

9:00 am - 9:15 am	3. An analysis of the immunological and clinical associations of CMV infection in the Lothian Birth Cohort <i>Charlotte Firth, Rowan Harrison, Alan Gow, John Starr, Ian Deary & <u>Paul Moss</u> (Birmingham, UK)</i>
9:15 am - 9:30 am	Discussion
9:30 am - 9:45 am	4. Influence of CMV seropositivity on LIR-1 expression on lymphocytes in patients with RA <i><u>Kathrin Rothe</u>, Dagmar Quandt, Maria Klingner, Kristin Schubert, Christoph Baerwald and Ulf Wagner (Leipzig, Germany)</i>
9:45 am - 10:00 am	5. Mechanisms for decreased B cell vaccine response in the elderly <i><u>Daniela Frasca</u>, Alain Diaz, Maria Romero, Ana Marie Landin, Bonnie B. Blomberg (Miami, FL, USA)</i>
10:00 am - 10:15 am	6. Vaccination and the bone marrow in old age <i><u>Beatrix Grubeck-Loebenstien</u> (Innsbruck, Austria)</i>
10:15 am - 10:30 am	Discussion
10:30 am - 10:45 am	Coffee Break
SESSION V. Clinical implications of immunosenescence and HCMV infection (Part B). Chair: <i>Paul Moss</i>	
10:45 am - 11:00 am	1. HCMV infection and clinical outcomes in Stroke Patients <i><u>Francesco Fausto Fagnoni</u>, Rosanna Vescovini, Mario Pedrazzoni, Maria Cristina Arcangeletti, Licia Denti, Paolo Sansoni (Parma, Italy)</i>
11:00 am - 11:15 am	2. Arterial Stiffness is Associated with CD57⁺CD8⁺ Immunosenescent T Cells and CMV pp65-Specific IFN-γ Secretion of CD8⁺ T Cells <i>Hee Tae Yu, Jong-Chan Youn, Sungha Park and <u>Eui-Cheol Shin</u> (Seoul, Korea)</i>
11:15 am - 11:30 am	3. A potential role of human cytomegalovirus (HCMV) in cancer <i>Cecilia Söderberg-Nauclér (Stockholm, Sweden)</i>
11:30 am - 11:45 am	Discussion
11:45 am - 12:00 am	4. Prior infection with Cytomegalovirus and incident Type 2 Diabetes Mellitus in the EPIC-Norfolk cohort <i><u>E. Gkrania-Klotsas</u>, C. Langenberg, S. Sharp, K.T. Khaw, N.J. Wareham (Cambridge, United Kingdom)</i>
12:00 pm - 12:15 pm	5. Cytomegalovirus seropositivity and comorbidity: is CMV just a biomarker or causally related to age related diseases? Results from different cohort studies <i><u>Andrea B. Maier</u> (Amsterdam, The Netherlands)</i>
12:15 pm - 12:30 pm	6. Role of CMV seropositivity in acute vs chronic inflammatory diseases in elderly subjects <i><u>T. Fulop</u>, S. Baehl, A. Le Page, K. Bourgade-Navarro, H. Garneau, E. Frost, G. Dupuis, J. McElhaney, E. Derhovanessian, D. Frasca, A. Larbi, G. Pawelec (Sherbrooke, Quebec, Canada)</i>
12:30 pm - 12:45 pm	Discussion
12:45 pm - 1:45 pm	ROUND TABLE WITH OUTSTANDING QUESTIONS OF THE DAY AND CLOSING REMARKS Chair: <i>Janko Nikolich-Zugich</i> Lunch and farewell
1:45 pm - 2:30 pm	

President
Prof. Paolo Sansoni
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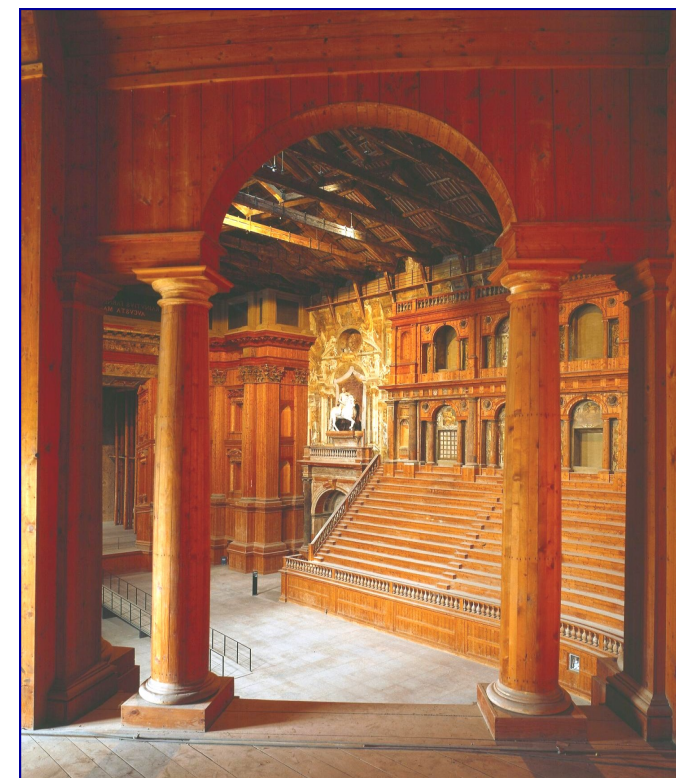
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**4th International Workshop on
“CMV & Immunosenescence”
25-27 March 2013,
Parma (Italy)**

6:30 pm - 8:00 pm	Monday, March 25, 2013		11:45 am - 12:00 am	3. CMV infection associates to CMV-specific and non-CMV-specific polyfunctional responses of CD8+ T cell from young individuals <i>Pera A, Campos C, Alonso C., Tarazona R., <u>Solana R</u> (Cordoba, Spain)</i>	3:30 pm - 3:45 pm	2. CD4/CD8 ratio > 5 is associated with a 7 higher proportion of naïve CD8 and CD4 T-cells and an impaired global functioning in the very elderly: results from the BELFRAIL study <i>Wim Adriaensen, Evelynna Derhovanessian, Bert Vaes, Gijs Van Pottelbergh, Jean-Marie Degryse, Graham Pawelec, <u>Catharina Matheï</u> (Leuven, Belgium)</i>
7:00 pm - 8:45 pm	Registration at Hotel Stendhal					
9:00 pm - 10:30 pm	Welcome Cocktail Party					
	Concert in Steccata Church					
	Tuesday, March 26, 2013					
8:00 am - 8:30 am	Registration		12:00 am - 12:15 pm	4. Regulation of CD8+ effector T cell function <i><u>Rene van Lier</u>, Kirsten Hertoghs, Felipe Vieira Braga, Mieke Brouwer, Lucien Aarden, Ingrid Derks, Eric Eldering, Martijn Nolte, Ineke ten Berge and Klaas van Gisbergen (Amsterdam, The Netherlands)</i>	3:45 pm - 4:00 pm	3. Anti-CMV titre modifies the global gene expression profile in nonagenarians <i><u>Mikko Hurme</u> (Tampere, Finland)</i>
8:30 am - 9:00 am	WELCOME AND OPENING REMARKS <i>Paolo Sansoni, Gino Ferretti (Rector of University of Parma), Graham Pawelec</i>					
	SESSION I. HCMV-HOST INTERACTION (I): mechanisms of viral persistence and remodelling of Immune cell compartments. Chair: <i>Rafael Solana</i>		12:15 pm - 12:30 pm	5. Functional impairment of terminally differentiated human CD8+ T cells <i><u>Yen-Ling Chiu</u>, David Canaday, Jonathan P. Schneck (Baltimore, MD, USA)</i>	4:00 pm - 4:15 pm	4. HCMV infection in centenarians <i><u>Claudio Franceschi</u> (Bologna, Italy)</i>
9:00 am - 9:15 am	1. Viral Mechanisms of HCMV Persistence <i>M. Umashankar, Mike Rak, Farah Bughio, Katie Caviness, Patricia Zagallo, and <u>Felicia Goodrum</u> (Tucson, Arizona, USA)</i>		12:30 pm - 1:00 pm	Discussion	4:15 pm - 4:30 pm	Discussion
			1:00 pm - 2:00 pm	Lunch	4:30 pm - 5:00 pm	Coffee Break
	SESSION III. Immunosenescence: contributions of age and HCMV infection in general populations (A) and in selected populations (B). Chair: <i>Arne Akbar (A)</i>				SESSION IV. Lessons from mouse models of immunosenescence and MCMV infection. Chair: <i>Ann Hill</i>	
9:15 am - 9:30 am	2. B Lymphocyte response to primary CMV infection <i>Nicolas Dauby, Delphine Sartori, Sandra Lecomte, Corinne Liesnard, Catherine Donner, <u>Arnaud Marchant</u> (Bruxelles, Belgium)</i>		2:00 pm - 2:15 pm	1. T-cell memory inflation is not a feature of HCMV Infection <i>Andy Sylwester, Kate Nambiar, Nadia Terrazzini, Serena Vita, Martha Bajwa, Helen Smith, Elizabeth Cheek, David Thomas, Louis Picker and <u>Florian Kern</u> (Brighton, United Kingdom)</i>	5:00 pm - 5:15 pm	1. Effects of inoculum size on memory T cell inflation during cytomegalovirus infection <i>Anke Redeker, Suzanne P.M. Welten, <u>Ramon Arens</u> (Leiden, The Netherlands)</i>
9:30 am - 9:45 am	3. Adaptive reconfiguration of the human NK cell compartment in response to cytomegalovirus: a different perspective of the host-pathogen interaction <i>Aura Muntasell, Carlos Vilches, Ana Angulo and <u>Miguel López-Botet</u> (Barcelona, Spain)</i>		2:15 pm - 2:30 pm.	2. Stimulation of CD4+ and CD8+ T-cells by human cytomegalovirus-infected autologous dendritic cells as a new tool for the study of HCMV and Immunosenescence <i>F. Bruno, E. Gabanti, D. Lilleri, C. Fornara, M.G. Revello and <u>G. Gerna</u> (Pavia, Italy)</i>	5:15 pm - 5:30 pm	2. Life-long persistent viral infection alters the naïve T-cell pool, impairing CD8 T-cell immunity in late life <i><u>Megan J. Smythey</u>, Gang Li, Vanessa Venturi, Miles P. Davenport and Janko Nikolich-Zugich (Tucson, Arizona, USA)</i>
9:45 am - 10:00 am	4. Gamma-delta T cells and CMV-mediated immunosenescence <i><u>Julie Dechanet-Merville</u> (Bordeaux, France)</i>		2:30 pm - 2:45 pm	3. Age-related changes in circulating T cell subset phenotype and T cell receptor (TCR) diversity in cytomegalovirus(CMV)-negative humans <i>Anne M. Wertheimer, Michael S. Bennett, Byung Park, Carmine Martinez, Noreen Currier, Jennifer Uhrlaub, Dragana Nikolich-Zugich, Jose Padilla, Jeffrey Kaye and <u>Janko Nikolich-Zugich</u> (Tucson, Arizona, USA)</i>	5:30 pm - 5:45 pm	3. MCMV infection does not impair absolute CD8 T-cell responses to a virus challenge <i>Thomas F. Marandu, Irina Dekhtiareenko, <u>Luka Čičin-Šain</u> (Braunschweig, Germany)</i>
10:00 am - 10:15 am	5. Differential impact of age and CMV infection on the γδ T-cell compartment <i>Delphine Sauce, Antoine Roux, Gisèle Mourin, Martin Larsen, Solène Fastenackels, AlejandraUrrutia, Brigitte Autran, DanielSidi, Joyce Sibony, Prat,Marc, Stern and Victor Appay (Paris, France)</i>				5:45 pm - 6:00 pm	4. mCMV alters the airway inflammatory milieu regulating protective and pathogenic heterologous immunity to influenza A virus infection <i>Shalini Sharma, Susu Duan and <u>Paul G Thomas</u> (Memphis, TN, USA)</i>
10:15 am - 10:45 am	Discussion		2:45 pm - 3:00 pm	4. CMV is associated with a robust immune response in young but not older adults <i><u>David Furman</u>, Vladimir Jojic, Shai Shen-Orr, Suna Onengut-Gumuscu, Brian Kidd, Holden T Maecker, Patrick Concannon, Cornelia L Dekker and Mark M Davis (Stanford, CA, USA)</i>	6:00 pm - 6:15 pm	Discussion
10:45 am - 11:15 am	Coffee Break				6:15 pm - 7:00 pm	ROUND TABLE WITH OUTSTANDING QUESTIONS OF THE DAY Chair: <i>Graham Pawelec</i>
	SESSION II. HCMV-HOST INTERACTION (II): remodelling of CD8+ T cell compartment. Chair: <i>Mark Wills</i>				8:30 pm	Gala Dinner
11:15 am - 11:30 am	1. How do CD45RA⁺ low avidity HLA-A*0201 CMV specific cells accumulate? <i><u>NE Riddell</u>, SJ Griffiths, PD Rymkiewicz, V Libri, L Rivino, J Nikolich-Zugich, MD Kemen, F Kern, A Larbi, AN Akbar (London, UK)</i>		3:00 pm - 3:15 pm	Discussion Chair: <i>Florian Kern (B)</i>		
11:30 am - 11:45 am	2. hCMV-specific CD8+ T cells from lymph nodes Can be recruited into the periphery upon hCMV Reactivation <i><u>EBM Remmerswaal</u>, PL Klarenbeek, ME Doorenspleet, BDC van Schaik, van Donselaar, F Bemelman, REE Esveldt, AH van Kampen, F Baas, A ten Brinke, N de Vries, RAW van Lier, IJM ten Berge (Amsterdam, The Netherlands)</i>		3:15 pm - 3:30 pm	1. A more late-differentiated CD8 compartment is associated with a higher anti-CMV neutralising antibody capacity in the elderly <i><u>Evelyna Derhovanessian</u>, Wim Adriaensen, Katrin Schweinzer, Klaus Hamprecht, Catharina Matheï, Bert Vaes, Gijs Van Pottelbergh, Jan Degryse, Graham Pawelec (Tübingen, Germany)</i>	8:30 am - 8:45 am.	1. CMV-specific T cells with highly effector capacity are associated with two-year all-cause mortality in healthy elderly individuals <i><u>S. Ferrando-Martinez</u>, E. Ruiz-Mateos, R.S. de Pablo-Bernal, J. Delgado, R. Solana, M.A. Muñoz-Fernandez, M. Leal (Madrid, Spain)</i>
					8:45 am - 9:00 am	2. Longitudinal Association between Immune Response to Cytomeg lovirus and Depression/Depressive Symptoms <i><u>Amanda M. Simanek</u>, Helen Meier, Jennifer Beam Dowd, Allison Aiello (Ann Arbor, MI, USA)</i>