



International HLA
and Immunogenetics
Workshop



26th European Immunogenetics
and Histocompatibility
Conference



23rd British Society
of Histocompatibility and
Immunogenetics Conference

Liverpool
28 May – 3 June 2012



Workshop Projects

- Stem Cell Transplantation

International Histocompatibility Working Group in Hematopoietic Cell Transplantation

Established 1996

- International collaboration: **37** laboratories, **240** transplant centers and **21** transplant and donor registries.
- Database: **20,000** unrelated transplants as of December, 2010.
- International HLA Workshops:
 - 13th Victoria, Canada 2002
 - 14th Melbourne, Australia 2005
 - 15th Buzios, Brazil 2008
 - 16th Liverpool, UK 2012



HCT Working Group

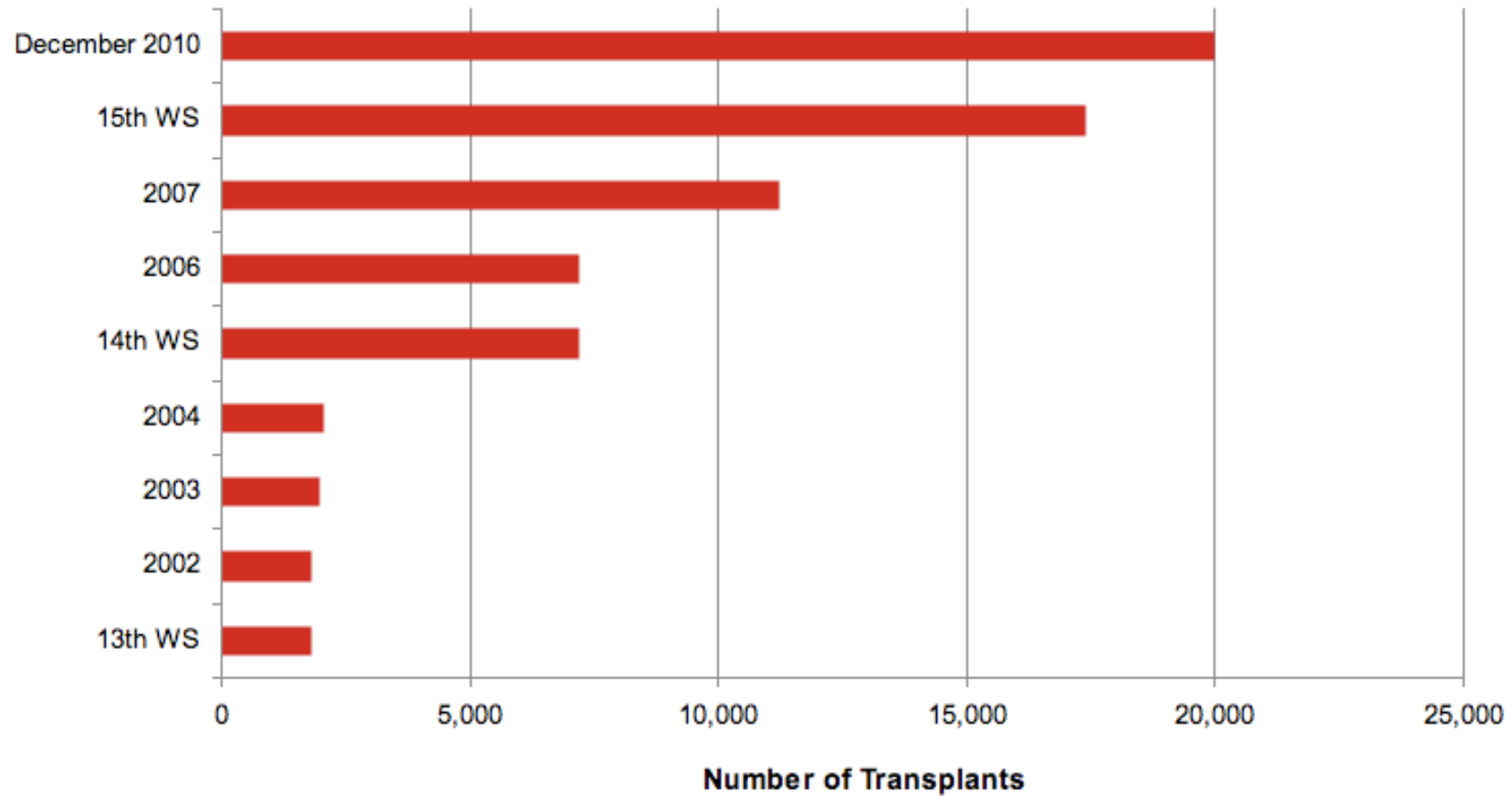
Australia	Jeremy Chapman, Jim McCluskey, Frank Christiansen, Peter Bardy, Campbell Witt, Heather Dunckley, Zlatibor Velickovic, John-Paul Hogbin, Greg Bennett, Ian Humphries, Patrick Hogan, Rhonda Holdsworth, Ian Nicholson, Simon Knowles, Mike Varney, Carmel Kanaan, Mary Diviney, Brian Tait, Linda Smith
Austria	Wolfgang Mayr, Gottfried Fischer
Belgium	Marie-Paule Emonds, Marc A. Boogaerts, Tribaut Gervais, Augustin Ferrant, Dominique Latinne
Brazil	Noemi Pereira, Ricardo Pasquini
Canada	Marlis Schroeder, Luvinia Kwan, Shaunna Kawaleski
Czech Republic	Jindra Pavel, Vladimir Koza, Petra Venigova
Denmark	Mette Voldby Larsen, Soren Buus, Ilka Hoof, Ole Lund
France	Colette Raffoux, Jean Dausset, Jean-Denis Bignon, Eliane Gluckman , Katia Gagne, Valerie Dubois, Lucette Gebuhner, Agnes Moine, Lena Absi, Dominique Charron, Pascale Loiseau, Monique Bois, Marie-Lorraine Appert, Marc Busson, Anne Dormoy, Dominique Masson, Muriel DeMatteis, Christophe Picard, Agnes Basire, Coralie Frassati, Anne Cambon-Thomsen, Pierre Antoine Gouillard
Germany	Gerhard Ehninger, Carlheinz Muller, Shraga Goldman, Ekkehard Albert Dietger Niederwieser, Ute Hegenbart, Martin Bornhauser, Monika Fuessel
Italy	Domenico Adorno, Sonia Nesci, Miryam Martinetti, Angelica Canossi, Paolo Di Bartolomeo, Annamaria Pasi, Emilio Paolo Alessandrino, Giuseppe Visani, Katarina Fleischhauer, Elisabeta Zino, Andrea Velardi



Japan	Takehiko Sasazuki, Takakazu Kawase, Takeo Juji, Yoshika Kodera, Yasuo Morishima, Satoko Morishima
Netherlands	Jan van Rood, Machteld Oudshoorn, Jan Cornelissen, Marcel Tilanus, John Lee, Martin Heemskerk, Anja van Biezen
Norway	Torstein Egeland, Erik Thorsby, Lorentz Brinch
South Africa	Ernette DuToit, Peter Jacobs, Sister Lucille Wood
Sweden	Mats Bengsson, Olle Olerup, Olle Ringden, Marie Schaffer
Switzerland	Jean-Marie Tiercy, Alois Gratwohl, U. Schanz, R. Seger, Jacob Passweg
Taiwan	Tsung Dao Lee
United Kingdom	John Goldman, Alejandro Madrigal, Steven Marsh, Bronwen Shaw, Ann-Margaret Little, Anne Dickinson, Kim Pearce, Arlene Frater, Brendan Clarke, Gordon Cook, Cristina Navarrete, Carmen Ruiz de Elvira, Marco Miretti
USA	Mary Horowitz, Steve Spellman, Michelle Setterholm, Michael Haagenson, Martin Maiers, Loren Gragert, Waleska Perez, Seth Ketelsen, Doug Rizzo, Mary Carrington, Katharine Hsu, Bo Dupont, Michelle Chiu, David Senitzer, John Hansen, Gary Schoch, Jeff Venstrom, Gianfranco Pittari
Registries	ABMDR, ANRC, CIBMTR/NMDP, EBMT, Europdonor, JMDP, SFGM, Typhon
NIH	NCBI, NLM; Francesca Macchiarini, Mike Feolo,
Seattle Lab	Mari Malkki, Mark Gatterman, Dawn Moran, Charlie Du
Biostatistics	Ted Gooley, John Klein, Tao Wang

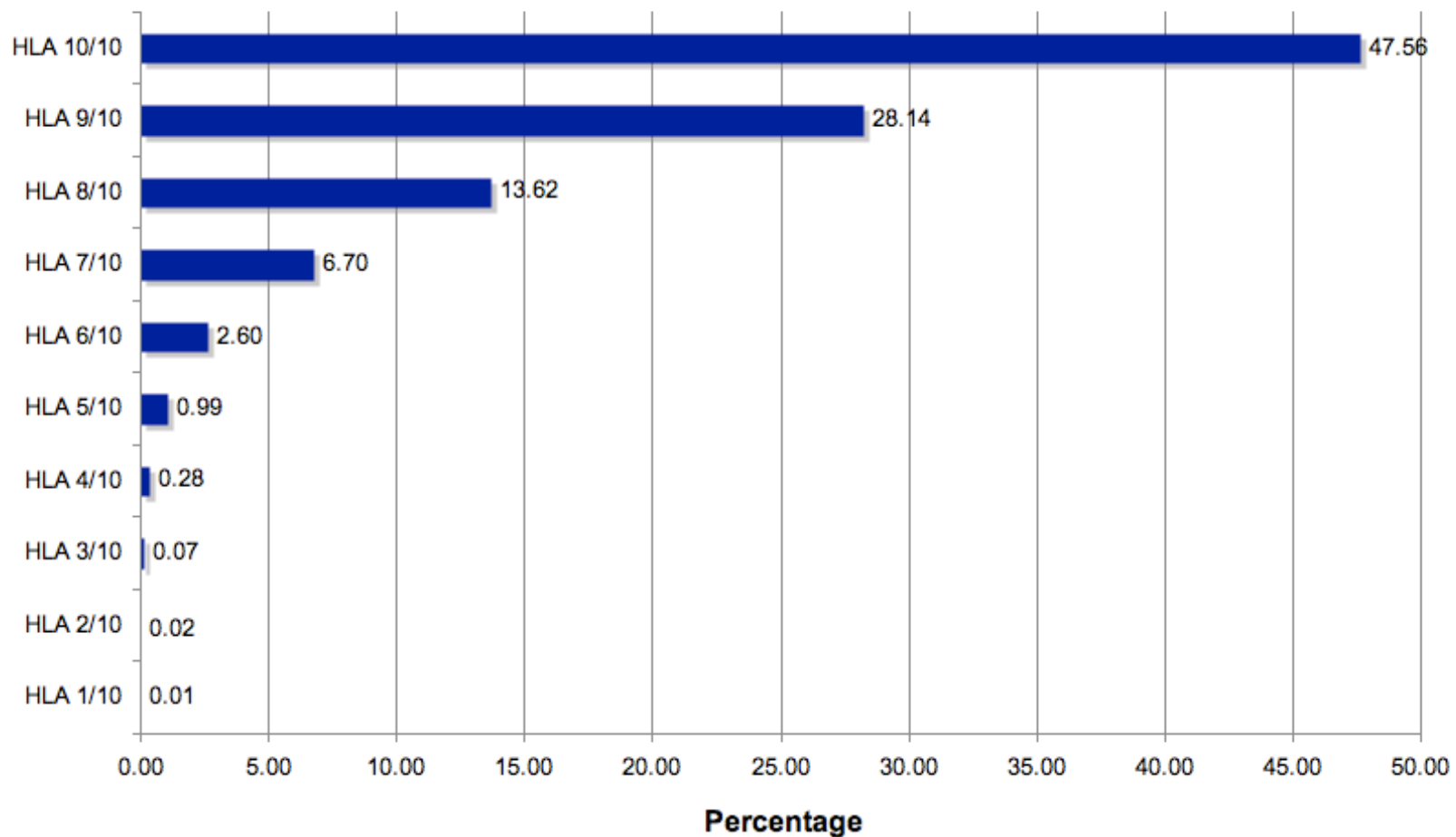


IHWG Database Submissions



December 2010

HLA Match Status in the IHWG Dataset (N=18,786 Pairs)



December 2010

IHWG HCT Ongoing studies

I. HLA and Clinical Outcome

- A. Clinical Significance of HLA Matching in Unrelated Donor Hematopoietic Cell Transplantation. Effie Petersdorf
- B. Impact of Donor-Recipient Ethnicity on Risk of Acute GVHD among Unrelated Transplants. Yasuo Morishima, Takakazu Kawase, Satoko
- C. HLA Mismatching: Epitopes. Effie Petersdorf
- D. The Effect of a Single MHC Class I Mismatch with Numerous Sequence Differences on the Clinical Outcome of Unrelated Haematopoietic Stem Cell Transplantation. Martin Heemskerk, Machteld Oudshoorn, Jon van Rood and Frans Claas
- E. HLA-DP Epitopes. Bronwen Shaw, Katharina Fleischhauer and Elisabetta Zino
- F. Universally Significant HLA-C Mismatched Epitopes Responsible for Immunological Events after Unrelated Donor Transplantation. Takakazu Kawase, Keitaro Matsuo, Yasuo Morishima
- G. MHC Haplotypes and Clinical Outcome after Unrelated HCT. Effie Petersdorf
- H. HLA-DR15 and Transplant Outcome. Martin Stern and Alois Gratwohl
- I. Role of HLA Matching in Umbilical Cord Blood Transplantation

II. MHC region genetics

- MHC SNPs in Unrelated Donor and Cord Blood Transplantation. Effie Petersdorf

III. Cytokine and Immune Response Genes

- A. Clinical Impact of Variation in Cytokine and Immune Response Genes. Mari Malkki, John Hansen, Anne Dickinson, Effie Petersdorf on behalf of the IHWG
- B. Immune Response Genes: The French Experience. Valerie Dubois and Jean-Denis Bignon

IV. NK Receptors and HLA

- Katharine Hsu and Bo Dupont

V. Beyond Chr6: Minor Histocompatibility Antigens and Other Pathways

- A. Single nucleotide polymorphisms in the P53 Pathway (P53 and MDM2) and transplant outcome after unrelated haematopoietic stem cell transplantation (HCT). Bo Dupont
- B. Synergism Between Minor and Major Histocompatibility Antigens. Eric Spierings, Martin Stern, Alois Grathwohl