### WORKSHOPS

#### DAY ONE  WEDNESDAY MAY 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Speakers/Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am – 10:00 pm</td>
<td><strong>MEETING REGISTRATION OPENS</strong></td>
<td>McArthur Ballroom Foyer</td>
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<tr>
<td>12:30 pm – 6:00 pm</td>
<td><strong>FLOW CYTOMETRY WORKSHOP</strong></td>
<td></td>
<td>Chair: Lawrence S. Lamb, Jr. [DakoCytomation, BD Biosciences, Beckman Coulter]</td>
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<tr>
<td>12:30 pm – 2:30 pm</td>
<td><strong>SESSION I: STANDARDIZATION OF CYTOMETRIC TESTING</strong></td>
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<td><strong>Speakers</strong></td>
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<td>Jan Gratama</td>
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<td><em>Standardization of enumeration of antigen-specific cd8+ T cells by tetramer technology</em></td>
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<td>Nicholas Greco</td>
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<td><em>Characterization of cord blood CD34+ cell subpopulations: appearance of apoptotic cells after cryopreservation</em></td>
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<td>Michael Keeney</td>
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<td><em>Issues in standardization of CD34 counts in hematopoietic transplantation</em></td>
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<td>2:30 pm – 3:30 pm</td>
<td><strong>SESSION II: REPORT FROM THE WORKING GROUP ON HIGH SPEED CELL SORTING FOR CLINICAL USE</strong></td>
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<td><strong>Speakers</strong></td>
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<td>Gerald Marti</td>
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<td>David Coder</td>
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<td>4:00 pm – 6:00 pm</td>
<td><strong>SESSION III: CYTOMETRIC APPLICATIONS IN BIOTHERAPY/IMMUNOTHERAPY</strong></td>
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<td><strong>Chair: Maryalice Stetler-Stevenson, MD, PhD., National Cancer Institute, Bethesda, MD, USA</strong></td>
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<td><strong>Speakers</strong></td>
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<td>Sivasubramanian Baskar</td>
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<td><em>Immunotherapy of human follicular lymphoma: T cell responses to tumor associated antigens</em></td>
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<td>Robert Kreitman</td>
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<td><em>Recombinant immunotoxins for treatment of hematologic malignancies</em></td>
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<td>Mark Lowdell</td>
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<td><em>Flow cytometric assays to monitor immune responses to leukaemia</em></td>
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<td>Maryalice Stetler-Stevenson</td>
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<td><em>The role of clinical flow cytometry in antibody based therapies</em></td>
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<td>McArthur Ballroom Salon 3</td>
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<td>7:00 pm – 10:00 pm</td>
<td><strong>cGTP WORKSHOP</strong></td>
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<td><strong>Speakers</strong></td>
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<td>Joyce Frey-Vasconcells</td>
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<td><em>Introduction to the regulation of cells and tissues</em></td>
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<td>Ruth Solomon</td>
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<td><em>Background and registration final rule</em></td>
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<td>Maryalice Stetler-Stevenson</td>
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<td><em>Current good tissue practice</em></td>
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<td>McArthur Ballroom Salons 1 and 2</td>
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**Speakers:**
- Janice Davis-Sproul
- John McMannis
- Lawrence S. Lamb, Jr.
- Nicholas Greco
- Michael Keeney
- Gerald Marti
- David Coder
- Sivasubramanian Baskar
- Robert Kreitman
- Mark Lowdell
- Maryalice Stetler-Stevenson
DAY TWO  THURSDAY MAY 29

7:30 am – 4:45 pm
**CGTP WORKSHOP**
Chairs: Janice Davis-Sproul and John McMannis

8:00 am – 9:15 am
**Development Of A Quality Management Plan**
Panel
Donna Przepiorka (Chair), Shelley Heimfeld, Linda Kelley, Mary Malarkey, Donna Regan

10:00 am – 11:15 am
**Adverse Reactions/Deviation Reports/Corrective Actions**
Panel
Cindy Elliott (Chair), Brenda Alder, Diane Kadiidlo, Mary Malarkey, Robert Preti, Elizabeth Read

1:00 pm – 2:15 pm
**Validation Of Computerized Systems**
Panel
Scott Burger (Chair), Janis Halvorsen, Safa Karandish, Elizabeth Read, Linda Weir

3:00 pm – 4:15 pm
**Product Import And Export Issues**
Panel
Chatchada Karanes (Chair), Carolyn Keever-Taylor, Mary Malarkey, Michael Strong
McArthur Ballroom Salons 1 and 2

12:00 noon – 10:00 pm
**ISCT EXHIBIT AND POSTER SET-UP**
Frank Lloyd Wright Ballroom

5:00 pm – 7:00 pm
**MILTENYI BIOTEC CORPORATE SYMPOSIUM**
**Miltentyi Biotec**
The Potential of Cellular Engineering and Therapy
Chair: Jeffrey Miller
Speakers
- R. Sorg
  *Clinical-scale generation of dendritic cells for immunotherapy*
- G. Hartmann
  *Immunotherapy of H&N tumors*
- J. Miller
  *Adaptive immunotherapy using haploidentical natural killer (NK) cell infusions: Implications for cancer and stem cell transplantation*
- K. Komanduri
  *Adaptive immunotherapy with CMV-specific T cells*
- A. Kocher
  *Stem cell support in heart disease*

McArthur Ballroom Salon 3

WELCOME RECEPTION
Gold Room

7:00 pm – 8:00 pm
**BAXTER ONCOLOGY, DYNAI BIOTECH AND XCYTE THERAPIES CORPORATE SYMPOSIUM**
Emerging strategies utilizing cellular therapies to rebuild tissue and immune function in patients: from laboratory to the clinic
Chair: John Barrett
Speakers
- Doug Losordo
  *The role of CD34+ cells in coronary artery disease and peripheral vascular disease*
- Øystein Amellem
  *The identification and isolation of antigen specific T cells*
- Mark Bonyhadi
  *Growing T cells for immunotherapy: The process, the biology, current and future clinical applications*

McArthur Ballroom Salon 3
# Program

## Day Three: Friday May 30

### 7:00 am – 8:00 am

- **TB 1** Storage and Cryopreservation of Cell Products
  - Carlos Lee
  - McArthur Ballroom Salon 5

### 8:00 am – 9:20 am

- **Plenary Session I** Immunotherapy and Tumor Evaluation/MRD
  - Chair: John Barrett
  - **Lecture**
    - **Dendritic cells as a cellular vaccine for tumor immunotherapy**
      - Klaus Pantel
    - **Molecular signatures related to bone marrow micrometastasis in breast cancer**
      - McArthur Ballroom Salon 4

### 9:20 am – 9:55 am

- **Lunch**
  - Frank Lloyd Wright Ballroom

### 10:10 am – 12:10 pm

- **Educational Session 1** Immunotherapy
  - Chair: Jeffrey Molldrem
  - **Lecture**
    - **CMV-specific immune reconstitution and immunodominance**
      - Robert Negrin
    - **Real-time modeling of adoptive immunotherapy**
      - Robert Vonderheide
    - **Adaptive immunotherapy targeting universal tumor antigens**
      - Albert Donnenberg
    - **Reconciling vaccines with dose-intensive therapy**
      - McArthur Ballroom Salons 1 and 2

- **Educational Session 2** Tumor Evaluation/MRD
  - Co-Chairs: Graham Sharp and Klaus Pantel
  - **Lecture**
    - **Comparative analysis of immunocytochemistry (ICC), automated ICC, flow cytometry and RT-PCR in breast cancer patients**
      - Michael Speicher
    - **Advanced cytogenetic analysis of metastatic tumor cells**
      - Gunnar Kvalheim
    - **Latest clinical data on the Norwegian breast cancer micrometastases study**
      - Graham Sharp

### 12:10 pm – 1:10 pm

- **Lunch**
  - Frank Lloyd Wright Ballroom

- **Simultaneous Plenary Session A** Immunotherapy
  - Chair: Jeffrey Molldrem
  - **Lecture**
    - **CMV-specific immune reconstitution and immunodominance**
      - Robert Negrin
    - **Real-time modeling of adoptive immunotherapy**
      - Robert Vonderheide
    - **Adaptive immunotherapy targeting universal tumor antigens**
      - Albert Donnenberg
    - **Reconciling vaccines with dose-intensive therapy**
      - McArthur Ballroom Salons 1 and 2

### 1:10 pm – 2:10 pm

- **Educational Session 2** Tumor Evaluation/MRD
  - Chairs: Klaus Pantel and Gunnar Kvalheim
  - **Lecture**
    - **Comparative analysis of immunocytochemistry (ICC), automated ICC, flow cytometry and RT-PCR in breast cancer patients**
      - Michael Speicher
    - **Advanced cytogenetic analysis of metastatic tumor cells**
      - Gunnar Kvalheim
    - **Latest clinical data on the Norwegian breast cancer micrometastases study**
      - Graham Sharp

### 2:15 pm – 3:15 pm

- **Workshop 1** Immunotherapy
  - Chair: Jeffrey Molldrem
  - **Lecture**
    - **Ex Vivo Expansion**
      - Chairs: Elizabeth Shpall and John McMannis
      - McArthur Ballroom Salon 1

### 3:15 pm – 4:15 pm

- **Break and Exhibits**
  - Frank Lloyd Wright Ballroom

### 3:40 pm – 4:40 pm

- **Oral Abstract Presentations**
  - **Ex Vivo Expansion**
    - Chairs: Elizabeth Shpall and John McMannis
    - McArthur Ballroom Salon 1

### 4:45 pm – 5:45 pm

- **Oral Abstract Presentations**
  - **Ex Vivo Expansion**
    - Chairs: Jeffrey Molldrem and John Barrett
    - McArthur Ballroom Salon 1

### 6:00 pm – 7:30 pm

- **Poster Viewing**
  - Frank Lloyd Wright Ballroom

### 7:30 pm – 8:30 pm

- **Member Services Committee Meeting**
  - Kaibab

### 8:30 pm – 10:30 pm

- **ISCT Executive Committee and Advisory Board Meeting**
  - Grand Canyon

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**Notes:**

- All lectures are in McArthur Ballroom Salon except where noted.
- All sessions are subject to change without notice.
- Participate in the ISCT 2011 Annual General Meeting on May 16, 2011.
- Attend the ISCT Executive Committee and Advisory Board Meeting on May 29, 2011.
### Day Four Saturday May 31

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Workshop</th>
<th>Location</th>
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</table>
| 7:00 am – 8:00 am | **TB 7** Storage and Cryopreservation of Cell Products  
**TB 8** Evaluation of the Apheresis Product – from Collection to Reinfusion  
**TB 9** Facility Design  
**TB 10** In Vitro Assays for Hematopoietic Progenitors (CFC, CAFC, LTCIC, etc.)  
**TB 11** Analysis of Immune Reconstitution Post-Transplant, i.e., Spectratyping, TREC Assays, Eli Spots  
**TB 12** Ask the Experts: Regulatory  | Carlos Lee  
Robert Sutherland and Michael Keeneey  
Doug Padley and Scott Burger  
Rob Ploemacher and Emer Clarke  
Matthias Eyrich  |
| 8:00 am – 9:20 am | **PLENARY SESSION II**  
Gene Therapy & Hematopoietic Stem Cell Transplantation  
Chair: Helen Heslop  
Malcolm Brenner *How gene transfer may contribute to cellular therapies*  
Brenda Sandmaier *The future of allogeneic hematopoietic stem cell transplantation*  | McArthur Ballroom Salon 4        |
| 9:20 am – 12:00 noon | **BREAK AND EXHIBITS**  
Frank Lloyd Wright Ballroom  | Secure Biosciences               |
| 12:00 noon – 1:00 pm | **LUNCH**  
Frank Lloyd Wright Ballroom  | Genzyme                          |
| 1:00 pm – 2:00 pm | **EDUCATIONAL SESSION 4**  
Gene Therapy  
Scott Burger, Bambi Grilley and Helen Heslop  | McArthur Ballroom Salon 1        |
| 2:05 pm – 3:05 pm | **WORKSHOP 4**  
Gene Therapy  
Catherine Bollard, Joseph Fratantoni and Isabelle Riviere  | McArthur Ballroom Salon 1        |
| 3:05 pm – 4:00 pm | **BREAK AND EXHIBITS**  
Frank Lloyd Wright Ballroom  | Secure Biosciences               |
| 3:30 pm – 4:30 pm | **EDUCATIONAL SESSION 7**  
Graft Evaluation  
Katarina Le Blanc and Hans Johnsen  | McArthur Ballroom Salon 1        |
| 4:35 pm – 5:35 pm | **WORKSHOP 7**  
Graft Evaluation  
Robert Sutherland and Stephen Noga  | McArthur Ballroom Salon 1        |
| 5:40 pm – 6:40 pm | **ORAL ABSTRACT PRESENTATIONS**  
Graft Evaluation  
Chairs: John Jackson and Kevin Sheehan  | McArthur Ballroom Salon 1        |
| 7:30 pm | **ISCT 2003 BBQ**  
Grand Ballroom and Squaw Peak Terrace  | AMGEN                            |
# PROGRAM

**DAY FIVE SUNDAY JUNE 1**

<table>
<thead>
<tr>
<th>7:00 am – 8:00 am</th>
<th>TB 13 CD 34 Selection</th>
<th>TB 14 Dendritic Cell Preparation</th>
<th>TB 15 Characterization of T Cell Products for Immunotherapy</th>
<th>TB 16 Detection and Primary Culture of Tumor Cells From Patients with Epithelial Malignancies</th>
<th>Publications Committee Meeting</th>
<th>Telegraft Editorial Board Meeting</th>
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<tr>
<td></td>
<td>Shelly Heimfeld</td>
<td>Charley Carter</td>
<td>Helen Huls</td>
<td>Panteli Theocharous</td>
<td>Prescott</td>
<td>Cameron</td>
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<td>McArthur Ballroom Salon 5</td>
<td>Sedona</td>
<td>Grand</td>
<td>Canyon</td>
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| 8:00 am – 9:20 am | **PLENARY SESSION III** Non-Hematopoietic Stem Cells & Evaluating Grafts for Long-Term Outcomes | 
|-------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------------------|----------------------------------|
|                   | Chair: Robert Negrin                                    | Edwin Horwitz                                             | Andrew Pecora                                             | Replication competent viruses as adjuncts to cell based immunotherapy | McArthur Ballroom Salon 4 |
|                   | Mesenchymal stem cell therapy: the new frontier         |                                                          |                                                          | McArthur Ballroom Salon 4 |
|                   |                                                            |                                                          |                                                          | McArthur Ballroom Salon 4 |
|                   |                                                            |                                                          |                                                          | McArthur Ballroom Salon 4 |

| 9:20 am – 9:45 am | **BREAK** | **9:45 am – 12:00 noon** | **SIMULTANEOUS PLENARY SESSION E** Non-Hematopoietic Stem Cells | 
|-------------------|-----------|------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------------------|----------------------------------|
|                   |           |                        | Chair: Edwin Horwitz                                      | Mesenchymal stem cells as progenitors of cardiac myocytes | Mark Pittenger |
|                   |           |                        |                                                        | Jonathon Hill | Mark Pittenger |
|                   |           |                        |                                                        | Mesenchymal stem cell therapy for cardiovascular disease; preparing for clinical trials | Jonathon Hill |
|                   |           |                        |                                                        | Peter Wernet | Jonathon Hill |
|                   |           |                        |                                                        | Myocardial regeneration with autologous bone marrow derived progenitor cells following infarction in men | Peter Wernet |
|                   |           |                        |                                                        | Donald Orlic | Peter Wernet |
|                   |           |                        |                                                        | Stem cells for myocardial regeneration: mouse and monkey models | Donald Orlic |
|                   |           |                        |                                                        |                               | McArthur Ballroom Salons 1 and 2 |
|                   |           |                        |                                                        |                               | McArthur Ballroom Salon 4 |

| 9:45 am – 12:00 noon | **SIMULTANEOUS PLENARY SESSION F** Evaluating Grafts for Long-Term Outcomes | 
|----------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------------------|----------------------------------|
|                      | Chair: Robert Negrin                                      | Carolyn Keever-Taylor                                      | Francesco Lanza                                           | Hans E. Johnsen                 | McArthur Ballroom Salon 4 |
|                      | Establishement of treatment algorithm for recipients of alternative donor grafts for the treatment of hematologic malignancies |                                                        |                                                          | Clinical registration studies on quality assessment of autografting | McArthur Ballroom Salon 4 |
|                      |                                                          |                                                          |                                                          | Shelly Heimfeld                 | McArthur Ballroom Salon 4 |
|                      |                                                          |                                                          |                                                          | Associations of CD34 cell dose with clinical outcomes in HLA-identical transplantation | McArthur Ballroom Salon 4 |

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**ISCT2003 ARIZONA**