

Thursday, March 3

7:30-8:30am Continental Breakfast, Grand Hall

Oral Session VI: Herpesvirus Infections III - Retrovirus Infections II

Chairpersons: S. Shigeta and B. Rosenwirth

- 8:30am Plenary Speaker - Karl Hostetler
"Structure and Activity of Antiviral Lipid Prodrugs"
University of California, San Diego, CA, USA
- 9:00 134. Development of a Guinea Pig Model for Determining the Pharmacokinetics of Antiviral Agents. E.R. Kern, P.E. Vogt, J. Palmer, L.B. Kidd, E.M. Cretton, D.W. Adair, and J.-P. Sommadossi. *The University of Alabama School of Medicine, Birmingham, AL; and Oclassen Pharmaceuticals, Inc., San Raphael, CA, USA.*
- 9:15 135. Cyclocreatine (1-carboxymethyl-2-iminoimidazolidine) Inhibits the Replication of Human Herpes Viruses. L.J. Hansen, J.W. Lillie, D.F. Smee, J.H. Huffman, R.W. Sidwell, and R.Kaddurah-Daouk. *AMIRA, Inc., Cambridge, MA, USA; and Utah State University, Logan, UT, USA.*
- 9:30 136. Cyclocreatine Improves the Structural Integrity of the Retina in Human Cytomegalovirus-Induced Chorioretinitis in the Rabbit Model. E.C. Dunkel, J.W. Lillie, Q. Zhu, L.J. Hansen, and R. Kaddurah-Daouk. *Harvard Medical School, Boston, MA; and AMIRA, Inc., Cambridge, MA, USA.*
- 9:45 137. Animal Models of Herpes Family Viral Retinitis. W.R. Freeman, C.A. Wiley, M. Flores-Aguilar, G. Bergeron-Lynn, and G. Besen. *University of California, San Diego, La Jolla, CA; and University of Pittsburgh School of Medicine, Pittsburgh, PA, USA*
- 10:00 Break
- 10:30 138. Stereoselective synthesis of Novel Antiviral Nucleoside Analogues. T.S. Mansour, H.L.A. Tse, H. Jin, M.A.Siddiqui, C.A. Evans, and W. Wang. *BioChem Therapeutic, Inc., Laval, Quebec, Canada.*
- 10:45 139. MKC-442, a Highly Potent and Specific Inhibitor of HIV-1 M. Baba, S. Shigeta, S. Yuasa, M. Ubasawa, H. Tanaka, T. Miyasaka, R.T. Walker, and E. De Clercq. *Fukushima Medical College, Fukushima, Japan; Mitsubishi Kasei Corporation Research Center, Yokohama, Japan ; Showa University, Tokyo, Japan; University of Birmingham, Birmingham, UK; and Katholieke Universiteit Leuven, Leuven, Belgium.*

- 11:00 140. Effects of Combinations of HIV-1 Specific RT Inhibitors with Complementary Resistance Profiles on the Time and Type of Drug-Resistant HIV-1 Development. R. Pauwels, M.P. de Béthune, K. Andries, P. Stoffels, J. Desmyter, P.A.J. Janssen, and E. De Clercq. *Katholieke Universiteit Leuven, Leuven; and Janssen Research Foundation, Beerse, Belgium.*
- 11:15 141. Phosphorylation and Subcellular Distribution of HIV-1 MA Protein. A. Boukrinskaia, R. Lewis, and M. Stevenson. *The D.I. Ivanovsky Institute of Virology, Moscow, Russia; Eppley Research Institute, Omaha; and University of Nebraska Medical Center, Omaha, Nebraska, USA.*
- 11:30 142. Replication of HIV-1 and HSV-1 in Macrophages: Comparative Activity of Acyclic Nucleoside Phosphonates in the Presence or Absence of Cytokines Enhancers of Virus Replication. C.F. Perno, J. Balzarini, E. Balestra, S. Aquaro, G. Milanese, E. De Clercq, and R. Calio'. *University of Rome "Tor Vergata", Rome, Italy; and Katholieke Universiteit Leuven, Leuven, Belgium.*
- 11:45 143. Antiviral Drug Resistance Mutations in HIV-1 Reverse Transcriptase Occur in Specific RNA Structural Regions. E.W. Taylor, C.S. Ramanathan, R.M. Lloyd, Jr., and R.F. Schinazi. *The University of Georgia, Athens, GA; and Emory University and Veterans Administration Medical Center, Decatur, GA, USA.*

12:00 Lunch

Oral Session VII: Retrovirus Infections III

Chairpersons: J.C. Martin and J.L. Imbach

- 1:30pm 144. Identification of Distinct Subgroups of Nonnucleoside Reverse Transcriptase Inhibitors Defined by Cross-Resistance Phenotypes of Drug-Resistant Virus Isolates. R.W. Buckheit, Jr. and V. Fliakas-Boltz. *Southern Research Institute, Frederick Research Center, Frederick, MD, USA.*
- 1:45 145. Drug-Resistant HIV-1 Mutants May Undergo Further Mutations in the Reverse Transcriptase (RT) under Continuous Pressure of HIV-1-Specific RT Inhibitors. J. Balzarini, A. Karlsson, and E. De Clercq. *Katholieke Universiteit Leuven, Leuven, Belgium; and Karolinska Institute, Stockholm, Sweden.*
- 2:00 146. Drug-Induced Cell Mediated Mechanism Leading to Resistance of HIV to AZT. F. Dianzani, O. Turriziani, G. Antonelli, E. Riva, E. Simeoni, M. Cianfriglia, and A. Fattorossi. *University "La Sapienza", Rome; University of Pisa, Pisa; Istituto Superiore di Sanita', Rome; and Laboratory of Immunology D.A.S.R.S. Pratica di Mare, Rome, Italy.*