27th Regional Congress of the ISBT
June 17 - 21, 2017
Copenhagen, Denmark

Final Programme
27th Regional Congress of the International Society of Blood Transfusion, Copenhagen, Denmark
June 17 - 21, 2017
Acknowledgements

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Dear Friends and Colleagues,

We – the local organizing and scientific committees – are looking forward to seeing you at the 27th Regional Congress of the International Society of Blood Transfusion in Copenhagen, Denmark, June 17-21, 2017.

With the help from multiple international reviewers and through a scientific meeting with the participation of recognized international experts the final educational and scientific programme with invited speakers, oral and poster presentations has been put together. We are happy that it seems to fulfill our aims for the congress so it will confront you with the frontiers of research and knowledge in transfusion medicine and related fields. We also hope to see you at Saturday’s local sessions to get the Scandinavian angle of our field.

However, the success of the congress depends on you! We hope you will challenge the invited speakers and presenters with intriguing questions and comments to secure lively discussions. We are looking forward to hearing about your research from your presentations and we hope you will use the congress to network with your peers and thereby create the foundation for further scientific progress.

You will also have the opportunity to visit the exhibition and learn about new contributions to health care from the exhibitors.

The congress party will be a highlight, if you have not already bought a ticket make sure you do so that you don’t miss the party.

The congress venue will be the Bella Center Copenhagen, just 6 km from Copenhagen International Airport (Kastrup) and 8 km from the city center. Both are within a few minutes from Bella Center Metro Station.

Last but not least: Enjoy the casual atmosphere of Copenhagen together with friends and colleagues.

On behalf of the local committee members,

Jørgen Georgsen
Congress President

Morten Bagge Hansen
Chairman of the Local Organizing Committee
Introduction

Dear Colleagues

It is my privilege and great pleasure to warmly welcome you to the 27th Regional Congress of ISBT that is taking place in the host city Copenhagen, Denmark. I trust that all of you have settled in and are looking forward to the next few days attending the many scientific sessions, lunch time symposia, Working Party meetings, exhibitions and social events. It is also a great opportunity to meet with friends and colleagues and make new acquaintances in what is regarded as one Northern Europe’s friendliest and welcoming cities. It is pleasing to note that in addition to the significant number of delegates from Europe, we will also be welcoming many delegates from different countries and regions of the world.

Copenhagen is the perfect location for this year’s meeting and provides delegates with a diverse range of tourism opportunities. Even if you will only be staying for the duration of the congress, there are some notable attractions such as the Tivoli Gardens amusement park, the statue of The Little Mermaid and the free town of Christiania that are easily accessible from the conference centre. The city has a rich history dating back to 1043 and today is the perfect blend of old and new. With a population of approximately 1.2 million people the city is renowned for its high level of safety, eco-friendly buildings, excellent transport system and most importantly its warm and welcoming people. We do hope that you will be able to join us for the Congress Party where we will be able to experience some local cuisine and culture.

The ISBT scientific secretary, working with various stakeholders including the local organising committee, working party chairs and ISBT Academy members have put together an excellent scientific programme where a number of invited speakers will speak on cutting edge science in transfusion medicine while there will also be a platform for delegates to showcase their research in the form of oral and poster presentations. Our industry partners have been hard at work in preparing their exhibit booths and I am sure we all look forward to visiting the Exhibition to look at the new technology and innovation on offer from the various companies.

I would like to express my heartfelt thanks to Jørgen Georgsen, the Congress President, Morten Bagge Hansen, the Chair of the Local Organising committee and their teams for their hard work leading up to this congress and for their generous hospitality. A special word of thanks go to our sponsors and exhibitors, our congress organizer MCI-Amsterdam, Ellen van der Schoot (ISBT Scientific Secretary) and the ISBT staff for all their support in making this a successful congress.

My fellow ISBT Board members and I look forward to interacting with you over the next few days and when the time comes to depart, I am sure we will all leave with a bit of Danish “hygge” and a longing to return to this beautiful city.

Ravi Reddy
ISBT President

Word of Welcome ISBT President

Future ISBT Congresses

- 28th Regional Congress of the ISBT, Guangzhou, People’s Republic of China, November 25 - 28, 2017
- 35th International congress of the ISBT, Toronto, Canada, June 02 - 06, 2018
- 29th Regional Congress of the ISBT, Basel, Switzerland, June 22 - 26, 2019
- 30th Regional Congress of the ISBT, Bangkok, Thailand, November 16 - 19, 2019

Website

Up-to-date information regarding the ISBT congress programme is available on the ISBT website: www.isbtweb.org
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We would like to thank all reviewers for their time and efforts in reviewing the
abstracts allocated to them:

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Arwa Al-Riyami (Oman)
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Congress Organisers

ISBT
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Congress Organisation and Official Housing Bureau
C/o MCI Amsterdam
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1062 HE Amsterdam
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T: +31 20 570 9600
W: www.isbtweb.org
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Congress Venue
Bella Center - West entrance
Center Boulevard 5
DK - 2300 København S
Copenhagen, Denmark
T: +45 3252 8811
W: www.bellacentercopenhagen.dk
An international community of professionals sharing knowledge to enhance transfusion practice

The International Society of Blood Transfusion (ISBT) is a scientific society that was founded in 1935. ISBT has grown into an international society where transfusion medicine professionals from across the globe come together and do the one thing they do best: share knowledge to enhance transfusion medicine practice worldwide. This goal is achieved by providing opportunities to advance knowledge and education e.g. this congress and through advocacy for the welfare of blood donors and transfusion recipients.

Professionals from over 110 countries already share their knowledge by being a member of ISBT. We have created an educational platform; the ISBT Academy ePortal. This eLearning facility contains a wealth of information and includes webcasts of ISBT congress presentations and a library of transfusion guidelines.

In addition we:
- Encourage and support the ISBT Working Parties that focus on the study of specific topics
- Publish the scientific journals Vox Sanguinis and The Science Series and provide other high quality educational print and electronic material.
- Organise international and regional congresses.
- Support and participate in workshops, seminars and congresses all over the world either financially or by use of the ISBT logo.
- Support professionals financially covering congress registration fee or ISBT membership fee.

ISBT Membership
As a member of ISBT you are part of a dynamic international society. Being a member will give you the following benefits:
- Access to the ISBT Academy ePortal (incl. congress webcasts and presentations)
- Subscription for Vox Sanguinis (paper + online)*
- Receipt of Transfusion Today (paper + online)*
- Registration discount at ISBT congresses
- Online access to Working Party materials
- Receipt of the monthly eNews
- Access to monthly ISBT Webinars
- Access to the ISBT Forum
* Online access only for 35 years and under fee

Take the opportunity to connect and participate in our growing transfusion medicine community and register yourself at www.isbtweb.org. You can also visit us at our booth, which will be located at number C3.422 in the exhibition area.
Transfusion Practitioners (TP) play a key role in driving and influencing clinical blood management activities, including Patient Blood Management (PBM) initiatives. The roles and activities they undertake are diverse, and they work under a number of different job titles such as Transfusion Nurses, Transfusion Safety Officers, Haemovigilance Officers, Patient Blood Management (PBM) Practitioners/Nurses, and other titles. Transfusion Practitioners play an integral role in the blood management team, with the common aim of supporting safe and appropriate care for patients.

The TP Forum has been established for all that have this integral role, and those interested in expanding or establishing this roles, to get together to share information and learn in this emerging practice area.

At this congress there will be two engaging sessions on Monday 19 June.

The first session being held from 1400-1530 looks at the TPs effect on Patient Blood Management (PBM) adoption and implementation. Topics will explore the challenges and sustainability of PBM programs, the role of the TP in addressing iatrogenic anaemia and maintaining a sustainability of O negative red cell supply.

The second session from 1530 -1700 is a more relaxed and interactive networking and Q&A session where the TPs with a group of other clinical champions will be sharing tools and tips of the trade. Please come along and learn more about the TP role and the many roles it plays in the blood sector and take the opportunity to connect with new and old congress colleagues.

Many of the TP Steering Committee will be at the Congress, so please do come and introduce yourself to Linley Bielby, Rachel Moss, Rozemarijn Deelen and Aman Dhesi.

The TP Forum also have their own online discussion forum, and information about how to join and access the forum will be covered during the interactive session.

The TPs look forward to you joining them in Room B51 on Monday.
Workshops

Monday, June 19 08:30 - 10:00  Room B41
WORKSHOP PEER REVIEWING SCIENTIFIC PAPERS
Moderators: Dana V. Devine, editor of Vox Sanguinis, and Pieter van der Meer, editor of The Science Series

Becoming involved in peer review can be very informative, help you with your own scientific writing and be a career enhancing experience. It is an opportunity to get yourself on the map and a good addition to your c.v.

The workshop is open to early career scientists who wish to offer themselves as peer reviewers and to find out how to navigate around the process. It is also open to current reviewers who wish to refresh their reviews or find out more about peer review within ISBT.

Monday, June 19 14:00 - 15:30  Room B41
WORKSHOP ON WRITING A SCIENTIFIC PAPER
Moderators: Dana V. Devine, editor of Vox Sanguinis, and Pieter van der Meer, editor of The Science Series

ISBT will offer a workshop on writing scientific papers for everyone from early career to experienced scientists who wish to learn, improve or refresh their writing skills. The workshop will help to learn more about how to structure a manuscript and how to develop and assemble these sections into a cohesive publication.
ISBT Working Parties & other meetings

All meetings will take place at the Bella Center
*= by invitation only

Friday, June 16
12:00 - 17:00  ISBT WP on Donors and Donation  B53

Saturday, June 17
08:30 - 17:00  ISBT WP on Transfusion Transmitted Infectious Diseases*  B51
08:30 - 17:00  ISBT WP on Information Technology*  B54
08:30 - 11:00  ISBT WP on Rare Donors  B42
11:30 - 13:45  ISBT WP on Red Cell Immunogenetics and Terminology*  B42
13:00 - 16:00  ISBT WP on Platelet Immunology*  B53
14:30 - 17:00  ISBT WP on Immunohaematology*  B42
16:30 - 18:30  ISBT WP on Clinical Transfusion*  B53

Sunday, June 18
08:30 - 12:00  ISBT WP on Haemovigilance  B51
14:30 - 17:30  ISBT WP on Global Blood Safety*  B51
08:30 - 17:30  ISBT WP on Information Technology*  B42 & B54
09:00 - 16:00  ISBT WP on Quality Management*  B41
13:30 - 14:30  ISBT WP on Cellular Therapies  B53
15:30 - 17:30  ISBT WP on Blood Supply Management  B53
14:00 - 15:30  I Try It Meeting - Part 1: Analyse & Write  B44

Monday, June 19
07:30 - 09:00  Presidents of the National Societies Meeting*  B53
08:30 - 10:00  Workshop on Peer Reviewing  B41
12:00 - 14:00  ISAC Meeting*  B53
14:00 - 15:30  Workshop on writing a Scientific Paper  B41
14:00 - 17:30  Transfusion Practitioners (TP) Session  B51
15:30 - 17:00  Standing Committee of the ISBT Academy*  B53

Tuesday, June 20
13:00 - 14:00  ISBT General Assembly*  C10
14:00 - 15:30  Granulocyte Immunobiology  Room 21
14:15 - 15:00  Exhibitor Meeting  Room 19

The detailed agendas for the Working Party meetings are available on the Congress Website: www.isbtweb.org/Copenhagen
Become an ISBT member and access the ISBT Academy ePortal: A rich variety of content in one place

- Practice guidelines
- Webcasts
- ePosters
- Learning quizzes
- Presentations
- Abstracts
- Textbooks
- More…

Accessing the Academy ePortal is simple, just follow these steps:

- www.isbtweb.org/membership
- Login with your email address and password
- Click on one of the icons that you can find under "Access the Academy ePortal"
- You will be redirected to the Academy ePortal
General Information regarding the Scientific Programme

Important Notice for Moderators and Speakers
All moderators and speakers are kindly requested to be in the session room at least 10 minutes before the beginning of the session.

Photographing and videoing during sessions is not allowed
Materials contained in ISBT Congress presentations, including slides and abstracts are protected by copyright. Any photography, filming, or audio-video recording of the presentations is strictly prohibited.

Abstracts
Abstracts are a supplement of Vox Sanguinis. All abstracts are listed in the online Programme Book at the congress website and the ISBT Congress Mobile Application.

ISBT Science Series
The Science Series containing the State of the Art Papers accompanying the 27th Regional congress, will be available online by the end of the year.

Certificates of Attendance
All delegates who have attended the ISBT Copenhagen congress will receive their certificate of attendance via email (which is provided during your registration)
Should you wish to amend your email address please visit the registration services desk during opening hours.

Speaker Ready Room
The Speaker Ready Room is located in the registration area of the Bella Center. Speakers are requested to bring their presentations to the Speaker Ready Room on an USB stick at least 1 hour prior to their presentation time schedule. You may also bring your laptop for copying your presentation to the main computer, which will be used for sending the presentations to the different meeting rooms. Only PowerPoint presentations made in Microsoft Office 2010 or later versions will be accepted. The use of your own laptop during your presentation is NOT possible.

The opening hours of the SRR are:
<table>
<thead>
<tr>
<th>Day</th>
<th>June 17</th>
<th>08:00 - 17:00 hours</th>
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<tbody>
<tr>
<td>Saturday</td>
<td>June 17</td>
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<td>Sunday</td>
<td>June 18</td>
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<td>Tuesday</td>
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<td>08:00 - 17:00 hours</td>
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<tr>
<td>Wednesday</td>
<td>June 21</td>
<td>08:00 - 12:00 hours</td>
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Programme changes
The organisers cannot assume liability for any changes in the programme due to external or unforeseen circumstances.

Registration hours
The registration desk, located on the ground floor at Bella Center (West entrance), will be open as of Saturday June 17:

- **Saturday** June 17 08:00 - 17:00 hours
- **Sunday** June 18 08:00 - 19:30 hours
- **Monday** June 19 08:00 - 17:30 hours
- **Tuesday** June 20 08:00 - 17:30 hours
- **Wednesday** June 21 08:00 - 13:30 hours

Exhibition hours:
- **Sunday** June 18 18:15 - 21:00 hours
- **Monday** June 19 09:00 - 17:30 hours
- **Tuesday** June 20 09:00 - 17:30 hours
- **Wednesday** June 21 09:00 - 13:30 hours

Services provided at desks in the Registration Area include:
- Exhibition Information: Exhibition Desk
- Lost and Found: Registration desk
- Social Programme desk: Tickets for sale at the Social Programme Desk in the Registration Area

Badges
All participants and accompanying persons will receive a personal badge upon registration. You are kindly requested to wear your name badge at all times, during scientific meetings and social gatherings. Only participants who are wearing their name badge will be admitted to the lecture halls.

_Please note: accompanying persons and exhibitors will not be admitted to the scientific sessions. Accompanying persons do not have access to the exhibition._

Name badges have been color-coded as follows:

- ISBT Member: Red
- ISBT Non-Member: Transparent
- Accompanying Persons: Yellow
- Exhibitors: Blue
- Press: Orange
The new ISBT app is the new overarching society app, including information about the society and ISBT congresses. Previously, ISBT launched a new app for every congress where all information about the congress was presented. This required delegates to download a new app for each congress, taking up unnecessary space. The new ISBT App contains general information about the Society and provides you with updates on developments in ISBT. Within the app it is possible to download specific events e.g. congresses where similar information to that found on the old congress app is available including the scientific programme, details of the exhibition, speakers etc. During ISBT congresses this app is your gateway to the congress, with a map of the venue, abstracts discussed during sessions, and interactive features such as live voting during sessions. Make sure to download the app now and explore ISBT’s new mobile platform. If you have any questions the ISBT Central Office staff at booth C3.422 is happy to help you.

The ISBT app features include:
- Interactive exhibitor list
- Exhibitor information
- Overview of Congress Programme
- Create your own itinerary
- Real-time congress alerts via push-messaging
- A map of the congress and exhibition halls
- Rating sessions
- Real-time voting during sessions
- All abstracts

The new ISBT Society app is now available for download. Search for “ISBT” in the app store and download the app, or use the QR code below.
Programme at a Glance
Local Day
Saturday, June 17

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<th>Auditorium</th>
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<th>C12</th>
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</thead>
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<td>09.00 - 10.40</td>
<td>Possible Tasks and New Areas for Blood Banks</td>
<td>Transfusion Therapy: Focus on Haemolytic Disease of the Fetus and Newborn</td>
</tr>
<tr>
<td>10.40 - 11.00</td>
<td>Coffee Break</td>
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<tr>
<td>11.00 - 12.00</td>
<td>Use and Future use of Blood Donor and Transfusion Databases</td>
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<tr>
<td>12.00 - 13.00</td>
<td>Lunch</td>
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<tr>
<td>13.00 - 15.00</td>
<td>Plasma Derived Medicinal Products and Self-Sufficiency</td>
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<tr>
<td>15.00 - 15.30</td>
<td>Coffee Break</td>
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<tr>
<td>15.30 - 16.30</td>
<td>Blood Supply Management in the Future</td>
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Programme at a Glance
Academy Day
Sunday, June 18

<table>
<thead>
<tr>
<th>C10</th>
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<tr>
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<td>10.00 - 10.30</td>
<td>Coffee Break</td>
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<tr>
<td>10.30 - 12.00</td>
<td>Organisation and Quality/Clinical Governance</td>
<td>Immunohaematology</td>
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<tr>
<td>12.00 - 13.30</td>
<td>Lunch &amp; Satellite Symposium</td>
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<tr>
<td>13.30 - 15.00</td>
<td>Transfusion Transmitted Infectious Diseases</td>
<td>Patient Blood Management</td>
</tr>
<tr>
<td>15.00 - 15.30</td>
<td>Coffee Break</td>
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<tr>
<td>15.30 - 17.00</td>
<td>Blood Components and Supply Management</td>
<td>Cellular Therapy</td>
</tr>
<tr>
<td>17.30 - 18.15</td>
<td>Opening Ceremony (Plenary Hall)</td>
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<tr>
<td>18.15 - 21.00</td>
<td>Opening of the Trade Exhibition and Welcome Reception</td>
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</tr>
</tbody>
</table>
### Programme at a Glance

#### Monday, June 19

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:00-08:15</td>
<td>Young Investigator Breakfast Session</td>
<td>Plenary Hall C10 C12 C14 C15</td>
</tr>
<tr>
<td>08:30-10:00</td>
<td>Oral Selected Abstracts</td>
<td>Plenary Hall C10 C12 C14 C15</td>
</tr>
<tr>
<td>10:00-11:30</td>
<td>Oral Selected Abstracts</td>
<td>Plenary Hall C10 C12 C14 C15</td>
</tr>
<tr>
<td>11:30-13:00</td>
<td>Poster Session</td>
<td>Plenary Hall C10 C12 C14 C15</td>
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<tr>
<td>13:30-15:00</td>
<td>Poster Session</td>
<td>Plenary Hall C10 C12 C14 C15</td>
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#### Tuesday, June 20

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>07:00-08:00</td>
<td>Young Investigator Breakfast Session</td>
<td>Plenary Hall C10 C12 C14 C15</td>
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<tr>
<td>08:30-10:00</td>
<td>Oral Selected Abstracts</td>
<td>Plenary Hall C10 C12 C14 C15</td>
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<tr>
<td>10:00-11:30</td>
<td>Oral Selected Abstracts</td>
<td>Plenary Hall C10 C12 C14 C15</td>
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<tr>
<td>11:30-13:00</td>
<td>Poster Session</td>
<td>Plenary Hall C10 C12 C14 C15</td>
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<tr>
<td>13:30-15:00</td>
<td>Poster Session</td>
<td>Plenary Hall C10 C12 C14 C15</td>
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Note: Tickets available at the social programme desk (BS15).
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:00 - 10:40</td>
<td>Plenary Session: Blood Donor Studies and Big Data</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:30 - 12:00</td>
<td>Plenary Session: Blood Donor Studies and Big Data</td>
</tr>
<tr>
<td>12:00 - 12:30</td>
<td>Closing Ceremony</td>
</tr>
<tr>
<td>12:30 - 13:30</td>
<td>Farewell Lunch (Exhibition area)</td>
</tr>
</tbody>
</table>
Saturday, June 17

11:00 - 12:00
Auditorium

Local day
Use and future use of blood donor and transfusion databases
Moderator: M. Gybel-Brask (Denmark)

11:00 - 11:20
1B-02-01
PERSPECTIVES AND OPPORTUNITIES FOR THE DANISH BLOOD DONOR STUDY
C. Erikstrup, O. B. V. Pedersen, E. Sørensen, M. S. Petersen, K. R. Nielsen, H. M. Paarup, K. S. Burgdorf, H. Hjalgrim, H. Ullum
Aarhus University Hospital, Aarhus, Denmark

11:20 - 11:40
1B-02-02
PERSPECTIVES AND OPPORTUNITIES FOR THE DANISH TRANSFUSION DATABASE
K. Titlestad
Odense University Hospital, Odense C, Denmark

11:40 - 12:00
1B-02-03
SCANDAT DATABASE – FUTURE DIRECTIONS?
G. Edgren, H. Hjalgrim
Karolinska Institute, Stockholm, Sweden

12:00 - 13:00
Lunch

13:00 - 15:00
Auditorium

Local day
Plasma derived medicinal products and self-sufficiency
Moderator: J. Castren (Denmark)

13:00 - 14:00
1C-03-01
PLASMA SUPPLY MANAGEMENT IN THE COUNCIL OF EUROPE
Uppsala University Hospital, Uppsala, Sweden

14:00 - 15:00
1C-03-02
TOWARDS PLASMA SELF-SUFFICIENCY - THE PROCESS AND THE STATUS IN DENMARK
M. B. Hansen
Rigshospitalet, Copenhagen, Denmark

15:00 - 15:30
Coffee Break
Saturday, June 17

**15:30 - 16:30**

**Auditorium**

**Local day**

Blood supply and management in the future  
*Moderator: J. Lauronen (Finland)*

**15:30 - 16:00**  
1D-04-01  
**WHERE AND HOW TO COLLECT BLOOD IN A CHANGING WORLD**  
J. Georgsen  
South Danish Transfusion Service and Tissue Center, Odense C, Denmark

**16:00 - 16:30**  
1D-04-02  
**CENTRALIZED BLOOD ESTABLISHMENT - WHAT ARE THE ADVANTAGES**  
M. Syrjälä  
Finnish Red Cross Blood Service, Helsinki, Finland

Sunday, June 18

**08:30 - 10:00**  
**C10**

**Academy day**

Donors and donation  
*Moderators: P. van den Burg (The Netherlands), C.K. Lin (Hong Kong)*

**08:30 - 10:00**  
2A-01-01  
**TEENAGE BLOOD DONATION: TRENDS, ADVERSE REACTIONS AND IRON BALANCE**  
A. Eder  
Georgetown University Medical Center, Washington, DC, United States

**09:00 - 09:30**  
2A-01-02  
**THE OLDER DONOR**  
M. Goldman, S. O’Brien  
Canadian Blood Services, Ottawa, Canada

**09:30 - 10:00**  
2A-01-03  
**THE DEFERRED DONOR**  
V. Compernolle  
Belgian Red Cross-Flanders, Ghent, Belgium

**10:00 - 10:30**  
**Coffee Break**
Sunday, June 18

08:30 - 10:00
C12

**Academy day**
Transfusion therapy: Focus on haemolytic disease of the foetus and newborn

*Moderators: G. Clarke (Canada), J. White (United Kingdom)*

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 09:00</td>
<td>HAEMOLYTIC DISEASE OF THE FOETUS AND THE NEWBORN (HDFN): THE LABORATORY PERSPECTIVE</td>
<td>E. Muñiz-Díaz</td>
<td>Banc de Sang i Teixits, Barcelona, Spain</td>
</tr>
<tr>
<td>09:00 - 09:30</td>
<td>HDFN: THE MATERNAL-FETAL MEDICINE/OBSTETRIC PERSPECTIVE</td>
<td>M. Hedegaard (Denmark)</td>
<td></td>
</tr>
<tr>
<td>09:30 - 10:00</td>
<td>NEONATAL MANAGEMENT AND OUTCOME IN HEMOLYIC DISEASE OF THE FETUS AND NEWBORN</td>
<td>E. Lopriore</td>
<td>LUMC, Leiden, The Netherlands</td>
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<tr>
<td>10:00 - 10:30</td>
<td>Coffee Break</td>
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</tbody>
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10:30 - 12:00
C10

**Academy day**
Organisation and quality/clinical governance

*Moderators: M. Murphy (United Kingdom), M. Cole-Sinclair (Australia)*

<table>
<thead>
<tr>
<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>10:30 - 11:00</td>
<td>THE ROLE OF THE NATIONAL BLOOD TRANSFUSION COMMITTEE</td>
<td>M. F. Murphy, K. Pendry</td>
<td>NHS Blood &amp; Transplant, Oxford, United Kingdom</td>
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<td></td>
<td>Oxford University Hospitals, Oxford, United Kingdom</td>
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<td>University of Oxford, Oxford, United Kingdom</td>
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<tr>
<td>11:00 - 11:30</td>
<td>HOSPITAL TRANSFUSION COMMITTEES – COMMON GOALS, PROBLEMS AND PITFALLS</td>
<td>S. N. Nahiriak</td>
<td>Alberta Health Services / University of Alberta, Edmonton, Canada</td>
</tr>
<tr>
<td>11:30 - 12:00</td>
<td>CLINICAL GOVERNANCE IN THE BLOOD SERVICE</td>
<td>G. Millin</td>
<td>NHSBT, London, United Kingdom</td>
</tr>
<tr>
<td>12:00 - 13:30</td>
<td>Lunch and Satellite Symposium</td>
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</tbody>
</table>
Sunday, June 18

10:30 - 12:00

C12

Academy day
Immunohaematology

Moderators: L. Castilho (Brazil), T. Peyrard (France)

10:30 - 11:00
NEW LABORATORY TOOLS FOR IMMUNOHAEMATOLOGY:
CORRELATING FLOW CYTOMETRY AND MOLECULAR RESULTS

A. Hult
Lund University, Lund, Sweden

11:00 - 11:30
MANAGING A RARE DONOR PROGRAM—THE IMMUNOHAEMATOLOGY LABORATORY PERSPECTIVE

C. Paccapelo
Centro Trasfusionale, Fondazione IRCCS Ca’ Granda Ospedale Maggiore Policlinico, Milan, Italy

11:30 - 12:00
CHALLENGING RED CELL SEROLOGY CASES

H. Hustinx
Interregionale Blutspende SRK Bern, Bern, Switzerland

12:00 - 13:30
Lunch and Satellite Symposium

13:30 - 15:00

C10

Academy day
TTID

Moderators: M. Störmer (Germany), E. Castro (Spain)

13:30 - 14:00
NEW INFECTIOUS EPIDEMICS: THE GLOBAL HEALTH VIEW

M. Nübling
WHO, Geneva, Switzerland

14:00 - 14:30
MODELLING RISKS OF EMERGING INFECTIOUS DISEASES RELEVANT TO BLOOD TRANSFUSION

M. Janssen
University Medical Center, Utrecht, The Netherlands
Sanguin Research, Amsterdam, The Netherlands

14:30 - 15:00
EFFECTIVENESS OF PRE-DONATION HEALTH AND TRAVEL SCREENING IN REDUCING THE RISK OF TTIS

C. Erikstrup
Aarhus University Hospital, Aarhus, Denmark

15:00 - 15:30
Coffee Break
Sunday, June 18

13:30 - 15:00

**C12**  
**Academy day**  
**Patient Blood Management**  
*Moderators: J. Georgsen (Denmark), V. Nadarajan (Malaysia)*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:30</td>
<td>MAKING TRANSFUSION DECISIONS IN CRITICAL CARE</td>
<td>C. Aubron, Teaching Hospital of Brest, Brest, France</td>
</tr>
<tr>
<td>14:00</td>
<td>EUROPEAN COLLABORATIVE INITIATIVES IN PBM</td>
<td>M. T. Bruun, M. F. Murphy, Odense University Hospital, Odense, Denmark</td>
</tr>
<tr>
<td>14:30</td>
<td>MAKING CLINICAL AUDIT WORK FOR YOU</td>
<td>J. D. Grant-Casey, NHS Blood and Transplant, Oxford, United Kingdom</td>
</tr>
<tr>
<td>15:00</td>
<td>Coffee Break</td>
<td></td>
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15:30 - 17:00

**C10**  
**Academy day**  
**Blood components and supply management**  
*Moderators: To be confirmed*

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>15:30</td>
<td>RED CELL APHERESIS: PROS AND CONS</td>
<td>L. Infanti, Blood Donation Centre Swiss Red Cross Basel, Basel, Switzerland</td>
</tr>
<tr>
<td>16:00</td>
<td>DO WE NEED CRYOPRECIPITATE IN THE ERA OF FIBRINOGEN CONCENTRATE AND OTHER SPECIFIC FACTOR REPLACEMENT OPTIONS?</td>
<td>N. S. Curry, Oxford Haemophilia &amp; Thrombosis Centre, Oxford, United Kingdom, Oxford University Hospitals NHS Trust, Oxford, United Kingdom</td>
</tr>
<tr>
<td>16:30</td>
<td>AUDITING AS A MEANS OF DETECTING WASTE</td>
<td>M. Yazer, University of Pittsburgh, Sewickley, United States</td>
</tr>
<tr>
<td>17:30</td>
<td>Opening Ceremony (Plenary Hall)</td>
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<tr>
<td>18:15</td>
<td>Opening of the Trade Exhibition and Welcome Reception</td>
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</tbody>
</table>
Scientific Programme

Sunday, June 18

15:30 - 17:00

C12

Academy day
Cellular therapy

Moderators: C. Gabriel (Austria), M. Koh (United Kingdom/Singapore)

15:30 - 16:00
THE ROLE OF THE TRANSFUSION PHYSICIAN IN SUPPORTING CELLULAR THERAPIES
M. Lozano, J. Cid
University Clinic Hospital, Barcelona, Spain

16:00 - 16:30
HAEMATOPOIETIC STEM CELL TRANSPLANTATION FOR ADULTS WITH NON-MALIGNANT DISEASE
V. Potter
Kings College Hospital, London, United Kingdom

16:30 - 17:00
WILL WE STILL NEED HEMATOPOIETIC CELL TRANSPLANTATION IN THE ERA OF TARGETED THERAPIES?
L. Burns
Center for International Blood and Marrow Transplant Research - Minneapolis, United States

17:30 - 18:15
Opening Ceremony (Plenary Hall)

18:15 - 21:00
Opening of the Trade Exhibition and Welcome Reception

Monday, June 19

08:30 - 10:00

B41

Workshop on Peer Reviewing Scientific Papers

Moderators and Speakers:
Dana Devine, Editor in Chief, Vox Sanguinis
Pieter van der Meer, Editor, the ISBT Science Series

Peer review is the method by which grants are allocated, papers published and much more. Becoming involved in peer review can be very informative, help you with your own scientific writing and be a career enhancing experience. It is an opportunity to get yourself on the map and a good addition to your c.v.

The workshop is open to early career scientists who wish to offer themselves as peer reviewers and to find out how to navigate around the process. It is also open to current reviewers who wish to refresh their reviews or find out more about peer review within ISBT.
Monday, June 19

08:30 - 10:00
Plenary Hall

**Donors & Donation**

Challenges of terrorism and catastrophes, too much or too little blood

*Moderators: G. Miflin (United Kingdom), C. Akkke (Norway)*

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<tbody>
<tr>
<td>08:30 - 09:00</td>
<td>LESSONS LEARNED FROM PARIS AND NICE</td>
<td>S. Noël, Etablissement Français du Sang, La Plaine Saint Denis, France</td>
</tr>
<tr>
<td>09:00 - 09:30</td>
<td>LESSONS LEARNED FROM BRUSSELS</td>
<td>V. Compernolle, Belgian Red Cross-Flanders, Ghent, Belgium</td>
</tr>
<tr>
<td>09:30 - 10:00</td>
<td>CONTINGENCY PLANNING: THE RESULTS TO DATE FROM THE EBA WORKING GROUP</td>
<td>A. Kelly, Irish Blood Transfusion Service, Dublin, Ireland, EBA Working Group, Dublin, Ireland</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>Coffee Break</td>
<td></td>
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</tbody>
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Monday, June 19

08:30 - 10:00

**C10 Immunology of Blood Cells**

Next Generation Sequencing

*Moderators: J. Storry (Sweden), C. Gassner (Switzerland)*

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<th>Time</th>
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</thead>
<tbody>
<tr>
<td>08:30 - 08:45</td>
<td>INTRODUCTION</td>
<td>J. Storry, Lund University, Sweden</td>
</tr>
<tr>
<td>08:45 - 09:00</td>
<td>AN ALGORITHM FOR AUTOMATED TYPING OF RED BLOOD CELL AND PLATELET ANTIGENS FROM WHOLE GENOME SEQUENCES</td>
<td>W. Lane, C. Westhoff, M. Aguad, M. Smeland-Wagman, S. Vege, D. Simmons, H. Mah, R. Kaufman, H. Rehm, L. Silberstein, R. Green, Harvard Medical School, Boston, United States, Brigham and Women's Hospital, Boston, United States</td>
</tr>
<tr>
<td>09:15 - 09:30</td>
<td>UNORTHODOX O ALLELES AMONG AFRICANS: CHARACTERIZATION OF PREDICTED NEW ABO DELETIONS</td>
<td>M. Möller, Å. Hellberg, M. L. Olsson, Lund University, Lund, Sweden</td>
</tr>
<tr>
<td>09:45 - 10:00</td>
<td>A NUMBER OF NOVEL BLOOD GROUP VARIANTS DISCOVERED FROM THE DENISOVAN HUMAN SEQUENCING PROJECT</td>
<td>E. V. Roulig, E. Schoeman, S. H. Nagaraj, C. Hyland, R. Flower, Australian Red Cross Blood Service, Kelvin Grove, Australia</td>
</tr>
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</table>
Monday, June 19

08:30 - 10:00

C12

**Blood Safety**

Hepatitis

*Moderators: S. Stramer (USA), L.H. Harristhøj (Denmark)*

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<tr>
<td>08:30 - 09:00</td>
<td>3A-S03-01</td>
</tr>
<tr>
<td></td>
<td>VALUE OF RETAINING HBSAG DONOR SCREENING WHERE HBV NAT AND/OR ANTI-HBC DONOR SCREENING APPLY</td>
</tr>
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<td>C. R. Seed</td>
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<tr>
<td></td>
<td>Australian Red Cross Blood Service, Perth, Australia</td>
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<tr>
<td>09:00 - 09:15</td>
<td>3A-S03-02</td>
</tr>
<tr>
<td></td>
<td>AN ASSESSMENT OF DIFFERENCES IN COSTS AND HEALTH BENEFITS OF SEROLOGY AND NAT SCREENING OF DONATIONS FOR BLOOD TRANSFUSION IN DIFFERENT WESTERN COUNTRIES</td>
</tr>
<tr>
<td></td>
<td>M. Janssen, R. van Hulst, B. Custer</td>
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<td>University Medical Center, Utrecht, The Netherlands</td>
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<td>Sanquin Research, Amsterdam, The Netherlands</td>
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<tr>
<td>09:15 - 09:30</td>
<td>3A-S03-03</td>
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<tr>
<td></td>
<td>HBV TRANSFUSION-TRANSMISSION DESPITE THE USE OF HIGHLY SENSITIVE HBV NAT</td>
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<td>D. Candotti, S. M. Assennato, S. Laperche, J.-P. Allain, S. Levicnik-Stezinar</td>
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<td>INTS, PARIS, France</td>
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<tr>
<td>09:30 - 09:45</td>
<td>3A-S03-04</td>
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<tr>
<td></td>
<td>SEROLOGICAL CHARACTERIZATION AND RELEVANT MUTATION IN S GENE OF OCCULT HEPATITIS B VIRUS INFECTION AMONG BLOOD DONORS IN CHINA</td>
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<td>L. Zhang, L. Chang, C. Liu, H. Ji, J. Zhao, L. Wang</td>
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<td>National Center for Clinical Laboratories, Beijing, China</td>
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<td>09:45 - 10:00</td>
<td>3A-S03-05</td>
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<tr>
<td></td>
<td>INVESTIGATION OF REPORTS OF POSSIBLE TRANSFUSION-TRANSMITTED HEV INFECTIONS IN ENGLAND 2012-2016</td>
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<td>P. Hewitt, L. Rossetti, K. Tettmar, M. Webster</td>
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<td>NHS Blood and Transplant, London, United Kingdom</td>
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</tbody>
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08:30 - 10:00

C14

**Clinical**

Clinical transfusion 1

*Moderators: E. Watz (Sweden)*

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<tbody>
<tr>
<td>08:30 - 09:00</td>
<td>3A-S04-01</td>
</tr>
<tr>
<td></td>
<td>BLOOD TRANSFUSION: ONE UNIT TOO MUCH OR ONE UNIT TOO FEW – WHICH POSES THE LEAST RISK TO THE PATIENT?</td>
</tr>
<tr>
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<td>E. Seifried, M. Mueller</td>
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<td>DRK Blutspendedienst Baden-Württemberg-Hessen gemeinnützige GmbH, Frankfurt am Main, Germany</td>
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<tr>
<td>09:00 - 09:30</td>
<td>3A-S04-02</td>
</tr>
<tr>
<td></td>
<td>CLINICAL USE OF IMMUNOGLOBULIN IN NEUROLOGY</td>
</tr>
<tr>
<td></td>
<td>H. Andersen</td>
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<td></td>
<td>Aarhus University Hospital, Aarhus C, Denmark</td>
</tr>
<tr>
<td>09:30 - 09:45</td>
<td>3A-S04-03</td>
</tr>
<tr>
<td></td>
<td>RECOMBINANT FC HEXAMERS AS A PROMISING ALTERNATIVE TO INTRAVENOUS IMMUNOGLOBULIN (IVIG) FOR THE TREATMENT OF ANTIBODY-MEDIATED AUTOIMMUNE DISEASES</td>
</tr>
<tr>
<td></td>
<td>B. J. B. Lewis, R. Spirig, F. KAESERMANN, D. Branch</td>
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<tr>
<td></td>
<td>University of Toronto, Toronto, Canada</td>
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<tr>
<td>09:45 - 10:00</td>
<td>3A-S04-04</td>
</tr>
<tr>
<td></td>
<td>PATIENT ID – THE CONSEQUENCES OF GETTING IT WRONG ARE SERIOUS</td>
</tr>
<tr>
<td></td>
<td>C. Akers, J. Bielby, STIR expert group</td>
</tr>
<tr>
<td></td>
<td>Department of Health &amp; Human Services, Australian Red Cross Blood Service, Melbourne, Australia</td>
</tr>
</tbody>
</table>
### Monday, June 19

**08:30 - 10:00**

**C15**

**Blood products**

**Transfusion Technology**

Moderators: R. Cardigan (United Kingdom), S. Gudmonsson (Iceland)

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<tr>
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</tr>
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<tbody>
<tr>
<td>08:45 - 09:00</td>
<td>3A-S05-02</td>
<td>CRYOPRESERVATION OF BUFFY COAT PLATELET CONCENTRATES PHOTOCHEMICALLY TREATED WITH AMOTOSALEN AND UVA LIGHT</td>
<td>P. Sandgren Karolinska University Hospital, Karolinska Institutet, Stockholm, Sweden</td>
</tr>
<tr>
<td>09:00 - 09:15</td>
<td>3A-S05-03</td>
<td>PATHOGEN INACTIVATED WHOLE BLOOD: SUPPLEMENTATION WITH FIBRINOGEN PARTIALLY CORRECTS TREATMENT DAMAGE IN A ROTEM MODEL OF MASSIVE TRANSFUSION</td>
<td>A. Arbaeen, P. Schubert, D. Devine Canadian Blood Services, Vancouver, Canada</td>
</tr>
<tr>
<td>09:30 - 09:45</td>
<td>3A-S05-05</td>
<td>DEFORMABILITY OF TRANSFUSED RED BLOOD CELLS IS A KEY DETERMINANT OF TRANSFUSION-INDUCED INCREASE IN HEMOGLOBIN: A STUDY WITH ß-THALASSEMIA MAJOR PATIENTS</td>
<td>G. Barshtein, N. Goldschmidt, O. Zeilig, D. Arbell, S. Yedgar The Faculty of Medicine, The Hebrew University of Jerusalem, Jerusalem, Israel</td>
</tr>
<tr>
<td>09:45 - 10:00</td>
<td>3A-S05-06</td>
<td>COMPARING THE EFFECT OF CRYOPRESERVATION ON OVERNIGHT HELD BUFFY-COAT DERIVED PLATELET POOLS SUSPENDED IN EITHER PLASMA OR SSP+</td>
<td>C. McLean, L. McMillan, J. Stephen, J. Petrik, A. Morrison Scottish National Blood Transfusion Service, Edinburgh, United Kingdom</td>
</tr>
</tbody>
</table>

### Monday, June 19

**10:30 - 12:00**

**Plenary hall**

**Plenary Session - Major Bleeding**

Moderators: M.B. Hansen (Denmark), S. Allard (United Kingdom)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30 - 11:00</td>
<td>PL1-01</td>
<td>DAMAGE CONTROL RESUSCITATION: HOW TO USE BLOOD PRODUCTS AND MANAGE MAJOR BLEEDING IN TRAUMA</td>
<td>A. K. Bomniyasamy, M. Schreiber Oregon Health and Science University, Oregon, United States</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td>PL1-02</td>
<td>DIRECT ORAL ANTICOAGULANTS (DOACS) INDUCED BLEEDING – UPDATE ON ANTIDOTES AND TREATMENT OPTIONS</td>
<td>D. Faraoni University of Toronto, Toronto, Canada</td>
</tr>
<tr>
<td>11:30 - 12:00</td>
<td>PL1-03</td>
<td>PATHOPHYSIOLOGY OF MASSIVE HAEMORRHAGE</td>
<td>J. Stensballe Denmark</td>
</tr>
</tbody>
</table>

**12:00 - 14:00**

**Lunch and Satellite Symposia**
Monday, June 19

14:00 - 15:30

**Workshop on Writing a Scientific Paper**

Moderators and Speakers

Dana Devine, Editor in Chief, Vox Sanguinis
Pieter van der Meer, Editor, the ISBT Science Series

The workshop is for everyone from early career to experienced scientists who wish to learn, improve or refresh their writing skills. The workshop will help you to learn more about how to structure a manuscript and how to develop and assemble the sections into a cohesive publication.

14:00 - 15:30

**Plenary Hall**

**Immunobiology of blood cells**

Regulation of carbohydrate blood groups

*Moderators: M. L. Olsson (Sweden), C. Lomas-Francis (USA)*

14:00 - 15:30

**3B-S06-01**

**THE P1 HISTO-BLOOD GROUP ANTIGEN IS PRESENT ON HUMAN RED BLOOD CELL GLYCOPROTEINS**

L. Stenfelt, J. S. Westman, M. L. L. Olsson
Lund University, Lund, Sweden

14:15 - 14:30

**3B-S06-02**

**KLF1 REGULATES P1 EXPRESSION THROUGH TRANSCRIPTIONAL CONTROL OF A4GALT**

J. Eernstman, B. Veldhuisen, S. Heshusius, S. Philipsen, M. von Lindern, J. Borg, E. C. van der Schoot, E. Van Den Akker
Sanquin, Amsterdam, The Netherlands

14:30 - 14:45

**3B-S06-03**

**EX Vivo GLYCOSYLATION OF P2 BLOOD GROUP RED CELLS USING RECOMBINANT P1/PK SYNTHASE GENERATES P1 BLOOD GROUP CELLS**

R. Kaczmarek, K. Szymczak-Kulus, A. Bereźnicka, K. Mikolajczyk, M. Czerwiński
Hirszfeld Institute of Immunology, Wroclaw, Poland

14:45 - 15:00

**3B-S06-04**

**NOVEL MUTATION OF RUNX1 SITE IN THE ERYTHROID CELL-SPECIFIC REGULATORY ELEMENT EFFECT THE ABO ANTIGEN DIFFERENTIAL EXPRESSION**

Y. Ying, X. Hong, X. Xu, K. Ma, X. Lan, J. He, J. Xu, F. Zhu
Blood Center of Zhejiang Province, Binjiang, Hangzhou, Zhejiang, China

15:00 - 15:15

**3B-S06-05**

**DOWNREGULATION OF GLYCOSYLTRANSFERASE A EXPRESSION BY MIRNA-331-3P IS MEDIATED BY THE INHIBITION OF THE TRANSCRIPTION FACTOR SP1**

R. Kronstein-Wiedemann, N. Kronstein, P. Bugert, T. Tonn
Institute for Transfusion Medicine, Dresden, Germany

15:15 - 15:30

**3B-S06-06**

**EFFECT OF FUT1 GENE MUTATION ON MRNA AND PROTEIN EXPRESSION IN EUKARYOTIC CELLS**

S. Tao, Y. He, X. Xu, J. He, F. Zhu
Blood Center of Zhejiang Province, Hangzhou, China
Monday, June 19

**14:00 - 15:30**

**C10**

**Blood Safety**

Retro Virus

*Moderators: S.Y. Kwon (South Korea), C. Erikstrup (Denmark)*

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**14:00 - 14:15**

**3B-S07-01**

COMPARISON OF THREE METHODS FOR ESTIMATING RESIDUAL RISK OF TRANSFUSION-TRANSMITTED HIV-1 INFECTION IN FRANCE

J. Pillonel, F. Barin, P. Tiberghien, S. Laperche

Institut National de la Transfusion Sanguine, Paris, France

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**14:15 - 14:30**

**3B-S07-02**

RESIDUAL RISK OF HUMAN IMMUNODEFICIENCY VIRUS AMONG BLOOD DONORS IN BOGOTA, COLOMBIA

G. A. Oriueta-Falla, M. Baquero, A. Rodriguez

Colombian Red Cross, Bogota, Colombia

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**14:30 - 14:45**

**3B-S07-03**

RESIDUAL RISK OF HUMAN T-CELL LYMPHOTROPIC VIRUS IN THE CANADIAN BLOOD SUPPLY

S. O'Brien, Q.-L. Yi, M. Fearon

Canadian Blood Services, Ottawa, Canada

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**14:45 - 15:00**

**3B-S07-04**

DISCOVERY OF “FALSE HIV ELITE CONTROLLERS” AMONG SOUTH AFRICAN BLOOD DONORS

M. Vermeulen, K. van den Berg, G. Jacobs, B. Custer, R. Swanevelder, U. Jentsch, R. Reddy, L. Wiesner, G. Maartens, E. Murphy,

Recipient Epidemiology and Donor Evaluation Study REDS III

South African National Blood Service, Roodepoort, South Africa

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**15:00 - 15:15**

**3B-S07-05**

THE NATIONAL BLOOD SERVICE AS A PLATFORM FOR HIV CURE RESEARCH: A PRELIMINARY REPORT FROM THE MONITORING AND ACUTE TREATMENT OF HIV STUDY (MATHS)

K. Van Den Berg, M. Vermeulen, C. Barker, C. McClure, U. Jentsch,

G. Jacobs, M. Stone, M. P. Busch, B. Custer, E. L. Murphy

South African National Blood Service, Johannesburg, South Africa

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**15:15 - 15:30**

**3B-S07-06**

INCIDENCE OF HTLV-1 AND HTLV-2 IN UNITED STATES BLOOD DONORS, 2008-2016

E. L. Murphy, Z. Kaidarova, S. Cyrus

UCSF and Blood Systems Research Institute, San Francisco, United States

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Monday, June 19

**14:00 - 15:30**

**C12**

**Donors/Donation**

Donor Psychology

*Moderators: L. Asamoah (Ghana), H. Ullum (Denmark)*

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**14:00 - 14:30**

**3B-S08-01**

THE EMOTIONAL PSYCHOLOGY OF BLOOD DONORS:

UNDERSTANDING AND USING THE AFFECTIVE KEY TO DONOR RETURN

A. Van Dongen, L. Williams, B. Masser

UNSW, Sydney, Australia

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**14:30 - 14:45**

**3B-S08-02**

PERSONAL CHARACTERISTICS OF BLOOD DONORS INFLUENCE THEIR VOLUNTARY NON-MEDICAL WITHDRAWAL

E.M. Merz, E. Ferguson, W. De Kort, A. Van Dongen

Sanquin Blood Supply, Amsterdam, The Netherlands

VU University, Amsterdam, The Netherlands

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**14:45 - 15:00**

**3B-S08-03**

FACTORS AFFECTING RETURN OF FIRST-TIME DONORS AFTER A SUCCESSFUL, UNEVENTFUL BLOOD DONATION

H. Kamel, M. Bravo, R. Vassallo

Blood Systems, Scottsdale, United States

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**15:00 - 15:15**

**3B-S08-04**

A LIFE COURSE PERSPECTIVE ON BLOOD DONATION: THE INFLUENCE OF LIFE EVENTS ACROSS THE DONOR CAREER

T. W. Piersma, R. Bekkers, W. L. de Kort, E.M. Merz

VU University, Amsterdam, The Netherlands

Sanquin Research, Amsterdam, The Netherlands

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**15:15 - 15:30**

**3B-S08-05**

FACILITATORS AND BARRIERS FOR RHD-IMMUNISED WOMEN TO BECOME AND REMAIN ANTI-D DONOR

Y. Slootweg, J. Keleewijn, E.M. Merz

Sanquin Research, Amsterdam, The Netherlands
Monday, June 19

14:00 - 15:30  
C14

Cellular Therapies  
CAR T cells  

_Moderators: K. Schalmosser (Austria), P. Höglund (Sweden)_

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<thead>
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<th>Time</th>
<th>Session</th>
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<th>Location</th>
<th>Presenter(s)</th>
<th>Organization</th>
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<tbody>
<tr>
<td>14:00 - 14:30</td>
<td>NEW TECHNOLOGIES AND APPLICATIONS FOR CAR T CELL THERAPY</td>
<td>3B-S09-01</td>
<td>Universitätsklinikum Würzburg, Würzburg, Germany</td>
<td>M. Hudecek</td>
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<tr>
<td>14:30 - 15:00</td>
<td>ADOPTIVE CELL THERAPY BASED ON TUMOUR INFILTRATING LYMPHOCYTES</td>
<td>3B-S09-02</td>
<td>Herlev Hospital, Herlev, Denmark</td>
<td>I. M. Svane</td>
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<tr>
<td>15:00 - 15:15</td>
<td>THE THERAPEUTIC FUNCTIONS AND MECHANISMS OF EX VIVO INDUCED AND EXPANDED POLYCLONAL HUMAN STABLE CD8+ REGULATORY T CELLS ON AN AUTOIMMUNE DISEASES MICE MODEL: COLLAGEN-INDUCED ARTHRITIS MICE</td>
<td>3B-S09-03</td>
<td>Shanghai Blood Center, Shanghai, China</td>
<td>J. Sun, Y. Yang, X. Huo, X. Jiang, R. Xie, L. Gao, J. Yang</td>
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<tr>
<td>15:30 - 16:00</td>
<td>Coffee Break</td>
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Monday, June 19

14:00-17:30
Room B51

Transfusion Practitioner Forum
The Transfusion Practitioner effect on PBM adoption and implementation

Moderator: C. So-Osman (the Netherlands)

14:00 - 14:30
TPS-01-01
CHALLENGES OF IMPLEMENTING A SUSTAINABLE PBM PROGRAM AND THE TRANSFUSION PRACTITIONER ROLE IN THE PROGRAM
A. B. Nørgaard
Rigshospitalet Copenhagen University Hospital, Copenhagen Ø, Denmark
The Danish Health Authority, Copenhagen, Denmark

14:30 - 15:00
TPS-01-02
IATROGENIC ANAEMIA, HOW THE TRANSFUSION PRACTITIONER CAN INFLUENCE
R. L. Moss
Great Ormond Street Hospital for Children, London, United Kingdom

15:00 - 15:30
TPS-01-03
THE TRANSFUSION PRACTITIONER ROLE IN MAINTAINING A SUSTAINABLE O NEGATIVE SUPPLY
L. Bielby
Dept Health & Human Services Victoria and Australian Red Cross Blood Service, Melbourne, Australia

15.30 - 17.30
Transfusion Practitioner afternoon tea, networking and Q&A session
A. Dhesi
NHS Blood and Transplant, London, United Kingdom
R. Deelen
IJsselland Hospital, Capelle a/d IJssel, The Netherlands

Monday, June 19

14:00 - 15:30
Room 19

The Code of Ethics – Feedback from the ISBT member consultation

Moderators: R. Reddy (South Africa), R. Dodd (USA)

Presenter P. Flanagan (Chair SCE)
This session will update participants on progress with the review of the Society Code of Ethics. In particular it will provide feedback on the outcome of the recent member consultation and present an updated draft of the document.
Monday, June 19

16:00 - 17:30
Plenary Hall

**Immunobiology of blood cells**
The HLA system

_Moderators: B.K. Møller (Denmark), C. Weinstock (Germany)_

**16:00 - 16:30**

3C-S11-01
THE CLINICAL RELEVANCE OF THE HLA SYSTEM IN BLOOD TRANSFUSION
C. J. Brown
NHS Blood and Transplant, London, United Kingdom

**16:30 - 17:00**

3C-S11-02
PREDICTED INDIRECTLY RECOGNIZABLE HLA EPITOPES (PIRCHÉ) AND HLA-SPECIFIC IMMUNE RESPONSES
E. Scieirngs
UMC Utrecht, Utrecht, The Netherlands

**17:00 - 17:15**

3C-S11-03
EFFECTIVE TREATMENT OF MURINE TRANSFUSION RELATED ACUTE LUNG INJURY (TRALI) USING INTERLEUKIN (IL)-10.
Lund University, Lund, Sweden

**17:15 - 17:30**

3C-S11-04
THE DANISH BLOOD DONOR STUDY IS A SUITABLE COHORT FOR THE EXAMINATION OF ALLERGY AND ASTHMA RISK FACTORS
Aarhus University Hospital, Aarhus N, Denmark

**17:30 - 18:30**

Poster Session

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Monday, June 19

16:00 - 17:30
C10

**Blood products**
Alternative treatments

_Moderators: E. Boillard (Canada), B. Diedrich (Sweden)_

**16:00 - 16:30**

3C-S12-01
PLATELETS IN LIVER REGENERATION
University Hospitals of Geneva, Geneva, Switzerland

**16:30 - 16:42**

3C-S12-02
IDENTIFICATION OF PROCOAGULANT PLATELET SUBSETS IN COLD-STORED AND CRYOPRESERVED PLATELETS USING A NOVEL CELL DEATH MARKER
I. Tohidi-Esfahani, S. Tan, L. Johnson, V. Chen, D. C. Marks
The Australian Red Cross Blood Service, Sydney, Australia

**16:42 - 16:54**

3C-S12-03
EFFECT OF PATHOGEN INACTIVATION ON MICRO-RNA PROFILE OF PLATELET CONCENTRATES DURING STORAGE UNDER STANDARD BLOOD BANKING CONDITION
N. A. Arnason, R. Landro, B. Hardarson, O. Rolfsson, S. Gudmundsson, O. E. Sigurjonsson
Landspítali-The National university hospital of Iceland, Reykjavik, Iceland

**16:54 - 17:06**

3C-S12-04
QUALITY CONTROL OF COLD-STORED APHERESIS PLATELET CONCENTRATES POST-STORAGE USING OPTICAL TWEEZERS
Haukeland University Hospital, Bergen, Norway

**17:06 - 17:18**

3C-S12-05
MEASUREMENT OF MECHANICAL PROPERTIES OF RED BLOOD CELLS POST-STORAGE USING OPTICAL TWEEZERS
M. A. Balanant, A. Kashchuk, A. Siligoe, R. Flower, H. Rubinsztein-Dunlop, E. Sauret, S. Saha, Y. Gu
Australian Red Cross Blood Service, Brisbane, Australia
Queensland University of Technology, Brisbane, Australia

**17:18 - 17:30**

3C-S12-06
APPLICATION OF FLOW CYTOMETRY TO EXAMINE CHANGES IN RED BLOOD CELLS DURING STORAGE
A. Stachurska, K. Gmerek, J. Fabijanska-Mitek
The Centre of Postgraduate Medical Education, Warsaw, Poland
Monday, June 19

16:00 - 17:30 C12

**Donors/Donation**

Donor adverse effects

**Moderators:** B. Sørensen (Denmark), D. Roberts (United Kingdom)

16:00 - 16:30

**3C-S13-01**

DONOR FAINTING: RISKS FACTORS AND PREVENTION STRATEGIES

P. Tiberghien, C. Morand, A.-M. Fillet

Etablissement Français du sang, La Plaine St Denis, France

16:30 - 16:45

**3C-S13-02**

THE IMPACT OF IMMEDIATE VASOVAGAL REACTION ON DONOR RETENTION

J. M. O’donovan, B. Bell

Australian Red Cross Blood Service, Sydney, Australia

16:45 - 17:00

**3C-S13-03**

SERIOUS ADVERSE EVENTS OF BLOOD DONATION REPORTED IN NHSBT 2010-2016– TRENDS, THEMES AND LEARNING POINTS


NHS Blood and Transplant, Manchester, United Kingdom

17:00 - 17:15

**3C-S13-04**

DISTRIBUTION OF FERRITIN LEVELS IN DUTCH DONORS – ARE FERRITIN LEVELS ASSOCIATED WITH LOW HAEMOGLOBIN DEFERRAL AT THE SUBSEQUENT DONATION?

F. Prinsze, R. de Groot, T. Timmer, W. de Kort, K. van den Hurk

Sanquin Research, Amsterdam, The Netherlands

17:15 - 17:30

**3C-S13-05**

APPLYING NEWER PARAMETER RETICULOCYTE HEMOGLOBIN EQUIVALENT (RET-HE) TO ASSESS LATENT IRON DEFICIENCY IN APPARENTLY HEALTHY BLOOD DONORS


Medanta- The Medicity, Gurgaon, India

17:30 - 18:30

**Poster Session**

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Monday, June 19

16:00 - 17:30 C14

**Clinical**

Clinical Transfusion 2

**Moderators:** M. Lozano (Spain), J. Wallis (United Kingdom)

16:00 - 16:30

**3C-S14-01**

SHOCK INDUCED ENDOTHELIOPATHY (SHINE) IN ACUTE CRITICAL ILLNESS - A UNIFYING PATHOPHYSIOLOGIC MECHANISM

P. I. Johansson

Rigshospitalet, Copenhagen University Hospital, Copenhagen, Denmark

16:30 - 17:00

**3C-S14-02**

BLOOD COMPONENTS – SO MUCH MORE THAN CLOTS AND OXYGEN DELIVERY!

S. R. Ostrowski

Rigshospitalet, Copenhagen University Hospital, Copenhagen, Denmark

17:00 - 17:15

**3C-S14-03**

DIFFERENCES IN RED CELL TRANSFUSION DECISIONS IN THE DUTCH INTENSIVE CARE UNIT

S. A. Willems, F. J. Kranenburg, S. Le Cessie, P. J. Marang- van de Mheen, J. G. van der Bom, M. S. Arbous

Sanquin, Leiden, the Netherlands, LUMC, Leiden, The Netherlands

17:15 - 17:30

**3C-S14-04**

ORAL ANTICOAGULANT AGENT-ASSOCIATED BLEEDING EVENTS REPORTING SYSTEM (ORANGE) STUDY

L. Green, J. Tan, R. Alikhan, N. Curry, T. Everington, R. Maclean, K. Saja, C. Tait, J. Morris, P. MacCallum

Barts Health NHS Trust and NHS Blood and Transplant, London, United Kingdom
Monday, June 19

16:00 - 17:30

**C15**

**Resource Limited Countries**

Haemoglobinopathies in the developing world

*Modestors: C. Politis (Greece), D. Mbanya (Cameroon)*

16:00 - 16:30

**PRACTICAL ASPECTS OF SICKLE CELL DISEASE**

3C-S15-01

O. E. Nnodu

University of Abuja, Abuja, Nigeria

16:30 - 17:00

**NEWBORN SCREENING FOR SICKLE CELL DISEASE IN GHANA - 20 YEARS OF TESTING, TRACKING AND FOLLOW-UP**

3C-S15-02


Komfo Anokye Teaching Hospital, Kumasi, Ghana

17:00 - 17:30

**NONGENETIC MODIFIERS OF DISEASE SEVERITY IN SCD**

3C-S15-03

F. Piel

Department of Epidemiology and Biostatistics, Imperial College London, United Kingdom

17:30 - 18:30

**Poster Session**

Tuesday, June 20

07:00 - 08:00

**Treehouse (Bella Center)**

**Young Investigator Networking Breakfast**

*(Registration required)*

A breakfast for Young Investigators in Transfusion Medicine. Meet other young investigators and share your experiences and meet experts in the field, willing to answer your questions and discuss your research.
Tuesday, June 20

08:30 - 10:00
Plenary Hall

**Donors/Donation**

Plasma supply management

*Moderators: E. Seifried (Germany), R. Norda (Sweden)*

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<tr>
<td>08:30 - 09:00</td>
<td>SAFE AND SUSTAINABLE PLASMAPHERESIS</td>
<td>J. Pink, G. Kotsiou, S. Wright Australian Red Cross Blood Service, Kelvin Grove, Australia</td>
</tr>
<tr>
<td>09:00 - 09:30</td>
<td>SELF-SUFFICIENCY IN PLASMA SUPPLY</td>
<td>P. Flanagan New Zealand Blood Service, Auckland, New Zealand</td>
</tr>
<tr>
<td>09:30 - 10:00</td>
<td>THE FUTURE OF PLASMA COLLECTION</td>
<td>P. F. Strengeers IPFA, Amsterdam, The Netherlands</td>
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</tbody>
</table>

**Immunobiology of blood cells**

Fetomaternal immunology

*Moderators: R. Petermann (France), F.B. Clausen (Denmark)*

<table>
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<tr>
<td>08:30 - 09:00</td>
<td>ANTEINATAL DETERMINATION OF FETAL BLOOD GROUPS OR ANTIGENS</td>
<td>M. De Haas Sanquin, Amsterdam, The Netherlands</td>
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<tr>
<td>09:00 - 09:30</td>
<td>ANTIENDOTHELIAL ALPHAVBETA3 ANTIBODIES AS A MAJOR CAUSE OF INTRACRANIAL BLEEDING IN FNAIT</td>
<td>U. J. Sachs, S. Santoso Justus Liebig University, Giessen, Germany</td>
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<tr>
<td>09:45 - 10:00</td>
<td>PREDICTION OF FETAL HPA-1A OR OTHER BLOOD GROUP ANTIGENS FROM MATERNAL PLASMA USING NEXT GENERATION SEQUENCING</td>
<td>A. Orziska, K. Guz, M. Mikula, A. Balabas, A. Kluska, M. Kulecka, J. Ostrowski, M. Uhrynowska, M. Dobska, K. Luterek, M. Wielgo, E. Brojer Institute Hematology and Transfusion Medicine, Warsaw, Poland</td>
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10:00 - 10:30 Coffee Break
### Tuesday, June 20

#### 08:30 - 10:00

**C12**

**Blood Safety**  
Risk management  
*Moderators: M. Busch (USA), D. Holm (Denmark)*

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<tr>
<td>08:30 - 08:45</td>
<td><strong>4A-S18-01</strong> US BLOOD DONORS WITH EVIDENCE OF ZIKA VIRUS INFECTION</td>
<td>P. Williamson, J. Linnen, D. Kessler, B. Shaz, H. Kamel, R. Vassallo,</td>
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<td>OUTSIDE AREAS OF ACTIVE TRANSMISSION</td>
<td>V. Winkelmann, R. Ziermann, K. Gao, S. Thomas, J. Holmberg, S. Bakkour,</td>
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<td>M. Stone, K. Lu, G. Simmons, M. P. Busch</td>
<td>Creative Testing Solutions, Tempe, United States</td>
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<td>08:45 - 09:00</td>
<td><strong>4A-S18-02</strong> BLOOD PRODUCT USAGE DURING PREGNANCY IN DENMARK AND SWEDEN AND ITS RELEVANCE</td>
<td>C. Erikstrup, K. Rostgaard, H. Ullum, O. B. V. Pedersen,</td>
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<td>FOR ZIKA VIRUS RISK ASSESSMENT</td>
<td>R. W. Lieshout-Krikke, H. M. Paarup, K. R. Nielsen, G. Edgren,</td>
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<td>H. Hjalgrim</td>
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<td>Aarhus University Hospital, Aarhus, Denmark</td>
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<tr>
<td>09:00 - 09:15</td>
<td><strong>4A-S18-03</strong> RARE DONORS AND MALARIA SEMI-IMMUNITY</td>
<td>A. Berzuini, B. Foglieni, M. Spreafico, D. Prati</td>
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<td>Ospedale A. Manzoni, Lecco, Italy</td>
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<tr>
<td>09:15 - 09:30</td>
<td><strong>4A-S18-04</strong> RESIDUAL RISK OF BACTERIAL CONTAMINATION OF PLATELET CONCENTRATES: SIX YEARS</td>
<td>S. Ramirez-Arcos, C. DiFranco, T. McIntyre, M. Goldman</td>
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<td>OF EXPERIENCE WITH STERILITY TESTING AT CANADIAN BLOOD SERVICES</td>
<td>Canadian Blood Services, Ottawa, Canada</td>
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<td>09:30 - 09:45</td>
<td><strong>4A-S18-05</strong> INTRODUCTION OF A GERMAN UNIFORM DONOR QUESTIONNAIRE INTO BLOOD DONOR</td>
<td>M. Mueller-Steinhardt, H. Klueter, M. Mueller, C. Weidmann, E. Seifried,</td>
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<td>SCREENING</td>
<td>M. Schmidt</td>
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<td>German Red Cross, Mannheim, Germany</td>
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<tr>
<td>09:45 - 10:00</td>
<td><strong>4A-S18-06</strong> REDUCING RISK OF ZIKA VIRUS TRANSMISSION BY WHOLE BLOOD MIRASOL TREATMENT</td>
<td>A. Andonov, K. Serrano, E. Levine, D. Devine</td>
</tr>
<tr>
<td></td>
<td>OR CELL WASHING</td>
<td>Public Health Agency of Canada, Winnipeg, Canada</td>
</tr>
</tbody>
</table>

### Tuesday, June 20

#### 08:30 - 10:00

**C14**

**Clinical**  
Back to the future - is there a role for whole blood transfusions  
*Moderators: E. Wood (Australia), B. Dybvik (Norway)*

<table>
<thead>
<tr>
<th>Time</th>
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<th>Details</th>
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<tbody>
<tr>
<td>08:30 - 09:00</td>
<td><strong>4A-S19-01</strong> WHOLE BLOOD AS PRESURGICAL HEMOSTATIC RESUSCITATION FLUID IN PATIENTS WITH</td>
<td>G. Strandenes, T. O. Apelseth, T. Hervig, C. K. Bjerkvig, P. Spinella,</td>
</tr>
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<td>TRAUMATIC HEMORRHAGIC SHOCK.</td>
<td>A. P. Cap</td>
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<td>Norwegian Armed Forces Medical Services, Oslo, Norway</td>
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<td>Haukeland University Hospital, Bergen, Norway</td>
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<tr>
<td>09:00 - 09:30</td>
<td><strong>4A-S19-02</strong> COLD STORED VERSUS ROOM TEMPERATURE STORED PLATELETS</td>
<td>T. O. Apelseth, A. P. Cap, P. Spinella, T. Hervig, G. Strandenes</td>
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<td>Haukeland University Hospital, Bergen, Norway</td>
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<tr>
<td>09:30 - 09:45</td>
<td><strong>4A-S19-03</strong> IMPROVING COMMUNICATION PATHWAYS AND BLOOD COMPONENT USAGE IN MAJOR OBSTETRIC</td>
<td>J. Rock, M. Karakantza, S. Rabett, F. Hartley, L. Savic, L. Wilson,</td>
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<td>HAEMORRHAGE</td>
<td>C. Sleight</td>
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<td>Leeds Teaching Hospital Trust, Leeds, United Kingdom</td>
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<tr>
<td>09:45 - 10:00</td>
<td><strong>4A-S19-04</strong> ARE SAMPLING PRACTICES LEADING TO TOO MUCH BLOOD IN THE LAB AND LESS IN THE</td>
<td>L. Bielby, C. Akers, B. Glazebrook, P. Beard, C. Hogan</td>
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<td>PATIENT?</td>
<td>Australian Red Cross Blood Service, Melbourne, Australia</td>
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<tr>
<td>10:00 - 10:30</td>
<td>Coffee Break</td>
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</tbody>
</table>
Tuesday, June 20

08:30 - 10:00
C15

Young Investigators - Scientific Session

Moderators: M.L. Olsson (Sweden), E. van der Schoot (The Netherlands)

08:30 - 08:45
4A-S20-01
THE INS AND OUTS OF SMIM1 AND ITS RELATIONSHIP TO THE EXPRESSION OF VEL BLOOD GROUP ANTIGEN
A. Nylander, J. R. Storry, M. L. Olsson
Central Hospital, Kristianstad, Sweden

08:45 - 09:00
4A-S20-02
PURIFIED PROTHROMBIN TRANSFUSED AT THE TIME OF INJURY REDUCES BLEEDING IN BOTH NORMAL AND COAGULOPATHIC MICE
S. M. Qadri, L. Eltringham-Smith, H. Ni, W. Sheffield
McMaster University, Hamilton, Canada
Canadian Blood Services, Hamilton, Canada

09:00 - 09:15
4A-S20-03
FUNCTIONAL ANALYSIS OF RHD VARIANTS: A UNIVERSAL TEST TO INVESTIGATE SPLICING ALTERATION
L. Raud, C. Ka, G. Le Gac, C. Férec, Y. Fichou
UBO - Inserm UMR1078, Brest, France

09:15 - 09:30
4A-S20-04
LOW-GRADE INFLAMMATION AMONG HEALTHY PREMENOPAUSAL WOMEN TAKING COMBINED ORAL CONTRACEPTION DEPENDS ON DOSE AND TYPE OF PROGESTIN: RESULTS FROM THE DANISH BLOOD DONOR STUDY (DBDS)
Aarhus University Hospital, Aarhus N, Denmark

09:30 - 09:45
4A-S20-05
USING A DATA DRIVEN INVENTORY REPLENISHMENT MODEL TO REDUCE BULLWHIP IN SCOTLAND'S BLOOD SUPPLY CHAIN
S. Y. Cheng, C. Rutherford, K. Bailie, G. Cameron
Heriot Watt University, Edinburgh, United Kingdom

09:45 - 10:00
4A-S20-06
PACKED RED BLOOD CELL STORAGE DURATION AND MORTALITY: PRELIMINARY RESULTS FROM POOLED PATIENT ANALYSIS
M.S.Y. Ng, M. David, R. A. Middelburg, A. S. Y. Ng, J.-P. Tung, J. F. Fraser
Australian Red Cross Blood Service, Brisbane, Australia
Faculty of Medicine, University of Queensland, Brisbane, Australia

Tuesday, June 20

10:30 - 12:00
Plenary Hall

Plenary Session - New Developments

Moderators: R. Reddy (South Africa), E. van der Schoot (The Netherlands)

10:30 - 11:00
PL2-01
A NEW APPROACH TO TREATING PATIENTS WITH BETA THALASSAEMIA
S. Mettananda, C. Fisher, D. Hay, M. Badat, J. Hughes, R. J. Gibbons, D. R. Higgs
University of Oxford, Oxford, United Kingdom

11:00 - 11:30
PL2-02
HEPATITIS E
H. L. Zaaijer
Sanquin Blood Supply Foundation, Amsterdam, The Netherlands
Academic Medical Centre, Amsterdam, The Netherlands

11:30 - 12:00
PL2-03
INVESTIGATIONAL BABESIA MICROTI BLOOD DONATION SCREENING IN ENDEMIC AREAS IN THE UNITED STATES: CURRENT AND FUTURE TRENDS
S. Stramer, E.D. Moritz
American Red Cross, Rockville, United States

12:00 - 14:00
Lunch and Satellite Symposia
### Tuesday, June 20

#### 14:00 - 15:30
**Plenary Hall**

**Blood products**

Metabolomics in blood banking and TM  
*Moderators: F. Knutson (Sweden), D. de Korte (The Netherlands)*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 14:00 - 14:30 | **METABOLIC ANALYSIS OF BLOOD STORAGE**  
4B-S21-01 | S. Sigurjónsson  
Landspitalinn The National University Hospital Iceland, Reykjavik, Iceland |
| 14:30 - 15:00 | **BIOMARKERS DEFINING THE METABOLIC AGE OF RED BLOOD CELLS DURING COLD STORAGE**  
4B-S21-02 | B. Palsson |
| 15:00 - 15:15 | **ANTI-CD47 INDUCES DIFFERENT DEGREES OF PHOSPHATIDYLSERINE EXPOSURE IN RED BLOOD CELLS**  
4B-S21-03 | I. F. Halawani, T. E. Madgett, K. P. Jeremy, N. D. Avent  
Plymouth University, Plymouth, United Kingdom  
Taif University, Taif, Saudi Arabia |
| 15:15 - 15:30 | **METABOLIC PROFILING HIGHLIGHTS OXIDATIVE DAMAGES IN PLATELET CONCENTRATES TREATED FOR PATHOGEN INACTIVATION AND SHOWS PROTECTIVE ROLE OF URATE**  
4B-S21-04 | M. Abonnenc, D. Crettaz, L. Marvin, B. Grund, G. Sonego, M. Bardyn, J.-D. Tissot, M. Prudent, B. Rochat, N. Lion  
Transfusion Interrégionale CRS, Epalinges, Switzerland |

#### 14:00 - 15:30
**C10**

**Immunobiology of blood cells**

Oral selected abstracts  
*Moderators: W. Lane (USA), A. Hellberg (Sweden)*

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 14:00 - 14:15 | **A ZINC-FINGER DELETION AT ZNF850 DEFINES THE DOMINANT KIDD-NUL RED BLOOD CELL PHENOTYPE (INJK) WITH FAMILIAR MOOD DISORDER**  
Madrid Blood Transfusion Center, Madrid, Spain |
| 14:15 - 14:30 | **IDENTIFICATION OF TWO NOVEL MUTATIONS IN SMIM1 RESULTING IN LOW VEL EXPRESSION**  
4B-S22-02 | M. van der Rijst, B. Veldhuisen, E. van der Schoot, E. van den Akker  
Sanquin Blood Supply, Amsterdam, The Netherlands |
| 14:30 - 14:45 | **IDENTIFICATION OF A GENE UNDERLYING THE ANWJ-NEGATIVE PHENOTYPE**  
Magen David Adom - National Blood Services, Ramat Gan, Israel |
| 14:45 - 15:00 | **WEAK D PHENOTYPE IN INDIANS IS PREDOMINANTLY DRIVEN BY A NOVEL DUPLICATION IN THE RHD GENE**  
EFS - Inserm UMR1078, Brest, France |
| 15:00 - 15:15 | **MOLECULAR STUDY OF D NEGATIVE AND D VARIANT PHENOTYPES IN ARGENTINE**  
CONICET - Universidad Nacional de Rosario, Rosario, Argentina |
| 15:15 - 15:30 | **GYPB 251G>C CHANGE (SER84THR) IN GLYCOPHORIN B IS ASSOCIATED WITH AN U-LIKE ALLO ANTIBODY**  
New York Blood Center, Long Island City, United States |
Tuesday, June 20

14:00 - 15:30
C12

Blood Safety
Arbovirus

Moderators: S.G. Sækmose (Denmark), S. Sauleda (Spain)

14:00 - 14:30
4B-S23-01
HOST INFLAMMATORY RESPONSE TO MOSQUITO BITES ENHANCES THE SEVERITY OF ARBOVIRUS INFECTION
C. S. Mckimmie
University of Leeds, Leeds, United Kingdom

14:30 - 14:45
4B-S23-02
ZIKV RNA IS PRESENT AND PERSISTS FOR WEEKS IN STORED RBC UNITS FROM INFECTED BLOOD DONORS
US Food and Drug Administration, Silver Spring, MD, United States

14:45 - 15:00
4B-S23-03
EVOLUTION OF SEROLOGICAL MARKERS IN ZIKA VIRUS NAT-REACTIVE BLOOD DONORS IN PUERTO RICO
G. Simmons, K. Lu, M. Stone, J. Alsiina, L. L. Pate, S. A. Galel, P. C. Williamson, M. P. Busch
Blood Systems Research Institute, San Francisco, United States

15:00 - 15:15
4B-S23-04
AN INNOVATIVE MULTIPLEXED AND FLEXIBLE MOLECULAR APPROACH FOR THE DIFFERENTIAL DIAGNOSIS OF ARBOVIRUSES
Etablissement Français du Sang, Montpellier, France

15:15 - 15:30
4B-S23-05
DETERMINATION OF ZIKA VIRUS INFECTIVITY IN PLASMA VERSUS TISSUE CULTURE ISOLATES USING IN VITRO CELL LINES AND MOUSE MODELS
G. Simmons, M. Stone, M. Lanteri, J. Heitman, M. Dimapasoc, D. Chafets, M. P. Busch, M. O. Muench
Blood Systems Research Institute, San Francisco, United States

Tuesday, June 20

14:00 - 15:30
C14

Clinical
Clinical transfusion 3

Moderators: K. Titlestad (Denmark), K. Pavingski (Canada)

14:00 - 14:15
4B-S24-01
CLINICAL AND BIOLOGICAL SIGNIFICANCE OF THE STRENGTH OF DIRECT ANTIGLOBULIN TEST: A 12 YEAR RETROSPECTIVE STUDY
Z. Kouranj, H. Kandet Yattara, E. Lazarova
Erasmee Hospital, Brussels, Belgium

14:15 - 14:30
4B-S24-02
“TRIX” NATIONAL DATABASE OF IRREGULAR ANTIBODIES: POTENTIALLY AVOIDABLE TRANSFUSION INCIDENTS AND REACTIONS
J. Wiersum-Osselton, P. Zijlker-Jansen, A. van Tilborgh-de Jong, A. Bokhorst
TRIP, Leiden, The Netherlands
Sanquin Blood Bank, Leiden, The Netherlands

14:30 - 14:45
4B-S24-03
PRIMARY AUTOIMMUNE NEUTROPENIA OF INFANCY AND EARLY CHILDHOOD: PRELIMINARY DESCRIPTION OF THE DANISH AIN COHORT
L. Tegtmeier Frandsen, N. Brink Scholz, R. Steffensen, J. Bæch, K. Varming, T. Mors Haunstrup, A. Jensen, A.L. Fjordside Bilde, H. Søndergaard, M. Møller
Aalborg University Hospital, Aalborg, Denmark

14:45 - 15:00
4B-S24-04
DAILY PRACTICE OF RBC TRANSFUSION INITIATION AND MANAGEMENT OF SECONDARY IRON OVERLOAD IN HEMATO-ONCOLOGICAL PATIENTS IN THE NETHERLANDS: A SURVEY
M. Hoeks, R. Middelburg, B. Romeijn, M. van Kraaij, J. J. Zwaginga
LUMC, Leiden, The Netherlands
Sanquin, Leiden, The Netherlands

15:00 - 15:15
4B-S24-05
WHAT’S THE HOLD UP? UPDATE ON DELAYED TRANSFUSIONS REPORTED TO SHOT: 7 YEARS OF DATA
P. Bolton-Maggs, J. Ball, D. Poles
NHSBT, Manchester, United Kingdom

15:15 - 15:30
4B-S24-06
RISK FACTORS OF TRANSFUSION ASSOCIATED CIRCULATORY OVERLOAD - A CASE CONTROL STUDY
G. Daurat, A. Daurat, J. Grenie, P. Cuvillon, J.Y. Lefrant
Nimes University Hospital, Nimes, France
Tuesday, June 20

14:00 - 15:30

C15

Resource Limited Countries
Clinical Transfusion

Moderators: Y. Abedella (Egypt), T. Mapako (Zimbabwe)

14:00 - 14:30
4B-S25-01
THE BENEFITS AND CHALLENGES OF INTERNATIONAL RESEARCH COLLABORATIONS IN TRANSFUSION MEDICINE: THE CASE OF THE FRANCOPHONE AFRICA TRANSFUSION RESEARCH NETWORK.
C. Tayou Tagny, S. Laperche, E. Murphy
Faculty of Medicine and Biomedical Sciences, University of Yaounde I, Yaounde, Cameroon

14:30 - 15:00
4B-S25-02
BLOOD CELL STORAGE UNDER USUAL CONDITIONS IN AFRICA – A USER’S PERSPECTIVE?
S. Uyoga
KEMRI Wellcome Trust Research programme, Kilifi, Kenya

15:00 - 15:30
4B-S25-03
THE EVIDENCE (OR LACK OF) CONCERNING PACKED CELLS VERSUS WHOLE BLOOD IN LOW AND MIDDLE INCOME COUNTRIES (LMIC)
N. Kohli, S. Bhaumik, S. Jagadesh, R. K. Sales, I. Bates
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

15:30 - 16:00
Coffee Break

16:00 - 17:30

Plenary Hall

Immunobiology of blood cells
Platelets

Moderators: U. Sachs (Germany), K. Nielsen (Denmark)

16:00 - 16:30
4C-S26-01
PLATELET IMMUNOBIOLOGY
J. W. Semple
Lund University, Lund, Sweden

16:30 - 17:00
4C-S26-02
ROLE OF EXTRACELLULAR VESICLES IN PLATELET TRANSFUSION MEDICINE
E. Boilard
CHU de Quebec and Universite Laval, Quebec City, Canada

17:00 - 17:30
4C-S26-03
EXPLORING NEW AVENUES FOR COLD STORAGE OF PLATELETS
Cincinnati Children’s Hospital Medical Center, Cincinnati, United States

19:30 - 23:30
Congress Party (€50, available at the social programme desk. See page 98 for more information)
### Tuesday, June 20

#### 16:00 - 17:30

**C10**

**Donors/Donation**

**Donor Health**

*Moders: O. Pedersen (Denmark), W. de Kort (The Netherlands)*

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<tr>
<td>16:00 - 16:30</td>
<td><strong>“YOU SAVED A LIFE”: HOW PAST DONATION USE INCREASES DONOR REACTIVATION VIA IMPACT AND WARM GLOW</strong></td>
<td>M. Clement, E. Shehu, K. P. Winterich, A.-C. Langmaack University of Hamburg, Hamburg, Germany</td>
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<td>16:30 - 16:45</td>
<td><strong>POSITIVE AND NEGATIVE EFFECTS OF BLOOD DONATION</strong></td>
<td>L. J. Haugegaard, J. Teglikamp, M. Haahr Nielsen, K. Selvsten Burgdorf, H. Hjalgrim, K. Nielsen, C. Erikstrup, O. B Pedersen, H. Ullum Copenhagen University Hospital, Copenhagen, Denmark</td>
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<td>16:45 - 17:00</td>
<td><strong>SO JUST HOW HEALTHY ARE OLDER AUSTRALIAN BLOOD DONORS? EXAMINING THE HEALTHY DONOR EFFECT</strong></td>
<td>S. T. Wright, C. N. Gemelli, A. Thijsen, A. van Dongen Australian Red Cross Blood Service, Sydney, Australia UNSW Australia, Sydney, Australia</td>
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<tr>
<td>17:00 - 17:15</td>
<td><strong>PREVALENCE, ASSOCIATED FACTORS AND DETRIMENTAL LINKS TO RESTLESS LEGS SYNDROME IN DANISH BLOOD DONORS</strong></td>
<td>M. Didriksen, A. Stribolt Rigas, R. Allen, B. Burchell, L. Wegner Thørner, K. Nielsen, E. Di Angelantonio, M. Nielsen, P. Jemmum, T. Werge, C. Erikstrup, O. Pedersen, M. Topholm Bruun, K. Burgdorf, E. Sørensen, H. Ullum Copenhagen University Hospital, Rigshospitalet, Copenhagen, Denmark</td>
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<tr>
<td>17:15 - 17:30</td>
<td><strong>PLATELETPHERESIS EFFICIENCY: COMPARISON OF FOUR DIFFERENT AUTOMATED CELL SEPARATORS.</strong></td>
<td>R. Katharia, R. Chaudhary Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPGIMS), Lucknow, India</td>
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#### 16:00 - 17:30

**C12**

**Blood Safety**

**New methods**

*Moders: J. Ihalainen (Finland), S. Laperche (France)*

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<tr>
<td>16:00 - 16:30</td>
<td><strong>TOTAL LABORATORY AUTOMATION IN BLOOD DONOR SCREENING – HOW MUCH IS POSSIBLE AND USEFUL?</strong></td>
<td>M. Schmidt, E. Seifried German Red Cross, Frankfurt, Germany</td>
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<td>16:30 - 16:45</td>
<td><strong>BIOFILM MATRIX AND CELL WALL MODIFICATION DURING BIOFILM FORMATION MIGHT CONFER STAPHYLOCOCCUS EPIDERMIDIS ADVANTAGEOUS GROWTH IN PLATELETS</strong></td>
<td>M. Loza Correa, J. A. Ayala, I. Perelman, M. Taha, Q.-L. Yi, M. A. de Pedro, S. Ramirez-Arcos Canadian Blood Services, Ottawa, Canada</td>
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<tr>
<td>16:45 - 17:00</td>
<td><strong>MALDI-TOF MASS SPECTROMETRY: A NOVEL METHOD FOR THE DETECTION OF BACTERIAL CONTAMINATION IN PLATELET CONCENTRATES</strong></td>
<td>Y. Chetouane, P. Gallian, J. Chiaroni, E. Chabriere, D. Raoult, L. Campion-Jau IHU Mediterranean infection, Research Unit on Emerging Infectious and Tropical Diseases, Marseille, France</td>
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<tr>
<td>17:00 - 17:15</td>
<td><strong>PATHOGEN INACTIVATION OF ZIKA, DENGUE AND CHIKUNGUNYA VIRUSES IN ALL BLOOD COMPONENTS</strong></td>
<td>D. Musso, F. Santa Maria, A. Laughhunn, M. C. Lanteri, A. Stassinopoulos, M. Aubry Institut Louis Malarde, Papeete, French Polynesia</td>
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<tr>
<td>17:15 - 17:30</td>
<td><strong>AN ALTERNATIVE METHOD FOR QUALITY CONTROL USAGE IN INFECTIOUS DISEASES TESTING</strong></td>
<td>G. Vincini, M. Karakaltsas, W. Dimech NRL, Fitzroy, Australia</td>
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Tuesday, June 20

16:00 - 17:30

C14

Cellular Therapies

ATMP

Moderators: A. Fischer-Nielsen (Denmark), R. Henschler (Germany)

16:00 - 16:30

4C-S29-01

HOW TO CULTURE RED BLOOD CELLS FOR TRANSFUSION

A. Toye

University of Bristol, United Kingdom

16:30 - 17:00

4C-S29-02

MESENCHYAL STEM CELLS FOR THERAPEUTIC PURPOSES: POSSIBLE HURDLES

A. Giordano, F. Pentimalli, P. Indovina, U. Galderisi

Temple University, Philadelphia, United States

17:00 - 17:15

4C-S29-03

TISSUE FACTOR EXPRESSION AND HEMOCOMPATIBILITY OF STROMAL CELLS DEPENDS ON ORGAN ORIGIN AND CULTURE CONDITIONS


Paracelsus Medical University, Salzburg, Austria

17:15 - 17:30

4C-S29-04

HEPARIN CHANGES THE GENE EXPRESSION PROFILE OF MESENCHYMAL STEM/PROGENITOR CELLS


Paracelsus Medical University, Salzburg, Austria

19:30 - 23:30

Congress Party (€50, available at the social programme desk. See page 98 for more information)

Tuesday, June 20

16:00 - 17:30

C15

Management and Organisation

Oral selected abstracts

Moderators: M. Smid (The Netherlands), N. Lubenow (Sweden)

16:00 - 16:15

4C-S30-01

BLOOD DONOR DISCLOSURE – RATES OF FILLED ANTIBIOTIC PRESCRIPTIONS BEFORE 4,978,751 BLOOD DONATIONS IN DENMARK


Aarhus University Hospital, Aarhus, Denmark

16:15 - 16:30

4C-S30-02

LONGITUDINAL CHARACTERIZATION OF PATIENTS RECEIVING BLOOD TRANSFUSIONS IN A 19-YEAR PERIOD: DECLINE IN BLOOD TRANSFUSIONS AS A RESULT OF DEMOGRAPHIC FACTORS.

S. Goerg, C. Brockmann, C. Hagen

UKSH, Luebeck, Germany

16:30 - 16:45

4C-S30-03

IMPLEMENTATION OF A TEMPERATURE TRACEABILITY SYSTEM FOR THE STORAGE AND TRANSPORT OF PACKED RED BLOOD CELLS (PRBC) FOR SURGERIES AND THE REUSE OF PROPERLY STORED BLOOD PRODUCTS

A. Uremendi, J. Mateos-Mazon, M. Vara, B. Aguirrebeitia, F. Zuazua, J. Garcia-Ruiz

University Hospital Cruces, Baracaldo, Spain

16:45 - 17:00

4C-S30-04

COMPUTERIZING BLOOD DONOR AND DONATION INFORMATION IN GHANA

E. N. Dei, L. Asamoah-Akuoko, M. Okyere

National Blood Service, Accra, Ghana

17:00 - 17:15

4C-S30-05

IMPLEMENTATION OF EVIDENCE-BASED AND COORDINATED BLOOD SUPPLY MANAGEMENT SYSTEM: ZIMBABWEEAN EXPERIENCE

T. Mapako, T. Z. Saira, M. Chakoma, L. M. Marowa

National Blood Service Zimbabwe, Harare, Zimbabwe

17:15 - 17:30

4C-S30-06

STOP THE WASTE OVER THE FESTIVE SEASON - HAVE WE IMPROVED?

J. Van Diemen, L. Bieby, C. Akens, B. Glazebrook, P. Beard, C. Hogan

Australian Red Cross Blood Service, Victoria, West Melbourne, Australia
Wednesday, June 21

08:30 - 10:00
Plenary Hall

**Immunobiology of blood cells**
Immunity against transfused red cells

*Moderators: M.H. Dziegiel (Denmark), C. Westhoff (USA)*

08:30 - 09:00
**5A-S31-01**
RED BLOOD CELL ALLOIMMUNIZATION: INDUCTION OF IMMUNITY AND POTENTIAL MITIGATION STRATEGIES

J. Hendrickson
Yale University, Guilford, United States

09:00 - 09:15
**5A-S31-02**
ANTI-D IMMUNISATION IN PREGNANCY – WHY ARE WOMEN STILL BECOMING IMMUNISED?

J. Keidan, P. Bolton-Maggs, D. Poles
NHSBT, Manchester, United Kingdom

09:15 - 09:30
**5A-S31-03**
RH-IMMUNOPROPHYLAXIS AND ABO INCOMPATIBILITY PROTECT AGAINST NON-RHD ALLOIMMUNIZATION BY PREGNANCY

C. Zwiers, L. Vermij, J. Koelewijn, D. Oepkes, M. de Haas, E. van der Schoot
Sanquin, Amsterdam, The Netherlands
Leiden University Medical Center, Leiden, The Netherlands

09:30 - 09:45
**5A-S31-04**
RH GENOTYPE MATCHING: THE EXPERIENCE OF THE AMERICAN RARE DONOR PROGRAM

M. A. Keller, T. Horn, J. Maurer, S. Nance
American Red Cross, Philadelphia, United States

09:45 - 10:00
**5A-S31-05**
IMMUNIZATION TO RED BLOOD CELL ANTIGENS IN PATIENTS WITH SICKLE CELL DISEASE IN MARTINIQUE ISLAND, FRENCH WEST INDIES

K. Guillaume, T. Peuyard
Institut National de la Transfusion Sanguine, Paris, France

10:00 - 10:30
Coffee Break

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Wednesday, June 21

08:30 - 10:00

**C10**

**Clinical**
Patient Blood Management

*Moderators: J. Stensballe (Denmark), C. So-Osman (The Netherlands)*

08:30 - 09:00
**5A-S32-01**
ADDRESSING CHALLENGES IN PEDIATRIC PATIENT BLOOD MANAGEMENT: ONE BABY STEP AT A TIME.

R. Goel, J. Josephson
NewYork-Presbyterian Hospital, Weill Cornell Medical College, New York, United States

09:00 - 09:15
**5A-S32-02**
UK-WIDE AUDIT OF RED BLOOD CELL TRANSFUSION IN HOSPICES

L. J. Estcourt, R. Gray, K. Neoh
NHS Blood and Transplant, Oxford, United Kingdom
University of Oxford, Oxford, United Kingdom

09:15 - 09:30
**5A-S32-03**
RECOVERY FROM ANEMIA AFTER HOSPITALIZATION & ASSOCIATED 30-DAY RATES OF RBC TRANSFUSION, RE-HOSPITALIZATION, AND MORTALITY

N. Roubian, D. Mark, V. Liu, G. Escobar, E. Murphy
Blood Systems Research Institute, San Francisco, United States

09:30 - 09:45
**5A-S32-04**
A NOVEL PATIENT BLOOD MANAGEMENT APP TO GUIDE JUNIOR DOCTOR DECISIONS ON RED CELL TRANSFUSIONS

S. Allard, T. Horn, J. Maurer, S. Nance
American Red Cross, Philadelphia, United States

09:45 - 10:00
**5A-S32-05**
ASSOCIATIONS BETWEEN PREOPERATIVE ANAEMIA, TRANSFUSION AND OUTCOMES IN OLDER HIP FRACTURE PATIENTS

G. Puckeridge, M. Terblanche, L. Fung, M. Wallis
University of the Sunshine Coast, Sippy Downs, Australia
Wednesday, June 21

08:30 - 10:00
C12

**Blood Safety**
Impacts on testing

*Moderators: M. Schmidt (Germany), U. Sprogøe (Denmark)*

08:30 - 09:00
5A-S33-01

**Drivers of Infectious Disease Threat Events: Implications for the Blood Supply**

J. C. Semenza
ECDC, Stockholm, Sweden

09:00 - 09:15
5A-S33-02


W. R. Steele, L. A. Crowder, E. P. Notari, D. P. Flynn, R. Y. Dodd, S. L. Stramer
American Red Cross, Rockville, United States

09:15 - 09:30
5A-S33-03

**Evidence of the Covert Risk: Propionibacterium Acnes, a Predominant Red Blood Cell Contaminant, Involved in a Septic Transfusion Reaction**

D. Kumaran, C. DiFranco, T. McIntyre, S. Ramirez-Arcos
Canadian Blood Services, Ottawa, Canada

09:30 - 09:45
5A-S33-04

**Infectivity of Blood Products Containing Cytomegalovirus DNA: Results of a Look-Back Study in Non-Immuno-Compromised Patients**

M. Ziemann, D. Juhl, C. Brockmann, S. Görg, H. Hennig
UKSH, Luebeck, Germany

09:45 - 10:00
5A-S33-05

**Preliminary Performance Characteristics of a Babesia Nucleic Acid Test on a Fully Automated System, and Results from Screening Donated Blood from Endemic Regions of the United States**

V. Bres, M. Proctor, D. Self, M. Portugal, A. Gurrola, L. Tonnetti, K. Grimm, S. Stramer, J. Linnen
Grifols, San Diego, United States
Wednesday, June 21

10:30 - 12:00
Plenary Hall

Plenary Session
Blood donor studies and Big data
Moderators: A. Wikman (Sweden), P. Flanagan (New Zealand)

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<td>10:30 - 11:00</td>
<td>USING BIG DATA FOR EXPLORING OUR UNIVERSE</td>
<td>T. Petersen. The Niels Bohr Institute, University of Copenhagen, Copenhagen, Denmark</td>
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<td>11:00 - 11:30</td>
<td>THE INTERVAL STUDY: AN RCT OF 50,000 DONORS TO OPTIMISE DONOR HEALTH AND THE BLOOD SUPPLY</td>
<td>D. J. Roberts, The Interval Study Group. NHS Blood and Transplant, Oxford, United Kingdom</td>
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<td>11:30 - 12:00</td>
<td>BIG DATA IN TRANSFUSION MEDICINE: FROM DONOR AND RECIPIENT HEALTH AND BEYOND</td>
<td>H. Ullum, G. Edgren, O. Pedersen, C. Erikstrup, H. Hjalgrim. Copenhagen University Hospital, Copenhagen, Denmark</td>
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<td>12:00 - 12:30</td>
<td>Closing Ceremony</td>
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<td>Svane</td>
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Posters

Poster Area
All accepted posters (publication and display) will be presented in the central hall on the ground floor, next to the exhibition area. A list of the posters on display can be found on the next page, in the online Abstract book and via the Mobile Application. The posters are set out according to the topic. The number of the abstract is displayed in the mobile application and on the poster board. Posters will be on display in the poster area for four and a half days.

Poster Mounting
Posters can be mounted as of Saturday, June 17 as of 08:00 hours onwards.
- The number of your poster can be found in the (online) Abstract book and the Mobile Application.
- Posters should be mounted with double sided tape only. Assistance and material for mounting the posters will be available from set-up time, at the poster desk in the poster area.

Opening hours Poster desk:
Saturday June 17 08.00 - 17.00 hours
Sunday June 18 08.00 - 21.00 hours
Monday June 19 08.00 - 18.30 hours
Tuesday June 20 08.00 - 17.00 hours
Wednesday June 21 08.00 - 13.00 hours

Poster Session
The Poster Session will be organised on Monday June 19, from 17:30 - 18:30 hours.
All Poster authors are kindly requested to be present at their poster during the entire session. The Poster session will be held to enable poster presenters to showcase their work. All delegates are invited to walk around the poster area to view the posters and to enter into lively and challenging discussions with the poster presenters. Snacks and drinks will be served.

Poster Material Removing
All posters should be taken before Wednesday, June 21 at 13:00 hours. Material that has not been taken down by the author(s) by this time will be removed and destroyed.

Responsibility for poster presentations
The ISBT and the Local Organising Committee do not assume any responsibility for material displayed on the poster boards.
1. Management and organisation
   1.1 Organisational issues
   1.2 Information technology
   1.3 Cost/effectiveness
   1.4 Training and education
   1.5 Risk models, standards and regulation
   1.6 Blood supply management and utilization
   1.7 Quality management

2. Blood donation
   2.1 Blood donor recruitment
   2.2 Blood collection incl. apheresis
   2.3 Donor adverse events

3. Blood products
   3.1 Blood processing, storage and release
   3.2 Blood components
   3.3 Plasma products
   3.4 Pathogen inactivation
   3.5 Novel blood products

4. Transfusion transmitted infections
   4.1 Screening strategies for TTI
   4.2 Hepatitis B (HBV)
   4.3 Hepatitis C (HCV)
   4.4 HIV
   4.5 Bacteria
   4.6 Parasites
   4.7 Newly emerging pathogens and other transfusion related pathogens

5. Immunohaematology
   5.1 Red cell immunology: Serology
   5.2 Red cell immunology: Molecular
   5.3 Platelet immunology
   5.4 Granulocyte immunology
   5.5 Fetal-maternal immunology

6. Clinical transfusion
   6.1 Neonatal and pediatric transfusion
   6.2 Therapeutic apheresis
   6.3 Evidence based transfusion medicine practice
   6.4 Haemorrhage and massive transfusion
   6.5 Adverse events, incl. TRALI
   6.6 Haemovigilance and transfusion safety
   6.7 Alternatives to blood transfusion

7. Cellular therapies
   7.1 Stem cell and tissue banking, incl. Cord blood
   7.2 Collection, processing, storage and release
   7.3 Clinical applications

8. Clinical immunogenetics
   8.1 HLA in transfusion medicine
   8.2 Histocompatibility in stem cell transplantation
   8.3 Histocompatibility in organ transplantation
General Information

Climate
The average temperature in June is 19.2 degrees Celsius. The climate in Copenhagen follows the four seasons of the northern hemisphere, but temperatures can still vary considerably.

Currency
The currency is the Danish Krone (DKK). One krone is divided into 100 Øre. VISA creditcards are generally accepted, but ATMs are located frequently throughout the city. Make sure to bring your pincode.

Dress code
Business or business casual.

Electricity
The domestic supply is, like other European countries, 220 volts. Sockets suitable for two-pin continental design are the norm. Adapters can be purchased in local supermarkets.

Insurance
Delegates are recommended to obtain travel insurance (medical, personal accident and luggage) in their home country prior to departure.

Safety
Generally, Copenhagen is a safe city. However, do be aware of pickpockets in busy areas, such as the Central Station. Should you have any issue you can reach the police by calling 114. In case of urgent matters you can call 112 for ambulance service, fire stations, and police.

Shopping
Copenhagen is viewed as offering a great shopping experience, with many design stores, ‘Danish design’ boutiques, and much more.

Smoking
Smoking is not allowed in public indoor areas.

Tipping
Tipping is not a tradition in Copenhagen. If you receive extraordinary good service you are welcome to give a tip, but it is not expected.

Water
Tap water is of a high quality and safe to drink.

The ISBT is an international community of professionals sharing knowledge to enhance transfusion practice. ISBT members have access to the ISBT Academy ePortal, ISBT Webinars, and the ISBT Forum. Members also have the opportunity to meet other transfusion medicine professionals at ISBT Regional and International Congresses and benefit from a discounted registration fee.

Fees for 2017-18
Please note that all fees are in Euros - €

<table>
<thead>
<tr>
<th>Individual membership</th>
<th>≤ 35 years</th>
<th>36-69 years</th>
<th>≥ 70 years</th>
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*If you apply for the under 35 year discount you will only be able to access Vox Sanguinis and Transfusion Today online. If you live in a Low Development country you will receive the full membership for 695 per year.

The ISBT Academy ePortal was created exclusively for ISBT members, with a rich variety in content that is updated continuously.

• Practice guidelines
• Webcasts
• ePosters
• Learning Quizzes
• Presentations
• Abstracts
• Textbooks
• And much more...

Become a member and:
• Stay informed
• Update your knowledge
• Meet colleagues

Benefits include:
• eLearning opportunities
• International network
• Vox Sanguinis
• Congress discount
• Specialized forums for Young Investigators and Transfusion Practitioners

ISBT Central Office
Marnixstraat 317
1016TB Amsterdam
The Netherlands
Tel: +31 (0)20 760 1760
Fax: +31 (0)20 760 1761
E-mail: office@isbtweb.org
Sunday, June 18

17:30 - 18:15 hours
Plenary Hall

Opening Ceremony

All delegates, Accompanying persons and Exhibitors are welcome to attend.

17:30 - 17:40  Welcome address by Vengetassen (Ravi) Reddy, ISBT President
17:40 - 17:50  Welcome address by Jørgen Georgsen, Congress President
17:50 - 17:55  Presentation of the Talking Stick by the ISBT President to the Congress President
17:55 - 18:05  Presentation of ISBT Awards and Prizes
   1) ISBT Award for Developing Countries
   2) ISBT Award
   3) Vox Sanguinis Best Paper Prize
   4) Award to ISBT by AABB
18:05 - 18:15  Entertainment
18:15         All delegates, Accompanying persons and Exhibitors are invited to proceed to the Welcome Reception in the Exhibition area

18:15 - 21:00 hours
Exhibition area

Opening of the Trade Exhibition and Welcome Reception

The welcome reception will be held at the Exhibition area. The reception will permit the delegates to meet old friends and colleagues and make new acquaintances during the evening while enjoying conversations.
Congress Party

Tuesday, June 20
19:30 - 23:30

Øksnehallen
Price: € 50 per person, tickets available at the social programme desk

Enjoy a night at the Øksnehallen, a stunning building in the centre of Copenhagen! Different buffet stations will serve you with the best food. Catch up with friends during a game, dance the night away or sit back in one of the lounge areas. A great opportunity to expand your network!

The characteristic Øksnehallen used to be stables for cattle, but have been transformed into a wonderful location in the middle of Copenhagen that has hosted events such as the World Press Photo. It is situated in the Vesterbro area, characterised by its vibrant cafés, diverse shops, and culinary restaurants.

Accompanying Persons Tour

Monday, June 19
12:30 - 17:30 hours
Departure & Return: Bella Center, West Entrance

Sustainable Copenhagen 2020 vision
Included in the registration fee for accompanying persons
Price for delegates: € 90
A small lunch is included (one sandwich and juice)

Enjoy the vibrant and green Nørrebro, encounter green initiatives, passionate as well as green companies, urban farming, city bees, green shops and modern city planning that in perfect symphony connects the multicultural atmosphere with sustainability and the joy of life.
At Abbott, we understand the vital role each blood and plasma service has on the health system. That is why we have been committed to the safety of the world’s blood and plasma supply for over 40 years. Moving forward, we are partnering with our customers to help them achieve measurably better healthcare performance and innovate the products and services they provide to the healthcare community.

EXPERIENCE PERSONALIZED INNOVATIONS
NOW LAUNCHING AT THE ABBOTT BOOTH IN HALL C, STAND C3.526
ISBT thanks everyone joining the Exhibition held in the association with the 27th Regional Congress in Copenhagen, Denmark. The Exhibition enhances the congress experience and visiting the different companies to talk about the products on offer helps you with business decisions. In the Exhibition area you will find over 75 of the major international companies working and involved with transfusion technology. The booths give the companies the opportunity to showcase their products and services. It gives you, the delegate, an opportunity to meet face to face with representatives who can share knowledge of their products and technologies with you ultimately leading you to make informed business buying decisions.

The Exhibition area is also the perfect place for you to network with colleagues from around the world during the coffee, tea and lunch breaks as all refreshments will be served on the exhibition floor.

**ISBT Booth**
The ISBT booth is located in the heart of the exhibition with booth number C3.422. Here you can meet the staff, find out more about the Society, become a member, get information about the library of guidelines, standards and regulatory documents, discover the e-learning portal. Information on the upcoming congresses taking place in Guangzhou, China (November 25 - 28, 2017) and Toronto, Canada (June 2 - 6, 2018) will be available on the booth.
The ISBT and the Local Organising Committee of the 27th Regional Congress of the ISBT, is grateful that the following companies are willing to support the congress:

AABB
Abbott
Actemium
Andreas Hettich GmbH & co. KG
Angelantoni Life Science SRL
Applied Science (UK) Ltd.
Asahi Kasei
Ashland LLC
AusBio Laboratories
B Medical Systems
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CGI Finland
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DiaSorin
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ICCBA
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Inno-Train Diagnostik GmbH
IPFA
International Society for Blood Transfusion
Jiaxing Tianhe Pharmaceutical Co., Ltd.
Kawasumi Laboratories, Inc.
KW Apparechi Scientifi
Liconic AG
Linkage Biosciences, Inc.
Lmb Technologie GmbH
M.&G. Int.1 srl
Macopharma
MAK-System
Medinfo international Hemoservice
Möller Medical GmbH
MTC Invitro Diagnostics AG
NanoEntek
NRL, Australia
OrSense Ltd.
Ortho Clinical Diagnostics
Quotient
Rad Source Technologies, Inc
Roche Diagnostics
Safetrax Biomedical
Sanquin Reagants
Sichuan Nigale Biotechnology Co. LTD
Sigma Laborzentrifugen GmbH
Stratec
Strub GmbH
Technoflex
Terumo BCT
Thermo Fisher Scientific
Timestrip Ltd.
Weigao Medical International Co., Ltd.
Wuhan BMS MedicaTech Co., Ltd.
Zaavia
Speakers will address the potential role of extended phenotyping in the sense of better matching donor units to patients, and so reduce the risk of alloimmunization.

Topics will include: limitations of current practices; potential changes in practice with an eye toward future standards of care; and the health economic impact.

Speakers will share examples of how they have implemented initiatives in patient matching and advanced donor identification with the goal of mitigating alloimmunization.

Tuesday, June 20 • 12:00 –1:30pm • Bella Center, Room C12

**SPEAKERS**

- **Antibodies and the Haematology Patient**
  - **DR. JONATHAN WALLIS**, NEWCASTLE HOSPITAL, UK

- **Strategies To Provide Phenotyped Blood From a Blood Centre**
  - **DR. JILL STORRY**, LUND UNIVERSITY, SWEDEN

- **The Future of Blood Group Matching**
  - **PROF. DAVID ROBERTS**, JOHN RADCLIFF HOSPITAL, UNIVERSITY OF OXFORD, UK

**CHAIR / MODERATOR**

- **DR. GEOFFREY DAVID POOLE**

[PLEASE COME VISIT QUOTIENT AT ISBT 2017 BOOTH C3.418]
Visit Terumo BCT at ISBT booth C2.226 and the poster exhibit (P135 and P139) to find out what Trima Accel V7.0 can do for your blood center.

**Trima Accel**® **Automated Blood Collection System V7.0**


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Sunday, June 18

12.00 - 13.30
Room C14

Abbott

Achieving Measurably Better Healthcare Performance with Purpose Built Blood and Plasma Screening Solution

Chair: Christian Fischer, Dr. med., Senior Medical Director (Abbott)

12.15 - 12.35
DESIGNING ALINITY S ASSAYS TO ENHANCE PERFORMANCE FOR BLOOD AND PLASMA SERVICES
Marta Llende, Ph.D., Director Product Development (Abbott)

12.35 - 12.55
EXPERIENCING THE NEW ALINITY S SYSTEM
Ivanka Mihaljevic, Ph.D., Croatian Institute of Transfusion Medicine (CITM)

12.55 - 13.15
OPTIMIZING THE FLOW OF DATA THROUGHOUT THE BLOOD AND PLASMA SERVICE WITH ALINIQ
Luca Birolini, Senior Director IT R&D (Abbott)
Monday, June 19

07.00 - 08.30
Room B51

Grifols

Blood Transfusion: Emerging and Re-Emerging Infectious Diseases

07.00 - 07.05
ENTRANCE & WELCOME

07.05 - 07.25
VECTOR-BORNE AGENTS IN THE US: AN UPDATE ON ZIKA VIRUS AND BABESIA
Dr. Susan Stramer, Vice President, Scientific Affairs, American Red Cross, Gaithersburg, USA

07.25 - 07.45
ID-NAT TRIAL FOR HEV IN TOKYO
Dr. Masahiro Satake, Director General, Central Blood Institute, Blood Service Headquarters, Japanese Red Cross Society, Tokyo, Japan

07.45 - 08.05
WEST NILE VIRUS IN EUROPE
Dr. Vittorio Sambri, Associate Professor of Microbiology, University of Bologna and Head, Unit of Microbiology, the Greater Romagna Area Hub Laboratory, Bologna, Italy

08.05 - 08.15
Q&A
Monday, June 19

12.00 - 13.30
Room C12

Cerus Europe BV

**INTERCEPT™ Blood System after > 2 million platelet transfusions: Clinical evidence and contribution of multi-dose workflows on affordability**

12.10 - 12.15
OPENING
R. Henschler, Blutspendedienst SRK, Zurich, Switzerland

12.15 - 12.35
IMPLEMENTATION OF DOUBLE DOSE PATHOGEN INACTIVATED PLATELETS IN ROUTINE WITH PRODUCTIVITY AND COST OPTIMIZATION
MB S. Madsen, Klinisk Immunologi - Aalborg University Hospital, Aalborg, Denmark

12.35 - 12.55
CURRENT CLINICAL RESULTS WITH INTERCEPT PLATELET CONCENTRATES
R. Henschler, Blutspendedienst SRK, Zurich, Switzerland

12.55 - 13.15
VALIDATION OF INTERCEPT TRIPLE STORAGE PROCESSING SETS WITH HIGH YIELD BUFFY COATS AND Apheresis PLATELETS
T. Najdovski, Service du Sang de la Croix-Rouge de Belgique, Suarlée, Belgium

13.15 - 13.20
Q&A
Monday, June 19

12.00 - 13.30
Room C14

Immucor

**Novel monoclonal antibody therapy treatments: Molecular and Serological approaches to resolving laboratory interference**

Recently emerged monoclonal antibody therapy treatments (such as anti-CD38, Daratumumab) have been extremely beneficial on the clinical side. However, the introduction of these new therapies which interfere with traditional compatibility test methods has created new challenges for the laboratories. The approach taken in two globally renowned centers will be presented during this symposium: New York Blood Center (USA) and John Radcliffe Hospital Oxford (UK) experiences.

12.00 - 12.15  
ENTRANCE & WELCOME

12.15 - 12.45  
Connie M. Westhoff, SBB, PhD, Executive Scientific Director Immunohematology and Genomics

12.45 - 13.15  
Julie Staves, Transfusion Laboratory Manager
Monday, June 19

12.00 - 13.30
Room C15

Roche

Transfusion Recipient Safety in the ear of Zika and HEV infections

12.15 - 12.20
WELCOME & INTRODUCTION
Prof. Dr. Michael Schmidt, Head of Quality Management, German Red Cross, Frankfurt, Germany

12.20 - 12.40
THE DUTCH ROAD TO HEV DONOR SCREENING
Hans Zaaijer, MD, PhD, Sanquin, Amsterdam, the Netherlands

12.40 - 13.00
ROCHE ZIKA IND AND REDS III LONGITUDINAL STUDY
Michael P. Bush, MD, PhD, Director, Blood Systems Research Institute, San Francisco, USA

13.00 - 13.20
ROCHE DIAGNOSTIC IMMUNOASSAYS – DIFFERENTIATING ZIKA ANTIBODIES FROM OTHER FLAVIVIRUSES
Alexander Riedel, PhD, Assay Development R&D, Roche Diagnostics, Penzberg, Germany

13.20 - 13.30
Q&A
Prof. Dr. Michael Schmidt, Head of Quality Management, German Red Cross, Frankfurt, Germany
Tuesday, June 20

12.00 - 13.30

Room C12

Quotient & Ortho Clinical Diagnostics

**Improving patient care with better matched blood**

*Chair/Moderator: Dr. Geoffrey Poole*

12.15 - 12.35

ANTIBODIES & THE HAEMATOLOGY PATIENT
Dr. Jonathan Wallis, Newcastle Hospital, UK

12.35 - 12.55

STRATEGIES TO PROVIDE PHENOTYPED BLOOD FROM A BLOOD CENTRE
Dr. Jill Storry, Lund University, Sweden

12.55 - 13.15

THE FUTURE OF BLOOD GROUP MATCHING
Prof. David Roberts, John Radcliffe Hospital, University of Oxford, UK
Tuesday, June 20

12.00 - 13.30
Room C14

Macopharma

Blood Safety Symposium

12.15 - 12.35
COST-UTILITY AND BUDGET IMPACT OF METHYLENE BLUE-TREATED PLASMA COMPARED TO QUARANTINE
Brian Custer, BSRI

12.35 - 12.55
THE PERFORMANCE OF THE THERAFLEX TECHNOLOGIES ON EMERGING PATHOGENS
Denese Marks, ARCBS

12.55 - 13.15
THERAFLEX UV-PLATELETS: CAPTURE TRIAL - STUDY DESIGN
Axel Seltsam, DRK NSTOB
Tuesday, June 20

12.00 - 13.30
Room C15

Grifols

Adaptive and flexible: the future of immunohematology

12.00 - 12.10
ENTRANCE AND WELCOME

12.10 - 12.45
MODERN TRANSFUSION LABORATORIES NEED FLEXIBLE TECHNOLOGY: A NEW SOLUTION BECOMES AVAILABLE
Mr. Chris Elliot, Haematology Directorate, Pathology Dept. The James Cook University Hospital, Middlesbrough, UK

12.45 - 13.00
EXTENDED PHENOTYPE: HOW TO MAKE IT EASIER
Dr. Beate Mayer, Head of immunohaematology reference laboratory Institute of Transfusion Medicine, Charité – Universitätsmedizin Berlin, Germany

13.00 - 13.20
PREGNANCY AND WEAK D PATIENTS: A PRACTICAL APPROACH
Dr. Åsa Hellberg, Coordinator for Nordic reference laboratory for blood group genomic typing. Lund University, Sweden

13.20 - 13.30
Q&A
ISBT was founded in 1935 to advance transfusion medicine and to connect people working in the field of transfusion medicine. The ISBT has become a platform where professionals meet to exchange knowledge and develop new ideas. At ISBT congresses we connect professionals not only with each other, but also with the industry.

As we believe a cooperation between corporate entities and transfusion medicine professionals around the world is an important factor in advancing transfusion medicine, we invite you to become a Corporate Partner of the ISBT.

As a Corporate Partner of our society you will be able to sit in on Working Party meetings*, attend our congresses with a discount, and be recognised by all members of ISBT as a company that helps ISBT to advance transfusion medicine worldwide.

For more information please visit the ISBT booth in the exhibition hall at booth number C3.422. We look forward to welcoming you.

Our current Gold Corporate Partners are Abbott, Bio-Rad, DiaSorin, Grifols, Immucor, Quotient, and Roche.

*only applicable to Gold and Platinum Corporate Partners
Exhibitors

**C3.619 AABB**

8101 Glenbrook Road  
Bethesda, MD 20814-2749  
United States of America

Contact: Adrienne Fierro  
T: +1.301.907.6977  
E: afierro@aabb.org  
W: www.aabb.org

AABB is an international, not-for-profit association representing individuals and institutions involved in the fields of transfusion medicine and cellular therapies. Stop by booth C3.619 to see how the association is committed to improving health through the development and delivery of standards, accreditation and educational programs that focus on optimizing patient and donor care and safety. AABB membership includes physicians, nurses, scientists, researchers, administrators, medical technologists and other health care providers. AABB members are in more than 80 countries and accredits institutions in over 50 countries.

**C3.526 Abbott**

100 Abbott Park Road  
D56K, CP-5, Abbott Park  
IL  60064, United States of America

Contact: Sheila Waters  
T: +1.224.668.5525  
E: sheila.waters@abbott.com  
W: www.abbottdiagnostics.com

Abbott is a global leader in in vitro diagnostics offering a broad portfolio spanning immunoassay, clinical chemistry, hematology, blood screening, molecular, bio-identification, point of care, and informatics. Our diagnostics solutions are more than just a test or data point, they are designed to anticipate, leverage and improve decision-making and patient care across the entire health care system. As one of the only diagnostics businesses providing such a broad portfolio, Abbott is focused on an integrated diagnostics solution powered by innovations that can help our customers channel change into growth and deliver exceptional performance.
C3.605 Actemium NDT-Products & Systems

ZAE de la Tremblaie - Rue de la Mare aux Joncs
CS41007 - 91220 Le Plessis-Pâté
France

Contact: Nicolas Léger
T: +33 (0)1 69 88 67 45
E: nicolas.leger@actemium.com
W: www.cegelec-ndt-pes.com

Actemium NDT-P&S presents the BloodXrad, an X-ray blood irradiator for bloodbags and biological products. This X-ray solution is an efficient and safe alternative to isotope devices as it provides the same performances and reliability as Cesium-137 Irradiators. The BloodXrad is unique in the world for its performance in the homogeneity of distribution of the defined dose, which is the guarantee of safety and security for the transfused people.

C3.618 Andreas Hettich GmbH & Co. KG

Foehrenstr. 12-18
D-78532 Tuttlingen
Germany

Contact: Kevan White
T: +49 7461 705 0
E: info@hettichlab.com
W: www.hettichlab.com

The development of modern laboratory centrifuges is closely linked to the history of the Hettich-Zentrifugen company. Hettich’s roots go back for more than 110 years. Today’s product range comprises a complete program of centrifuges for virtually every centrifuging task required in practice; e.g. microlitre, hematocrit, benchtop, underbench, floorstanding, blood bank, robotic centrifuges, refrigerated and non-refrigerated as well as cell washers and incubators.
**C3.518 Angelantoni Life Science Srl**

Loc. Cimacolle 464  
06056 Massa Martana  
Italy

Contact: Giorgio Citarei  
T: +39.075.89551  
E: biomedical@angelantoni.it  
W: www.angelantonilifescience.it

Angelantoni Life Science is a global leader in the manufacturing of cold, air flow and infection control equipment for hospitals, laboratories and pharma industries. Angelantoni is deeply involved to cope the increasing global demand for better life conditions, using the most advanced technology also in the field of blood devices: Hemosafe® the automated and computerized blood bank refrigerator that allows the operator to allocate and pick the right bag for the right patient at the point of care and at the time of actual need. Plasmaflow IT.E.M blast plasma freezer equipped with computer that allow validation of freezing’s cycle.

**C2.126 Applied Sciences**

3 Wayside House, London Rd. Braunston NN11 7HN  
Northamptonshire, United Kingdom

Contact: Franck Cailliez  
T: +44(0) 800 368 7601  
E: franck.cailliez@applied-science.com  
W: www.applied-science.com

Applied Science Inc is the manufacturer of the Smart Mixer HemoFlow, used by leading blood organizations around the world. We provide also software applications for the management of blood donor registry (Donor-ID), blood draw data collection (CMRS), blood production (HemoVue) and blood organization productivity management. The connectivity solutions for various devices used in blood organizations (BEPS) enhance the data transfer to the BECS with total safety and vendor independance. STRATEGICALLY SIMPLE SOLUTIONS.
C3.512 Asahi Kasei Medical Co., Ltd.

1-105 Kanda Jinbocho, Chiyoda-ku
Tokyo 101-8101
Japan

Contact: Mariko Ocada
T: +81-(0)3-3296-6154
E: ocada.mb@om.asahi-kasei.co.jp
W: www.asahikasei-medical.com

Asahi Kasei Medical’s wide range of innovative medical products combine advances in life science, polymer chemistry, and mechanical engineering with separation technology based on functional materials. Developed through the application of core technologies, our therapeutic and bioprocess filters have become the de facto standards in blood purification, leukoreduction, and virus removal. The world standard leukoreduction filter, Sepacell™, which has a variety of products for whole blood, red cells, and platelets, has been heightening the quality and safety of blood products for transfusion, and contributing to the progress of transfusion therapy.

C2.330 Ashland LLC

1005 Route 202/206, 08807
Bridgewater, NJ
United States of America

Contact: Rosemarie Fairman
T: +1 908-243-4766
E: rfairman@ashland.com
W: www.ashland.com/radsure

Ashland LLC provides your trusted two-part quality system to comply with blood irradiation regulations. For 25 years, RAD-SURE™ blood component indicators, with ISBT 128 bar coded lot numbers, provide positive, visual verification of irradiation, while the DOSE-MAP™ QA tool measures and maps the absorbed dose to validate the performance of a blood irradiator. In combination, RAD-SURE™ and DOSE-MAP™ offer an unparalleled quality system for blood irradiation. Ashland LLC is proud to introduce our new RAD-SURE™ UVA3J multi-part UVA indicator for pathogen reduction.
C3.503 Ausbio Laboratories Co. Ltd.
No. 2 Huashan Road Yantai
Shandong
China
Contact: Jinhai Wang
T: +86(0)535 6389000
E: jhwang@ausbio.com
W: www.ausbio.com
AusBio is a competent and dominate supplier of liquid handling equipment and laboratory automation for clinical and forensic applications. For more than 20 years, AusBio has enabled hundreds of Chinese forensic, blood banks and hospitals laboratories with more than 1500 automated platforms. AusBio has become a leading brand known for its expertise, reliability and service. We are devoted to support integration of key-enabling IVD technologies with our new products.

C3.530 B Medical Systems
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B Medical Systems is a pioneer in the medical industry and specializes in research, development and the manufacture of professional refrigerators, freezers, storage and solutions for safe transport and management of blood and vaccines. With our worldwide network of distributors, our Research and Development capability and flexible manufacturing facilities, we will continually strive for excellence in product development, manufacturing and customer service across all of our product lines. B Medical Systems S.à r.l. is an innovative and customer-oriented company, which has always been recognized for the excellence and performance of its products.
C2.221 BAG Health Care GmbH

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Germany

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With more than 30 years of experience BAG Health Care is the specialist for HLA and Blood Group diagnostics. As an independent, global operating company we offer permanent ongoing development of our products and services. Our product portfolio includes a full range of Serology, SSP and SSO test kits for HLA and Blood Group diagnostics. Visit our booth to find out more about us and our automated molecular blood group typing: ERY SPOT® SSO system - we will be glad to provide you with detailed information.

C2.118 Barkey GmbH & Co KG

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Barkey is a globally active manufacturer located in Bielefeld, Germany. We are a specialist of medical equipment with a focus on warming devices. Our portfolio contains devices for dry thawing and warming of plasma (FFP), blood and stem cells respectively and blood warmers, infusion warming devices, warming cabinets in order to pre-warm solutions and textiles as well as baby bottle warmers and pasteurizers for breast milk. Barkey sells in more than 60 countries and our devices are applied in departments for anesthesia, blood banks, intensive care units (ICU), operation theater (OT), recovery rooms as well as neonatal intensive care units (NICU).
C2.128 Best Theratronics Ltd

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Best Theratronics is the world’s leading manufacturer of blood and research irradiators. Offering both gamma and x-ray, we have a long history of reliability, support and high-quality products. The Gammacell 1000 Elite and Gammacell 3000 Elan prevent graft-versus-host disease and are considered the “Gold Standard” in countless clinics worldwide. Our Raycell Mk2 dual x-ray tube device delivers unparalleled dose uniformity across its 2.0L and 3.5L canisters. All units come with barcode readers to scan blood labelling to help record and maintain integrity and management of blood irradiation data.

C3.604 BioFortuna Ltd

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Biofortuna Ltd is a diagnostics company offering ReadyPlexTM, an exciting new range of real-time PCR-based products for genomic analysis of erythrocyte blood groups, Human Platelet Antigens (HPA), Human Neutrophil Antigens (HNA) and coagulation polymorphisms. The kits are convenient and quick to use. They only require the addition of ReadyPlex mastermix combined with extracted DNA. After PCR, the ReadyPlex software enables easy genotyping. Please visit our stand for further information, a trial of the software and sign up to receive demo kits.
C2.107 Biolog-ID

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Biolog-ID is known as the expert in RFID Blood Supply Management Solution. By adding an RFID tag to each blood product, providing smart shelving storage kits and equipments as well as easy to use software solutions, we enable transfusion centers and hospitals to effectively monitor/manage blood supply from donation all the way to the patient. As such, we connect healthcare professionals to the information they need most, while helping them improve traceability, safety, and security very efficiently.

C3.514 bioMérieux

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World leader in the field of in vitro diagnostics, bioMérieux has been providing diagnostic solutions for 50 years, and is now operating in more than 150 countries through 41 subsidiaries and a large network of distributors. bioMérieux Industry is a specific business unit of bioMérieux with dedicated R&D, marketing, and commercial resources.

Developing and Producing the largest range of microbial control solutions (reagents, instruments, software and services), bioMérieux Industry provides answers from sample preparation to final identification and typing of microorganisms.

bioMérieux is determined to continue to play a pioneering role by innovating and designing the diagnostics of the future to address the major challenges for public health worldwide.
**C3.507 Bionic Medizintechnik GmbH**

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Bionic Medizintechnik GmbH was founded in 1978 and joined the international JMS group in 1993. Our office is located near Frankfurt / Main, Germany from where the products are distributed and shipped world-wide. Meanwhile we sell our products in more than 40 countries and in all six continents. Blood bags and transfusion products, produced by JMS, are known for constant quality and reliability. Advanced production technology and scientific know how is our basis to be one of the leading companies in the market for transfusion disposables.

**C3.409 Bio-Rad**

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Bio-Rad Laboratories, Inc. (NYSE: BIO and BIOb) develops, manufactures, and markets a broad range of innovative products and solutions for the life science research and clinical diagnostic markets. The company is renowned for its commitment to quality and customer service among university and research institutions, hospitals, public health and commercial laboratories, as well as the biotechnology, pharmaceutical, and food safety industries. Founded in 1952, Bio-Rad is based in Hercules, California, and serves more than 100,000 research and healthcare industry customers through its global network of operations.
C3.403 Cerus Europe BV

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W: www.interceptbloodsystem.com

Cerus Corporation is a biomedical products company focused in the field of blood safety. The INTERCEPT™ Blood System is designed to reduce the risk of transfusion-transmitted infections by inactivating a broad range of pathogens such as viruses, bacteria and parasites that may be present in donated blood. The nucleic acid targeting mechanism of action of the INTERCEPT treatment is designed to inactivate transfusion threats, such as hepatitis B and C, HIV, West Nile virus, Chikungunya, malaria, dengue and bacteria. Cerus currently markets and sells the INTERCEPT Blood System for both platelets and plasma in the United States, Europe, CIS, the Middle East and selected countries in other regions around the world.

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Founded in 1976, CGI is one of the largest IT and business process services providers in the world. Operating in hundreds of locations across the globe, CGI helps clients become customer-centric digital organizations. CGI has long and extensive experience of Social and Healthcare sectors and we support our clients in transforming into digital enterprises end to end. CGI works with clients around the world through a unique client proximity and best-fit global delivery model to accelerate their digital transformation, ensure on-time, within budget delivery, and drive competitive advantage in today’s increasingly digital world.
C2.134 CLST Austria GmbH

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Providing customized and high grade solutions for freezing and storage of biological materials. Our main focus is on blood plasma, tissue samples and stem cells. We offer following solutions:

• Tissue banks
• KLS - modular storage systems. Permanent documentation of storage parameters. Temperature range: +4°C to -160°C. We use liquid nitrogen as coolant.
• Automated robotic retrieval systems for stored samples
• Inventory software (chaotic storage ability) with GLP documentation and RFID
• KLF Plasma Freezer for controlled rate freezing of plasma bags down to – 40°C core temperature

C2.114 Computype

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Blood centers big and small around the world find value in our dual manufacturing facilities, which ensure a constant supply of critical blood labels regardless of local conditions. We understand the intangible value of a unit of blood, and what it can mean to both the donor and the recipient; you can be confident that Computype solutions support these life-saving missions.
C3.615 Conroy Medical

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Conroy Medical, established in 1988, develops and manufactures medical equipment, primarily for use in the field of transfusion medicine. Most of our products are sealers for use on plastic bags, sets and tubing during blood component donation and preparation. We also produce sealing systems as OEM. Our instruments stand for quality, safety and ease of use. Our Qseal models cover the sealing needs from heavy duty laboratory use to mobile use. We are represented worldwide through our distributor network. Examples of customers are pharmaceutical companies, laboratories, hospitals, private clinics and charity organisations like the Red Cross and Médecins Sans Frontières.

C2.212 European Directorate for the Quality of Medicines & HealthCare (EDQM)

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EDQM develops harmonised quality, safety and ethical standards for the collection, preparation and use of blood components. It also develops quality programmes that allow blood establishments (BEs) to implement or further improve their B-QM systems and supports BEs in the application of relevant technical instruments and European legislation.

Publications:
• NEW RELEASE! 19th Edition Guide to the Preparation, Use and QA of Blood Components
• Good Practice Guidelines jointly developed by EDQM and EU Commission, describing mandatory quality and specification standards for a quality system to be implemented in BEs.

Programmes:
• Blood Quality Management Programme (B-QM)
• Blood Proficiency Testing Scheme (B-PTS)
C2.233 DAY Medical SA

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DAY medical SA is located in Avenches, Switzerland, near Morat, Fribourg and Bern. By providing innovative, high quality products and services, we aim to an important collaborator with all transfusion laboratories. With a real focus on continuous improvement, we always question ourselves and strive to make the best products and services available to our customers. We want every customer interaction to be a positive experience and relationships with our business partners to be long-lasting.

C3.407 Delcon Srl

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Delcon is a world player in the design and production of medical devices for blood banks, haematology and microbiology. The company can rely on a great expertise in engineering, technology, operations and creative thinking to commit to high quality standards and continuous improvement. Behind our vision there is a very simple idea: we always think about the needs of people using our devices. We believe that building high-trust relationships among employees and with stakeholders inspires creativity and possibility. That’s why we foster innovation by encouraging cooperation, teamwork and trust.
**C3.611 Delta T GmbH**

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delta T is dedicated to developing and producing thermal stabilizing elements and insulated boxes, to maintain sensitive products at specific temperatures. We offer transport solutions for whole blood, RBCs and FFP at storage temperature. On the basis of enthusiasm, knowledge and experience in the cold chain field, delta T plays a major role in providing efficient solutions to pharmaceutical industry, blood banks, laboratories and biomedical companies.

**C3.522 Demophorius Healthcare**

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Demophorius is committed to product development, Quality & Reliability. Demotek blood bags are continuously upgraded to meet the new challenging demands in medical care, as well as the growing needs for safety enhancement in blood related products like the prevention of adverse effects on blood transfusion.
C2.322 Diagast

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Diagast is health professional’s privileged partner for Immuno-Haematology testing solutions.
Our company based in France designs, produces and markets tailor-made solutions in over 100 countries and offers a wide range of blood typing antibodies and reagents.
As an International major player in Transfusion field with 42 proprietary clones and a high production capacity, we are constantly innovating.
Come to see DIAGAST on booth N°C2.322 during ISBT with two flagship products:
• QWALYS 3 Evo : high performance blood grouping automated system
• ABD PAD : innovative device for ABO/RH blood group confirmation in only 30’ and 3 steps

C2.215 DiaSorin S.p.A.

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DiaSorin - The Diagnostic Specialist
DiaSorin is a global leader in the field of biotechnologies, developing, producing and marketing reagent kits for in vitro diagnostics worldwide for over 40 years.
Among its line of products used by diagnostic laboratories to meet the needs of the following clinical areas: infectious diseases, hepatitis and retrovirus, cardiac markers, bone metabolism, oncology and endocrinology, DiaSorin can offer a complete solution for blood banks in both CLIA and ELISA technology.
The menu offered by DiaSorin today comprises the complete panel of hepatitis B markers, hepatitis C, HIV 4th generation, HTLV, Treponema, and Chagas Assay.
C3.426 Fresenius Kabi Deutschland GmbH

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Fresenius Kabi is a global healthcare company that specializes in lifesaving medicines and technologies for infusion, transfusion and clinical nutrition. The products and services are used to help care for critically and chronically ill patients. The company’s portfolio comprises I.V. generic drugs, infusion therapies and clinical nutrition products as well as related medical devices. Within transfusion technologies, Fresenius Kabi offers products for collection and processing of blood components and for therapeutic treatment of patient blood by apheresis systems.

C3.519 Fujirebio Inc.

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In 1950, Fujirebio Inc. was established in Japan. Subsequently, Fujirebio became a global life science company, we now supply diagnostic products to more than 100 countries worldwide.

Fujirebio, a leader in the field of immunoassay, developed first fully automated high sensitivity Chemiluminescent Enzyme Immunoassay analyzer onto the market in 1992.

LUMIPULSE G1200, L2400, Presto and G600 have been installed more than 1,300 units in Japan.

We are developing immunoassay test kits for those automated systems including reagents for infectious diseases, tumour markers, and various kinds of hormone and lifestyle-related disease, which meet high clinical needs. Fujirebio has launched LUMIPULSE G series in Europe, Korea, Taiwan, China and USA market, which have been installed more than 360 units.
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Gamma-Service Medical GmbH is a global acting medical technology company in the field of isotope technology. We are manufacturer of equipment like self-contained gamma irradiation devices BIOBEAM GM for blood irradiation and units for irradiation of cells or animals in research. Our quality management system is certified according to EN ISO 13485:2012 + AC:2012.

C2.119 GenesisBPS
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GenesisBPS meets client needs, worldwide, for the collection, processing, storage, and preparation of blood and other biological fluids. We do so by combining advanced technology, seamless automation, quality standards and operational efficiencies, working together to produce products and services of outstanding precision and reliability. GenesisBPS is positioned at the forefront of what we can do and at the leading edge of what we will do, providing ideas, solutions, and innovation to the world.
**C3.531 GFE Blut mbH**

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GFE Blut is an expert for the research, development and distribution of automated NAT diagnostics for blood donation testing. The new POET instrument offers the highest degree of automation on the smallest footprint, including pooling, archiving, extraction and PCR analysis. Combined with the user friendly SW, the system guarantees an optimal workflow and an unparalleled user experience. Covering a broad range of virus genotypes, combined with the unique triple-target virus analytic, the GFE NAT kits have been optimized for the highest process safety and data integrity. The GFE takes special care of individual customer needs.

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**C2.111 Gilardoni SPA**

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Gilardoni S.p.A. established in Italy in 1947 provides X-ray and ultrasonic products, components and services in medical, non-destructive testing and security sectors.

RADGIL2 is a fast multipurpose X-ray based irradiation equipment. For blood irradiation (the aim is to eliminate the lymphocytes responsible for the TA-GvHD in immunosuppressed or otherwise at-risk patients), the unique removable rotating canister allows maximum dose homogeneity, whereas, once removed, the entire cabin volume is totally available for irradiation of cells, tissues, small animals, etc.
C2.312 Grifols

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An experienced and trusted partner, Grifols advances patient care with innovative diagnostic solutions that improve disease detection and management and simplify laboratory operations. Today, we empower customers with diagnostic products that span the healthcare continuum – from prevention, screening, diagnosis, and prognosis to disease and treatment monitoring. Our comprehensive transfusion medicine portfolio is designed to support safety from donation through transfusion. We also offer a growing portfolio of specialized clinical diagnostics designed to detect and monitor treatment of infectious, autoimmune, and neurodegenerative diseases.

C3.509 Haemokinesis

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Haemokinesis, an Australian company specialising in research, development, manufacture, distribution and support of products in Immunohaematology and allied fields. Current product range includes:
- STATUS1: One minute Gel test for Forward and Reverse Group.
- STARGEL10: 5 minute incubation and centrifugation antibody screening method – Full range of gel immunohaematology tests.
- SATELLITE: Reader for STATUS1 and STARGEL10 Cards.
- GEMINI: Donor Accreditation analyser series able to perform 120 Group and Screens or up to 488 Donor screens per hour.
- GLIF: Self-interpreting bioactive paper based Grouping method that can be performed anywhere.

Visit our stand to see the latest developments from Haemokinesis.
**C2.333 Haemonetics**

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Haemonetics is a global healthcare company dedicated to providing innovative blood management solutions for our customers. Our devices, consumables, IT products, and consulting services deliver a suite of business solutions to help our customers improve clinical outcomes and reduce the cost of healthcare for blood collectors, hospitals, and patients around the world.

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**C3.608 Heinz Meise GmbH Medizintechnik**

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Meise Medizintechnik GmbH is a medical device company manufacturing disposables for extracorporeal blood purification, blood plasma collection and other innovative products since 1983. Meise is manufacturing customized and innovative products for transfusion medicine such as an unique eye drop dispensing system for serum eye drops as well as a kit for plasma pooling and subsequent wbc depletion.
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Established in 1977, Helmer is a manufacturer and worldwide distributor of high quality laboratory equipment and refrigerated products for the Blood Bank and Clinical Laboratory. We have combined our experience and innovation to bring you the most advanced line of temperature controlled equipment today. Our products include: Platelet Storage Systems, Plasma Thawing Systems, Cell Washing System, Blood Bank and Laboratory Refrigerators, and Plasma Storage and Laboratory Freezers. For more information, visit our website at www.helmerinc.com.

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Hemasoft is an International IT Company specialized in designing, developing and implementing software solutions for Blood Donor Centers, Transfusion Services, Cell Therapy Labs and Tissue Banks.

Hemasoft's Web-based software suite e-Delphyn © provides transfusion facilities with a full Arm-to-Arm traceability from Donor Recruitment and Collection to Patient Transfusion Confirmation at the bed side. It is fully compliant with ISBT 128 global standards and has been developed with Blood Bankers according to international requirements and regulations. e-Delphyn © is now deployed in more than 50 countries supporting 15 languages.

Hemasoft set up its European headquarters in Switzerland since January 2015, to better serve its European, Asian, Middle Eastern and African customers.
HemoCue is a global leader in a field of diagnostics known as near patient, or point-of-care, testing. In 1982, HemoCue AB, based in Ängelholm, Sweden, introduced the first system making accurate hemoglobin testing possible in near-patient settings. Since then, more than 400,000 HemoCue systems have been sold worldwide. The company also offers point-of-care tests for glucose, urine albumin, HbA1c, total and differential white blood cell count. HemoCue subsidiaries, franchises, and third-party distributors generate revenue in more than 130 countries worldwide. Since April 2013 HemoCue is part of the Radiometer Group. Additional company information is available at hemocue.com.

ICCBBA is the not-for-profit, nongovernmental international standards organization in official relations with the World Health Organization responsible for the management and development of the ISBT 128 Standard. Used in more than 85 countries across six continents and disparate health care systems, ISBT 128 is the global standard for the terminology, identification, coding, and labeling of medical products of human origin including blood, cell, tissue, milk, and organ products. The Standard has been designed to ensure the highest levels of accuracy, safety, and efficiency for the benefit of donors and patients worldwide.
C2.318 Immucor, Inc.

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Founded in 1982, Immucor is a global leader of transfusion and transplantation diagnostics. For transfusions, Immucor offers the broadest line of serological products, including traditional and unique specialty reagents, Capture® technology, and Scalable Solutions for automating immunohematology testing. Our BioArray/ PreciseType molecular immunohematology assays provide state-of-the-art technology for pre-transfusion compatibility testing. For transplants, our LIFECODES products bring a market-leading position in HLA testing for donor-patient compatibility. We are leading the way in posttransplant monitoring with our innovative kSORT assay for kidneys. Finally, our specialty diagnostic solutions for platelet transfusion testing and hemostasis provide important diagnostic information for today’s modern laboratories.

C2.218 inno-train Diagnostik GmbH

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The inno-train Diagnostik GmbH is specialized in transfusion medicine and immunogenetics. As the first commercial supplier we manufacture molecular IVD test systems for blood group typing since 1998. Furthermore we offer a broad product range for HLA typing including serological test systems, PCR-SSP and sequencing kits.

In 2011 we have introduced our FluoGene product line based on fluorescent endpoint detection which is also now available for real-time PCR. With this we are again the first company offering a CE marked automation for RBC, HPA and HLA typing. The RBC-FluoGene tests cover the genotyping of all major blood group systems.
C3.422 International Society of Blood Transfusion

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ISBT is the host society of this congress. The International Society of Blood Transfusion has members from over 100 countries and aims to enable members to share knowledge to enhance transfusion practice worldwide. At the ISBT booth you can meet the staff, find out more about the society, become a member, and get more information about the ePortal, Forum or the App. Take advantage of a photo opportunity in front of the Copenhagen graphic. Information on upcoming congresses in 2017 and 2018 in Guangzhou and Toronto will be available on the booth.
**C3.621 IPFA**

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IPFA, bridging the interests of donors - collection centers - fractionation centers - patients
The International Plasma and Fractionation Association (IPFA) is the international umbrella association promoting the interests and activities of its member organisations involved in the collection of human blood and plasma, and the manufacture and supply of medicines derived from human plasma.

Plasma Derived Medicinal Products (PDMPs) are essential for the treatment of coagulation factor deficiencies such as haemophilia, immune deficiencies as well as immune system related diseases such as inflammatory and auto-immune diseases, and circulatory dysfunctions such as shock.

**C2.209 Jiaxing Tianhe Pharmaceutical Co., Ltd.**

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Jiaxing Zhejiang
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Tianhe produces a wide range of disposable plastic systems for blood transfusion. Established in China since 2004, it is working now on an average annual production capacity of 10 million systems. Tianhe is GMP, CE, ISO9001:2008, ISO13485:2012 certified. Main products are standard and top & bottom blood bags, leukocyte reduction filters, cord blood bags and animal blood bags together with other specialties. Tianhe is exporting to more than 30 countries with its own brand and OEM brands like South Europe, East Europe, CIS Market, Middle East, Western Asia, Southeast Asia, Central America, South America and Africa, etc.
C2.230 **Kawasumi Laboratories, Inc.**

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Since 1954 Kawasumi’s commitment to safety, quality and affordability has been at the forefront of safe blood collection and transfusion. The KARMI In-line Blood Bags and Dual Press Blood Separators join our already famous product line of KARMI Conventional Blood Bags, Tube Sealers, Blood Collection Monitors, Automatic Tube Strippers and Potassium Adsorption Filters. Visit our booth and see how we can help you too!

C2.124 **KW Apparecchi Scientifici**

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E: export@kwkw.it
W: www.kwkw.it

From 1953, KW APPARECCHI SCIENTIFICI, ITALY, design, manufacture and distribute appliances, installations, and services for cold chain and thermostation, aimed to the biomedical, scientific research and industrial sectors. Key products are Ultra Low Freezers -86°C, Plasma Freezers, Shock Freezers for plasma, Platelet Incubators and Agitators, Plasma Thawers and Blood Bank Refrigerators.
**C2.110 LICONIC AG Liechtenstein**

Industriestrasse 8  
FL-9493 Mauren  
Principality of Liechtenstein

Contact: Boguslaw Sobczak  
T: +423 37 36 33 9  
E: bso@liconic.com  
W: www.liconic.com

Here at ISBT, Liconic is presenting a revolutionary automated storage solution. The Automated Plasma Store is a long term, high volume storage solution for frozen plasma. Fast storage and retrieval of individual units and batches requires no operator access in low temperature zones.

LICONIC is the world’s leading dedicated developer, manufacturer, and supplier of automated ultra-low temperature sample storage solutions. We have installed thousands of systems over 25 years in the life science industry.

LICONIC is a privately held, engineering focused company providing innovative, high quality automated solutions for sample handling processes with the personal support required to ensure success.

**C3.612 Linkage Biosciences, Inc.**

890 Dubuque Avenue  
South San Francisco, CA 94080  
United States of America

Contact: Matthew Frome  
T: +01 415 346-5262  
E: info@linkagebio.com  
W: www.linkagebio.com

Linkage Biosciences is a molecular diagnostics company developing and marketing products that dramatically improve and expedite complex genetic testing, including current and upcoming products for genotyping HPA, ABO and RBC. LinkS i™ is the company’s Real-Time PCR genotyping product line, and along with SureTyper ™, delivers tests that are Fast, Accurate and Easy. The company is headquartered in South San Francisco, California.
**C2.330 Lmb Technologie GmbH**

Mösstrasse 17  
85445 Schwaig  
Germany

Contact: Klaus Jentsch  
T: +49 8122 880 96 0  
E: info@lmb.de  
W: www.lmb.de

LMB is a German manufacturer, specialized in Blood Bank Solutions over 35 years. DONATION, SEPARATION, STORAGE and TRANSPORT functions are fully covered with LMB own products. LMB is actively represented in 60 countries worldwide by its distributors and guarantees worldwide service. Blood Safety is the motto of LMB all around the world. LMB newest product, Filtramatic has been just launched for leuko-depletion tractability, which guarantees you leuko-reduction process documentation and make data storage of leuko-depletion for hemovigilance. It closes the gap of missing of the traceability of Blood treatment. Enjoy a warm welcome at Lmb's booth.

**C2.127 M.&G. Int.'l srl**

Via Manzoni 20  
20838 Renate (MB)  
Italy

Contact: Tiziano Zoia  
T: +39 3483902605  
E: tizianozoia@meg-intl.com  
W: www.meg-intl.com

Designing and manufacturing innovative products for the safe transport of blood products, biological specimens and drugs. We constantly develop new and efficient solutions in order to meet all of our customers’ requests and international standards, always using high quality materials.
**C2.326 Macopharma**

200 Chaussée Fernand Forest  
59200 Tourcoing  
France  

Contact: Véronique Lutun  
T: +33 (0) 3 20 11 84 00  
E: contact@macopharma.com  
W: www.macopharma.com

Macopharma offers products and services to collect, process and distribute blood components that meet high safety and quality for patient transfusion.  
Investments in research and development as well as partnerships with blood centers, universities and biotechnology companies enable Macopharma to design the best solutions to help its customers to meet their goals in blood supply.  
This year is very special, join us on our booth to celebrate our 40th anniversary.

**C3.430 Mak-System**

35 Square de Meeus  
1000 Brussels  
Belgium  

Contact: Clement Glinkowski  
T: +33 1.48.63.27.27  
E: c.glinkowski@mak-system.net  
W: www.mak-system.com

MAK-SYSTEM International Group is a leading provider of innovative healthcare software solutions used in more than 65 countries. Our software runs in centers collecting from 1,000 to 7 million donations per year.  
Our off-the-shelf software provides to Blood Banks, Hospital Transfusion Services and Cell Therapy Facilities the highest functionality and technology on the market. As a modular solution, you can extend your services to Hospitals, Donors and/or Patients.  
Our experience in managing small, medium and large size projects is unique as well as our commitment to successfully implement our software.  
We are delighted to welcome you at our booth to demonstrate on the spot how our software can best serve the needs of your organization.
**C3.515 Medinfo International Hemoservice**

2 rue Jules Belleudy,  
Le Pétra 06200 Nice  
France

Contact: Kamel Ketari  
T. +33 (0)493 144 601  
E. kketari@medinfo.fr  
W. www.medinfo.fr

MEDINFO is a leading company specialized in Blood Transfusion Software and cell therapy. Our software meets all the needs of Blood Transfusion Centers, Blood Banks and Transplant laboratories. It is developed in order to increase patient safety, to help the user to comply with his procedure and to manage an efficient traceability. Many Blood Transfusion Centers, Blood Banks and Transplant laboratories, all over the world, have chosen our software to manage their activities: NBS in England, Thai Red Cross in Thailand, CTSA in France and many others in Belgium, Brazil, Chile, Romania, Saudi Arabia, Spain, Tunisia, etc.

**C2.115 Möller Medical GmbH**

Wasserkuppenstr. 29-31  
36043 Fulda  
Germany

Contact: Lerna Russe  
T. +49 661 941 95 0  
E. info@moeller-medical.com  
W. www.moeller-medical.com

Moeller Medical is a German medical device manufacturer who belongs to medimondi group. medimondi group is part of Centrotec Sustainable AG and covers all corporate activities concerning medical devices and engineering plastics.  
Moeller Medical developed and manufactures components and highly sensible medical devices.  
Our product portfolio consist of own brands (blood banks, interventional radiology, urology, neurosurgery, aesthetics,) and OEM business (human cannulae, nano-coatings, HPLC hardware, peristaltic pumps).  
The main business for blood banks is the Docon family, consists of blood mixing scales and tube sealers.
C3.506 MTC Invitro Diagnostics AG

Ampérestr. 2a
64625 Bensheim
Germany

Contact: María del Pilar Barrientos
T: +49 (0)6251 84829-0
E: cidd@mtcinvitro.com
W: www.mtcinvitro.com

MTC – Micro Typing Concepts – is specialized in blood grouping applications providing innovative products for blood bank professionals in all global markets.
MTC is presenting its new instrument line INVITROLYZER ODYSSEY for full automation of the INVITROGEL TEST-SYSTEM with the INVITROLYZER ALPHA, a small foot print solution, and the INVITROLYZER DELTA, the floor mounted instrument for higher capacity.

With multiple clone lines for ABO and phenotyping and a wide selection of rare reagents and specialty products, MTC INVITRO offers one of the most distinctive product portfolios available in immunohematology.

C2.123 NanoEntek

12F, 5, Digital-ro 26-gil
Guro-gu, Seoul, 152-740
Korea

Contact: Kyungpyo Ko
T: +82-2-6220-7942
E: ivd@nanoentek
W: www.nanoentek.com

NanoEnTek Inc. aims to overtake the market leader in biotechnology, nanotechnology, and information technology field. Outstanding experts in the fields of biomedical engineering, bio-MEMS, chemistry, and optics have developed innovative products of life science research and point-of-care diagnostics.
ADAM-rWBC is an analyzing device that counts the number of residual leukocytes in a blood component for transfusion. ADAMII-CD34 is a bench top fluorescent CD34 counting analyzer that can be used in hospital and research laboratory. It has 4-channel light sources and perform assays for CD34+ cells as well as cell viability (CD34, total cell) simultaneously.
C3.622 NRL, Australia

4th Floor Healy Building
41 Victoria Parade
Fitzroy, Victoria
Australia

Contact: Wayne Dimech
T: +61 3 9418 1111
E: info@nrl.gov.au
W: www.nrl.gov.au

NRL is a non profit scientific organisation based in Melbourne, Australia whose mission is to promote the quality of tests and testing for infectious diseases globally. NRL offers a number of services to maintain and improve quality in laboratories throughout the world.

These include:
• Provision of laboratory quality assurance programmes including External Quality Assessment Schemes and Quality Control services
• Evaluations and pre-market assessments of medical in vitro diagnostic devices
• Specialised and Reference testing for HIV, HBV, HTLV, HCV and Syphilis
• Delivery of international training programmes for strengthening laboratory systems

For more information please contact: info@nrl.gov.au

C2.222 OrSense Ltd.

17 Hawmefalsim street ,Kiryat Arie petach tikva 4951447
Israel

Contact: Maayan Vayman
T: +97237404900
E: al@orsense.com
W: www.orsense.com

OrSense is a medical device company developing and marketing non-invasive monitoring systems for measurement of Hemoglobin. OrSense NBM200 system is successfully installed in dozens of blood donation facilities worldwide. OrSense’s products are based on a proprietary Occlusion Spectroscopy technology.
**C3.418 Quotient**

Rte de Crassier 13  
CH-1162 Eysins  
France  

Contact: Nicole Barraud-Estoppey  
T: +41 22 716 98 00  
E: nicole.barraud@quotientbd.com  
W: www.quotientbd.com  

Quotient is a well-established bio-manufacturing organisation, with an internationally recognised product portfolio and exciting pipeline of new and innovative products. The product range includes in vitro diagnostics in the field of immunohematology, immunology and haematology. Leveraging its expertise in transfusion diagnostics, Quotient is developing MosaiQ™, its next generation automation platform to address the comprehensive needs of the global transfusion diagnostics market. Once approved for sale, MosaiQ will be the first fully automated solution for blood grouping, quickly and comprehensively characterizing both donor and patient blood, improving patient outcomes and eliminating the need for expensive and time-consuming manual testing. MosaiQ will also undertake all mandated serological disease screening tests required for donor blood.

**C2.220 Rad Source Technologies, Inc**

480 Brogdon Road  
Suite 500,  
Suwanee, GA 30024  
United States of America  

Contact: Gord Ashfield  
T: +1-678-765-7900  
E: gashfield@radsource.com  
W: www.radsource.com  

Our 3400 X-ray Blood Irradiator which incorporates proprietary technology including our patented QuaStar™ X-ray Tube and rotator is now the top selling blood irradiator in the world. Unique advantages include it can process 6, one liter canisters in less than 5 minutes, has the ability to mix different product types and it runs on a single power supply. It also has superior dose uniformity, on-board cooling and a non-nuclear source. We have already placed over 70 units worldwide including several units at the American Red Cross. It is US-FDA approved, CE marked and has been approved in numerous other countries.
C2.307 Roche Diagnostics

4300 Hacienda Drive
Pleasanton, CA, 94583
United States of America

Contact: Spontaneous Russell
T: +1 925 730 8996
E: spontaneous.russell@roche.com
W: www.roche.com

Roche is the world’s largest biotech company, with truly differentiated medicines in oncology, immunology, infectious diseases, ophthalmology and diseases of the central nervous system. Roche is also the world leader in in vitro diagnostics and tissue-based cancer diagnostics, and a frontrunner in diabetes management, as well as blood and plasma screening. The combined strengths of pharmaceuticals and diagnostics under one roof have made Roche the leader in personalised healthcare – a strategy that aims to fit the right treatment to each patient in the best way possible.

C2.112 Safetran Biomedical Inc.

3F., No. 1, Alley 16, Lane 120 Lide Road
Beitou Dist., Taipei City, 11259
Taiwan

Contact: Joy Chuang
T: +886 2 2891 8099
E: office@safetran.com.tw
W: www.safetran.com.tw

Safetran, a professional hematology therapy platform and service provider, is committed to be a first-class provider of safe and high quality transfusion products. Safetran strives to optimize blood transfusion quality, enhance safety and reduce side effects by supplying high quality products and services built on the most secure transfusion platform.

Safetran provides a range of state-of-the-art products for transfusion, such as leukocyte-reduction filter sets, blood components apheresis, and plasma collection for fractionation industry. Safetran also has penetrated into regenerated medicine by Phoenix PRP system which is a most advance and accurate PRP prepare system since 2015. Phoenix autologous PRP (Platelet Rich Plasma) collection system has earned good response from market.
C2.207 Sanquin Reagents

Plesmanlaan 125
1066 CX Amsterdam
the Netherlands

Contact: Von Lammers
T: +31 20 5123599
E: reagents@sanquin.nl
W: www.sanquin.org/reagents

Sanquin provides blood transfusion related services in The Netherlands on a not-for-profit basis, conform the highest quality, safety and efficiency requirements.
For over 35 years Sanquin Reagents B.V. has been developing, producing and distributing diagnostic test reagents and equipment for immunohaematology.
We are committed to produce products that fulfill the most stringent quality standards necessary for safe blood transfusion, in compliance with the requirements of the CE-IVD Directive and other applicable regulations.
Sanquin Reagents B.V. is ISO 9001 and ISO 13485 certified.

Products:
- Cellbind - One gelcard for all immunohaematology tests
- Magister - Fully automated blood group analyser
- Monoclonal reagents and (panels of) red blood cells
- MASPAT - Platelet crossmatching kit

C2.217 Sichuan Nigale Biotechnology Co. LTD

Rm 901-910, 9/F, Unit 2, Building 1
No. 401 Sheng'an Street, Hi-tech. Dist.
610041 Chengdu
P.R. China

Contact: Demi Yang
T: +86 2 8851 22235
E: demi@ngl-cn.com
W: www.ngl-cn.com

Nigale is the global leading company of intelligentized blood transfusion technology, specialized in the field of manufacturing automated plasma and blood component collection devices and disposable kits. Our quality management system complies with GMP, ISO13485, and CE. With worldwide distribution in more than 30 countries, Nigale's intelligentized technology is mainly applied in plasma/platelet apheresis and therapeutic plasma exchange(TPE).
C3.603 Sigma Laborzentrifugen GmbH / Buch & Holm
Sigma Laborzentrifugen GmbH
An der Unteren Söse 50
37520 Osterode
Germany
Contact: Guido Guttmann
T: +40 (0)5522 5007 8213
E: g.guttmann@sigma-zentrifugen.de
W: www.sigma-zentrifugen.de
A comprehensive range of high-quality centrifuges is available from Sigma Laborzentrifugen GmbH.
The product range encompasses centrifuges from 48 ml to 12 l capacity with a wide spectrum of accessories for
dedicated applications.
Instruments for blood banks feature high throughput and extremely reliable operation, IQ/OQ, and protected
programming.
The Sigma 8KBS Refrigerated Floor-Standing Centrifuge for blood banks with a capacity up to 12 blood bags in
swing-out rotor configuration with data interface for quality management and bar code scanning options.
The Sigma 4-5L is an instrument for high throughput operation in clinical laboratories.
The high performance Sigma 2-7 with blue LED run display comes with a versatile, modular swing-out rotor.

C3.620 STRATEC Biomedical UK LTD
Centrum Point
Burton upon Trent
Staffordshire DE14 2WD
England
Contact: Stephen Pownall
T: +44 791 776 3267
E: s.pownall@stratec.com
W: www.stratec-uk.com
STRATEC Biomedical is a strategic partner for medical equipment companies needing complex biotechnology
systems. The original equipment manufacturer (OEM) builds analyser systems for third-party companies in the
clinical diagnostics and biotechnology industry. STRATEC Biomedical UK Ltd are experts in developing software
which is used to interface laboratory instruments involved in diagnostic testing. These solutions range from
simple connectivity solutions through to large middleware installations. In most instances STRATEC works with
its OEM partners to develop customised instrument software solutions.
C2.223 STRUB GmbH

Grosse Ahlmühle 27
76865 Rohrbach / Pfalz
Germany

Contact: Caroline Laemmel
T: +49 6349 928637
E: caroline.laemmel@strub-group.com
W: www.strub-group.com

By providing excellent products and services, STRUB is recognized worldwide as designer of solutions for the collection and preparation of blood products.

C3.623 Technoflex

Zone Artisanale de Bassilour
64210 Bidart
France

Contact: Sylvie Ponlot
T: +33 559 54 6666
E: contact@technoflex.net
W: www.technoflex.net

Over 40 years of experience have made Technoflex an innovative firm, European leader in the design and manufacture of flexible bags and connectors for the pharmaceutical industry.

As for cellular therapy, Technoflex provides state-of-the-art bags delivering high value in the domains of cryopreservation (EVA), or stem-cells culture. Safecell®, our new range of FEP bags for cell culture is developed with a specific leak-proof design and offers optimal traceability.

Our proficiency in the pharmaceutical primary packaging of injectable drugs, allow us to produce in clean room ISO 7 (Class 10000) with a low AQL for supplying innovative containers.)
C2.226 Terumo BCT

Ikaroslaan 41
1930 Zaventem
Belgium

Contact: Martine Notez
T: +32 2 715 05 90
E: emea@terumobct.com
W: www.terumobct.com

Terumo BCT is a global leader in blood component, therapeutic apheresis and cellular technologies, is the only company with the unique combination of apheresis collections, manual and automated whole blood processing, and pathogen reduction. We believe in the potential of blood to do even more for patients than it does today. This belief inspires our innovation and strengthens our collaboration with customer.

C2.231 Thermo Fisher Scientific

Strada Rivoltana km 6/7
20090 Rodano
Italy

Contact: Maurizio Merli
T: +39 335 7819651
E: Maurizio.merli@thermofisher.com
W: www.thermofisher.com

Thermo Fisher Scientific is the world leader in serving science. Our mission is to enable our customers to make the world healthier, cleaner and safer. Through our Thermo Scientific brand, we help customers accelerate research and analysis and increase laboratory productivity.
**C3.610 Timestrip LTD**

Sheraton House Castle Park  
Cambridge CB3 0AX  
United Kingdom

Contact: Reuben Isbitsky  
T: +447768172789  
E: Reuben@timestrip.com  
W: www.timestrip.com

Timestrip produces high-tech and low cost visual indicators of time and temperature, used around the world and across all industries where time and temperature need to be controlled. Timestrip® - the smart way to measure time and temperature™. Our Blood Temp nonreversible blood bag temperature indicators monitor temperature compliance in blood bags. It is especially relevant for monitoring blood temperature during transit from the highly controlled environment of the blood bank to use or store in a different destination, such as a hospital.

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**C2.121 Weigao Medical International Co., Ltd.**

No.1 Weigao Road of High-tech Industrial Development Zone  
264210, Weihai  
China

Contact: Nancy Yu  
T: +86 (0)631 5623761  
E: nancy@weigaogroup.com  
W: www.weigaogroup.com

Shandong Weigao Group Medical Polymer Company is one of the major subsidiaries of WEIGAO GROUP, majors in scientific research, production, sales of medical devices, including single use consumables, orthopedic devices, blood purification consumables and devices, etc. Our sales-network covers 81.3% of tertiary hospitals and 77.2% of blood banks in China, and exports to over 70 countries and areas. With the mission of “Your Health, We Care” and core values of “Conscience, Integrity, Loyalty”, we’re always trying to achieve the vision of “To be one of the global elites; Pioneer in Asia; Most respected medical device and medication enterprise”.
C2.216 Wuhan BMS Medicaltech Co., Ltd.
Hi-Tech Medicalpark B9-5F-CD, No.818 Gaoxin Road, 430206 Wuhan China
Contact: Lisa Hejun
T: +86-130 9882 6077 (China); +49-152 2606 7445 (Germany)
E: lisa.hejun@bms-medicaltech.asia
W: www.bms-bloodcare.de
Based on the strategic and pioneering research of bms Germany, bms China is striving to be a top supplier of blood technology, products and service for global market.

C3.523 Zaavia
29/1-B Khayaban-e-Shaheen, Phase V, DHA Karachi, 75500 Pakistan
Contact: Abdulbasit Shaikh
T: +92 (0) 334 3355574
E: abdulbasit@zaavia.net
W: www.panacea.zaavia.net
Zaavia, a company with a mission to transform the blood banking world, with innovative solutions, enabling delivery of “safe blood”, independent of the human development index (HDI). PANACEA HAEMOVIGILANCE is a Blood Bank Management Information System providing vein to vein safety. It emulates the decision-making ability of an expert blood banker, reducing human errors to near zero, without compromising high throughput. Blood banking logic has been embedded into the critical control points enabling PANACEA Haemovigilance to identify violations in real time. It blocks the functioning and generates alerts, thereby converting an impending event into a non-event.
With more than a 75-year legacy of pioneering life-saving medical advances, today’s Ortho is driven by a renewed energy to identify industry-leading answers to your most challenging questions.

**Our purpose is simple:** to improve and save lives with diagnostics. We do that by reimagining what’s possible. It’s what defines us. It’s the Ortho difference.

**Reimagining Ortho**

**Be part of the change**

www.orthoclinicaldiagnostics.com
PR-02895
Recognizing the challenges facing healthcare and transfusion medicine, we are on a journey to deliver solutions that are personalized to your goals. Alinity s is Abbott's next-generation harmonized system purpose-built for blood and plasma screening. Together with AlinIQ, our innovative professional services and informatics enablers, Alinity s has the power to transform your operations, helping you achieve measurably better healthcare performance.

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NOW LAUNCHING AT THE ABBOTT BOOTH IN HALL C, STAND C3.526
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Echo Lumena and NEO Iris are not currently available for sale in the US or Canadian markets.
In conjunction with the annual conference of the CSTM

ISBT
TORONTO 2018

35th International Congress of the ISBT
Toronto, Canada

June 2 - 6, 2018

International Society of Blood Transfusion

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