

Programme

Virus Molecular Interactions: Therapeutic Targets
17 – 19th September 2007
Medical Sciences Teaching Centre, Oxford, UK

Monday 17 September, 2007

12:00	Registration
13:45	Welcome and Introductions (MSTC foyer)
Session 1	Virus particle structure and entry Dr Quentin Sattentau <i>Sir William Dunn School of Pathology, University of Oxford</i>
14:00 I01	Antibody neutralization of HIV Dennis Burton* <i>The Scripps Research Institute, California, USA</i>
14:45 I02	Locks and keys for herpes simplex virus entry into cells Patricia Spear* <i>Northwestern University, USA</i>
15:30 I03	Systems biology of virus entry in mammalian cells Lucas Pelkmans* <i>ETH-Hönggerberg, Zürich, Switzerland</i>
16:00	Afternoon Tea (MSTC foyer)
16:30 O01	The potential of antiviral aptamers William James* <i>University of Oxford, UK</i>
16:50 O02	A metallopeptide mimic of the coiled coil domain of class 1 viruses is a useful target for antiviral drugs Lifeng Cai, Yanxia Hou and Miriam Gochin* <i>Touro University – California, USA</i>
17:10 O03	Two-color fluorescence analysis of individual virions determines the distribution of copy number of proteins in herpes simplex virus particles Richard W Clarke, Haitao Li, Dejian Zhou, Helena Browne and David Klenerman* <i>University of Cambridge, UK</i>
17:30	Close of Session
17:30 – 19:00	Poster Session and Wine Reception (MSTC foyer)

Tuesday 18 September, 2007

Session 2	Innate defences and cellular interactions Professor Geoffrey Smith, <i>Imperial College, UK</i> and Professor Michael Malim, <i>Kings College London, UK</i>
9:00 I04	Seeking antiviral factors: tripartite motif proteins and cyclophilins Greg Towers* <i>University College London, UK</i>
10:00 I05	Interfering with interferon: lessons from paramyxoviruses and pestiviruses Steve Goodbourn* <i>St George's University of London, UK</i>
10:30	Morning Coffee (MSTC foyer)
11:00 I06	A new inhibitor of apoptosis from vaccinia virus and eukaryotes Caroline I Gubser*, Daniele Bergamaschi, Michael Hollinshead, Xin Lu, Frank J M van Kuppeveld and Geoffrey L Smith <i>Imperial College, London, UK</i>
11:30 O04	Breaking the silence: synthetic and immunological approaches to the design of carbohydrate immunogens for HIV - 1 C N Scanlan*, C Dunlop, H K Lee, S Tully, J Offer, D Harvey, D Calarese, K Baruah, O Blixt, M Crispin, C H Wong, P M Rudd, P Wentworth, N Zitzmann, D R Burton and R A Dwek <i>University of Oxford, UK</i>
11:50 O05	Characterization of the LEDGF/p75 binding site in HIV-1 integrase Katrien Busschots*, Anneleen Hombrouck, Jan De Rijck, Arnout Voet, Jelle Hendrix, Marc De Maeyer, Yves Engelborghs, Frauke Christ and Zeger Debyser <i>Katholieke Universiteit Leuven, Belgium</i>
12:10	Lunch and posters (MSTC foyer)

Session 3	Antiviral drug development Dr Eddy Littler <i>Domainex / NCE Discovery, UK</i>
14:00 I07	HCV infection: antiviral approaches Richard Bethell* <i>Boehringer Ingelheim (Canada) Ltd., Canada</i>
15:00 I08	15 years of NNRTI research: how scientists resist the viral escape Piet Wigerinck* <i>Tibotec BVBA, Belgium</i>
15:30 O06	Adenovirus proteinase - multiple targets for antiviral therapy Walter F Mangel* <i>Brookhaven National Laboratory, USA</i>
16:00	Afternoon Tea (MSTC foyer)
16:30 O07	Structure-based design of GSK625433: A novel clinical candidate for treatment of HCV D Haigh*, E M Amphlett, G S Bravi, H Bright, V Chung, C Chambers, A G Cheasty, M A Convery, M R Ellis, R Fenwick, D F Gray, C D Hartley, P D Howes, R L Jarvest, K J Medhurst, A Mehbob, D Mesogiti, F Mirzai, F Nerozzi, N R Parry, N A Roughley, T J Skarzynski, M J Slater, S A Smith, R Stocker, C J Theobald, P J Thomas, P A Thommes, J H Thorpe, C S Wilkinson and E Williams <i>GlaxoSmithKline, Stevenage, UK</i>
16:50 O08	Identification of potent small-molecule inhibitors of arenavirus infection by high-throughput screening Andrew M Lee, Jillian M Rojek, Alex Shaginian, Christina F Spiropoulou, Dale L Boger, Michael B A Oldstone and Stefan Kunz* <i>The Scripps Research Institute, California, USA</i>
17:10 O09	Novel amphipathic DNA polymers REP 9 and REP 9C display activity <i>in vivo</i> against H5N1 and other influenza strains Andrew Vaillant*, Olivier Ferraris, Jean-Marc Juteau, Annie Lebel, Nathalie Goyette, Guy Boivin, Bruno Lina, Michael Holbrook and Phil Wyde <i>REPLICor Inc., Quebec, Canada</i>
17:30	Close of Session
18:30	Pre-Dinner Drinks (The Norrington Room, Blackwell's bookshop basement, Broad Street)
19:30	Conference Banquet (Trinity College, Broad Street) Attendance by ticket only

Wednesday 19th September, 2007

Session 4	Structures of viral proteins and nucleic acids Professor David Rowlands <i>University of Leeds, UK</i>
9.00 I09	Viral membrane fusion proteins: how many structural classes? Félix A Rey* <i>Laboratoire de Virologie Moléculaire & Structurale, CNRS-INRA and IFR 115, France</i>
9:45 I10	Insights and therapeutic opportunities in structural virology David Stuart* <i>The Wellcome Trust Centre for Human Genetics, Oxford, UK</i>
10.30 I11	A hybrid multi-scaled approach to characterize poliovirus entry James M Hogle* <i>Harvard University, Boston, USA</i>
11.00	Morning Coffee (MSTC foyer)
11.30 O10	Structural analysis of the HIV-1 packaging signal reveal novel protein binding sites and regions susceptible to antiviral intervention AML Lever*, J Greatorex, E Anderson, M Gait, D Brown, J Gallego, R Pomerantz and S Lea <i>University of Cambridge, UK</i>
11.50 O11	RNA genome recognition & packaging and hidden symmetry constraints: novel opportunities for anti viral therapy Peter G Stockley*, Alison E Ashcroft, Gabriela Basnak, Bo Meng, David H J Bunka, Claire Bullock, James M Hogle, Stephen W Homans, Tom Keef, Stephen Lane, Simon E V Phillips, Neil Ranson, Ottar Rolfsson, David J Rowlands, Nicola J Stonehouse, Gary S Thompson, Katerina Toropova, Toby J Tuthill and Reidun Twarock <i>University of Leeds, UK</i>
12.10 O12	Crystallographic and functional analysis of foot-and-mouth disease virus 3C protease reveal the structural basis of substrate and inhibitor specificity Trevor R Sweeney, Patricia A Zunszain, Núria Roqué-Rosell, Robin J Leatherbarrow and Stephen Curry* <i>Imperial College, London, UK</i>
12:30	Close of Session and depart