. Ellett, D.F.J. Purcell, P. Pombourios, C. Kol, B. Wang, N. Saksena, S.L. Wesselingh. P. Price, M. French, D. Gabuzda, and P.R. Gorry. (2006). Genetic and functional analysis of R5X4 human immunodeficiency virus type 1 envelope glycoproteins derived from two individuals homozygous for the CCR5D32 allele. *J. Virol*. 80:3684-3691.

Gorry PR, Dunfee RL, Mefford ME, Kunstman K, Morgan T, Moore JP, Mascola JR, Agopian K, Holm GH, Mehle A, Taylor J, Farzan M, Wang H, Ellery P, Willey SJ, Clapham PR, Wolinsky SM, Crowe SM, Gabuzda. Changes in the V3 region of gp120 contribute to the unusually broad coreceptor usage of an HIV-1 isolate from a CCR5  $\Delta$  32 heterozygote. *J Virol* 2007;362:163-178.

Grgacic, E.V.L and Anderson, D. (2006) Virus-like particles: Passport to immune recognition. *Methods* 40:60-65.

Hales G, Birch C, Crowe SM, Workman C, Hoy JA, Law MG, Kelleher AD, Lincoln D, Emery S. A randomised trial comparing genotypic and virtual phenotypic interpretation of HIV Drug Resistance: The CREST Study. *PLoS Clinical Trials* 2006;28:1:e182006.

Harrich D, McMillan N, Munoz N, Apolloni A, Meredith.L. Will diverse Tat interactions lead to novel antiretroviral drug targets? *Current Drug Targets* 7:1595-606, 2006.

Harrich D. Protein methylation is required to maintain optimal HIV-1 infectivity. *Retrovirology* 3:92, 2006.

Jaworowski A, Ellery P, Maslin CL, Naim E, Heinlein AC, Ryan CE, Paukovics G, Hocking J, Sonza S, Crowe SM. Normal CD16 expression and phagocytosis of Mycobacterium avium complex by monocytes from a current cohort of HIV-1 infected patients. *J Infect Dis*. 2006;193:693-7.

Kelleher A, Puls R, Bebbington M, Boyle DB, Ffrench RA, Kent SJ, Law MG, Purcell DFJ, Ramshaw IA, Cooper DA, Emery S. A randomised, placebo-controlled phase I trial of DNA prime, recombinant fowlpox virus boost prophylactic vaccine for HIV-1. *AIDS*, 2006;20:294-297.

Lal L, Wesselingh SL, Tachedjian G, Tyssen DP, Smyth K, Glass JD, Cherry CL. L-Acetyl Carnitine (LAC) Prevents Antiretroviral Toxic Neuropathy (ATN) in an in Vitro Model. Abstract E116. 13th Conference. on Retroviruses and Opportunistic Infections, Denver, USA 2006.

Leeansyah E, Wines BD, Crowe SM, Jaworowski A. The Mechanism Underlying Defective Fc $\gamma$ R-mediated Phagocytosis by HIV-1 Infected Human Monocyte-derived Macrophages. *J. Immunology*, 2006;178:1096-104.

Lim SG, Wai CT, Lee YM, Dan YY, Sutedja DS, Wee A, Suresh S, Wu YJ, Machin D, Lim CC, Fock KM, Koay E, Bowden S, Locarnini S, Ishaque SM (2006). A randomized, placebo-controlled trial of thymosin-alpha1 and lymphoblastoid interferon for HBeAg-positive chronic hepatitis B. *Antivir Ther* 11: 245-253.

Peut V, Kent SJ. Fitness constraints on immune escape from HIV: Implications of Envelope as a target for both HIV-specific T cells and antibody. *Current HIV Research*, 2006;4:191-7.

Pratt BF, O'Connor DH, Lafont BAP, Mankowski JL, Fernandez CS, Triastuti R, Brooks AG, Kent SJ, Smith MZ. MHC class I allele frequencies in pigtail macaques of diverse origin. *Immunogenetics*, 2006;58:995-1001.

Price, P., N. Keane, L. Gray, S. Lee, P.R. Gorry, and M.A. French. (2006). CXCR4 or CCR5 tropism of human immunodeficiency virus type 1 does not determine the immunological milieu in patients responding to antiretroviral therapy. *Viral Immunol.* 19:734-40.

Srivastava, S., Sluis-Cremer N., Tachedjian G. (2006). Dimerization of human immunodeficiency virus type 1 reverse transcriptase as an antiviral target. *Current Pharmaceutical Design* 12: 1879 – 1894.

Sterjovski, J., M.J. Churchill, S.L. Wesselingh, and P.R. Gorry. (2006). HIV-1 entry inhibitors: classes, applications and factors affecting potency. *Curr. HIV. Res.* 4:387-400.

Stratov I, Dale CJ, Chea S, Montefiori DC, De Rose R, Reece JC, Kent SJ. Characteristics of effective immune control of Simian/Human Immunodeficiency Virus in pigtail macaques. *AIDS Research and Human Retroviruses*, 2006;22:27-32.

Torresi, J., Fischer, A., Grollo, L., Zeng, W. Drummer, H and Jackson, D.C. 2007. Induction of neutralising antibody responses to hepatitis C virus with synthetic peptide constructs incorporating both antibody and T-helper epitopes. *Immunol. Cell. Biol.* (in press).

Truett AA, Letizia A, Malyangu E, Singyangwe F, Morales BN, Crum NF, Crowe, SM. Efficacy of Cyto-Chex™ blood preservative for delayed manual CD4 testing using Dynal® T4 Quant CD4 test among HIV-infected persons in Zambia. *JAIDS* 2006;41:168-174.

Warrilow D, Gardner J, Suhrbier A, Harrich D.\* A protein kinase C activator reveals an unusual mechanism of HIV-1 inhibition. *AIDS Research and Human Retroviruses* 22:854-64, 2006.

Webster NL, Kedzierska K, Azzam R, Paukovics G, Wilson J, Crowe SM, Jaworowski A. Phagocytosis stimulates mobilization and shedding of intracellular CD16A in human monocytes and macrophages: inhibition by HIV-1 infection. *J Leuk Biol* 2006;79:294-302.

Webster NL and Crowe SM. Matrix metalloproteinases, their production by monocytes and macrophages and their potential role in HIV-related diseases. *J Leuk Biol.* November 2006. (Invited Review). *J Leukoc Biol* 2006;80:1052-66.

Zaunders J, Dyer WB, Munier ML, Ip S, Liu J, Amyes E, Rawlinson B, De Rose R, Kent SJ, Sullivan JS, Cooper DA, Kelleher AD. D127+ CCR5+ CD38+++ CD4+ Th1 effector cells are an early component of the primary immune response to vaccinia and precede IL-2+ memory CD4+ T cells. *J Virol*, 2006;80:10151.