



Università degli Studi
di Perugia



Fourth International Workshop on Haploidentical Transplants

**Naples, Italy
July 8-10, 2004**



Cover photograph

The Bronze Chimera

A masterpiece of Etruscan art dating from the 6th century BC, the Chimera was found near the town of Arezzo, central Italy. It is now on show at the National Archaeological Museum, Florence, Italy.

Fourth International Workshop on Haploidentical Transplants

Naples, Italy
July 8-10, 2004

Dear Colleagues

Bruno Rotoli, Prof. of Haematology at the University of Naples, joins with us in welcoming you to his native city. With its centuries-long history of extraordinary academic tradition, Naples is, and has always been, one of the major historical and cultural capitals of the Mediterranean and we are pleased you are here to experience the unique charm and courtesy of this vibrant city under the shadow of Vesuvius.

Since the first Workshop on Haploidentical Stem Cell Transplantation in Eilat, Israel, we have shared ideas, viewpoints and cutting-edge science and biology in unflagging attempts to optimize transplant strategies for patients with haematological malignancies. The haploidentical transplant for acute leukaemias at high risk of relapse has certainly advanced clinically over the past ten years and is today considered a feasible alternative source of stem cells, taking its place beside transplants from matched unrelated donors and unrelated cord blood.

We are looking forward to hearing of your experience with the haploidentical transplant and to listening to updates on unrelated volunteer and cord blood transplants. We sincerely hope the European Registration Study on transplants from alternative donors will also provide indications on the best option for individual patients.

The contribution of each one of you will help create a stimulating forum and a fulcrum of innovative ideas.

We are also very proud to inform you that our workshop has been sponsored by the Leukaemia and Lymphoma Society.

Massimo F. Martelli
*Perugia University
Perugia - Italy*

Yair Reisner
*Weizmann Institute
Rehovot - Israel*

Speakers and Chairmen

| | |
|------------------|-------------------|
| S. Amadori | S. Mackinnon |
| I. Andrè-Schmutz | J.A. Madrigal |
| G. W. Arcese | F. Mandelli |
| J. Apperley | M.F. Martelli |
| F. Aversa | P. Martiat |
| E. Bachar-Lustig | S. Matthès-Martin |
| Z. Berneman | L.M. Nadler |
| B. R. Blazar | A. Nagler |
| D. Bunjes | D. Niethammer |
| R. Champlin | R.J. O'Reilly |
| N. J. Chao | R. Parkman |
| F. Ciceri | K. Perruccio |
| J. Cornish | J. Plum |
| M. Di Ianni | M. Qazilbash |
| M. Edinger | Y. Reisner |
| H. Einsele | V. Rocha |
| W.E. Fibbe | L. Romani |
| R. Foà | M.G. Roncarolo |
| F. Frassoni | B. Rotoli |
| W. Friedrich | J. Rowe |
| A. Gilman | L. Ruggeri |
| E. Guinan | M. Sadelain |
| E. Gluckman | S. Slavin |
| R. Handgretinger | H.J. Stauss |
| G. Holländer | M. Sykes |
| M. Horowitz | K.W. Sykora |
| L. Kanz | A. Tabilio |
| K. Kärre | M. Van Den Brink |
| U. Köhl | A. Velardi |
| H. J. Kolb | M. Vignetti |
| P. Lang | S. Vuk-Pavlovic |
| T. Lapidot | H. Waldmann |
| F. Locatelli | I. Walker |
| M. Lowdell | E. Waller |
| R. Lowsky | D. Zipori |

Programme

Thursday, 8th July

07.00 pm Welcome Reception

Friday, 9th July

08.00 am **Inauguration**

Bruno Rotoli, *University of Naples*

Sergio Amadori, *President, Italian Society of Hematology*

Opening Remarks

Massimo F. Martelli, *University of Perugia*

Session I

CLINICAL RESULTS OF TRANSPLANTATION FROM ALTERNATIVE DONORS FOR ACUTE LEUKAEMIA

Unrelated Volunteer and Umbilical Cord Blood Transplants

Chair: *F. Mandelli and E. Gluckman*

- 08.20 am Results from IBMTR in adults - *M. Horowitz (USA)*
08.40 Cord blood transplant in children - *E. Gluckman (France)*
09.00 Cord blood transplant in adults - *G.W. Arcese (Italy)*

09.20 Full Haploidentical Mismatched Transplants

Keynote Lecture: Crossing the HLA Barriers

Yair Reisner (Israel) - introduced by F. Aversa

Where we stand with adults

Chair: *M.F. Martelli and J. Rowe*

- 09.50 am In Perugia - *F. Aversa (Italy)*
10.10 In Munich - *H.J. Kolb (Germany)*
10.20 In Haifa - *J. Rowe (Israel)*
10.30 In Ulm - *D. Bunjes (Germany)*
10.40 In Milan - *F. Ciceri (Italy)*
10.50 In Brussels - *P. Martiat (Belgium)*
11.00 In Canada - *I. Walker (Canada)*
11.10 Clinical outcome and immune reconstitution following alemtuzumab T cell depleted non-myeloablative allogeneic immunotherapy from HLA-mismatched family members - *N.J. Chao (USA)*

- 11.20 am *Coffee Break*

Where we stand with children

Chair: *D. Niethammer and S. Amadori*

- 11.40 am In Pavia - *F. Locatelli (Italy)*
11.50 In Memphis - *R. Handgretinger (USA)*
12.00 In UK - *J. Cornish (UK)*
12.10 In Vienna - *S. Matthès-Martin (Austria)*
12.20 In Hannover - *K.W. Sykora (Germany)*
12.30 In Kansas City - *A. Gilman (USA)*
12.40 In Tübingen - *P. Lang (Germany)*
12.50 In Frankfurt - *U. Köhl (Germany)*
01.00 A comparative analysis of non-identical marrow versus blood cell grafts in congenital disorders - *W. Friedrich (Germany)*

- 01.10 **Critical Review - *Z. Berneman (Belgium)***

01.30 pm *Buffet Lunch at Hotel Royal*

Session II

OPEN FORUM ON INOCULUM IN HAPLOTRANSPLANTS

Chair: V. Vuk-Pavlovic

- 03.00 pm New insights into stem cell selection - *A. Tabilio (Italy)*
03.15 Advances in graft-engineering techniques for haploidentical transplantation - *R. Handgretinger (USA)*
03.30 Host-friendly donor T-cell infusions: How friendly? How manufacturable? - *S. Vuk-Pavlovic (USA)*
03.45 Open Discussion and Summary - *S. Vuk-Pavlovic (USA)*

Session III

GRAFT VS LEUKAEMIA EFFECT WITHOUT GRAFT VS HOST DISEASE

- 04.00 pm **Keynote Lecture: NK cells**
K. Karre (Sweden) - introduced by A. Velardi

04.30 *Tea Break*

GvL in Haematological Malignancies

Chair: L. Kanz and J. Kolb

- 04.45 NK cell alloreactivity for AML therapy - *A. Velardi (Italy)*
05.00 Targeting tumours with genetically enhanced T lymphocytes - *M. Sadelain (USA)*
05.15 PR1 vaccine-induced immunological and clinical responses in myeloid malignancies - *M. Qazilbash (USA)*
05.30 WT1 as GvL target antigen - *H.J. Stauss (UK)*
05.45 T cell mediated GvL - *J.A. Madrigal (UK)*
06.00 Prevention of GvHD while preserving GvL effect after selective depletion of host-reactive T cells by photodynamic cell purging
N.J. Chao (USA)

Session IV

RESTORING IMMUNE RESPONSES TO PATHOGENS

- 06.15 pm **Keynote Address: Rebuilding Immunity**
L.M. Nadler (USA) - introduced by M.F. Martelli

08.00 pm *Gala Dinner at Castellammare di Stabia*

Saturday, 10th July

Session IV

RESTORING IMMUNE RESPONSES TO PATHOGENS

Boosting T Cell Maturation

Chair: R. Parkman and R. Champlin

- 08.30 am Notch receptor as key target for boosting T cell differentiation in man - *J. Plum (Belgium)*
- 08.45 Effects of keratinocyte growth factor on post-BMT immunological recovery - *B.R. Blazar (USA)*
- 09.00 The role of IL-7 in post-transplant immune reconstitution - *M. Van den Brink (USA)*
- 09.15 Restoring thymic epithelial cell function in haplotransplants - *G. Holländer (Switzerland)*
- 09.30 Enhancement of stem cell repopulation and mobilization via SDF-1/CXCR4 interactions - *T. Lapidot (Israel)*
- 09.45 Engineering human mesenchymal cells with the IL-7 gene - *M. Di Ianni (Italy)*

Adoptive Immune Therapy with Anergized/Regulatory T-Cells and Allodepleted T-Cells

Chair: R.J. O'Reilly and R. Foà

- 10.00 am Adoptive immune therapy with anergized regulatory Tr1 cells and allodepleted T cells - *M.G. Roncarolo (Italy)*
- 10.15 Role of regulatory T cells in allogeneic BMT - *B.R. Blazar (USA)*
- 10.30 Immunoregulation after stem cell transplantation by donor CD4 + /CD25 + regulatory T cells - *M. Edinger (Germany)*
- 10.45 Novel strategies to address delayed immune reconstitution after haplo-transplantation in adults - *E. Waller (USA)*
- 11.00 Adoptive immunotherapy with allodepleted T cells
I. André-Schmutz (France)
- 11.15 Ex-vivo alloreactive T cell depletion with anti-CD69 effects on anti-viral immune-reactivity and donor NK cell function
M. Lowdell (UK)

11.30 am *Coffee Break*

Adoptive Immune Therapy With Pathogen-Specific Effectors

Chair: F. Locatelli and A. Nagler

- 11.45 am Adoptive T cell therapy for CMV viremia - *S. McKinnon (UK)*
- 12.00 Prospects for dendritic cell vaccination against fungal infections in haematopoietic transplantation - *L. Romani (Italy)*
- 12.15 Restoring immune responses to pathogens - CMV
H. Einsele (Germany)

- 12.30 Transferring donor immunity to pathogens across the HLA barrier
K. Perruccio (Italy)
- 12.45 Developing strategies for adoptive therapy for viral infections following transplant - *R.J. O'Reilly (USA)*
- 01.00 pm *Lunch at Hotel Royal*
- 02.30 pm **Keynote Lecture: Mesenchymal Stem Cells. Harnessing Cell Plasticity for Tissue and Organ Repair**
D. Zipori (Israel) - introduced by W.E. Fibbe
- Tolerance Induction**
Chair: B. Blazar and M.G. Roncarolo
- 03.00 Tolerance induction by veto CTLs and Rapamycin: defining the minimal non-radiation conditioning required to allow durable chimerism - *E. Bachar-Lustig (Israel)*
- 03.15 NK cell conditioning for tolerance induction to mismatched T replete transplants - *L. Ruggeri (Italy)*
- 03.30 Induction of tolerance to mismatched allografts by clonal deletion of alloreactive cells - *S. Slavin (Israel)*
- 03.45 The role of mesenchymal stem cells in immune modulation and haematopoietic engraftment - *W.E. Fibbe (The Netherlands)*
- 04.00 Mixed chimerism and tolerance - *M. Sykes (USA)*
- 04.15 Tolerance induction and NK T cells in combined haematopoietic cell and organ transplantation - *R. Lowsky (USA)*
- 04.30 Costimulatory blockade ex vivo: results of 2 pilot clinical trials
E. C. Guinan
- 04.45 Mechanisms underlying infectious tolerance - *H. Waldman (UK)*
- 05.00 pm *Tea Break*
- Session V**
- PANEL DISCUSSION ON ALTERNATIVE DONORS AND REGISTRATION STUDIES**
Chair: B. Rotoli, F. Frassoni, E. Gluckman, M.F. Martelli and Y. Reisner
- 05.30 **EBMT** - *V. Rocha (France)*
- 06.00 **GIMEMA** - *M. Vignetti (Italy)*
- 06.30 **Concluding Remarks**
M.F. Martelli
Y. Reisner
B. Rotoli

Social Programme

Thursday, 8th July

07.00 pm Welcome Reception

Friday, 9th July

Boat Trip to Capri

Gala Dinner at Castellammare di Stabia

Saturday, 10th July

Sightseeing and Shopping in Naples

Sunday, 11th July

Guided Tour of Pompeii

Official Sponsor

**THE LEUKEMIA
&
LYMPHOMA SOCIETY**



SCIENTIFIC COMMITTEE

M.F. Martelli
Y. Reisner
F. Aversa
A. Tabilio
A. Velardi
B. Rotoli

SCIENTIFIC SECRETARIAT

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