

10th Meeting of the Society for Natural Immunity

West Road Concert Hall,
Cambridge 11 - 14 April 2007

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11-14 April 2007
West Road Concert Hall, Cambridge
 Programme
 V3.4 (March 2007)

Tuesday 10 th April		
Uterine NK cells		<i>This workshop is now fully booked</i>
Location		Chetwynd Room Kings College
Organisers		Francesco Colucci, Ashley Moffett and Anne Croy
		<p>The following scientists have agreed to attend and lead the discussion on these topics. There will be very short presentations (5-8 minutes) to allow ample time for participants to contribute thoughts and ideas</p> <p>Themes:</p> <ol style="list-style-type: none"> 1. <i>Uterine NK cells: animal models and human cells</i> Anne Croy, Judith Bulmer and Ashley Moffett 2. <i>Origin: in situ, migration and subsets</i> Francesco Colucci and Michael Caligiuri 3. <i>Receptor expression and Trophoblast (underlining removed)</i> John Trowsdale, Sumi Rajagopalan and Richard Apps 4. <i>Functions of uterine NK cells</i> Ofer Mandelboim and Charles Sentman
13.00 – 14.00		Lunch and greetings
14.00 – 18.00		Short talks and Discussions (one or two breaks in between)
18.00 – 19.00		Drinks

Wednesday 11th April

15:00 – 17:00		Registration – West Road Concert Hall
17:00 – 17.30		Peter Lawrence <i>From Francis Crick to Impact Factors: Science Then and Now</i>
17.30 – 18.00		John Todd <i>Type 1 diabetes and autoimmunity genes in immune-mediated aetiology</i>
18:00 – 20:00		Welcome Reception – West Road Concert Hall

Thursday 12 th April		
08:00 – 08:30		Registration – West Road Concert Hall
		Basic Science
08:30 – 09:00		Eric Long <i>Regulation of resting NK cell activation</i>
09:00 – 09:30		Klaus Karre <i>Inducing and breaking NK cell tolerance</i>
09:30 – 10:00		Steve Anderson <i>Association of specific KIR promoter alleles with frequency of expression</i>
10:00 – 10:30		Alexander Steinle <i>Vis-à-vis in the NKC: NKp80 and AICL</i>
10:30 - 11:30		Coffee & Posters
11:30 – 12:00		Introduced by Bill Seaman <u><i>The Mike Bennett Lecture</i></u> Mike Bennett was a pioneer in the field of natural killer cell histocompatibility and immunogenetics. In two papers published with G Cudkowicz in 1971, he showed that the rules governing bone marrow transplantation are different from those determining the transplantation of skin and solid organs. This was first beginnings of the research that culminated in missing self recognition and of the systems of MHC class I receptors that determine NK cell alloreactivity. For a number of years at the University of Texas, Southwestern Medical Center in Dallas, Mike Bennett and Vinay Kumar worked together in exploring the distinctive immunogenetics of mouse NK cells Vinay Kumar <i>The dual functions of CD244 and its role in NK cell self tolerance</i>
12:00 – 12:30		Daniel M Davis <i>Imaging nanotubular networks between immune cells and NK cell targeting of cells in mitosis</i>
12:30 – 12:45	O1	The traffic and fate of the NKG2D/DAP10 receptor complex is influenced by NK cell cytotoxic interactions <i>P Roda Navarro, HT Reyburn.</i>
12:45 – 13:00	O2	HLA-B-Associated Transcript 3 (BAT3) is an activating ligand for Nkp30 and released from dendritic cells <i>E. Pogge von Strandmann, V. Simhadri, A. Engert.</i>
13:00 – 14:00		Lunch
		Development & Education
14:00 – 14:30		Eric Vivier <i>NK cell recognition and education</i>
14:30 – 15:00		David Raulet <i>NK cell tolerance and recognition of damaged and transformed cells</i>
15:00 – 15:30		Wayne Yokoyama <i>NK Cell Development and Differentiation</i>
15:30 – 16:15		Tea and Posters

16:15 – 16:30	O2A	<i>In vivo</i> priming of natural killer (NK) cells by dendritic cells (DC) <i>M Lucas, W Schachterle, K Oberle, P Aichele, A Diefenbach.</i>
16:30 – 16:45	O3	The NKR-P1 family of receptors in rat recognizes C-type lectin-related molecules <i>L Kveberg, IH Westgaard, KZ Dai, MR Daws, S Fossum, C Naper, JT Vaage.</i>
16:45 – 17:00	O4	KLRG1 recognition of E-cadherin requires proper removal of the E-cadherin prodomain. <i>T Maruyama, M Ito, S Nakamura, K Kuroki, K Maenaka, K Yamamoto, N Matsumoto.</i>
17:00 – 17:30		Anne Croy <i>Biological Functions of NK cells Found within Endometrium</i>
17:30 – 18:00		Ofer Mandelboim <i>Human NK cells: builders during pregnancy and killers during virus infection.</i>
18:30 – 21:00		Drinks Reception Fitzwilliam Museum

Friday 13 th April		
08:00 – 08:30		Registration – West Road Concert Hall
		Development
08:30 – 09:00		Jim Di Santo <i>Pathways of NK cell Development</i>
09:00 – 09:30		Michael Caligiuri <i>NK development inside the human lymph node</i>
09:30 – 09:45	O5	Three pathways of tissue-specific NK cell development <i>LL Veinotte, T Halim, F Takei.</i>
09:45 – 10:00	O6	Education of murine NK cells: A role for Ly49A/H-2Dd cis interaction <i>A Chalifour, W Held.</i>
10:00 – 10:30		Alessandro Moretta <i>NK-mediated shaping of T cell priming</i>
10.30-11.30		Coffee & Posters
		DC and other Cells
11:30 – 12:00		Marco Colonna <i>Receptor for Nectins on NK Cells</i>
12:00 – 12:15	O7	Differential levels of inhibition by distinct KIR molecules affect the kinetics of the anti-viral NK cell response <i>G Ahlenstiel, MP Martin, X Gao, M Carrington, B Rehermann.</i>
12:15 – 12:30	O8	Viral evasion of Natural Killer cells <i>M Thomas, S Field, S Nejentsev, J Boname, M Wills, PJ Lehner.</i>
12:30 – 13:00		Maria Pia Degli-Esposti <i>Title to be confirmed</i>
13:00 – 14:00		Lunch
14:00 – 14:30		Laurence Zitvogel <i>Defining novel NK cell subsets with regulatory functions in mice</i>
14:30 – 14:45	O9	NK cells recognize Ewing Sarcoma through NKG2D and DNAM-1 dependent pathways <i>DHJ Verhoeven, ASK De Hooge, ECK Mooiman, S Justo Santos, H Gelderblom, CJM Melief, PCW Hoogendoorn, RM Egeler, MJD Van Tol, MW Schilham, AC Lankester</i>
14:45 – 15:00	O10	The influence of maternal KIR and fetal HLA-C genotypes on human reproductive success <i>SE Hiby, JJ Walker, CWG Redman, L Morgan, C Tower, L Regan, J Hayes, M Carrington, A Moffett.</i>

15:00 – 15:15	O11	Alloreactive NK cells boost immune reconstitution after MHC haplotype-mismatched bone marrow transplantation <i>L Ruggeri, E Burchielli, K Perruccio, M Capanni, K Hafen, M Stern, MF Martelli, L Romani, G Hollander, A Velardi.</i>
15:15 – 15:30	O12	Phenotype and functionality of NK cells in haploidentical bone marrow/stem cell transplantation. <i>C.S. Falk, D. ter Meer, I. Bigalke, B. Mosetter, B. Simm, M. Braun, D. Prevalsek, A. Hausmann, D. Schendel, H.J. Kolb.</i>
15:30 – 15:45	O13	Expression of the DNAM – 1 Ligands on dendritic cells (DC): Relevance for NK-DC Interaction <i>S Marcenaro, R Castriconi, P Romagnani, GM Spaggiari, A Dondero, S Martini, L Moretta, C Bottino, D Pende.</i>
15:45 – 16:30		Tea & Posters
16:30 - 17:30		Debate – “this house believes that the NK cell licensing laws should be repealed” Chair: Peter Parham Contributors: Wayne Yokoyama, Eric Vivier, David Raulet and Jeroen van Bergen
18:30		Organ recital Kings College Chapel
19:30		Conference Dinner Kings College Cambridge

Saturday 14 th April		
08:30 – 09:00		Registration – West Road Concert Hall
		Diseases
09:00 – 09:30		Mary Carrington <i>A Story of the Intimate Relationship between KIR/HLA and Disease.</i>
09:30 – 10:00		Eleanor Riley <i>NK cells and malaria</i>
10:00 – 10:30		Peter Parham <i>KIR Polymorphism and HLA specificity</i>
10:30 – 11:00		Coffee
		Viruses
11:00 – 11:30		Lewis Lanier <i>NK receptors in viral immunity</i>
11:30 – 12:00		Tony Scalzo <i>NK cell receptor specificity for genetically variable viral ligands – consequences for host/virus interactions.</i>
12:00 – 12:30		Miguel Lopez-Botet <i>Human NK cell receptors in cytomegalovirus infection</i>
12.30 – 13:00		Lunch
13:00		Departure