This Congress ISBT has partnered with the Global Blood Fund to ask for your contribution to fund transfusion medicine books for selected Blood Services, Centres and hospitals in African countries.

Global Blood Fund (GBF) is a non-profit organisation established in 2008 and registered as a charity in both the US and UK. It is run by practising blood banking professionals who share a deep concern about the huge global inequalities in access to safe blood and a determination to do something about this problem.

GBF has provided money, equipment, training and other forms of support to over 40 countries in Africa, Asia, Eastern Europe, the Middle East, Latin America, and the Caribbean.

Together we have chosen a set of four text books covering basic transfusion, immunohaematology and clinical transfusion knowledge.

Make your way to GBF at booth 1709 where you can make your donation, any contribution is highly appreciated!

Let’s see how many books we can fund for Africa!
Corporate Partners
ISBT is pleased to acknowledge the following Corporate Partners

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Word of Welcome Congress President

Dear friends and colleagues,

On behalf of the Canadian Society for Transfusion Medicine, Canadian Blood Services and Héma-Québec and ISBT, it is my pleasure to welcome you to the 35th International Congress of the International Society for Blood Transfusion.

During this event, you will have the opportunity to:
- Present the results of your research to your peers;
- Hear the latest developments in ongoing research in transfusion medicine and cellular therapies, from the bench to the bedside;
- Benefit from state-of-the-art reviews in the various areas of transfusion medicine and cellular therapies;
- Meet with friends, colleagues and exhibitors to exchange ideas and projects;

All of this in the wonderful environment of a vibrant and friendly city.

The ISBT Scientific Secretary and the Chair of the ISBT Academy have worked closely with the Local Organizing Committee to offer you an educational and scientific programme of world class and a wonderful social programme.

After participating in the various scientific sessions, I hope you will take the opportunity to visit the great city of Toronto, one of the most culturally diverse cities in the world, which has much to offer to the international visitor.

Gilles Delage

Congress President
Dear colleagues,

On behalf of the ISBT Board of Directors and Management, it is my great pleasure to welcome you to the 35th International Congress of ISBT which is taking place in Toronto, Canada over the next five days. Many of you will have travelled long distances to be here and I hope that you have managed to get some rest ahead of a busy few days. For those of you who have attended Regional ISBT Congresses previously, welcome back and thank you very much for your continued support. I would also like to extend a warm welcome to delegates who are attending an ISBT congress for the very first time. I trust that you will thoroughly enjoy the various sessions as well as the interaction with other colleagues, and I encourage you to visit the ISBT booth (number 1019) to meet with ISBT staff and learn more about the various initiatives we are busy with.

The Canadian Society for Transfusion Medicine are our hosts this week and the local organizing committee has been working hard to ensure a memorable conference. I would like to express our sincere thanks to Gilles Delage, the Congress President and Katerina Pavenski, the Chair of the local organizing committee and their colleagues for their contribution and hard work.

Toronto is recognized as one of the most multicultural and cosmopolitan cities in the world with its inhabitants representing over 200 ethnic groups and early June is an ideal time to be a part of various cultural events that are taking place. Most of you would have already planned in advance which tourist spots you must visit while here. For delegates and partners who intend spending some additional time in Toronto, there certainly are numerous attractions that will keep you busy and ensure happy memories when you go back home. You will be able to sample cuisine from a vast selection of restaurants and enjoy the arts and culture. A visit to the Steam Whistle Brewery seems like a great idea, and for the more adventurous, try the hikes at the Toronto Island Park. If an overnight visit to the Niagara Falls is not possible, then try one of the many day tours to the Falls and surrounding wineries.

You may have had a chance to look at the programme for the Academy Day, Scientific Sessions and Symposia. The scientific programme will focus on state of the art presentations in transfusion medicine by invited speakers as well as oral and poster presentations from delegates. In recognition of the 200th anniversary of the first human to human blood transfusion, the last plenary session will focus on “The Past, Present and Future” giving delegates an opportunity to reflect on the history of transfusion medicine and to look forward to future developments. I would like to extend my sincere thanks to the Scientific Secretary, abstract reviewers and stakeholders for putting this programme together. The ISBT Vice Presidents have also put together a comprehensive series of lectures for the Academy Day on Sunday and I am sure there will be something of interest for all delegates.
Our corporate partners, sponsors and exhibitors are an integral part of our Congress and have been hard at work in preparing their exhibit booths and I welcome all of you to join us for the opening of the Exhibition on Sunday evening. We can look forward to innovation and new technology that will be on display. During the exhibition hours and evenings, there will be plenty of opportunities for socializing and networking with friends and colleagues in an informal atmosphere. I personally look forward to meeting with many of you over the next few days.

Ravi Reddy
ISBT President
Future ISBT Congresses

29th Regional Congress of the ISBT, Basel, Switzerland, June 22 - 26, 2019
30th Regional Congress of the ISBT, Bangkok, Thailand, November 16 - 19, 2019
36th International Congress of the ISBT, Barcelona, Spain, June 6 - 10, 2020

Website

Up-to-date information regarding the ISBT congress programme is available on the ISBT website: www.isbtweb.org
Become a member today

Benefit from everything our international community has to offer

Go to www.isbtweb.org
or come to booth 1019
located in the exhibition area

Benefits of ISBT membership:
• Update your knowledge
• Meet colleagues
• International network
• Congress discount

With FREE access to:
• ISBT Education
• Webinars and Live Journal Clubs
• ISBT Forum
• Transfusion Today and Vox Sanguinis

Transfusion medicine professionals from all over the world join ISBT to share knowledge and improve blood transfusion practice.

Join us and be part of our global community
 Committees

**ISBT Executive Committee**

President: Vengetassen (Ravi) Reddy (2016 - 2018)
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Vice President: Erica Wood (2014 - 2018)
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Judith Chapman (Netherlands)

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Committees

Local Organising Committee & Local Scientific Committee

Congress President: Gilles Delage
Chairperson: Katerina Pavenski
Members:
- Don Branch
- Jeannie Callum
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- Stephanie Cope
- Dana Devine
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CONNECT WITH ISBT ON LinkedIn to expand your professional network.

FOLLOW ISBT ON Facebook and Twitter for scientific facts, recent studies and the latest ISBT news.
We would like to thank all reviewers for their time and efforts in reviewing the abstracts allocated to them:

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Shubha Allard (United Kingdom)        Alejandro Chiera (Argentina)
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Hans Zaaijer (Netherlands)
Ziyan Zhu (China)
Introduction

Congress Organisers

ISBT
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Marnixstraat 317
1016 TB Amsterdam
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F: +31 20 7601 761
W: www.isbtweb.org
E: office@isbtweb.org

**Local PCO and Travel Agent**
MCI Toronto
18 Keewatin Avenue
M4P 1Z8 Canada
T: +1 416 481 7776

**Congress Organisation and Official Housing Bureau Congress Venue**
c/o MCI Amsterdam
Schipluidenlaan 4
1062 HE Amsterdam
Netherlands
T: +31 20 570 9600
E: Toronto@isbtweb.org
Registration & Housing E: ISBTRegistration@mci-group.com

**Congress Venue**
Metro Toronto Convention Centre
22 Bremner Blvd
ON M5V 3L9
Toronto, Canada
T: +1 416 585 8000
W: http://www.mtccc.com/
Become an ISBT member and access ISBT Education
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A wide variety of educational content in one place, regularly updated with the latest developments in Transfusion Medicine

- Congress webcasts
- Webinars
- Live Journal Clubs
- Practice guidelines
- Interviews
- eBooks
- And much more...

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Meet the ISBT Team

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Executive Director

Eszter Herczenik
Scientific Officer

Mildred Kada
Membership and Office Manager

Ralph Zepeda
Financial Manager

Bodine van Wingerden
Stakeholder and Marketing Coordinator

Florine Bos
Communications Coordinator

Come to booth 1019 located in the exhibition area
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. ISBT Education, congresses 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: ISBT Education. This online facility contains a wide variety of educational material including webcasts of ISBT congress presentations, webinars and a library of transfusion guidelines.

In addition we:
- Encourage and support ISBT Working Parties that focus on the study of specific topics
- Publish the scientific journals Vox Sanguinis and the ISBT 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 fees or ISBT membership fees.

**ISBT Membership**

As a member of ISBT you are part of a dynamic international society. Being a member will give you the following (free) benefits:
- Free access to ISBT Education (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 ISBT eNews
- Free access to monthly ISBT Webinars and Live Journal Clubs
- Free access to the ISBT Forum

*Online access only for 25 years and under fee

Take the opportunity to connect and participate in our growing transfusion medicine community and register yourself at www.isbtweb.org or come and meet the ISBT Central Office staff at our booth. They are happy to assist you with your registration as a new member. The booth is located at number 1019 in the exhibition area.
ISBT Working Parties & other meetings

All meetings will take place at MTCC
* = by invitation only

Saturday, June 2
08:30 - 11:15  ISBT WP on Rare Donors*  603
08:30 - 17:00  ISBT WP on TTID*  717A
08:30 - 17:30  ISBT WP on Information Technology*  709
10:30 - 15:30  ISBT WP on Donors and Donation*  601
10:30 - 12:30  ISBT WP on Granulocyte Immunobiology*  711
11:30 - 14:30  ISBT WP on Red cell Immunogenetics
  and blood group terminology*  603
13:00 - 15:30  ISBT WP on Platelet Immunobiology  711
15:00 - 18:30  ISBT WP on Immunohaematology*  603
15:30 - 17:30  ISBT WP on Clinical Transfusion*  702
17:30 - 19:00  CSTM subcommittee for Obstetrics*
  and Pediatrics Transfusion, COPTN  602

Sunday, June 3
08:30 - 17:30  ISBT WP on Information Technology*  711
08:30 - 12:00  ISBT WP on Global Blood Safety  707
09:00 - 10:30  ISBT WP on Haemovigilance  601
09:00 - 10:30  ISBT WP on Haemovigilance  602
09:30 - 17:00  I TRY IT*  701a
09:30 - 12:00  Standing committee on Ethics*  603
10:00 - 12:00  ISBT WP on Blood Supply Management  703
11:00 - 13:00  ISB WP on Haemovigilance  709
11:00 - 17:00  Validation Task Force  602
13:00 - 17:00  ISBT WP on Quality Management*  707
15:30 - 17:15  ISBT WP on Clinical Transfusion*
  (paed subgroup)  703

Monday, June 4
07:00 - 08:15  TP Networking Breakfast  401
07:00 - 08:30  Presidents of the National Societies Meeting*  709
12:00 - 14:00  ISAC Meeting*  703
14:00 - 15:30  ISBT WP on Cellular Therapies  707
**Tuesday, June 5**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>07:00 - 08:15</td>
<td>Young Investigator Breakfast</td>
<td>401</td>
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<tr>
<td>11:45 - 12:30</td>
<td>ISBT General Assembly</td>
<td>801</td>
</tr>
<tr>
<td>14:00 - 17:00</td>
<td>Standing Committee of the ISBT Academy*</td>
<td>703</td>
</tr>
<tr>
<td>14:30 - 15:15</td>
<td>Exhibitor Meeting</td>
<td>707</td>
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Join a workshop

Monday, June 4 14:00 - 15:30  Room 802
WORKSHOP DESIGNING CLINICAL TRANSFUSION RESEARCH
Moderator: Leo van de Watering

A workshop will be held on designing clinical transfusion research with an opportunity to receive feedback on your own plans and ideas. After an introduction to developing the research question and choosing between different study designs, we continue with sent-in (or locally presented) questions and examples and explain what would be the best approach and why.

Tuesday, June 5 16:00 - 17:30  Room 706
WORKSHOP ON GRANT WRITING
Moderators: Dale Dempsey - Canadian Institutes of Health Research
Imelda Bates - Liverpool School of Tropical Medicine

During the workshop on grant writing the speakers will explain what a successful proposal should look like and provide tips and techniques for the grant proposal process. The session will be interactive, giving the audience the possibility to ask questions and take part in the discussion.

Registration is not needed for this workshop.
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 15 minutes before the beginning of the session.

Photography and video 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, available online 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 35th International congress, will be available online by the end of the year.

Certificates of Attendance
Certificates of Attendance will be sent by email, shortly after the congress.

Speaker Ready Room
The Speaker Ready Room (SRR) is located in Meeting Room 705. Speakers are requested to bring their presentations to the Speaker Ready Room on an USB stick at least 1 hour prior to their session starts. 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. The use of your own laptop during your presentation is NOT possible.

The opening hours of the SRR are:
- Saturday June 2 07:00 - 17:00 hours
- Sunday June 3 08:00 - 17:00 hours
- Monday June 4 08:00 - 17:00 hours
- Tuesday June 5 08:00 - 17:00 hours
- Wednesday June 6 08:00 - 17:00 hours

Programme changes
The organisers cannot assume liability for any changes in the programme due to external or unforeseen circumstances.
Congress General Information

Registration hours
The registration desk, located on Level 600 of MTCC (South building), will be open as of Saturday June 2:

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Saturday</td>
<td>June 2</td>
<td>07:00 - 17:00 hours</td>
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<tr>
<td>Sunday</td>
<td>June 3</td>
<td>08:00 - 19:30 hours</td>
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<tr>
<td>Monday</td>
<td>June 4</td>
<td>08:00 - 17:00 hours</td>
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<tr>
<td>Tuesday</td>
<td>June 5</td>
<td>08:00 - 17:00 hours</td>
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<tr>
<td>Wednesday</td>
<td>June 6</td>
<td>08:00 - 17:00 hours</td>
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Exhibition hours:

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Sunday</td>
<td>June 3</td>
<td>18:30 - 21:00 hours</td>
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<tr>
<td>Monday</td>
<td>June 4</td>
<td>09:30 - 16:30 hours</td>
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<tr>
<td>Tuesday</td>
<td>June 5</td>
<td><strong>09:00</strong> - 16:30 hours</td>
</tr>
<tr>
<td>Wednesday</td>
<td>June 6</td>
<td>09:30 - 16:30 hours</td>
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Services provided at desks in the Registration Area include:

- Exhibition desk: Exhibitor information
- Registration desk: Registration services and Lost and Found
- Service desk: Social programme and Congress party tickets

Badges
All participants 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: exhibitors and exhibition one-day only passes will not be admitted to the scientific sessions.

Badge Scanning
All participant badges will be scanned by the congress organisers when entering the congress venue as well as when entering the Exhibition Area. This scanning is intended for attendance tracking and crowd control only. Symposia organisers as well as exhibitors may use scanning devices for marketing or compliance reasons at the entrance of a sponsored session or in the Exhibition Area. Please note that when entering a sponsored session or approaching an exhibitor you are already expressing a consent for sharing your contact details with such third parties.

Business Centre
Located on Level 800. Opening hours are from 8:30 - 16:30 (Monday - Wednesday).

Coffee / tea breaks and Lunch
During session-breaks coffee / tea and lunch will be served free of charge in the Exhibition area to delegates wearing their name badge.
EBAH Accreditation
The programme of the 35th International Congress of the ISBT has been reviewed and approved for CME accreditation by the European Board for Accreditation in Hematology (EBAH). The EBAH has approved this educational activity for 31 CME credits. Each physician should only collect credits for time she/he actually spent in the educational activity.

First Aid
The First aid is located on Level 800.

Insurance
The congress organiser cannot accept responsibility for accidents that might occur. Delegates are encouraged to obtain travel insurance (medical, personal accident and luggage) in their home country prior to departure.

Internet
ISBT offers access to the WiFi network in the Congress related areas. To access the WiFi, select ISBT Toronto. You will get a landing page where you need to fill in the following password: ISBT2018. This step is only required on first login.

Language
The official Congress language will be English. Simultaneous translation into French Canadian is provided on Saturday and Sunday only.

Photography and Filming during the Congress
ISBT will have two official photographers during the congress, capturing images and videos. The photographs and videos will be used by ISBT for various publications, promotional materials, or the ISBT Website. If you do not wish to appear in any images captured, please send an email to: photography@isbtweb.org

Prayer Room
The prayer room is located at room 809.

Staff
If you have any questions, the members of the congress staff, who can be recognised by their red ISBT shirts, will be very pleased to assist you. Please do not hesitate to contact them if you have any questions.
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Scientific Programme
Interactive Sessions
Venue Map
Exhibitor Information
Personal Itinerary
Real-time Congress alerts
All abstracts

Please scan the QR code to download the App.
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<thead>
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<tr>
<td>08:00 - 10:15</td>
<td>Annual General Meeting CSTM &amp; Awards</td>
</tr>
<tr>
<td>10:15 - 11:00</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11:00 - 12:00</td>
<td>Past: History of Transfusion Medicine in Canada</td>
</tr>
<tr>
<td>12:00 - 13:00</td>
<td>Lunch</td>
</tr>
<tr>
<td>13:00 - 15:15</td>
<td>Present: Updates from the Canadian transfusion community</td>
</tr>
<tr>
<td>15:15 - 15:30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>15:30 - 17:30</td>
<td>Future: New products, applications and technologies</td>
</tr>
</tbody>
</table>
## Programme at a Glance
### Academy Day
**Sunday, June 3**

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<thead>
<tr>
<th>Time</th>
<th>718A</th>
<th>718B</th>
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</thead>
<tbody>
<tr>
<td>09:00 - 10:30</td>
<td>2A-01 \ Donors and Donation</td>
<td>2A-02 Education and Training</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td>Coffee Break</td>
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</tr>
<tr>
<td>11:00 - 12:30</td>
<td>2B-03 \ Organisation and Quality</td>
<td>2B-04 TTID</td>
</tr>
<tr>
<td>12:30 - 13:30</td>
<td>Lunch and Satellite Symposia</td>
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</tr>
<tr>
<td>13:30 - 15:00</td>
<td>2C-05 \ Immunohaematology</td>
<td>2C-06 Clinical Transfusion Practice</td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>Coffee Break</td>
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</tr>
<tr>
<td>15:30 - 17:00</td>
<td>2D-07 \ Immunohaematology</td>
<td>2D-08 Cellular Therapies and Haemovigilance</td>
</tr>
<tr>
<td>17:30 - 18:30</td>
<td>Opening Ceremony (Plenary Room)</td>
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</tr>
<tr>
<td>18:30 - 21:00</td>
<td>Opening of the Trade Exhibition and Welcome Reception</td>
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Programme at a Glance

Monday, June 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>07:00 - 08:15</td>
<td>Plenary Room</td>
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<tr>
<td>08:30 - 10:00</td>
<td>3A 301 Clinical Effect of Iron Deficiency</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>3A 302 Red Cell Serology</td>
</tr>
<tr>
<td>10:30 - 12:00</td>
<td>3A 303 Arthropod borne infections</td>
</tr>
<tr>
<td>12:00 - 13:00</td>
<td>3A 305 Plenary Session</td>
</tr>
<tr>
<td>13:00 - 14:00</td>
<td>3A 306 Patient blood management</td>
</tr>
<tr>
<td>14:00 - 15:30</td>
<td>3A 307 Management of blood components in different settings</td>
</tr>
<tr>
<td>15:30 - 16:00</td>
<td>3A 308 Donors Vasovagal reactions</td>
</tr>
<tr>
<td>16:00 - 17:30</td>
<td>3A 309 Young Investigator Session</td>
</tr>
<tr>
<td>08:30 - 10:00</td>
<td>3C 310 WP Quality Management</td>
</tr>
<tr>
<td>10:30 - 12:00</td>
<td>3C 311 Bacterial and parasitic infections</td>
</tr>
<tr>
<td>12:00 - 14:00</td>
<td>3C 312 WP – TTID</td>
</tr>
<tr>
<td>14:00 - 15:30</td>
<td>3C 313 WP – IT</td>
</tr>
<tr>
<td>15:30 - 16:00</td>
<td>3C 314 WP – Quality Management</td>
</tr>
<tr>
<td>16:00 - 17:30</td>
<td>3C 315 WP – Donor and Donation</td>
</tr>
<tr>
<td>08:30 - 10:00</td>
<td>3D 316 WP – Critical care and bleeding</td>
</tr>
<tr>
<td>10:30 - 12:00</td>
<td>3D 317 WP – New Developments in Immunohematology</td>
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<tr>
<td>12:00 - 14:00</td>
<td>3D 318 WP – Pathogen</td>
</tr>
<tr>
<td>14:00 - 15:30</td>
<td>3D 319 WP – Neonatal and Paediatric transfusion</td>
</tr>
<tr>
<td>15:30 - 16:00</td>
<td>3D 320 WP – Resource limited countries</td>
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Coffee Break

Lunch and Satellite Symposia

Interactive workshop - Designing clinical transfusion research

Plenary Room
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<thead>
<tr>
<th>Time</th>
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<th>Session Title</th>
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<tbody>
<tr>
<td>07:00 - 08:15</td>
<td>Plenary Room</td>
<td>YI Breakfast session</td>
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<tr>
<td>08:30 - 09:30</td>
<td>Plenary Room</td>
<td>PL-02 Jean Julliard Prize</td>
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<tr>
<td>10:00 - 11:30</td>
<td>Plenary Room</td>
<td>Presidential Award Session</td>
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<tr>
<td>11:45 - 12:30</td>
<td>Plenary Room</td>
<td>ISBT General Assembly</td>
</tr>
<tr>
<td>12:00 - 14:00</td>
<td>Plenary Room</td>
<td>Lunch &amp; Satellite Symposia</td>
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<tr>
<td>14:00 - 15:30</td>
<td>Plenary Room</td>
<td>4C-S20 The Future of Red Cell Genotyping</td>
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<td>4C-S21 Donor Risk Assessment</td>
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<td>4C-S22 Blood and Product Supply</td>
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<td>4C-S23 Frozen Platelets</td>
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<td>4C-S24 Haemovigilance</td>
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<td>4C-S25 TP - Survey and Abstracts</td>
</tr>
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<td></td>
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<td>4C-S26 WP - Blood Supply Management</td>
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<tr>
<td>15:30 - 16:00</td>
<td>Plenary Room</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>16:00 - 17:30</td>
<td>Plenary Room</td>
<td>4D-S27 Hemo-globinopathies</td>
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<td>4D-S28 Donor Safety</td>
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<td>Workshop Grant Writing</td>
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<td>4D-S29 Accreditation, Standards and Good Practice</td>
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<td>Improving Transfusion Service</td>
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<td>4D-S30 Immunological Crosstalk</td>
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<td>4D-S31 WP - Rare Donors / Terminology / Immunohaematology</td>
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<tr>
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<td>4D-S32 WP - Cellular Therapies</td>
</tr>
<tr>
<td>17:45 - 18:45</td>
<td>Plenary Room</td>
<td>Poster Session</td>
</tr>
</tbody>
</table>

**Tuesday, June 5**
### Programme at a Glance

**Wednesday, June 6**

#### Plenary Session

- **8:30 - 10:00**
  - 5A-S38: WP Clinical – Paediatric Sub-Group
  - 5A-S37: Plenary Room 701
  - 5A-S36: PL-04
  - 5A-S35: PL-05

- **10:00 - 12:00**
  - 5A-S34: PL-04
  - 5A-S33: PL-04

- **12:00 - 13:30**
  - 5A-S32: PL-05

- **13:30 - 15:00**
  - 5C-S40: PL-05

- **15:00 - 15:30**
  - 5C-S41: PL-05

- **15:30 - 17:00**
  - 5C-S42: PL-05

#### Other Sessions

- **8:30 - 10:00**
  - 5A-S39: Building a safe and sustainable donor base
  - 5A-S40: Problems in Transfusion Medicine
  - 5A-S41: Emerging Infectious Diseases

- **10:00 - 10:30**
  - Coffee Break

- **10:30 - 12:00**
  - 5C-S43: Donor Recruitment and Retention
  - 5C-S44: WP - Platelet Immunobiology

- **12:00 - 13:30**
  - Lunch

- **13:30 - 15:00**
  - 5C-S45: The Relationship between Donor Characteristics and Transfusion
  - 5C-S46: Clinical Audit and Education

- **15:00 - 15:30**
  - Coffee Break

- **15:30 - 17:00**
  - 5C-S47: Emerging Infectious Diseases
  - 5C-S48: WP - Platelet Immunobiology

- **17:00 - 17:15**
  - Closing Ceremony

- **19:00 - 23:00**
  - Congress Party (Rebel, Polson Pier)

Tickets available at the Registration Services desk (€50)
## Saturday, June 2

### 08:00 - 10:15
**Meeting Room 718A**

**Local Day:** Annual General Meeting

**CSTM & Awards**

<table>
<thead>
<tr>
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<th>Event</th>
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<tr>
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<td>Annual General Meeting of CSTM</td>
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<tr>
<td>09:00 - 10:15</td>
<td>Ortho and Buchanan Awards and Lectures</td>
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<tr>
<td>10:15 - 11:00</td>
<td>Coffee Break</td>
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</tbody>
</table>
Saturday, June 2

11:00 - 12:00
Meeting Room 718A
Local Day: Past: History of Transfusion Medicine in Canada

11:00 - 12:00  HISTORY OF TRANSFUSION MEDICINE IN CANADA
1B-02-01  J. Freedman
St Michaels Hospital, Toronto, Canada

12:00 - 13:00  Lunch
Saturday, June 2

13:00 - 15:15
Meeting Room 718A

Local Day: Present: Updates from the Canadian transfusion community

13:00 - 14:00  CANADIAN BLOOD SERVICES TURNS 20: PAST, PRESENT AND FUTURE
1C-03-01  G. Sher
Canadian Blood Services, Ottawa, Canada

14:00 - 14:30  UPDATE ON NAC
1C-03-02  J. N. Fesser
Queen Elizabeth Hospital, Charlottetown, PE, Canada

14:00 - 14:30  UPDATE FROM THE QUEBEC TRANSFUSION ADVISORY COMMITTEE, THE COMITÉ CONSULTATIF NATIONAL DE MÉDECINE TRANSFUSIONNELLE
1C-03-03  H. Hume, A. Wilson, A. Trottier, G.-E. Rivard
Université de Montreal, Montreal, Canada

14:30 - 15:15  FROM SEROLOGY TO GENOTYPING: UPDATES IN BLOOD BANK TESTING
1C-03-04  G. Clarke
Canadian Blood Services, Edmonton, Canada, University of Alberta, Edmonton, Canada

15:15 - 15:30  Coffee Break
Saturday, June 2

15:30 - 17:30
Meeting Room 718A

Local Day: Future: New products, applications and technologies

15:30 - 16:00
AN INTRODUCTION TO NEW AND RENEWED PRODUCTS FOR TRANSFUSION
1D-04-01
D. V. Devine, G. Sher
Canadian Blood Services, Ottawa, Canada

16:00 - 16:45
NOVEL APPROACHES TO TEACHING TRANSFUSION MEDICINE
1D-04-02
Y. Lin
Sunnybrook Health Sciences Centre, Toronto, Canada, University of Toronto, Toronto, Canada

16:45 - 17:30
CELLULAR THERAPY COMES OF AGE
1D-04-03
D. Wall
Blood and Marrow Transplant/Cellular Therapy, The hospital for Sick Children, Toronto, Canada

17:30
Adjourn
Sunday, June 3

09:00 - 10:30
Meeting Room 718A

Academy Day: Donors and donation

Moderators: M. Goldman (Canada) and S.-Y. Kwon (Hong Kong SAR, China)

09:00 - 09:30

APHERESIS DONOR ELIGIBILITY CRITERIA AND SELECTION IN PLATELET, PLASMA AND RED CELL COLLECTION

C. Poole
South African National Blood Service, Johannesburg, South Africa

09:30 - 10:00

SHORT AND LONG TERM SIDE EFFECTS OF DONOR APHERESIS

M. Neyrink, H. Vrielink, D. Deeren
AZ Delta Roeselare, Roeselare, Belgium

10:00 - 10:30

ESTABLISHING AN APHERESIS SERVICE IN A RESOURCE-LIMITED SETTING: CAMBODIA

B. Pheng, S. Sok, P. Bunpa, V. Kao, K. Ou, S. Varoeun, S. Eav, M. Yong, H. Vrielink
Calmette Hospital, Phnom Penh, Cambodia

10:30 - 11:00
Coffee Break
Sunday, June 3

09:00 - 10:30  
Meeting Room 718B

Academy Day: Education and training

*Moderators: G. Clarke (Canada) and M. Cole-Sinclair (Australia)*

09:00 - 10:30  
MORE THAN JUST A MANIKIN: OPPORTUNITIES FOR SIMULATION IN CLINICAL TRANSFUSION MEDICINE  
A. Petrosoniak, K. Pavenski  
St. Michael’s Hospital, University of Toronto, Toronto, Canada

10:30 - 11:00  
Coffee Break
Sunday, June 3

11:00 - 12:30  
Meeting Room 718A

Academy Day: Organisation and quality

Moderators: J. White (United Kingdom) and C. Seidl (Germany)

11:00 - 11:30  
2B-03-01  
QUALITY: WHAT I KNOW NOW THAT I WISH I’D KNOWN THEN  
M. A. Smith  
New Zealand Blood Service, Auckland, New Zealand

11:30 - 12:00  
2B-03-02  
DEVELOPING THE QUALITY TEAM  
L. A. Bust  
Africa Society for Blood Transfusion (AfSBT), Cape Town, South Africa

12:00 - 12:30  
2B-03-03  
WHEN THINGS GO BADLY – MANAGING QUALITY PROBLEMS AND COMPLAINTS IN TRANSFUSION MEDICINE  
T. Vuk  
Croatian Institute of Transfusion Medicine, Zagreb, Croatia

12:30 - 13:30  
Lunch
Sunday, June 3

**11:00 - 12:30**
*Meeting Room 718B*

**Academy day:** Transfusion-Transmitted infectious diseases

*Moderators: N. Waters (Australia) and M. Vermeulen (South Africa)*

**11:00 - 11:30**

INTRODUCING THE I TRY IT PROGRAM  
2B-04-01  
B. Custer  
Blood Systems Research Institute, San Fransisco, United States

**11:30 - 11:50**

TTID RESEARCH FROM THE I TRY IT PROGRAM  
2B-04-03  
A. Al Riyami  
Sultan Qaboos University hospital, Muscat, Oman

**11:50 - 12:10**

ITRY IT RESEARCH  
2B-04-04  
A. Sepeti  
Fiji

**12:10 - 12:30**

Discussion

**12:30 - 13:30**

Lunch
Sunday, June 3

13:30 - 15:00
Meeting Room 718A

**Academy Day:**
Immunohaematology

*Moderators: N. Thornton (United Kingdom) and V.S. Nadarajan (Malaysia)*

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<th>Institution</th>
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<td>13:30 - 14:00</td>
<td>WHAT'S NEW IN THE KELL AND GERBICH BLOOD GROUP SYSTEMS</td>
<td>P. C. Ligthart</td>
<td>Sanquin Blood Supply, Amsterdam, Netherlands</td>
</tr>
<tr>
<td>14:00 - 14:30</td>
<td>AND NOW THERE ARE 49: UPDATE ON THE MNS BLOOD GROUP SYSTEM</td>
<td>C. Gassner</td>
<td>Blood Transfusion Service Zurich, SRC, Zurich-Schlieren, Switzerland</td>
</tr>
<tr>
<td>14:30 - 15:00</td>
<td>KIDD BLOOD GROUP SYSTEM: OUTWARDLY SIMPLE WITH HIDDEN COMPLEXITY</td>
<td>J. Hamilton</td>
<td>American Red Cross-Southeastern Michigan Region, Detroit, MI, United States</td>
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<tr>
<td>15:00 - 15:30</td>
<td>Coffee Break</td>
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</table>
Sunday, June 3

13:30 - 15:00
Meeting Room 718B

Academy Day: Clinical Transfusion Practice

Moderators: S. Nahirniak (Canada) and P. Tiberghien (France)

13:30 - 14:00
IS IT TACO, TRALI OR SOMETHING ELSE?
2C-06-01
M. R. Looney
University of California, San Francisco, San Francisco, United States

14:00 - 14:30
NONE TOO S.M.A.LL: THE GLOBAL CHALLENGE OF SEVERE MALARIAL ANEMIA AND ITS TRANSFUSION SUPPORT
2C-06-02
C. Cserti-Gazdewich
University Health Network/University of Toronto, Toronto, Canada

14:30 - 15:00
WHAT IS ECMO, AND WHY DO WE USE IT IN CRITICAL ILLNESS?
2C-06-03
E. Fan
University of Toronto, Toronto, Canada

15:00 - 15:30  Coffee Break
Sunday, June 3

15:30 - 17:00
Meeting Room 718A

Academy Day:
Immunohaematology

Moderators: L. Castilho (Brasil) and E. Muñiz-Diaz (Spain)

15:30 - 16:00
AFTER 70 YEARS, SEROLOGICAL RHD DETERMINATION IS STILL CHALLENGING: DNA TO THE RESCUE
2D-07-01
M. Pisacka
Institute of Haematology and Blood Transfusion, Prague, Czech Republic

16:00 - 16:30
GETTING COMFORTABLE WITH RH BLOOD GROUP SYSTEM TERMINOLOGIES AND DATABASES
2D-07-02
F. F. Wagner
Red Cross Blood Service NSTOB, Springe, Germany, MVZ am Clementinenhaus, Springe, Germany

16:30 - 17:00
DECISION MAKING IN COMPLEX OBSTETRIC CASES: HOW TO END UP WITH A HEALTHY BABY IN HDFN
2D-07-03
M. Delaney
Children’s National Health System, Washington DC, United States, George Washington University, Washington DC, United States

17:30 - 18:30
Opening Ceremony (Plenary Room). See page 116

18:30 - 21:00
Opening of the Trade Exhibition and Welcome Reception
Sunday, June 3

15:30 - 17:00
Meeting Room 718B

Academy Day: Cellular therapies and haemovigilance
Moderator: P. Robillard (Canada)

15:30 - 16:00
MICROBIAL SAFETY OF CELLULAR THERAPEUTICS - LESSONS FROM OVER TEN YEARS' EXPERIENCE IN MICROBIAL SAFETY OF PLATELET CONCENTRATES
M. Störmer, E. Wood, B. Gathof
University Hospital of Cologne, Cologne, Germany

16:00 - 16:30
ADVERSE OUTCOMES AND SUBSTANCES OF HUMAN ORIGIN: CASES FROM THE NOTIFY LIBRARY
E. Petrisli, B. I. Whitaker, M. J. Gandhi, E. Muñiz-Diaz,
J. E. Menitove, A. Navarro, C. Carella, D. M. Strong, A. Nanni Costa
Italian National Transplant Centre (CNT), Italian National Institute of Health, Rome, Italy

16:30 - 17:00
SAFETY AND SURVEILLANCE ISSUES IN STEM CELL MARKETING
D. Sipp
Riken, Kobe, Japan

17:30 - 18:30
Opening Ceremony (Plenary Room) See page 116

18:30 - 21:00
Opening of the Trade Exhibition and Welcome Reception
Monday, June 4

07:00 - 08:15
Meeting Room 401

TP Networking breakfast
*Pre-registration is required to attend this session*

The Transfusion Practitioner networking breakfast is a great opportunity for transfusion practitioners, and those interested in developing the role, to connect and discuss common interests and establish links that can be further developed throughout the congress and beyond.

The breakfast will take place in an informal setting in room 401, a room with a view in the Metro Convention Centre, Toronto.
Monday, June 4

08:30 - 10:00
Plenary Room

Donors and Donation - Clinical effect of iron deficiency

*Moderators: M. Goldman (Canada) and E. Di Angelantonio (United Kingdom)*

08:30 - 09:00
THE EFFECT OF IRON ON FETAL AND NEONATAL BRAIN DEVELOPMENT
3A-S01-01
M. Georgieff
University of Minnesota Medical Center, St. Paul, United States

09:00 - 09:30
THE EFFECT OF BLOOD DONATION OF WOMEN ON THE BIRTHWEIGHT OF THEIR OFFSPRING
3A-S01-02
Copenhagen University Hospital, Copenhagen, Denmark

09:30 - 09:45
EXAMINING THE RELATIONSHIP BETWEEN REPEATED BLOOD DONATIONS IN FEMALE DONORS ON MATERNAL AND NEONATAL OUTCOMES: A COHORT STUDY
3A-S01-03
Ottawa Hospital Research Institute, Ottawa, Canada

09:45 - 10:00
IRON DEFICIENCY AND DEPRESSIVE SYMPTOMS AMONG FEMALE BLOOD DONORS – RESULTS FROM THE DANISH BLOOD DONOR STUDY
3A-S01-04
Copenhagen University Hospital, Rigshospitalet, Copenhagen, Denmark

10:00 - 10:30
Coffee Break
Monday, June 4

08:30 - 10:00
Meeting Room 701

Immunobiology - Red cell serology

Moderators: A. Lazarus (Canada) and N. Thornton (United Kingdom)

08:30 - 09:00
DRUG-INDUCED HEMOLYTIC ANEMIA
3A-S02-01
D. R. Branch
Canadian Blood Services, Toronto, Canada, University of Toronto, Toronto, Canada

09:00 - 09:15
HEMOLYTIC ANEMIA ASSOCIATED WITH ANTI-IMATINIB DETECTED BY THE “IMMUNE COMPLEX” METHOD IN A PATIENT WITH LIVER METASTATIC GASTROINTESTINAL STROMAL TUMOR
3A-S02-02
T. N. N. Nguyen, E. Maenulein, V. Fihman, J. Moh Klaren
Medical Biology Laboratory, French Establishment of Blood, Ile de France, Site Saint-Antoine Paris, France

09:15 - 09:30
NEW APPROACHES TO ELIMINATE CD38 MONOCLONAL ANTIBODIES RELATED INTERFERENCE IN PRE-TRANSFUSION TESTING
3A-S02-03
T. Tremblay, N. Baillargeon, M.-C. Chevrier, L. Loubaki
Héma-Québec, Québec, Canada

09:30 - 09:45
BLOOD TRANSFUSION MANAGEMENT IN THE NEW ERA OF IMMUNE THERAPY: EXPERIENCE FROM THE BELGIAN RED CROSS BLOOD SERVICES
3A-S02-04
E. Lazarova, V. Pede, M.-P. Emonds, A. Muylaert, P. Vandekerckhove, V. Compernolle
Belgian Red Cross-Flanders, Mechelen, Belgium

09:45 - 10:00
SUMMARY OF 2017 UK BENCHMARKING DATA FOR TRAINING ASSESSMENT AND COMPETENCY TOOL (TACT) – EVALUATION OF ERRORS AND USE FOR EDUCATIONAL REVIEW
3A-S02-05
C. L. Whitham, J. White, M. Rowley
(UK NEQAS BTLP), Watford, United Kingdom

10:00 - 10:30
Coffee Break
### Monday, June 4

**08:30 - 10:00**  
**Meeting Room 716**  
**Cellular Therapies - ATMP**  
*Moderators: E. Semple (Sweden) and D. Wall (Canada)*

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
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<tbody>
<tr>
<td>08:30 - 09:00</td>
<td>CORD BLOOD EXPANSION WITH NOVEL SMALL MOLECULE</td>
<td>G. Sauvageau</td>
<td>Maisonneuve-Rosemont Hospital, Montreal, Canada, University of Montreal, Canada</td>
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<tr>
<td>09:00 - 09:30</td>
<td>THE USE OF CORD BLOOD IN METABOLIC DISORDERS AND HYPOXIC BRAIN INJURIES</td>
<td>J. Kurtzberg</td>
<td>Carolinas Cord Blood Bank, Durham, United States</td>
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<td>09:30 - 09:45</td>
<td>NEUROPEPTIDE Y: A POTENT PROLIFERATIVE AGENT IN HEMATOPOIETIC STEM CELLS EX-VIVO CULTURE</td>
<td>S. Moradinasab, K. Atarodi, A. Pourfathollah</td>
<td>High Institute for research and education in Transfusion Medicine, Tehran, Iran</td>
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<td>09:45 - 10:00</td>
<td>SYSTEMIC IMMUNOMODULATION VIA BIOREACTOR PRODUCED LYMPHOCYTE-DERIVED MIRNA: EFFICACY IN AUTOIMMUNE DISEASE AND CANCER</td>
<td>M. D. Scott, X. Yang, W. Toyofuku, N. Kang</td>
<td>University of British Columbia, Vancouver, Canada, Canadian Blood Services, Vancouver, Canada</td>
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<td>10:00 - 10:30</td>
<td>Coffee Break</td>
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</tbody>
</table>
Monday, June 4

08:30 - 10:00
Meeting Room 718A

Clinical - Patient blood management

Moderators: Y. Lin (Canada) and C. Gabriel (Austria)

08:30 - 09:00
PATIENT BLOOD MANAGEMENT BUNDLES
3A-S04-01
P. Meybohm, K. Zacharowski
University Hospital Frankfurt, Frankfurt am Main, Germany

09:00 - 09:30
QUESTIONING THE BENEFIT OF RESTRICTIVE TRANSFUSION
3A-S04-02
PRACTICE IN OLDER ADULTS
G. Simon, A. Craswell, O. Thom, L. Fung
USC Australia, Sippy Downs, Australia

09:30 - 10:00
INTERNATIONAL CONSENSUS CONFERENCE TOWARDS EVIDENCE-BASED PATIENT BLOOD MANAGEMENT IN FRANKFURT/MAIN, GERMANY, APRIL 2018
3A-S04-03
M. M. Mueller, H. Van Remoortel, P. Meybohm, K. Aranko, E. Seifried
German Red Cross Blood Transfusion Service Baden-Wuerttemberg - Hessen, Frankfurt, Germany

10:00 - 10:30
Coffee Break
Monday, June 4

08:30 - 10:00
Meeting Room 718B

Working Party Session on TTID

Moderator: M. Busch (USA)

08:30 - 08:45
OVERVIEW OF TTID WORKING PARTY MISSION, MEMBERSHIP AND ACTIVITIES
3A-S05-01
C. R. Seed, M. Busch
Australian Red Cross Blood Service, Perth, Australia

08:45 - 09:10
SURVEILLANCE, RISK ASSESSMENT AND POLICY (SRAP) – UPDATE ON CURRENT ACTIVITIES
3A-S05-02
S. O’Brien, B. Custer
Canadian Blood Services, Ottawa, Canada

09:10 - 09:35
ACTIVITIES OF THE ISBT WORKING PARTY FOR TRANSFUSION TRANSMITTED INFECTIOUS DISEASES - BACTERIAL SUBGROUP
3A-S05-03
S. Ramirez-Arcos, C. McDonald
NHSBT, London, United Kingdom

09:35 - 10:00
ISBT TTID WORKING PARTY PARASITE SUBGROUP: OVERVIEW OF ACTIVITIES
3A-S05-04
E. Bloch, S. Wendel, D. Leiby
Johns Hopkins University School of Medicine, Baltimore, United States

10:00 - 10:30
Coffee Break
Monday, June 4

**08:30 - 10:00**
**Meeting Room 801**

**Working Party Session on IT**

**08:30 - 09:00**
**3A-S06-01**
**ELECTRONIC IDENTITY CONTROL, REPLACEMENT IDENTIFICATION, AND MULTIPLE TRANSFUSIONS MADE EASY IN THE OR/ER**
J. Georgsen, L. Espensen
South Danish Transfusion Service and Tissue Center, Odense C, Denmark

**09:00 - 09:45**
**3A-S06-02**
**FINDING BLOOD PRODUCTS VIA RFID AND COMPLEMENTARY TECHNOLOGIES**
L. Briggs
Versiti/BloodCenter of Wisconsin, Milwaukee, United States

**09:45 - 10:00**
**3A-S06-03**
**PRACTICAL CONSIDERATIONS IN IMPLEMENTING RFID FOR THE BLOOD SUPPLY**
S. Lam
Health Sciences Authority, Singapore

**10:00 - 10:30**
**Coffee Break**
Monday, June 4

10:30 - 12:00  
**Plenary Room**

**Plenary Session: Arthropod borne infections**  
*Moderators: C. Cserti-Gazdewich (Canada) and D. Leiby (United States)*

10:30 - 11:00  
**INSECT DISEASE VECTORS AND THEIR IMPACT ON HUMAN HEALTH**  
**PL1-01**  
L. C. Harrington  
Cornell University, Ithaca, United States

11:00 - 11:30  
**HUMAN GENETIC RESISTANCE TO MALARIA**  
**PL1-02**  
E. Leffler  
University of Oxford, Oxford, United Kingdom, Wellcome Trust Sanger Institute, Hinxton, United Kingdom

11:30 - 12:00  
**IMMUNE ROLE OF PLATELETS IN MALARIA**  
**PL1-03**  
B. McMorran  
Australian National University, Canberra, Australia

12:00 - 14:00  
**Lunch and Satellite Symposia**
Monday, June 4

14:00 - 15:30
Plenary Room

Management and Organisation
- Management of blood components in different settings

Moderators: P. Vandekerckhove (Belgium) and S. Nahiriak (Canada)

14:00 - 14:30
EMERGENCY PREPAREDNESS FOR MASS CASUALTY EVENTS
3C-S07-01
H. A. Doughty
NHS Blood and Transplant, Birmingham, United Kingdom

14:30 - 14:45
LONDON 2017: A YEAR TO REMEMBER FOR ALL THE WRONG REASONS!
3C-S07-02
D. Mc Keown, F. Chowdhury, F. Regan
Imperial College Healthcare NHS Trust, London, United Kingdom

14:45 - 15:00
GROUP O RHD NEGATIVE RED BLOOD CELL UNITS: WHEN ENOUGH IS ENOUGH
3C-S07-03
L. Bielby, C. Flores, C. Akers, J. van Diemen, B. Glazebrook, P. Beard, J. Daly
Australian Red Cross Blood Service, West Melbourne, Australia

15:00 - 15:15
USING THE AB PLASMA APPROPRIATENESS INDEX AS A BENCHMARKING TOOL IMPROVED AB PLASMA TRANSFUSION PRACTICE THROUGH QUALITY IMPROVEMENT INITIATIVES
3C-S07-04
S. Al Khan, K. Rosinski, L. Sham, T. Petraszko, K. Roland, M. Hudoba, A. Shih
Ministry of Health, Muscat, Oman, University of British Columbia, Vancouver, Canada

15:15 - 15:30
DEVELOPMENT OF SCENARIOS FOR THE FUTURE DEMAND OF BLOOD PRODUCTS IN THE NETHERLANDS: AN OVERVIEW
3C-S07-05
P. Langi Sasongko, M. van Kraaij, K. van den Hurk, M. Janssen
Sanquin, Amsterdam, Netherlands

15:30 - 16:00
Coffee Break
Monday, June 4

14:00 - 15:30  
Meeting Room 701

**Donors and Donation - Donors Vasovagal reactions**

*Moders: P. van den Burg (Netherlands) and P. Robillard (Canada)*

**14:00 - 14:30**

**DONOR VASOVAGAL REACTIONS, HOW CAN WE REDUCE THEM?**

3C-S08-01  
DONOR VASOVAGAL REACTIONS, HOW CAN WE REDUCE THEM?  
J. Castrén  
Finnish Red Cross Blood Service, Helsinki, Finland

**14:30 - 14:45**

**BLOOD DONATION IN INDIVIDUALS OVER AGE 70: A BEST COLLABORATIVE GROUP STUDY**

3C-S08-02  
BLOOD DONATION IN INDIVIDUALS OVER AGE 70: A BEST COLLABORATIVE GROUP STUDY  
M. Goldman, M. Germain, Y. Grégoire, H. Kamel, M. Bravo, R. Vassallo, S. F. O’Brien  
Canadian Blood Services, Ottawa, Canada

**14:45 - 15:00**

**RISK FACTORS FOR ON-SITE OR DELAYED FAINTING REACTIONS IN MALE AND FEMALE BLOOD DONORS: RESULTS FROM THE EVASION STUDY**

3C-S08-03  
RISK FACTORS FOR ON-SITE OR DELAYED FAINTING REACTIONS IN MALE AND FEMALE BLOOD DONORS: RESULTS FROM THE EVASION STUDY  
Etablissement Français du Sang, La Plaine St-Denis, France

**15:00 - 15:15**

**BRADYCARDIA AND TACHYCARDIA ASSOCIATED WITH SYNCOPAL/ PRE-SYNCOPAL ADVERSE EVENTS IN BLOOD DONORS**

3C-S08-04  
BRADYCARDIA AND TACHYCARDIA ASSOCIATED WITH SYNCOPAL/ PRE-SYNCOPAL ADVERSE EVENTS IN BLOOD DONORS  
H. Kamel, M. Bravo, M. Townsend  
Blood Systems, Scottsdale, United States

**15:15 - 15:30**

**TO STUDY THE EFFECT OF PRE-DONATION SALT LOADING ON VASOVAGAL REACTIONS IN COLLEGE GOING STUDENTS**

3C-S08-05  
TO STUDY THE EFFECT OF PRE-DONATION SALT LOADING ON VASOVAGAL REACTIONS IN COLLEGE GOING STUDENTS  
K. Kumar, N. Marwaha, S. Sachdev  
PGIMER, Chandigarh, India

**15:30 - 16:00**

**Coffee Break**
Monday, June 4

14:00 - 15:30
Meeting Room 716

Young investigators session
Moderators: E. van der Schoot (Netherlands) and J. Semple (Sweden)

14:00 - 14:15
RE-EVALUATING THE SHELF-LIFE OF WHOLE BLOOD FOR CIVILIAN USE.
3C-S09-01
S. Huish, L. Green, L. Bower, C. Cavagnetto, E. Curnow, S. Garner, L. George, J. Jolley, M. McAndrew, A. Pullen, F. Seeney, P. Smethurst, M. Wiltshire, R. Cardigan
NHS Blood and Transplant, Cambridge, United Kingdom

14:15 - 14:30
RED BLOOD CELL UTILIZATION AND TRANSFUSION TRIGGERS IN PATIENTS DIAGNOSED WITH CHRONIC LYMPHOCYTIC LEUKEMIA IN ICELAND 2003-2016
3C-S09-02
H. H. Thorvaldsson, S. V. Sveinsdottir, A. M. Halldorsdottir
University of Iceland, Reykjavik, Iceland

14:30 - 14:45
CD44 ANTIBODIES INHIBIT MACROPHAGE FCGAMMA RECEPTOR-MEDIATED PHAGOCYTOSIS OF PLATELETS AND ERYTHROCYTES IN AN IGG SUBTYPE AND FC-DEPENDENT MANNER: A POTENTIAL REPLACEMENT FOR IVIG?
3C-S09-03
P. A. A. Norris, G. Zhu, G. Fairn, H. Ni, A. Lazarus
St. Michael’s Hospital, Toronto, Canada, University of Toronto, Toronto, Canada, Canadian Blood Services, Toronto, Canada

14:45 - 15:00
NEUROPROTECTIVE EFFECTS OF A DEDICATED VIRALLY-INACTIVATED PLATELET LYSATE CONCENTRATED IN NEUROTROPHINS IN CELL-BASED AND ANIMAL MODELS OF PARKINSON’S DISEASE
3C-S09-04
Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, Taiwan, Republic of China, Service de Pharmacologie Clinique LICEND COEN Center Lille, University of Lille, INSERM UMR-S 1171, CHU de Lille, Lille, France, Graduate Institute of Biomedical Materials and Tissue Engineering, College of Biomedical Engineering, Taipei Medical University, Taipei, Taiwan, Republic of China
Monday, June 4

14:00 - 15:30
Meeting Room 716

Young investigators session
(Continued)

15:00 - 15:15
COMBINED ORAL CONTRACEPTIVES ARE ASSOCIATED WITH HIGHER LEVELS OF BLOOD PLATELETS AMONG HEALTHY WOMEN: RESULTS FROM THE DANISH BLOOD DONOR STUDY (DBDS)
Aarhus University Hospital, Aarhus, Denmark

15:15 - 15:30
UNDERLYING INFECTION CONTRIBUTES TO TRANSFUSION-RELATED IMMUNE MODULATION IN AN IN VITRO PLATELET TRANSFUSION MODEL
A. Sultana, M. M. Dean, M. C. Reade, R. L. Flower, J.-P. Tung
Australian Red Cross Blood Service, Kelvin Grove, Australia, The University of Queensland, Queensland, Australia, The Prince Charles Hospital, Chermside, Australia

15:30 - 16:00
Coffee Break
Monday, June 4

14:00 - 15:30
Meeting Room 718A

Blood Products - Platelets: novel products and processes
Moderators: C. Pambrun (Canada) and P. van der Meer (Netherlands)

14:00 - 14:30
NOVEL PLATELET PRODUCTS
3C-S10-01
R. Cardigan
NHS blood and Transplant, United Kingdom

14:30 - 14:45
INSIGHT ONTO THE OPTIMAL PLASMA CONTENT IN PLATELET STORAGE MEDIA TO ACCOMPLISH COLD STORAGE OF PLATELET CONCENTRATES
3C-S10-02
I. Marini, K. Aurich, R. Jouni, A. Greinacher, T. Thiele, T. Bakchoul
University Medicine Greifswald, Greifswald, Germany

14:45 - 15:00
PLATELET ADDITIVE SOLUTION (PAS): A STEP TOWARDS UNIVERSAL SINGLE DONOR PLATELETS (SDP)
3C-S10-03
M. Chowdhry, M. Patel, S. Agrawal
Indraprastha Apollo Hospital, New Delhi, India

15:00 - 15:15
A NOVEL FUNCTION FOR PLASMA CLOTTING FACTOR VA IN CLOT DISSOLUTION
3C-S10-04
E. Pryzdial, F. Lee
University Of British Columbia, Vancouver, Canada

15:15 - 15:30
IMPROVING BLOOD MANAGEMENT: NON-DESTRUCTIVE QUALITY ASSESSMENT OF RED BLOOD CELL CONCENTRATES USING MINI-BAGS
3C-S10-05
P. Schubert, B. Culibrk, Z. Chen, A. Howell, D. Devine, K. McTaggart
Canadian Blood Services, Vancouver, Canada, University of British Columbia, Vancouver, Canada

15:30 - 16:00
Coffee Break
Monday, June 4

14:00 - 15:30
Meeting Room 718B

Blood Safety - Bacterial and parasitic infections

Moderators: S. Ramirez Acros (Canada) and C. McDonald (United Kingdom)

14:00 - 14:30
BACTERIAL CONTAMINATION OF 7-DAY PLATELETS: EXPERIENCE AT CANADIAN BLOOD SERVICES
S. Ramirez-Arcos, S. Evans, T. McIntyre, C. DiFranco, M. Goldman
Canadian Blood Services, Ottawa, Canada

14:30 - 14:45
IMPROVING THE SAFETY OF PLATELETS BY INCREASING THE SAMPLE VOLUME AND TIME FOR SAMPLING AND ISSUING - BACTERIOLOGICAL RESULTS
F. Bernier, G. Delage
Hema-Quebec, Saint-Laurent, Canada

14:45 - 15:00
RAPID BACTERIAL DETECTION SYSTEM PREVENTS SEVERE BACTERIAL INFECTION
German Red Cross, Frankfurt, Germany

15:00 - 15:15
NATIONAL SEROPREVALENCE OF Trypanosoma Cruzi IN MEXICAN BLOOD DONORS, 2007-2016.
L. Salazar, J. Rojo Medina, G. Estrada-García, J. Trejo
National Blood Transfusion Center, Mexico

15:15 - 15:30
A RETROSPECTIVE COMPARISON OF MALARIA POLICY FORMULATION IN 5 NON-ENDEMIC COUNTRIES
Canadian Blood Services, Ottawa, Canada

15:30 - 16:00
Coffee Break
Monday, June 4

14:00 - 15:30
Meeting Room 801

Working Party Session on Quality Management

Moderator: C. Seidl (Germany)

14:00 - 14:30
PRINCIPLES OF DATA COLLECTION AND ANALYSIS IN ACHIEVING AN EFFECTIVE QUALITY MANAGEMENT SYSTEM IN BLOOD ESTABLISHMENTS

T. Vuk
Croatian Institute of Transfusion Medicine, Zagreb, Croatia

14:30 - 15:00
GMP IN THE COLLECTION PRACTICES OF BLOOD COMPONENTS AND SOURCE PLASMA FOR FRACTIONATION - THE IPFA EXPERIENCE

P. Strengers
International Plasma and Fractionation Association, Amsterdam, Netherlands

15:00 - 15:15
SELF-INSPECTION AND AUDITS BASED ON GMP AND GPG PREPARING FOR REGULATORY INSPECTIONS – THE EUBIS EXPERIENCE

C. Seidl
German Red Cross Blood Donor Service Baden-Württemberg-Hessen, Frankfurt am Main, Germany

15:15 - 15:30
BUILDING QUALITY AWARENESS IN DEVELOPING COUNTRIES - THE AFSBT EXPERIENCE

L. A. Bust
Africa Society for Blood Transfusion (AFSBT), Cape Town, South Africa

15:30 - 16:00
Coffee Break
Monday, June 4

14:00 - 15:30
Meeting Room 802

Interactive workshop

Designing clinical transfusion research
A workshop will be held on designing clinical transfusion research with an opportunity to receive feedback on your own plans and ideas. After an introduction to developing the research question and choosing between different study designs, we continue with sent-in (or locally presented) questions and examples and explain what would be the best approach and why. The workshop will be led by Leo van de Watering.

15:30 - 16:00 Coffee Break
Monday, June 4

16:00 - 17:30
Plenary Room

Blood products - Pathogen inactivation

Moderators: R. Cardigan (UK) and M. Germain (Canada)

16:00 - 16:30
PATHOGEN INACTIVATION TECHNOLOGIES: PROGRESS, HURDLES AND THE FUTURE
3D-S13-01
D. Devine
Canadian Blood Services, Vancouver, Canada, Univ. of British Columbia, Vancouver, Canada

16:30 - 16:45
COMPARING CLINICAL USE, EFFECTIVENESS, AND RISKS ACROSS TRANSITION FROM FRESH FROZEN PLASMA TO SOLVENT/DETERGENT PLASMA IN THE NETHERLANDS
3D-S13-02
N. H. Saadah, M. R. Schipperus, J. C. Wiersum-Osselton, M. G. van Kraaij, C. Caram-Deelder, J. G. van der Bom Sanquin Research, Leiden, Netherlands, Leiden University Medical Center, Leiden, Netherlands

16:45 - 17:00
COMBINING UVC-PATHOGEN INACTIVATION AND COLD-STORAGE: A NOVEL APPROACH TO IMPROVE PLATELET SAFETY AND EXTEND THE SHELF-LIFE
3D-S13-03
M. Cameron, L. Waters, M. Padula, D. Marks, L. Johnson Australian Red Cross Blood Service, Sydney, Australia, Sydney Medical School, Sydney, Australia

17:00 - 17:15
THREE YEARS ROUTINE EXPERIENCE OF MANUAL PRODUCTION OF DOUBLE-DOSE BUFFY COAT PLATELETS AND PATHOGEN INACTIVATION SYSTEM INTERCEPT: IMPACT ON ECONOMY, BLOOD SAFETY AND BLOOD COMPONENT QUALITY
3D-S13-04
H.-S. Ahlzén, L. Larsson Karolinska University Hospital, Stockholm, Sweden

17:15 - 17:30
NO INTERCEPT (S-303/GLUTATHIONE)-SPECIFIC ANTIBODIES DETECTED IN A PHASE III, RANDOMIZED, CONTROLLED STUDY TO EVALUATE PATHOGEN-INACTIVATED RED BLOOD CELLS IN THALASSEMIA MAJOR PATIENTS (SPARC)
3D-S13-05
C. Geisen, Y. Aydinok, R. Origa, A. Piga, V. Brixner, N. Mufti, A. Erickson, C. Ernst, A. North, L. Corash, R. Benjamin Goethe-University Frankfurt/Main, University of Frankfurt, Frankfurt, Germany
Monday, June 4

**16:00 - 17:30**

**Meeting Room 701**

**Clinical - Critical care and bleeding**

*Moderators: J. Callum (Canada) and S. Allard (United Kingdom)*

**16:00 - 16:15**

**3D-S14-01**

PRELIMINARY EVIDENCE THAT INCREASED STORAGE DURATION OF TRANSFUSED PLATELET CONCENTRATES IS ASSOCIATED WITH REDUCED RESPIRATORY FUNCTION IN A SHEEP MODEL OF INFECTION


Australian Red Cross Blood Service, Brisbane, Australia, The Prince Charles Hospital, Brisbane, Australia, University of Queensland, Brisbane, Australia, Queensland University of Technology, Brisbane, Australia

**16:15 - 16:30**

**3D-S14-02**

MEASUREMENT OF CELLULAR OXYGENATION IN CRITICALLY ILL PATIENTS RECEIVING RED BLOOD CELL TRANSFUSION

M. Baysan, M. Arbous, E. Mik, N. Juffermans, J. van der Bom

Sanquin Research, Leiden, Netherlands, Leiden University Medical Center, Leiden, Netherlands

**16:30 - 16:45**

**3D-S14-03**

PREDICTING PERSONALIZED BENEFITS AND HARMS OF BLOOD TRANSFUSION IN CRITICALLY ILL PATIENTS

J. G. van der Bom, F. Kranenburg, S. le Cessie, H. Putter, C. Caram-Deelder, M. S. Arbous

Sanquin Blood Supply & Leiden University Medical Center, Leiden, Netherlands, Leiden University Medical Center, Leiden, Netherlands

**16:45 - 17:00**

**3D-S14-04**

HAEMATOLOGICAL FEATURES, TRANSFUSION MANAGEMENT AND OUTCOMES OF MASSIVE OBSTETRIC HAEMORRHAGE: FINDINGS FROM THE AUSTRALIAN/NEW ZEALAND MASSIVE TRANSFUSION REGISTRY

M. Lasica, M. Tacey, R. Sparrow, E. Wood, Z. McQuilten

Monash University, Melbourne, Australia, Australian Red Cross Blood Service, Melbourne, Australia, Box Hill Hospital, Melbourne, Australia
Monday, June 4

16:00 - 17:30
Meeting Room 701

Clinical - Critical care and bleeding
(Continued)

17:00 - 17:15
3D-S14-05

CHANGES IN COAGULATION PARAMETERS DURING THE COURSE OF POSTPARTUM HAEMORRHAGE: A NATIONWIDE RETROSPECTIVE COHORT STUDY
A. Gillissen, T. van den Akker, C. Caram-Deelder, D. Henriquez, K. Bloemenkamo, M. de Maat, J. Eikenboom, J. van der Bom
Sanquin Research, Leiden, Netherlands

17:15 - 17:30
3D-S14-06

THE CLOCK IS TICKING: USING IN SITU SIMULATION TO IMPROVE TIME TO BLOOD DELIVERY IN BLEEDING TRAUMA PATIENTS
A. Gray, L. Chartier, K. Pavenksi, M. McGowan, A. Petrosoniak
University of Toronto, Toronto, Canada, St. Michael’s Hospital, Toronto, Canada
Monday, June 4

16:00 - 17:30
Meeting Room 716

Blood safety - Resource limited countries

Moderators: C. Tangy (France) and H. Hume (Canada)

16:00 - 16:30
SITUATION ANALYSIS OF DONOR HEALTH ASSESSMENT QUESTIONNAIRE IN PAKISTAN
H. I. Shabber, S. J. Ansari, S. O’Brien
Federal Government Services Hospital and Post Graduate Medical Institute, Islamabad, Pakistan

16:30 - 17:00
ADDRESSING TRANSFUSION TRANSMITTED MALARIA IN KENYA
V. Magutu
University of Nairobi, Nairobi, Kenya

17:00 - 17:15
PROFICIENCY TESTING OF VIRAL MARKER SCREENING IN AFRICAN BLOOD CENTER LABORATORIES: A MULTINATIONAL STUDY
B. Drammeh, S. Laperche, Z. Kaidarova, D. Hindes, L. Ozeransky, A. De, M. Kalou, B. Parekh, E. L. Murphy
UCSF, San Francisco, United States

17:15 - 17:30
HIGH RATE OF HCV AND HIV FALSE-POSITIVE RESULTS IN SEROLOGICAL SCREENING CAN IMPAIR BLOOD SUPPLY IN SUB-SAHARAN AFRICA
Institut National de la Transfusion Sanguine, Paris, France
**Monday, June 4**

**16:00 - 17:30**  
**Meeting Room 718A**  

**New developments in immunohematology**  

*Moderators: H. Ni (Canada) and M. de Haas (Netherlands)*

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<tr>
<th>Time</th>
<th>Title</th>
<th>Authors/Institutions</th>
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<tr>
<td>16:00 - 16:15</td>
<td>ANTI-GP V AUTOANTIBODIES ARE A FREQUENT FINDING IN PATIENTS WITH IMMUNE THROMBOCYTOPENIA AND LEAD TO EFFICIENT PLATELET REMOVAL IN A MURINE MODEL</td>
<td>R. Vollenberg, R. Jouni, M. Burg-Roderfeld, G. Bein, T. Bakchoul, U. J. Sachs Justus Liebig University, Giessen, Germany</td>
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<td>16:30 - 16:45</td>
<td>THE NLRP3 INHIBITOR DECREASE ERYTHROPHAGOCYTOSIS BY THP-1 CELLS THROUGH OPSONIZED AND UNOPSONIZED MECHANISM</td>
<td>Q. Li, F. Zhao, J. Zhang, G. Lu, R. Xia, Z. Zhu Shanghai Blood Center, Shanghai, China</td>
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<td>16:45 - 17:00</td>
<td>ERYTHROPHAGOCYTOSIS INDUCES MHC CLASS II EXPRESSION ON NEUTROPHILS</td>
<td>S. M. Meinderts, G. Baker, S. van Wijk, B. Beuger, J. Geissler, T. van den Berg, R. van Bruggen Sanquin Research and Landsteiner Laboratory, Amsterdam, Netherlands</td>
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<td>17:00 - 17:15</td>
<td>NON-INVASIVE FETAL RHD SCREENING ALLOWS DISCONTINUATION OF NEWBORN RHD TESTING</td>
<td>M. Kuosmanen, S. Toivonen, K. Haimila, K. Sulin, A. Korhonen, I. Sareneva, S. Sainio Finnish Red Cross Blood Service, Helsinki, Finland</td>
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Monday, June 4

16:00 - 17:30
Meeting Room 718B

Clinical - Neonatal and paediatric transfusion

Moderators: H. New (United Kingdom) and N. Shehata (Canada)

16:00 - 16:30
3D-S17-01

VOLUME EXPANSION WITH BLOOD COMPONENTS AND CRYSTALLOIDS IN NEONATES: INSIGHTS FROM A NEONATOLOGIST WORKING IN TRANSFUSION MEDICINE RESEARCH

A. Keir
South Australian Health and Medical Research Institute, North Adelaide, Australia, University of Adelaide, North Adelaide, Australia, Women's and Children's Hospital, North Adelaide, Australia

16:30 - 16:45
3D-S17-02

COMPARISON OF HEMATOCRIT CHANGE IN PRETERM NEONATES WITH BIRTH WEIGHT BASED VERSUS FORMULA BASED PACKED RED BLOOD CELL TRANSFUSION

S. Jain, D. Chawla, G. Kaur
Government Medical College and Hospital, Chandigarh, Chandigarh, India

16:45 - 17:00
3D-S17-03

RECEIVED WITH BOTH GRATITUDE AND FEAR: LOCAL PERCEPTIONS OF BLOOD TRANSFUSION FOR CHILDHOOD SEVERE ANAEMIA IN UGANDA

Makerere University, College of Health Sciences, Kampala, Uganda

17:00 - 17:15
3D-S17-04

LATE ANEMIA IN ALLOIMMUNE HEMOLYTIC DISEASE OF THE NEWBORN: INCIDENCE AND RISK FACTORS

I. M. C. Ree, R. Middelburg, J. van der Born, M. de Haas, E. Lopriore
Leiden University Medical Center, Leiden, Netherlands, Sanquin Research, Leiden, Netherlands

17:15 - 17:30
3D-S17-05

INCIDENCE OF ANEMIA AT DISCHARGE IN 4890 CONSECUTIVE PEDIATRIC INTENSIVE CARE SURVIVORS

CHU Sainte-Justine, Montreal, Canada
Monday, June 4

16:00 - 17:30
Meeting Room 801

Working Party Session on Donor and Donation

Moderator: P van den Burg (Netherlands)

16:00 - 16:30
COMPLICATIONS OF BLOOD DONATION
3D-S18-01
C. Napoli
S.U.N. (II Università di Napoli, Italy), Napoli, Italy

16:30 - 17:00
NEEDLE RELATED COMPLICATIONS OF BLOOD DONATION
3D-S18-02
M. Townsend
Blood Systems, Scottsdale, United States

17:00 - 17:30
APHERESIS COMPLICATIONS
3D-S18-03
M. Neyrink, H. Vrielink, D. Deeren
AZ Delta Roeselare, Roeselare, Belgium
Monday, June 4

16:00 - 17:30
Meeting Room 802

The Transfusion Practitioner role in the stewardship of blood

*Moderators: C. So-Osman (Netherlands) and L. de Biasio (Canada)*

16:00 - 16:30
DISASTER PLANNING: THE ROLE OF THE TRANSFUSION PRACTITIONER
3C-S19-01
R. Deelen, E. Costermans, R. Moss, C. Akers
IJsselland Hospital, Capelle a/d IJssel, Netherlands

16:30 - 17:00
THE TRANSFUSION PRACTITIONER ROLE IN MINIMISING BLOOD WASTAGE
3C-S19-02
L. Bielby, C. Denison, L. De Biasio
Department of Health and Human Services, Victoria and Australian Red Cross Blood Service, Melbourne, Australia

17:00 - 17:30
IS ONTRAC ON TRACK? A FIFTEEN YEAR EXPERIENCE
3C-S19-03
A. Howell
St. Michael’s Hospital, Toronto, Canada
Tuesday, June 5

07:00 - 08:15
Meeting Room 401

Young Investigator Breakfast

Pre-registration is required to attend this session

The Young Investigators breakfast is a great opportunity for researchers, who are 40 years old or less to meet and talk to transfusion medicine experts, who will be available to discuss the challenges and joys of research and to give tips and suggestions.

The breakfast will take place in an informal setting in room 401, a room with a view in the Metro Convention Centre, Toronto.
Tuesday, June 5

**08:30 - 09:30**
**Plenary Room**

**Jean Julliard Prize**
*Moderators: R. Reddy (South Africa) and M.L. Olsson (Sweden)*

**08:30 - 09:00**
**PL2-01**
TRALI: TRIGGERS, THRESHOLD AND TESTING  
L. Fung  
University of the Sunshine Coast, Australia

**09:00 - 09:30**
**PL2-02**
TRANSFUSION-RELATED ACUTE LUNG INJURY (TRALI):  
IDENTIFICATION OF NOVEL RISK FACTORS AND POTENTIAL THERAPIES  
R. Kapur  
Lund University, Lund, Sweden

**09:30 - 10:00**
**Coffee Break**
Tuesday, June 5

10:00 - 11:30  
Plenary Room

**Presidential Award Session**

*Moderators: R. Reddy (South Africa) and P. Strengers (Netherlands)*

**10:00 - 10:15**  
**PL3-01**  
LAUDATION  
H. Reesink  
Amsterdam Medisch Centrum, Amsterdam, Netherlands

**10:15 - 10:35**  
**PL3-02**  
HISTORICAL OVERVIEW TO PREVENT BLOOD TRANSMISSIBLE INFECTIOUS AGENTS  
H.J. Alter  
NIH, Bethesda, Maryland, United States

**10:35 - 10:55**  
**PL3-03**  
IMPACT OF HEPATITIS E VIRUS INFECTION ON THE SAFETY OF THE BLOOD SUPPLY  
H. Zaaijer  
Sanquin Blood Supply Foundation, Amsterdam, Netherlands

**10:55 - 11:25**  
**PL3-04**  
ESTIMATING RISK AND EVALUATING EFFICACY OF RISK REDUCTION STRATEGIES  
M. Busch  
Blood Systems Research Institute, San Francisco, United States
Tuesday, June 5

11:45 - 12:30
Room 801

ISBT General Assembly

All ISBT members are encouraged to attend the General Assembly where they will hear a review of 2017/18 and welcome the new Board members.

1. Welcome

2. Draft Minutes of the General Assembly held on Tuesday June 20, 2017

3. Report of the ISBT President

4. Report of the Secretary General

5. Report of the Treasurer

6. Membership fees 2019/20

7. Presentation of certificates to retiring Working Party Chairpersons

8. Presentation of certificates to retiring Board members

9. Announcement of the Board of Directors 2018

10. Incoming President’s address

11. Announcement of the date of the next General Assembly (Tuesday June 25, 2019)

12. Any other business

13. Closure

12:00 - 14:00  Lunch and satellite symposia
Tuesday, June 5

14:00 - 15:30
Plenary Room

Immunobiology - The future of Red Cell genotyping

Moderators: D. Branch (Canada) and T. Peyrard (France)

14:00 - 14:30
THE ROLE OF MOLECULAR GENOTYPING – A NEW ERA
4C-S20-01
N. Gleadall
Department of Haematology, University of Cambridge, Cambridge, United Kingdom

14:30 - 14:45
EXTENDED GENOTYPING OF BLOOD DONORS BY NEXT GENERATION SEQUENCING
4C-S20-02
C. Weinstock, J. Mytilineos, J. Portegys, P. Bugert, H. Schrezenmeier, D. Fürst
Institute of Clinical Transfusion Medicine and Immunogenetics Ulm, German Red Cross Blood Service Baden-Württemberg - Hessen, Institute of Transfusion Medicine, Ulm University, Ulm, Germany

14:45 - 15:00
DEVELOPMENT OF A NEXT GENERATION SEQUENCING BASED ABO BLOOD GROUP ASSAY AND TYPING SOFTWARE
4C-S20-03
W. J. Lane, H. Mah, A. Joseph, J. Baronas, J. Aeschlimann, S. Vege, L. Silberstein, C. Westhoff
Harvard Medical School, Boston, United States, Brigham and Women's Hospital, Boston, United States

15:00 - 15:15
DATA VISUALIZATION OF A LARGE GENOTYPED DONOR DATABASE
4C-S20-04
W. Anani, G. Denomme
Medical College of Wisconsin, Milwaukee, United States, BloodCenter of Wisconsin, Milwaukee, United States

15:15 - 15:30
SATISFYING REQUESTS FOR EXTENSIVELY TYPED RED BLOOD CELL UNITS FROM INVENTORY
4C-S20-05
J. van Sambeek, M. Janssen, H. Schonewille, N. van Dijk, C.E. van der Schoot
Sanquin Research, Amsterdam, Netherlands, University of Twente, Enschede, Netherlands

15:30 - 16:00
Coffee Break
Tuesday, June 5

14:00 - 15:30
Meeting Room 701

Donors and Donation - Donor risk assessment

Moderators: S. O'Brien (Canada) and B. Custer (United States)

14:00 - 14:30
BLOOD DONATION AND MSM: A POINT OF VIEW FROM THE SCREENING LABORATORY
S. Sauleda
Banc de Sang i Teixits, Barcelona, Spain

14:30 - 14:45
INFECTION PRESSURE IN MEN WHO HAVE SEX WITH MEN AND THEIR SUITABILITY TO DONATE BLOOD
T. J. van de Laar, W. van Bilsen, A. Matser, K. van den Hurk, E. Slot, M. Schim van der Loeff, H. Zaaijer, M. Prins
Sanquin, Amsterdam, Netherlands

14:45 - 15:00
THE USE OF THE ABO RISK-BASED DECISION MAKING FRAMEWORK IN SUPPORTING DONOR SELECTION DECISIONS
G. Mallinson, S. Brailsford, K. Davison, C. Newstead
Public Health England, London, United Kingdom

15:00 - 15:15
HIV RESIDUAL RISK IN THE UK: MODELLING THE IMPACT OF A THREE MONTH DEFERRAL OF DONORS WITH HIGHER RISK SEXUAL BEHAVIOURS
K. Davison, M. Katz, C. Reynolds, S. Brailsford
Public Health England, London, United Kingdom

15:15 - 15:30
IMPLEMENTATION OF A SCRIPT FOR PRE-DONATION INTERVIEWS: IMPACT ON BLOOD SAFETY
J. O. Mitchel, B. Custer, Z. Kaidarova, K. van den Berg
South African National Blood Service, Mpumalanga Zone, South Africa

15:30 - 16:00
Coffee Break
Tuesday, June 5

14:00 - 15:30
Meeting Room 716

Management and organization - Blood and product supply

_Moderators: M. Vermeulen (South Africa) and K. Webert (Canada)_

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
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<tbody>
<tr>
<td>14:00 - 14:30</td>
<td>TOWARDS A SAFE AND SUFFICIENT BLOOD SUPPLY IN AFRICA</td>
<td>D. Kyeyune, H. Hume</td>
<td>Uganda Blood Transfusion Service, Kampala, Uganda</td>
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<tr>
<td>14:30 - 14:45</td>
<td>THE USE OF SMART APPLICATIONS TO IMPROVE BLOOD DONORS RECRUITMENT AND RETENTION</td>
<td>M. Y. Raouf, R. Sharma</td>
<td>Dubai Health Authority, Dubai, United Arab Emirates</td>
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<tr>
<td>14:45 - 15:00</td>
<td>A PROVINCIAL IMMUNE GLOBULIN SCREENING PILOT FOR NEUROLOGY</td>
<td>D. Evanovitch, L. Young, W. Owens, L. Shepherd</td>
<td>Ontario Regional Blood Coordinating Network-ORBCoN, Hamilton, Canada</td>
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<tr>
<td>15:00 - 15:15</td>
<td>A PROSPECTIVE STUDY OF BLOOD UTILIZATION IN ELECTIVE SURGERIES FOR FORMULATION OF MAXIMUM SURGICAL BLOOD ORDERING SCHEDULE (MSBOS) AT A TERTIARY CARE TEACHING HOSPITAL IN CHANDIGARH, INDIA</td>
<td>M. Devnani, S. S. Bawa, A. K. Gupta, A. Jain, V. Suri, S. Aggarwal</td>
<td>Post Graduate Institute of Medical Education and Research, Chandigarh, India</td>
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<td>15:30 - 16:00</td>
<td>Coffee Break</td>
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Tuesday, June 5

**14:00 - 15:30**  
Meeting Room 718A  
Blood products - Frozen platelets

*Moderators: M. Zeller (Canada) and M. Lozano (Spain)*

**14:00 - 14:30**  
**4C-S23-01**  
FROZEN PLATELETS: CURRENT PRACTICE, EVIDENCE, EVIDENCE GAPS AND CLINICAL RESEARCH PROGRAMS UNDERWAY  
M. C. Reade  
Australian Defence Force, Canberra, Australia, University of Queensland, Brisbane, Australia

**14:30 - 14:45**  
**4C-S23-02**  
INVESTIGATION OF DIFFERENT RESUSPENSION SOLUTIONS FOR THAWED CRYOPRESERVED PLATELETS: AN INTERNATIONAL STUDY  
Australian Red Cross Blood Service, Alexandria, Australia

**14:45 - 15:00**  
**4C-S23-03**  
RELEASE OF BIOLOGIC RESPONSE MODIFIERS FOLLOWING CRYOPRESERVATION OF PATHOGEN REDUCED AND NON-PATHOGEN REDUCED PLATELET CONCENTRATES  
N. Tynngård, P. Sandgren  
Research and Development Unit in Region Östergötland, Linköping, Sweden

**15:00 - 15:15**  
**4C-S23-04**  
CRYOPRESERVED DOXORUBICIN-LOADED PLATELETS (PLT-DOX) AS TARGETED CELL-BASED DELIVERY SYSTEM FOR CANCER THERAPY: A TROJAN HORSE TRANSLATIONAL APPROACH  
Y.-W. Wu, C.-C. Huang, C. A. Changou, L.-S. Lu, H. A. Goubran, T. Burnouf  
Taipei Medical University, Taipei, Taiwan, Republic of China

**15:15 - 15:30**  
**4C-S23-05**  
PLATELET ADHESION AND AGGREGATION RECEPTORS ARE ALTERED BY THE COMBINED IMPACT OF UVC PATHOGEN INACTIVATION AND CRYOPRESERVATION  
L. Waters, M. Padula, D. Marks, L. Johnson  
Australian Red Cross Blood Service, Sydney, Australia, The University of Sydney, Sydney, Australia

**15:30 - 16:00**  
Coffee Break
**Tuesday, June 5**

**14:00 - 15:30**  
**Meeting Room 718B**

**Blood safety - Haemovigilance**  
*Moderators: N. Heddle (Canada) and N. Marwaha (India)*

<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters/Institutions</th>
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| 14:00 - 14:30 | INDIAN EXPERIENCE OF INTRODUCING A HAEMOVIGILANCE SCHEME                                         | A. Bisht  
National Institute of Biological Ministry of Health & Family Welfare, Noida, India |
| 14:30 - 14:45 | PUTATIVE ALLERGIES WITH METHYLENE BLUE TREATED PLASMA IN HAEMOVIGILANCE DATA: A REAPPRAISAL.      | P. Renaudier, A. Schumacher, N. Malvaux, A. Heinricy,  
M.-L. Van der Zwalmen, L. Scheer, F. Merny, J. Leveque, P. L. Courrier,  
J. C. Faber  
Blood Transfusion Center - Luxembourg Red Cross, Luxembourg |
| 14:45 - 15:00 | CLASSIFICATION OF TRANSFUSION REACTIONS USING DEFINITIONS FROM ISBT WP ON HAEMOVIGILANCE.        | O. Flesland, C. T. Steinsvåg, A. Espinosa  
Norwegian Directorate Of Health, Oslo, Norway |
| 15:00 - 15:15 | KOREAN HAEMOVIGILANCE SYSTEM – TEN YEARS OF OPERATION RESULTS                                    | J. Hyun, S. Choi, J. N. Kim, Y. J. Hong, H. Kim, T. S. Kim, J. S. Park,  
K. U. Park, K.-S. Han  
Hallym University College of Medicine, Hwaseong-si, Republic of Korea |
| 15:15 - 15:30 | THE FREQUENCY OF PATIENT REGISTRATION ERRORS AND THEIR IMPACT ON TRANSFUSION SAFETY              | S. Ning, M. Yan, J. Callum  
McMaster University, Hamilton, Canada |
| 15:30 - 16:00 | Coffee Break                                                                                      | |

**77**
Tuesday, June 5

14:00 - 15:30
Meeting Room 801

International Transfusion Practitioner (TP) survey and TP abstracts

Moderators: L. Mckenzie (Canada) and L. Bielby (Australia)

14:00 - 14:30
SURVEY OF ISBT MEMBER COUNTRIES TO ASSESS THE ADOPTION OF THE TRANSFUSION PRACTITIONER ROLE
A. S. Dhesi, R. Deelen, L. Bielby, R. Moss, C. O'Reilly
NHS Blood and Transplant, London, United Kingdom

14:30 - 14:45
THIS BLOOD THAT IS NOT MINE : MEANING AND PARADOXES OF BLOOD TRANSFUSION. AN ANTHROPOLOGICAL CLINICAL STUDY OF RECIPIENTS' FAMILY
L. Gomez Cardona, S. Fortin, M. Tucci, J. Lacroix
Université de Montréal, Montréal, Canada

14:45 - 15:00
RURAL AND REGIONAL BLOOD MANAGEMENT IN QUEENSLAND, AUSTRALIA: THE ROLE OF A TRANSFUSION NURSE
S. Kay
Darling Downs Hospital and Health Service, Toowoomba, Australia

15:00 - 15:15
PROVIDING A NEW TREATMENT OPTION FOR PATIENTS WHO NEED IMMUNOGLOBULIN THERAPY IN VICTORIA, AUSTRALIA
K. Bastin, L. Bielby, C. Akers, B. Glazebrook, J. van Diemen, J. Daly
Australian Red Cross Blood Service, Melbourne, Australia

15:15 - 15:30
INCLUSION OF FERRITIN LEVELS IN A DECISION SUPPORT FOR RED BLOOD CELL TRANSFUSION
C. Sanadi, A. Damani, S. Solomon, L. Bortignon, N. Shehata
Mount Sinai Hospital, Toronto, Canada

15:30 - 16:00
Coffee Break
## Tuesday, June 5

**14:00 - 15:30**

Meeting Room 802

### Working Party Session on Blood Supply Management

*Moderator: J. Ansah (Ghana)*

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<th>Title</th>
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<tr>
<td>14:00 - 14:30</td>
<td>EFFECTIVE COLD CHAIN MANAGEMENT</td>
<td>R. Tocchetti</td>
<td>SA Pathology, Adelaide, Australia</td>
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<td>14:30 - 15:00</td>
<td>OUTCOME OF SURVEY ON BLOOD PRODUCT WASTAGE IN DEVELOPING COUNTRIES</td>
<td>N. Beckman</td>
<td>Hemanext</td>
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<td>15:00 - 15:30</td>
<td>CHALLENGES TO EMERGENCY TRANSFUSION IN DEVELOPING/RESOURCE CONSTRAINED COUNTRIES</td>
<td>D. Kyeyune, H. Hume</td>
<td>Uganda Blood Transfusion Service, Kampala, Uganda</td>
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<td>15:30 - 16:00</td>
<td>Coffee Break</td>
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Tuesday, June 5

16:00 - 17:30
Plenary Room

Clinical - Hemoglobinopathies

Moderators: N. Robitaille (Canada) and C. Politis (Greece)

16:00 - 16:30
4D-S27-01
PREVENTION AND MANAGEMENT OF RED BLOOD CELL ALLOIMMUNIZATION IN THALASSEMAIA
A. A. Pourfathollah
Iranian Blood Transfusion Organization, Tehran, Iran

16:30 - 16:45
4D-S27-02
THE TRUE COST OF TRANSFUSION IN THALASSAEMIA STUDY (TRUSTT)
Monash University, Melbourne, Australia

16:45 - 17:00
4D-S27-03
RED CELL ALLOIMMUNIZATION IN EPISODIC AND CHRONICALLY TRANSFUSED THALASSEMAIA INTERMEDIA
M. Yan, H. Merkeley, C. Cserti-Gazdewich
University of Toronto, Toronto, Canada

17:00 - 17:15
4D-S27-04
IDENTIFICATION OF GENETIC BIOMARKERS FOR ALLOIMMUNIZATION IN SICKLE CELL DISEASE USING NEXT GENERATION SEQUENCING
Sanquin Research and Landsteiner Laboratory, Amsterdam, Netherlands

17:15 - 17:30
4D-S27-05
USE OF A CLOUD-BASED SEARCH ENGINE OF A CENTRALIZED DATABASE TO IDENTIFY HISTORICAL ANTIGEN-NEGATIVE UNITS IN HOSPITAL INVENTORIES
G. Denomme, S. Reinders, A. Treml, J. Gottschall, W. Anani
Versiti/BloodCenter of Wisconsin, Milwaukee, United States

17:45 - 18:45
Poster Session
Tuesday, June 5

16:00 - 17:30
Meeting Room 701

Donor safety

Moderators: H. Ullum (Denmark) and R. Skeate (Canada)

16:00 - 16:30
DONOR HEALTH: IMPROVING THE SAFETY AND EFFICIENCY OF BLOOD DONATION
E. Di Angelantonio
University of Cambridge, Cambridge, United Kingdom

16:30 - 16:45
GENERALIZED ALLERGIC REACTIONS IN BLOOD DONORS
M. Townsend, H. Kamel, M. Bravo
Blood Systems, Scottsdale, United States

16:45 - 17:00
PREDICTIVE VALUE OF FERRITIN AND ZINC PROTOPORPHYRIN FOR SUBSEQUENT LOW-HAEMOGLOBIN DEFERRAL
S. Zalpuri, T. Timmer, W. de Kort, M. Heymans, K. van den Hurk
Sanquin, Amsterdam, Netherlands

17:00 - 17:15
PROMOTING DONOR HEALTH AND STABLE COLLECTIONS: A PILOT FERRITIN TESTING PROGRAM IN MALE PLATELETPHERESIS DONORS
American Red Cross, Rockville, United States

17:15 - 17:30
PLASMA SUPPLY MANAGEMENT: SAFE AND SUSTAINABLE PLASMAPHERESIS
Uppsala University Hospital, Uppsala, Sweden

17:45 - 18:45
Poster Session
Tuesday, June 5

16:00 - 17:30
Room 706

Workshop Grant Writing

*Moderators: Dale Dempsey, Canadian Institutes of Health Research and Imelda Bates, Liverpool School of Tropical Medicine.*

During the workshop on grant writing, the moderators will explain what a successful proposal should look like and provide tips and techniques for the grant proposal process. The session will be interactive, giving the audience the possibility to ask questions and take part in the discussion.
Tuesday, June 5

16:00 - 17:30
Meeting Room 716

Accreditation, Standards and Good Practice - Improving Transfusion Services

Moderators: C. Seidl (Germany) and S. Darnel (Canada)

16:00 - 16:30
THE CHALLENGES OF IMPLEMENTING THE EUROPEAN GOOD PRACTICE GUIDELINES FOR BLOOD COMPONENTS IN THE BLOOD ESTABLISHMENTS OF SLOVENIA
P. Mali
Blood Transfusion Centre of Slovenia

16:30 - 17:00
THE AFRICA SOCIETY FOR BLOOD TRANSFUSION STEP-WISE ACCREDITATION PROGRAMME: ORGANIZATION, ACHIEVEMENTS AND CHALLENGES
C. Tayou, M. Farouk, L. Bust, D. Mvere
Africa Society for Blood Transfusion, Yaoundé, Cameroon

17:00 - 17:30
DEVELOPING COUNTRY AWARD “INITIATIVES FOR IMPROVING BLOOD TRANSFUSION SERVICES IN A REGIONAL PUBLIC TERTIARY HEALTHCARE INSTITUTION IN INDIA”.
PGIMER, Chandigarh, India

17:45 - 18:45
Poster Session
Tuesday, June 5

16:00 - 17:30
Meeting Room 718A

Adverse reactions -
Immunological crosstalk

Moderators: J. Semple (Sweden) and D. Arnold (Canada)

16:00 - 16:30
ITP, FROM PATHOPHYSIOLOGY TO TREATMENT
4D-S30-01
M. Michel
Henri Mondor university Hospital, Assistance Publique Hôpitaux de Paris, Paris, France

16:30 - 16:45
A POTENTIAL ROLE IN PLATELET DESTRUCTION IN AUTOIMMUNE
THROMBOCYTOPENIA: ANTIBODY MEDIATED GLYCAN MODIFICATION
ON PLATELETS AND MEGAKARYOCYTES
4D-S30-02
T. Bakchoul, I. Marini, R. Jouni, F. Rigoni, K. Sevke-Masour, U. Sachs
Center for Clinical Transfusion Medicine, Tübingen, Germany

16:45 - 17:00
HOW DO ANTI-ERYTHROCYTE ANTIBODIES AMELIORATE IMMUNE
THROMBOCYTOPENIA – EXAMINATION OF ANEMIA, PHAGOCYTOSIS
AND INFLAMMATORY ACTIVITY IN A MURINE MODEL
4D-S30-03
R. Khan, A. Lazarus
St. Michael’s Hospital, Toronto, Canada, University of Toronto, Toronto, Canada

17:00 - 17:15
CANDIDA ALBICANS DECREASES AUTOPHAGY OF HUMAN PLATELETS
4D-S30-04
Q. Chen, Z. Duan, M. Li
Jiangsu Province Blood Center, Nanjing, China

17:15 - 17:30
ERYTHROCYTE ANTIGEN LOSS DEFINES ANTIBODY-MEDIATED
IMMUNE SUPPRESSION: STUDIES WITH WILD-TYPE AND IGG FC
REGION DEGLYCOSYLATED ANTIBODIES IN MICE
4D-S30-05
Y. Cruz-Leal, D. Marjoram, A. H. Lazarus
St Michael’s Hospital, Toronto, Canada, Canadian Blood Services, Ottawa, Canada

17:45 - 18:45
Poster Session
Tuesday, June 5

16:00 - 17:30
Meeting Room 718B

Working Party Session on Rare donors/terminology/immunohaematology

Moderator: N. Thornton (United Kingdom)

16:00 - 16:05
INTRODUCTION
4D-S31-01
N. Thornton
International Blood Group Reference Laboratory, NHS Blood and Transplant, Bristol, United Kingdom

16:05 - 16:30
NAME THAT SPECIFICITY: INVESTIGATING AND IDENTIFYING COMPLEX AND EXOTIC RH VARIANTS
4D-S31-02
T. Peyrard
Laboratoire d’Excellence GR-Ex, Paris, France, UMR_S1134 Inserm Université Paris Diderot, Paris, France, Institut National de la Transfusion Sanguine, Paris, France

16:30 - 16:55
MAKING IT ALL HAPPEN FOR PATIENTS WITH RARE BLOOD
4D-S31-03
V. Yahalom
Magen David Adom – National Blood Services, Ramat Gan, Israel, Rabin Medical Center, Petah Tikva, Israel

16:55 - 17:20
CATALOGING BLOOD GROUP VARIATION WITH THE HELP OF NEW TOOLS
4D-S31-04
M.L. Olsson
Lund University, Lund, Sweden

17:20 - 17:30
Discussion

17:45 - 18:45
Poster Session
Tuesday, June 5

16:00 - 17:30
Meeting Room 801

Working Party Session on Cellular Therapies
Moderator: M. Koh (United Kingdom)

16:00 - 16:30
THE CURRENT STATUS OF HUMAN PLATELET LYSATES: PRODUCTION AND MANUFACTURE
4D-S32-01
T. Burnouf
Taipei Medical University, Taipei City, Taiwan, Republic of China

16:30 - 17:00
CLINICAL INDICATIONS, EFFICACY, AND QUALITY CONTROL OF AUTOLOGOUS PLATELET RICH PLASMA (PRP)
4D-S32-02
C. S. Cohn, M. Koh
University of Minnesota, Minneapolis, United States

17:00 - 17:30
NOVEL NEW PLATELET DERIVED PRODUCTS: SCIENCE, REGULATION AND THE EVOLVOING ROLE OF BLOOD BANKS
4D-S32-03
M. Koh
International Blood Group Reference Laboratory, NHS Blood and Transplant, Bristol, United Kingdom

17:45 - 18:45
Poster Session
Wednesday, June 6

08:30 - 10:00

Plenary Room

Immunobiology - Red blood cell antigens

Moderators: J. Storry (Sweden) and C. Gassner (Switzerland)

08:30 - 08:45

5A-S33-01

DISRUPTION OF A GATA-1 BINDING MOTIF 3.7 KB UPSTREAM OF THE XG/PBDX GENE ABOLISHES ERYTHROID XGA EXPRESSION AND ELUCIDATES THE LAST UNRESOLVED BLOOD GROUP SYSTEM

M. Möller, Y. Q. Lee, K. Vidovic, L. Björkman, J. R. Storry, M. L. Olsson
Lund University, Lund, Sweden

08:45 - 09:00

5A-S33-02

SEROLOGICAL AND MOLECULAR CHARACTERISATION OF A NOVEL HIGH FREQUENCY ANTIGEN IN THE YT BLOOD GROUP SYSTEM

NHS Blood and Transplant, Bristol, United Kingdom

09:00 - 09:15

5A-S33-03

GBGT1 IS ALLELICALLY DIVERSE BUT DISPENSABLE IN HUMANS AND NATURALLY-OCcurring ANTI-FORS1 SHOWS AN ABO-RESTRICTED PATTERN

A. Hult, E. McSherry, M. Möller, M. L. Olsson
Lund University, Lund, Sweden, LabMedicine, Region Skåne, Lund, Sweden

09:15 - 09:30

5A-S33-04

REGULATION OF ABO BLOOD GROUP ANTIGEN EXPRESSION BY MIRNA-331-3P AND MIR-1908-5P

R. Kronstein-Wiedemann, P. Bugert, T. Tonn
DRK-Blutspendedienst Nord-Ost, Dresden, Germany

09:30 - 09:45

5A-S33-05

LACK OF THE NUCLEOSIDE TRANSPORTER ENT1 IN INDIVIDUALS WITH THE RARE AUGUSTINE-NULL BLOOD GROUP IS ASSOCIATED WITH AN ABNORMAL ERYTHROPOIESIS AND MACROCYTOSIS

M. Mikdar, C. Le Van Kim, S. Kinet, N. Taylor, Y. Colin, S. Azouzi, T. Peyrard
Institut National de la Transfusion Sanguine, Paris, France, UMR_S1134
Inserm Université Paris Diderot, Paris, France, Laboratoire d’Excellence GR-Ex, Paris, France

09:45 - 10:00

5A-S33-06

CHARACTERIZATION OF A NOVEL HIGH-PREVALENCE RED BLOOD CELL ANTIGEN IN THE AUGUSTINE BLOOD GROUP SYSTEM

C. Vrignaud, M. Mikdar, A. Raneri, O. Hermine, Y. Colin, C. Le Van Kim, S. Azouzi, T. Peyrard
Institut National de la Transfusion Sanguine, Paris, France, UMR_S1134
Inserm Université Paris Diderot, Paris, France, Laboratoire d’Excellence GR-Ex, Paris, France

10:00 - 10:30

Coffee Break
Wednesday, June 6

08:30 - 10:00
Meeting Room 701
Blood products - red cells
Moderators: D. de Korte (Netherlands) and J. Acker (Canada)

08:30 - 09:00
AUTOMATED BLOOD PRODUCTS
5A-S34-01
J. Cid, M. Lozano
Hospital Clinic, Barcelona, Spain

09:00 - 09:15
PROCESSING METHODS AND QUALITY MARKERS IN THE PRODUCTION OF RED BLOOD CELL UNITS
5A-S34-02
A. W.-Y. Shih, N. Heddle, R. Barty, N. Li, J. Acker, Q. Mip, Investigators on behalf of BEST Collaborative
Vancouver Coastal Health Authority, Vancouver, Canada, University of British Columbia, Vancouver, Canada

09:15 - 09:30
APPLICATION OF IMAGE FLOW CYTOMETRY ON THE CHARACTERIZATION OF RED BLOOD CELL MORPHOLOGY: VALIDATION AGAINST THE CONVENTIONAL TECHNIQUE AND TRENDS OBSERVED DUE TO DONOR VARIABILITY
5A-S34-03
J. A. Sebastian, R. N. Pinto, T. Turner, M. J. Parsons, J. P. Acker, M. C. Kolios
Institute of Biomedical Engineering, Science, and Technology (iBEST), Toronto, Canada, Ryerson University, Toronto, Canada

09:30 - 09:45
SOLUBLE FACTORS IN PACKED RED BLOOD CELLS MODULATE INFLAMMASOMES: POTENTIAL MECHANISM ASSOCIATED WITH TRANSFUSION-RELATED IMMUNOMODULATION
5A-S34-04
M. M. Dean, K. M. Rooks, F. N. Chong, R. L. Flower
Queensland University of Technology, Brisbane, Australia, Australian Red Cross Blood Service, Kelvin Grove, Australia

09:45 - 10:00
TRANSFUSIONS OF PACKED RED BLOOD CELLS AT THE END OF SHELF LIFE ARE ASSOCIATED WITH INCREASED CIRCULATING MICROPARTICLES UNDER FLOW CONDITIONS
5A-S34-05
M. S. Y. S. Y. Ng, J. Y. Suen, K. Rooks, J.-P. Tung, J. Fraser
Australian Red Cross Blood Service, Brisbane, Australia, Faculty of Medicine, University of Queensland, Brisbane, Australia

10:00 - 10:30
Coffee Break
Wednesday, June 6

08:30 - 10:00
Meeting Room 716

Donors and Donation - Building a safe and sustainable donor base

Moderators: M. Smid (Netherlands) and S. Daigneault (Canada)

08:30 - 09:00
AN OVERVIEW OF DONOR BASE MODELS IN SUB-SAHARAN AFRICA: CHALLENGES AND SUCCESSES
5A-S35-01
I. Bates
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

09:00 - 09:30
BUILDING A BLOOD SYSTEM: THE VIEW FROM SAUDI ARABIA
5A-S35-02
M. Badawi
King Abdulaziz University, Jeddah, Saudi Arabia

09:30 - 09:45
FIRST TIME VOLUNTARY BLOOD DONORS RETURN RATE AND DETERMINANTS IN ETHIOPIAN NATIONAL BLOOD BANK SERVICE
5A-S35-03
D. F. Adamu, M. Addissie, W. Haileselassie
Ethiopian National Blood Bank Service, Addis Ababa, Ethiopia

09:45 - 10:00
VOLUNTARY BLOOD DONATION - THE CHALLENGES AND PRACTICES AND FEASIBILITY IN DEVELOPING COUNTRIES
5A-S35-04
J. D. Jeyakumar, C. Subash, R. Krishnamoorthy, P. Muddegowda
MIOT International Hospitals, Chennai, India

10:00 - 10:30
Coffee Break
Wednesday, June 6

08:30 - 10:00
Meeting Room 718A

Blood Safety - Viruses
Moderators: C. Erikstrup (Denmark) and M. Fearon (Canada)

08:30 - 09:00
SPLENIC MACROPHAGE SUBSETS AND THEIR FUNCTION DURING BLOOD-BORNE INFECTIONS
University of São Paulo, Sao Paulo, Brazil

09:00 - 09:15
HBV INFECTION RATES IN SOUTH AFRICAN NATIONAL BLOOD SERVICE (SANBS) DONORS BORN BEFORE AND AFTER THE IMPLEMENTATION OF UNIVERSAL HBV VACCINATION
W. A. Sykes, M. Vermeulen, C. Coleman, K. van den Berg
SANBS, Durban, South Africa

09:15 - 09:30
FIRST CASE OF HIV-NAT NEGATIVE DONATION COLLECTED DURING ECLIPSE PHASE SINCE IMPLEMENTATION OF HIGHLY SENSITIVE INDIVIDUAL NAT IN FRANCE
P. Cappy, V. Barlet, Q. Lucas, X. Tinard, J. Pillonel, S. Gross, S. Laperche
INTS, Paris, France

09:45 - 10:00
IMPLEMENTATION OF HEPATITIS E VIRUS RNA TESTING IN BLOOD DONORS IN ENGLAND – MOVING FROM PARTIAL TO UNIVERSAL SCREENING
J. Ushiro-Lumb, K. Tettmar, B. Haywood, S. Ijaz, R. Tedder

10:00 - 10:30
Coffee Break
Wednesday, June 6

08:30 - 10:00
Meeting Room 718B

Clinical - Transfusion in haemato-oncology

Moderators: K. Pavenski (Canada) and S. Stanworth (United Kingdom)

08:30 - 09:00

LOWERING TRANSFUSION THRESHOLDS IN HAEMATOPOETIC STEM CELL TRANSPLANTATION

A. Tinmouth
Ottawa Hospital Research Institute, Ottawa, Canada

09:00 - 09:15

EFFICACY AND AVAILABILITY OF HLA-MATCHED PLATELET TRANSFUSIONS FOR PLATELET REFRACTORY PATIENTS IN THE NETHERLANDS

A. Kreuger, A. Mäkelburg, J. Somers, B. Tomson, L. van de Watering, J. van der Bom, M. van Kraaij, C. Weller
Sanquin Blood Bank, Amsterdam, Netherlands

09:15 - 09:30

EFFECT OF STORAGE AND PATHOGEN REDUCTION ON ALLOIMMUNIZATION AFTER PLATELET TRANSFUSIONS

A. Saris, J. L. Kerkhoffs, P. Norris, I. Peyron, T. B. Stuge, S. M. van Ham, P. F. van der Meer, J. J. Zwaginga, A. ten Brinke
Sanquin, Amsterdam, Netherlands

09:30 - 09:45

COMPARISON OF CORRECTED COUNT INCREMENT (CCI) AND ABSOLUTE PLATELET COUNT INCREMENT (API) IN ABO-COMPATIBLE VERSUS ABO-INCOMPATIBLE PLATELET TRANSFUSIONS IN NON-CANCER RECIPIENTS

R. Chandrabhan Dara, R. Sharma, H. Bhardwaj, V. Tak
Manipal Hospitals Jaipur, Jaipur, India

09:45 - 10:00

ESTABLISHMENT AND VALIDATION OF A LABORATORY ASSAY FOR MONITORING SURVIVAL OF TRANSFUSED PLATELETS: TRACKING HLA MISMATCH BETWEEN DONOR AND RECIPIENT.

M. Kjær, E. Fleck, J. Kjeldsen-Kragh, A. Vetlesen, C. Geisen
Funded by EU’s Seventh Framework Programme for Research (FP7)
University Hospital North Norway, Tromsø, Norway, Prophylix Pharma AS, Tromsø, Norway

10:00 - 10:30

Coffee Break
Wednesday, June 6

08:30 - 10:00
Meeting Room 80

Working Party Session on Clinical Transfusion - paediatric sub group

*Moderator: C. So-Osman (Netherlands)*

08:30 - 09:00
To be announced

09:00 - 09:30
**EPIDEMIOLOGY, PRACTICE PATTERNS AND OUTCOMES FOR CHILDREN TRANSFUSED FOR LIFE THREATENING HAEMORRHAGE**

5A-S38-02
P. Spinella
Washington University School of Medicine St. Louis, Pediatric Critical Care, United States

09:30 - 10:00
**WHAT HAVE WE LEARNED FROM NEONATAL AND PAEDIATRIC HAEMOVIGILANCE?**

5A-S38-03
H. New
Imperial College, London, United Kingdom, NHS Blood and Transplant, London, United Kingdom

10:00 - 10:30  Coffee Break
Wednesday, June 6

10:30 - 12:00
Plenary Room

Plenary Session: Platelets
Moderators: E. Wood (Australia) and J. Freedman (Canada)

10:30 - 11:00
IN VITRO PRODUCTION OF PLATELETS
PL4-01
B. Dykstra, J. Valdez, C. Peters, L. Beaulieu, J. Thon
Platelet BioGenesis, Cambridge, United States

11:00 - 11:30
NOVEL ROLES FOR PLATELETS IN HEALTH AND DISEASE
PL4-02
M. T. Rondina
University Of Utah, Salt Lake City, United States

11:30 - 12:00
PREVENTION OF HLA ALLOIMMUNE PLATELET REFRACTORINESS
PL4-03
K. Pavenski
St. Michael’s Hospital and University of Toronto, Toronto, Canada

12:00 - 13:30
Lunch
Wednesday, June 6

13:30 - 15:00
Plenary Room

Blood products - The relationship between donor characteristics and transfusion outcome

*Moderators: D. Devine (Canada) and M. van Kraaij (Netherlands)*

13:30 - 14:00
**5C-S39-01**
EFFECT OF BLOOD DONOR SEX AND PARITY ON THE OUTCOME OF TRANSFUSED PATIENTS – THE SCANDAT EXPERIENCE
G. Edgren, H. Hjalgrim
Södersjukhuset, Stockholm, Sweden, Karolinska Institutet, Stockholm, Sweden

14:00 - 14:30
**5C-S39-02**
THE EFFECT OF SEX OF THE DONOR ON THE SURVIVAL OF TRANSFUSION RECIPIENTS
R. A. Middelburg
Leiden University Medical Center, Leiden, Netherlands, Sanquin Research, Leiden, Netherlands

14:30 - 14:45
**5C-S39-03**
UNTARGETED METABOLOMICS ANALYSES OF REDS-III RECALLED DONORS IDENTIFY METABOLIC MARKERS OF OSMOTIC AND OXIDATIVE HEMOLYSIS BASED ON DONOR GENDER, AGE, ETHNICITY AND STORAGE ADDITIVES
University of Colorado Denver, Aurora, United States

14:45 - 15:00
**5C-S39-04**
THE ASSOCIATION BETWEEN DONOR SEX AND AGE AND MORTALITY IN BLOOD TRANSFUSION RECIPIENTS: AN EXPLORATORY ANALYSIS
N. M. Heddle, R. Cook, Y. Liu, M. Zeller, R. Barty, J. Acker, J. Eikelboom, D. Arnold
McMaster University, Hamilton, Canada
Wednesday, June 6

13:30 - 15:00
Meeting Room 701

Management and organization - Clinical Audit and education

Moderators: M. Yan (Canada) and K. Land (United States)

13:30 - 14:00
5C-S40-01
ENHANCED EFFICACY OF AUDIT AND FEEDBACK TO IMPROVE TRANSFUSION PRACTICE: DESIGNING AND TESTING NOVEL FEEDBACK INTERVENTIONS IN A NATIONAL CLUSTER RANDOMISED TRIAL
S. J. Stanworth, F. Lorencatto, NHSBT/OUH, Oxford, United Kingdom

14:00 - 14:15
5C-S40-02
IMPROVING BLOOD COMPONENT ORDERING PRACTICES IN A DEVELOPING COUNTRY BY INTRODUCING COMPUTER PHYSICIAN ORDER ENTRY [CPOE] SYSTEM
F. Karim, Aga Khan University Hospital, Karachi, Pakistan

14:15 - 14:30
5C-S40-03
TRANSFUSION CAMP: A PROSPECTIVE EVALUATION OF A TRANSFUSION MEDICINE EDUCATION FIVE-DAY PROGRAM ON MULTI-SPECIALTY POSTGRADUATE TRAINEE ATTITUDES, KNOWLEDGE AND SELF-REPORTED BEHAVIOUR
University of Toronto, Toronto, Canada, Sunnybrook Health Sciences Centre, Toronto, Canada

14:30 - 14:45
5C-S40-04
TAILOR-MADE TRANSFUSION EDUCATION FOR AUSTRALIAN JUNIOR DOCTORS
C. Flores, B. Quested, T. Spigiel, A. Thomson, J. Little, B. Saxon
Australian Red Cross Blood Service, Melbourne, Australia

14:45 - 15:00
5C-S40-05
THE EXPERIENCE OF THE INTERNATIONAL COLLABORATION FOR TRANSFUSION MEDICINE GUIDELINES (ICTMG) IN GUIDELINE DISSEMINATION
on behalf of the International Collaboration for Transfusion Medicine Guidelines (ICTMG)
Institute of Health Policy Management and Evaluation, Mount Sinai Hospital, and Canadian Blood Services, Toronto, Canada

15:00 - 15:30
Coffee Break
Wednesday, June 6

13:30 - 15:00
Meeting Room 716

Donors - Donor recruitment and retention

Moderator: P. van den Berg (Netherlands)

13:30 - 14:00
STRATEGIES TO PROMOTE REPEAT DONATION IN FIRST-TIME BLOOD DONORS IN GHANA
L. Asamoah-Akuoko, H. Ullum, O. Hassall, I. Bates
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

14:00 - 14:15
RECEIVING A TEMPORARY DEFERRAL: DO DONORS’ KNOWLEDGE AND EMOTIONAL REACTIONS IMPACT ON THEIR INTENTION TO RE-DONATE?
N. Van Dyke, C. Gemelli, A. Thijsen, T. Davison
Australian Red Cross Blood Service, Melbourne, Australia

14:15 - 14:30
MOBILE BLOOD COLLECTION AND ITS ROLE IN INCREASING VOLUNTARY UNPAID BLOOD COLLECTIONS: AN 8-YEAR GHANA EXPERIENCE
E. N. Dei, L. Asamoah-Akuoko, J. Ansah
National Blood Service Ghana, Accra, Ghana

14:30 - 14:45
BLOOD DONATION WILLINGNESS, MOTIVATORS AND BARRIERS IN BLOOD DONORS AND THE GENERAL POPULATION IN SURINAME
E. M. Huis In ’T Veld, M. Adhin, G. Jalink, E.-J. Burleson, M. Smid
Sanquin Blood Supply, Amsterdam, Netherlands

14:45 - 15:00
SOCIAL MEDIA AND BLOOD DONOR BEHAVIOR: NEW WAYS OF RESEARCH AND COMMUNICATION
E.-M. Merz, P. Kerkhof
Vrije Universiteit, Amsterdam, Netherlands, Sanquin Blood Supply, Amsterdam, Netherlands

15:00 - 15:30
Coffee Break
Wednesday, June 6

13:30 - 15:00
Meeting Room 718A

Clinical - Problems in transfusion medicine

*Moderator: J. Pendergrast (Canada)*

13:30 - 14:00
THE SIGNIFICANCE OF ALTERED IGG GLYCOSYLATION IN TRANSFUSION MEDICINE

G. Vidarsson
Sanquin Research, Amsterdam, Netherlands

14:00 - 14:30
TRANSFUSION-ASSOCIATED CIRCULATORY OVERLOAD (TACO): TIME TO SHED LIGHT ON THE PATHOPHYSIOLOGY

R. Kapur
Lund University, Lund, Sweden

14:30 - 14:45
ASSOCIATION AND TIMING OF DEATH IN REACTIONS CLASSIFIED AS TRANSFUSION ASSOCIATED CIRCULATORY OVERLOAD

University Health Network/University of Toronto, Toronto, Canada

14:45 - 15:00
THE PRO-INFLAMMATORY AND PRO-COAGULANT MICROPARTICLES FROM STORED RED BLOOD CELL CONCENTRATES ARE IMPLICATED IN ONSET OF TRANSFUSION RELATIVE LUNG INJURY (TRALI)

R. Xie, J. Yang, Y. Yang, L. Gao, Y. Zhu, K. Qian
Shanghai Blood Center, Shanghai, China

15:00 - 15:30
Coffee Break
Wednesday, June 6

13:30 - 15:00
Meeting Room 718B

Blood safety - Emerging infectious diseases

Moderators: J. Levi (Brazil) and M. Fearon (Canada)

13:30 - 14:00
EMERGING INFECTIOUS DISEASES
5C-S43-01
C. Erikstrup, H. Ullum
Aarhus University Hospital, Aarhus, Denmark

14:00 - 14:15
COST-EFFECTIVENESS OF SCREENING THE BLOOD SUPPLY FOR ZIKA VIRUS IN PUERTO RICO AND THE FIFTY US STATES
5C-S43-02
W. A. Russell, S. L. Stramer, B. Custer
Stanford University, Palo Alto, United States

14:15 - 14:30
CHARACTERIZATION OF EVOLVING VIRAL AND SEROLOGICAL STAGES OF ZIKV RNA POSITIVE BLOOD DONORS AND ESTIMATION OF POPULATION INCIDENCE OF INFECTIONS DURING THE PUERTO RICO ZIKA EPIDEMIC, 2016
5C-S43-03
Creative Testing Solutions, Tempe, United States

14:30 - 14:45
ZIKA RNA AND ANTIBODY PERSISTENCE IN BLOOD AND BODY FLUIDS AND CLINICAL OUTCOMES IN INFECTED BLOOD DONORS
5C-S43-04
for the NHLBI Recipient Epidemiology and Donor Evaluation Study-III (REDS-III)
Blood Systems Research Institute, San Francisco, United States

14:45 - 15:00
TRANSFUSION-TRANSMISSION OF ZIKA VIRUS IN NON-HUMAN PRIMATE AND MOUSE MODELS
5C-S43-05
G. Simmons, K. Van Rompay, L. Coffey, K. Lu, J. Yee, S. Bakkour, M. Stone, P. Williamson, M. Muench, M. Busch
Blood Systems Research Institute, San Francisco, United States

15:00 - 15:30
Coffee Break
Wednesday, June 6

**13:30 - 15:00**  
Meeting Room 801

**Working Party Session on Platelet Immunobiology**  
*Moderator: U.J. Sachs (Germany)*

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<td>13:30 - 13:55</td>
<td>NEW DISCOVERIES IN IMMUNE-MEDIATED THROMBOCYTOPENIAS: IMPLICATIONS FOR DIAGNOSIS AND THERAPY</td>
<td>H. Ni</td>
<td>Canadian Blood Services, Toronto, Canada, St. Michael’s Hospital, Toronto, Canada</td>
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<td>13:55 - 14:20</td>
<td>PLATELET SEROLOGY FOR ALLO AND AUTOANTIBODIES: PIVOTAL OR JUST NICE TO HAVE?</td>
<td>U. J. Sachs</td>
<td>Justus Liebig University, Giessen, Germany</td>
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<td>14:20 - 14:35</td>
<td>REPORT ON THE 19TH INTERNATIONAL SOCIETY OF BLOOD TRANSFUSION PLATELET IMMUNOLOGY WORKSHOP.</td>
<td>L. Richard, L. Beaudin, L. Meilleur, S. Al Khan, G. Clarke, A. Lewin, M. St-Louis</td>
<td>Hema-Quebec, Saint-Laurent, Canada</td>
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<td>14:35 - 15:00</td>
<td>GENERATION OF HPA-MATCHED PLATELET PRECURSORS FROM HUMAN IPS CELLS USING CRISPR-MEDIATED GENOME ENGINEERING</td>
<td>P. J. Newman</td>
<td>Blood Research Institute, BloodCenter of Wisconsin, Milwaukee, United States</td>
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<td>Coffee Break</td>
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Wednesday, June 6

**15:30 - 17:30**
**Plenary Room**

**Plenary Session: Transfusion Medicine past, present and future**

*Joint ISBT/AABB session*

*Moderators: M.L. Olsson (Sweden) and M.B. Basset (United States)*

**15:30 - 16:00**
**TRANSFUSION MEDICINE - AN EPIC HISTORY**

**PL5-01**

D. Starr  
Boston University College of Communication, Boston, United States

**16:00 - 16:30**
**ROOM TO BREATHE: GLOBAL WELLNESS IN THE 21ST CENTURY**

**PL5-02**

W. Dzik  
Massachusetts General Hospital, Boston, United States

**16.30 - 17.00**
**CAN WE BUILD CELLS FROM THE BOTTOM-UP**

**PL5-03**

P. Schwille  
Max Planck Institute of Biochemistry, Planegg, Germany

**17:00 - 17:15**
**Closing Ceremony**

**19:00 - 23:00**
**Congress Party (Rebel, Polson Pier) See page 119**

Tickets available at the Registration Services desk (€50)
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1. Help others and let them help you in return

2. Learn from experiences shared by others

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Posters

Poster Area
All accepted posters (publication and display) will be presented in Hall D on Level 800, next to the exhibition area. A list of the posters on display can be found on the next page, in the congress Abstract book and via the Mobile Application. The posters are set out according to the topic and 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 3,5 days.

Poster Mounting
Posters can be mounted as of Saturday, June 2 at 08:00 hours.
• 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 2   08:00 - 17:00 hours
Sunday        June 3   08:00 - 21:00 hours
Monday        June 4   08:00 - 17:00 hours
Tuesday       June 5   08:00 - 18:45 hours
Wednesday     June 6   08:00 - 16:30 hours

Poster Session
The Poster Session will be organised on Tuesday June 5, from 17:45 - 18:45 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
Material should be taken before Wednesday, June 6 at 16:30 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 P-001 - P-008
   1.2 Information technology P-009 - P-016
   1.3 Cost/effectiveness P-017 - P-026
   1.4 Training and education P-027 - P-032
   1.5 Risk models, standards and regulation P-033 - P-038
   1.6 Blood supply management and utilization P-039 - P-085
   1.7 Quality management P-086 - P-105

2. **Blood donation**
   2.1 Blood donor recruitment P-106 - P-177
   2.2 Blood collection incl. apheresis P-178 - P-195
   2.3 Donor adverse events P-196 - P-224

3. **Blood products**
   3.1 Blood processing, storage and release P-225 - P-243
   3.2 Blood components P-244 - P-279
   3.3 Plasma products P-280 - P-297
   3.4 Pathogen inactivation P-298 - P-330
   3.5 Novel blood products P-331 - P-348

4. **Transfusion transmitted infections**
   4.1 Screening strategies for TTI P-349 - P-390
   4.2 Hepatitis B (HBV) P-391 - P-404
   4.3 Hepatitis C (HCV) P-405 - P-413
   4.4 HIV P-414 - P-420
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   6.1 Neonatal and pediatric transfusion P-656 - P-673
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   6.4 Haemorrhage and massive transfusion P-739 - P-754
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   6.6 Haemovigilance and transfusion safety P-768 - P-785
   6.7 Alternatives to blood transfusion P-786 - P-790
   6.8 Transfusion practitioner related clinical practice improvement P-791 - P-817

7. Cellular therapies
   7.1 Stem cell and tissue banking, incl. Cord blood P-818 - P-827
   7.2 Collection, processing, storage and release P-828 - P-841
   7.3 Clinical applications P-842 - P-857

8: Clinical immunogenetics
   8:1 HLA in transfusion medicine P-858 - P-866
   8:2 Histocompatibility in stem cell transplantation P-867 - P-868
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General Information

Climate
In Toronto, the month of June is characterized by rising daily high temperatures, with daily highs increasing from 20ºC to 24ºC over the course of the month. Temperature is rarely exceeding 29ºC or dropping below 15ºC.

Currency
The currency is the Canadian Dollar (CAD). 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 electrical supply is 120 Volts and 60 Hertz (cycles per second). Canada's electrical supply and electrical outlets are the same as those found in the United States.

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

Safety
Generally, Toronto is a safe city. In case of urgent matters you can call 911 for ambulance service, fire stations, and police.

Shopping
Toronto has emerged as a major style destination. Stores abound with luxury designer items, unique vintage finds and top home décor, and high fashion can be found around every corner.

Smoking
Smoking is not allowed in public indoor areas.
**Sustainability**

ISBT is BullFrogPowered with 100% green electricity
This means that Bullfrog Power's generators put 100% green power into the grid to match the amount of conventional electricity the event uses, displacing energy from polluting sources. Across Canada, Bullfrog's green electricity comes from a blend of wind and low-impact hydro power sourced from new Canadian renewable energy facilities.

For more information on Bullfrog's green energy, visit [www.bullfrogpower.com](http://www.bullfrogpower.com)

During the congress and the Congress Party, compostable plates and cutlery will be used. The caterer for the Congress Party is a member of Ocean Wise. They use biodegradable disposables, recycle and compost over 95% of waste, and promote the use of locally sourced, seasonal products.

**Visa**

Most people need a visa or an Electronic Travel Authorization to travel to Canada. Some people may only need their valid passport. To find out if you need a visa, click here.

**Water**

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

**Tipping**

Tipping comes as second nature to most folks in Toronto. That famous Canadian politeness means courtesy often seems to come naturally when the tab closes or the bill comes around. In restaurants, it is customary to tip approximately 15-20% on the total bill before tax. For other service providers such as hairdressers and taxi drivers the percentage of tip is up to the individual, but 10% minimum is common.

**Tourism**

The Distillery District neighborhood is a national historic site and walking District. A favorite destination in Toronto for locals and tourists, famous for its unique restaurants, shopping boutiques, artisan studios, arts, culture and entertainment.
Sunday, June 3

17:30 - 18:30 hours

Plenary Room

Opening Ceremony

All delegates and Exhibitors are welcome to attend.

17:30 - 17:40 Welcome address by Ravi Reddy, ISBT President
17:40 - 17:50 Welcome address by Gilles Delage, Congress President
17:50 - 18:00 Presentation of ISBT Awards and Prizes
   1) ISBT Award for Developing Countries
      Department of Transfusion Medicine, Postgraduate Institute of Medical
      Education & Research, Chandigarh, India
   2) ISBT Award
      Peter Flanagan
      Pierre Robillard
      Diana Teo
   3) Vox Sanguinis Best Paper Prize
      P.A. Steininger and co authors
18:00 - 18:05 Presentation of the Talking Stick by the ISBT President to the Congress President
18:05 - 18:25 Entertainment
   A cultural mixing pot, Toronto is an iconic destination for lifestyle, tradition, culture and festivals. Celebrate Toronto’s ethnic diversity, all wrapped up by an urban spoken-work artist who’s written something special for ISBT 2018!
18:30 All delegates and Exhibitors are invited to proceed to the Welcome Reception in the Exhibition area
Sunday, June 3

18:30 - 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.
ISBT Run

Monday, June 4

06:30 - 07:30
MTCC, South building entrance

All delegates are invited to join us for the ISBT Run, departing from and returning to the congress venue (MTCC, South building entrance). In case you have not pre-registered to participate in the ISBT Run, please come see us at the Service desk in the registration area and receive your running shirt!
Congress Party

Wednesday, June 6

19:00 - 23:00
Rebel, Polson Pier

Price: € 50 per person

Just a few short minutes out of the downtown core, Rebel is an entertainment space "bringing new life to nightlife". It is not only home to many of the famous celebrities who tour through Toronto, but also to the ISBT closing party! This event is located across the water from the convention centre and offers indoor space with a wow factor and outdoor space with iconic views of Lake Ontario and the Toronto skyline.

Three things make this celebration exciting and memorable: a menu that focuses on the diverse flavours found around Toronto’s neighbourhoods, a live band that takes requests from the dance floor, and a stunning view overlooking Lake Ontario, and the colourfully lit Toronto skyline.

Come together to celebrate, network, and share some good times with your fellow ISBT members as we all bid farewell to Toronto!

Busses will depart at 18:30 from MTCC, South building entrance
Busses will return to MTCC as of 21:30

Tickets can be purchased for €50 at the Service desk in the registration area.
Notes
Exhibition Booklet
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.

**UNLOCK NEW POTENTIAL WITH A PURPOSE BUILT SOLUTION FOR BLOOD AND PLASMA SCREENING**

**EXPERIENCE PERSONALIZED SOLUTIONS AT THE ABBOTT BOOTH, STAND 609**

Alinity s is CE marked and available in select markets. Alinity s is not authorized for sale in Canada. Alinity s is not cleared for use in the US. For in vitro diagnostic use only.
ISBT thanks everyone joining the exhibition, held in association with the 35th International Congress of the ISBT in Toronto, Canada. The exhibition allows you to visit different companies to discuss products and help you with business decisions, which enhances the congress experience. In the exhibition area, you will find more than 75 of the major international companies involved with transfusion technology. The booths give the companies the opportunity to showcase their products and services. It provides you, the delegate, the chance to meet the representatives of the companies face-to-face, who can share knowledge of their products and technologies with you, providing you with more insights to make informed business decisions. Additionally, the exhibition is the perfect location to network with colleagues from around the world over coffee, tea or lunch breaks, as all refreshments will be served in the exhibition hall.

**ISBT Booth**

The ISBT booth is located in the centre of the exhibition area, in the middle of the charge- and recharge area, with booth number 1019. Here you can meet the staff, discover more about the Society, become a member and find out more about ISBT Education, formerly the Academy e-Portal.

At the booth, more information will be available about the upcoming congresses in 2019, the **29th Regional Congress of the ISBT in Basel**, Switzerland, and the **30th Regional Congress of the ISBT in Bangkok**, Thailand!
The ISBT and the Local Organising Committee of the 35th International Congress of the ISBT are grateful that the following companies are willing to support the congress:

Abbott
Actemium NDT-P&S
Angelantoni
Asahi Kasei
Ashland LLC
Australian Red Cross Blood Service
B Medical Systems
Barkey GmbH & Co. KG
Best Theratronics Ltd.
Biolog-ID
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Bio-Rad Laboratories, Inc.
BloodHub
Canadian Blood Services
Canadian Society For Transfusion Medicine (CSTM)
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CLST Austria GmbH
Conroy Medical AB
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IPFA, International Plasma and Fractionation Association
ITL BioMedical
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Kawasumi Laboratories, Inc.
KW Apparechi Scientifici SRL
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Ontario Regional Blood Coordinating Network (ORBCoN)
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OrSense Ltd.
Ortho Clinical Diagnostics
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PuriBlood - Power Membrane Co., Ltd.
Quotient
Rad Source Technologies, Inc.
RadTag Technologies Inc.
Rees Scientific
Roche
Safetran
Sato Vicinity Pty Ltd
Shire Pharma Canada
Sichuan Nigale Biotechnology Co., Ltd.
Sigma Laborzentrifugen GmbH
STRATEC Biomedical
Suzhou Bacme Biotech CO., Ltd.
Technoflex
TerumoBCT
Thermo Fisher Scientific
Toutenkamion
Seeing beyond limits
Brilliant performance, clear results.

Visit us to learn more about our Echo Lumena™ and NEO Iris™.
Join us for complimentary cocktails and meet our team of experts during the ISBT Welcome Reception on June 3rd from 6:30 p.m. to 9 p.m.

Immucor Lunch Symposium | Monday, June 4th - Room 716

Transfusion and transplantation patient safety: laboratory challenges and solutions

ANTIBODY SCREENING OPTIONS FOR PATIENTS RECEIVING MONOCLONAL ANTIBODY THERAPY WITHIN A HOSPITAL TRANSFUSION LABORATORY
Miss Julie Staves - BSc (Hons), FIBMS
Oxford University Hospitals NHS Trust.

MULTI-CENTER AND MULTI-PLATFORM COMPARISON STUDY ON ABO ANTIBODY TITRATION
Dr. Serelina Coluzzi - PhD
Azienda Ospedaliero - Universitaria policlinico Umberto I.

*Echo Lumena and NEO Iris are not available for sale in all markets.
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SATELLITE SYMPOSIUM

RESPONDING to the CHALLENGES of RESOURCE CONSTRAINTS in TRANSFUSION DIAGNOSTICS

Speakers will address what healthcare organizations can learn from manufacturing industries, identifying the challenges facing transfusion medicine, now and in the future.

Topics will include: Anticipated demographic/testing needs, limitations of current practices/processes and potential changes in practice.

Speakers will share examples of how they have implemented workflow initiatives to improve efficiency and quality outcomes.

Monday, June 4 • 12:00 –1:30pm • Room 718A

What do cars have to do with healthcare?
How to adopt and adapt lessons from manufacturing
MARK GRABAN
Author, Speaker and Coach, in Manufacturing and Healthcare

Upcoming demographic and testing challenges in the next five years
MATTHEW DAWSON
Senior Product Manager, Transfusion Medicine, Ortho Clinical Diagnostics

How a modification of workflow has impacted a dynamic hospital laboratory in today’s changing environment
AARON HURST
Laboratory Supervisor Quality Systems, Newton Medical Center, Kansas

What can a workflow improvement do for you?
See the UK NHSBT journey to date…
TONI JACOBS
Business partner for Continuous Improvement, UK NHS Blood and Transplant

PLEASE VISIT QUOTIENT AT ISBT BOOTH #604
Monday, June 4

12:00 - 13:30
Room 716

Immucor

Transfusion and transplantation patient safety: laboratory challenges and solutions

12:00 - 12:15
ENTRANCE & WELCOME

12:15 - 12:30
INTRODUCTION
By: Mrs. Alice Alexandre, Senior Director, International Marketing Immucor

12:30 - 12:50
ANTIBODY SCREENING OPTIONS FOR PATIENTS RECEIVING MONOCLONAL ANTIBODY THERAPY POSSIBLE WITHIN A HOSPITAL TRANSFUSION LABORATORY
By: Miss Julie Staves, BSc (Hons), FIBMS – Oxford University Hospitals NHS Trust

12:50 - 13:00
Q&A

13:00 - 13:20
MULTI-CENTERS AND MULTI-PLATFORMS COMPARISON STUDY ON ABO ANTIBODY TITRATION
By: Dr. Serelina Coluzzi, MD – Azienda Ospedaliero-Universitàsario policnico Umbertol – Sapienza, Roma

13:20 - 13:30
Q&A
**Monday, June 4**

**12:00 - 13:30**  
*Room 718A*

**Quotient**

### Responding to the challenges of resource constraints in transfusion diagnostics

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>12:10</td>
<td>WHAT DO CARS HAVE TO DO WITH HEALTHCARE? - HOW TO ADOPT AND ADAPT LESSONS FROM MANUFACTURING.</td>
<td>Mark Graban</td>
</tr>
<tr>
<td>12:25</td>
<td>UPCOMING DEMOGRAPHIC AND TESTING CHALLENGES IN THE NEXT 5 YEARS.</td>
<td>Matt Dawson</td>
</tr>
<tr>
<td>12:35</td>
<td>HOW A MODIFICATION OF WORKFLOW APPROACH HAS IMPACTED A DYNAMIC HOSPITAL LABORATORY IN TODAY’S CHANGING ENVIRONMENT.</td>
<td>Aaron Hurst</td>
</tr>
<tr>
<td>12:50</td>
<td>WHAT CAN A WORKFLOW IMPROVEMENT DO FOR YOU? – See the NHS BT Journey to date…</td>
<td>Toni Jacobs</td>
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</tbody>
</table>
Monday, June 4

12:00 - 13:30
Room 718B

Abbott

Achieving Measurably Better Healthcare Performance with the New Alinity s Solution

Chair: Christian Fischer, M.D, Senior Medical Director (Abbott)

ENABLING HEALTHIER BLOOD AND PLASMA SERVICE WITH ALINITY S INNOVATIONS (30MN)
ALINITY S ASSAYS ROBUSTNESS TO BIOTIN INTERFERENCE
By: Guillermo Orjuela, Scientific Affairs (Abbott)

ENHANCING THE SCREENING LABORATORY WITH CGMP AND PIONEERING ENGINEERING
By: Brad Weston, Director R&D (Abbott)

IMPLEMENTING ALINITY S IN A HIGHLY DEMANDING SCREENING LABORATORY (30MN)
By: Anton van Weert, Ph.D., (Sanquin Netherlands)
Tuesday, June 5

12:00 - 13:30
Room 716

Roche

Experience the future: Innovations in efficiency and preparedness

12:15 - 12:20
WELCOME AND INTRODUCTION
Graham Sher, MD
Canadian Blood Services

12:20 - 12:40
THE LABORATORY OF THE FUTURE
Michael Schmidt, MD
German Red Cross
Institute of Transfusion Medicine and Immunohematology, Frankfurt

12:40 - 13:00
To be announced

13:00 - 13:20
ASSAY DEVELOPMENT: PREPARING FOR THE NEXT TRANSFUSION-TRANSMITTED INFECTIOUS DISEASE
Marc Lütgehetmann, University Hamburg - Eppendorf
Center for Diagnostics, Institute of Medical Microbiology, Virology and Hygiene

13:20 - 13:30
Panel Q&A
Tuesday, June 5

12:00 - 13:30
Room 718A

Cerus

Pathogen Inactivation Around the World – Setting the Standard for Blood Safety

INTRODUCTION
By: Dr. Larry Corash MD, Chief Scientific Officer, Cerus

EUROPE: NATION-WIDE IMPLEMENTATION AND OVER SEVEN YEARS OF EXPERIENCE WITH INTERCEPT PLATELETS IN SWITZERLAND
By: Dr. Behrouz Mansouri Taleghani PD Dr. med. Leitender Arzt, Bereichsleiter Transfusionsmedizin und Therapeutische Hämapherese, Vorsitzender Transfusionskommission Insel Gruppe

INSELSPITAL, Universitätsspital Bern, Universitätsklinik für Hämatologie und Hämatologisches, Zentrallabor, Bereich Transfusionsmedizin

LATIN AMERICA: ENSURING BLOOD AVAILABILITY AND PROTECTING PATIENTS FROM ARBOVIRUSES IN BRAZIL
By: Dr. Sylvano Wendel, MD, PhD, Medical Director - Blood Bank, Hospital Sirio Libanês

NORTH AMERICA: A US HOSPITALS’ PERSPECTIVE ON THE ROUTINE USE OF AND CLINICAL IMPACT WITH PATHOGEN INACTIVATION
By: Mary P. Berg, M.D.
Medical Director, Transfusion Services
Associate Professor of Pathology
University of Colorado Anschutz Medical Campus, Department of Pathology
Tuesday, June 5

12:00 - 13:30
Room 718B

Macopharma

Theraflex UV-Platelets: “A Clinical Update”

12:15 - 12:35
THERAFLEX UV-PLATELETS: MECHANISM OF ACTION, SPECIFICATIONS AND STERILITY STUDIES
By: Axel Seltsam

12:35 - 12:55
THE PHASE III CAPTURE TRIAL: ROUTINE USE IN THE BLOOD BANK OF FRANKFURT
By: Veronika Brixner

12:55 - 13:15
REVIEW ON THE INACTIVATION OF ARBOVIRUSES WITH THERAFLEX
By: Denese Marks
Download the app to support your bedside transfusion practice at itransfuseapp.com

Visit us at Booth 1821 to find out how you can promote safe transfusion practice to your residents with the iTransfuse App.

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itransfuseapp.com
Exhibitors

609 - Abbott

100 Abbott Park Road Bldg. CP 1-5
IL 60064
Abbott Park
United States

Contact: Jessica Masuga
E: jessica.masuga@abbott.com
https://www.transfusion.abbott

At Abbott, we're committed to helping people live their best possible life through the power of health. For more than 125 years, we've brought new products and technologies to the world -- in nutrition, diagnostics, medical devices and branded generic pharmaceuticals -- that create more possibilities for more people at all stages of life. For more than 40 years, we've screened the majority of the world's blood and plasma supply, working with blood and plasma services to deliver life-saving blood components to the people who need them the most. Today, 99,000 of us are working to help people live not just longer, but better, in the more than 150 countries we serve. Connect with us at www.abbott.com, on Facebook at www.facebook.com/Abbott and on Twitter @AbbottNews and @AbbottGlobal

1706 - Actemium NDT-P&S

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

Contact: Nicolas Leger
T: +33 (0) 169 886 745 / +33 (0) 688 208 004
E: nicolas.leger@actemium.com / ndt-pes@actemium.com
https://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.
620 - Angelantoni

Loc. Cimacolle, 464
06056
Massa Martana
Italy

Contact: Mr. Giorgio Citarei
T: +39.075.89551
E: biomedical@angelantoni.it
https://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. Plasmafrost IT.E.M blast plasma freezer equipped with computer that allow validation of freezing's cycle.

803 - Asahi Kasei

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
https://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. And GLT Medical Co., Ltd., a joint venture with Asahi Kasei Medical in China give you a flexibility and provision of the best product mix.
1622 - Ashland LLC

1005 Route 202/206
08807
Bridgewater, NJ
USA

Contact: Rosemarie Fairman
T: +1 908.243.4766
E: rfairman@ashland.com
https://www.ashland.com/radsure

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1821 - Australian Red Cross Blood Service

301 Pirie Street,
SA 5000
Adelaide
Australia

Contact: Transfusion Learning
T: +61 (08) 8112 1303
E: transfusionlearning@redcrossblood.org.au
https://www.transfusion.com.au

The Australian Red Cross Blood Service - entrusted with the supply of Australia’s blood - delivers world-class research and provides expertise in diagnostic, transplantation and other clinical services. As part of the Blood Service, Transfusion Policy and Education is proud to be launching the iTransfuse App at ISBT Toronto which has been designed to support bedside transfusion practice. This innovative app will complement the existing comprehensive range of resources for everything you need to know about blood and transfusion at any stage of career. Download the app at the App Store or Google Play - and visit us at Booth 1821 to find out more.
**627 - B Medical Systems**

17, op der Hei  
9809  
Hosingen  
Luxembourg  

Contact: Silvia Pereira  
T: +352 92 07 31 281  
E: info@bmedicalsystems.com  
https://www.bmedicalsystems.com  

B Medical Systems is renowned expert in blood safety and management: from collection to transfusion, transportation, processing and storage  
Our reliable blood cold chain strictly observes international standards. We keep blood safe through temperature-controlled transportation, processing and storage solutions. Additionally we offer innovative solutions for blood and derivatives treatment. These include a new Contact Shock Freezer that delivers optimized performance with its innovative system – it enables faster and homogenous freezing that saves time and money – and an exclusive integrated Incubator and Platelet Agitator with autonomous motioned trays, each with own door, which ensures better stability and preservation of product quality.

**1415 - Barkey GmbH & Co. KG**

Gewerbestrasse 8  
33818  
Leopoldshoehe  
Germany  

Contact: Mr. Daniel Kemmerling  
T: +49 (0) 5202 - 9801-0  
E: info@barkey.de  
https://www.barkey.de  

Barkey is a globally active manufacturer located in Bielefeld, Germany. We are specialists for 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 as well as blood/ infusion warmers. Barkey exports into more than 60 countries. Our devices are applied in blood banks (BB), departments for anesthesia, intensive care units (ICU), operation theater (OT) and recovery rooms.
1818 - Best Theratronics Ltd.

413 March Road
K2K 0E4
Ottawa
Canada

Contact: Clemens Schroder
T: 613-591-2100 ext 2729
E: marketing@theratronics.ca
http://www.theratronics.ca/

Best Theratronics Ltd. is a Canadian component of TeamBest®. We manufacture external beam therapy units and self-contained blood irradiators. The TeamBest® group of companies brings with it a diverse range of knowledge from around the world that ensures customers will always have a clear and accurate answer. TeamBest® is driven by one primary goal - to provide the best products and services to customers.

1809 - Biolog-ID

1, Rue du Cdt Robert Malrait
ZA des Granges
27300
Bernay
France

Contact: Guillaume de Saint Martin
T: + 33 (0)2 32 47 83 40
E: guillaume.desaintmartin@biolog-id.com
https://www.biolog-id.com

Biolog-ID is known as the expert in IoT / RFID Blood Supply Management Solution. By adding an RFID tag to each blood product, providing SST 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.
1406 - bioMérieux

Chemin de l'Orme
69280
Marcy L'Etoile
FRANCE

Contact: Virginie Le Coent
T: +33 (0) 7 62 75 10 11
E: virginie.lecoent@biomerieux.com
https://www.biomerieux.com

A world leader in the field of in vitro diagnostics for over 50 years, bioMérieux is present in more than 150 countries through 42 subsidiaries and a large network of distributors. bioMérieux provides diagnostic solutions (systems, reagents, software) which determine the source of disease and contamination to improve patient health and ensure consumer safety. Its products are mainly used for diagnosing infectious diseases. They are also used for detecting microorganisms in agri-food, pharmaceutical and cosmetic products.

313 - Bio-Rad Laboratories, Inc.

1000 Alfred Nobel Drive
CA 94547
Hercules
USA

Contact: Tina Cuccia
T: 510-741-6063
E: tina_cuccia@bio-rad.com
https://www.bio-rad.com

Bio-Rad Laboratories, Inc. develops, manufactures, sells, and supports a large portfolio of products for medical screening and diagnostics. Bio-Rad is a leading specialty diagnostics company and its products are recognized as the gold standard for diabetes monitoring and quality control systems. The group is also well known for its blood virus testing and detection, blood typing, autoimmune and genetic disorders testing, and internet-based software products. Bio-Rad’s clinical diagnostics products incorporate a broad range of technologies used to detect, identify, and quantify substances in bodily fluids and tissues. The results are used as aids to support medical diagnosis, detection, evaluation, and the monitoring and treatment of diseases and other medical conditions.
1615 - BloodHub

10645 N Tatum Blvd Ste 200-667
85028
Phoenix, AZ
USA

Contact: Susanne Logan
T: 602-753-7799
E: info@bloodhub.com
https://www.bloodhub.com

BloodHub is the global market leader in Hospital Service Excellence. Eliminate all paper, manual processes and T: calls to improve accountability, transparency and lower costs. Hospitals and blood suppliers benefit from fewer errors, greater productivity and data-driven insights. BloodHub has it all: order management, inventory control, production planning, logistics and billing. Let’s meet!

1624 - Canadian Blood Services

1800 Alta Vista Drive
K1G 4J5
Ottawa, Ontario
Canada

Contact: Jenny Ryan
T: 1-877-709-7773
E: media@blood.ca
https://www.blood.ca

Canadian Blood Services manages the national supply of blood, blood products, stem cells and related services for all of the provinces and territories (excluding Quebec). We also play a leadership role in organ and tissue donation and transplantation. We are regulated as a biologics manufacturer by Health Canada and primarily funded by the provincial and territorial ministries of health. Our dedicated research team and extended network of partners collaborate to create new knowledge, inform and enhance best practices, and contribute to the development of new services and technologies.
815 - Canadian Society For Transfusion Medicine (CSTM)

20 Crown Steel Drive, Unit 6
L3R 9X9
Markham ON
Canada

Contact: Ann Wilson
T: 905-415-3917  Toll-free: 1-855-415-3917
E: office@transfusion.ca / cstm@secretariatcentral.ca
https://www.transfusion.ca

The Canadian Society for Transfusion Medicine is an inter-professional organization that promotes excellence in Transfusion Medicine for Canadians.

Our Vision:
To inspire and promote safe transfusion practices
To be the leaders in the continuing development of standards for hospital transfusion services
To facilitate opportunities for education in transfusion medicine
To cultivate regional, national and international partnerships with key stakeholders
To assist in the advancement of knowledge and services in developing countries

111 - Cerus Europe BV

Stationsstraat 79-D
3811 BT Amersfoort
The Netherlands

http://interceptbloodsystem.com
T: 011 31 33 496 06 00

Cerus Corporation is a biomedical products company focused in the field of blood transfusion 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. Cerus currently markets and sells the INTERCEPT Blood System for both platelets and plasma in the United States, Europe, the Commonwealth of Independent States, the Middle East and selected countries in other regions around the world. The INTERCEPT Red Blood Cell system is in clinical development.
1715 - Changchun Bioxun Biotech Co., Ltd.

No.285 Xinpu Road, North of Gaoxin District
130000
Changchun
China

Contact: Xinyue Wei
T: +86 431 8181 6870
E: weixinyue@bioxun.com
http://www.bioxun.com/

As a corporate champion of China's blood transfusion industry, Bioxun upholds the concept of “Manufacturing reliable products with chariness, protecting the safety of blood transfusion through sincere service.” and serves the benefit of people.

1606 - CLST Austria GmbH

Wirtschaftspark 5,
9130 Poggersdorf
Austria

Contact: Bianca Giju
T: +43 664 2446136
E: bianca.giju@clst-austria.com
www.clst-austria.com

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:
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• 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
**1109 - Conroy Medical AB**

Valhallavaegen 1  
194 63  
Upplands Vaesby  
Sweden

Contact: Nicklas Lundman  
T: +46 8 594 202 50  
E: info@conroy.se  
http://www.conroy.se/

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.

**1607 - Delcon Srl**

Via Matteucci 25/27  
20862  
Arcore (MB)  
Italy

Contact: Chiara Longoni  
T: +39 039 617670  
E: info@delcon.it  
https://www.delcon.it

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.
1618 - Demophorius Healthcare

196 Archbishop Makarios Ave. III
3030
Lemesos
Cyprus

Contact: Sakis Papaspyrou
T: +35725749896
E: info@demophorius.com
https://www.demophorius.com

Demophorius Healthcare committed to product development, quality and 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.

614 - Diagast

251, avenue Eugène Avinée
59120 LOOS
France

Contact Persons:
Dominique Plin, International Marketing and Business Director
Rajkumar Singh, Director - Marketing & Business Development
T: +33 320 96 53 53
E: communication@diagast.com
https://www.diagast.com/

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.
You already know QWALYS Evo®, our high performance blood grouping automated system and ABD PAD®, the innovative device for ABO/RH blood group confirmation in only 30’ and 3 steps.
During ISBT, come on booth n°614 and discover our new flagship product ONYX®.
1312 - Diasorin

Via Crescentino snc
13040
Saluggia (VC)
Italy

Contact: Daniela Bernasconi
T: +39 0161 4871
E: daniela.bernasconi@diasorin.it
https://www.diasorin.com

DiaSorin is an Italian multinational Group and a global leader in the market for in vitro diagnostics. For over 40 years the Group has been developing, producing and commercializing diagnostic tests for a wide range of clinical areas. DiaSorin tests are designed for hospital and private testing laboratories, in the markets of immunodiagnostics and molecular diagnostics.

119 - Fresenius Kabi

Else-Kroener-Str. 1
61352
Bad Homburg
Germany

T: +49 6172 6860
E: communication@fresenius-kabi.com
https://www.fresenius-kabi.com

Fresenius Kabi is a global healthcare company that specializes in lifesaving medicines and technologies for infusion, transfusion and clinical nutrition. The company’s products and services are used to help care for critically and chronically ill patients. Product portfolio: I.V. generic drugs, infusion therapies and clinical nutrition products as well as the medical devices for administering these products. Within transfusion technologies, Fresenius Kabi offers products for collection and processing of blood components and for therapeutic treatment of patient blood by apheresis systems. In the field of biosimilars, Fresenius Kabi develops products with a focus on oncology and autoimmune diseases.
136 - Fujirebio

2-1-1 Nishishinjuku, Shinjuku-ku, 163-0410
Tokyo
JAPAN

Contact: Osamu Tamura
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E: osamu.tamura@miraca.com
https://www.fujirebio.com/

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, and G600 have been installed approx. 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 approx. 400 units.

1807 - Gamma-Service Medical GmbH

Bautner Str. 67
04347
Leipzig
Germany

Contact: Ingo Steiner
T: +49 172 540 81 91
E: ingo.steiner@ezag.com
https://www.gamma-medical.de

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 and AC:2012
1515 - GenesisBPS

Le Viez 6,
1277 Arnex-sur-Nyon
Switzerland

Contact: Harold Koeneman
T: +41 22 363 18 16
E: international@genesisbps.com
https://www.genesisbps.com

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.

603 - GFE Blut

Altenhoeferallee 3
60438
Frankfurt / Main
Germany

Contact: Dr. Ralf Bartl
T: +49 171 174 95 59
E: info@gfeblut.de
https://www.gfeblut.de

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.
**1110 - Gilardoni SpA**

Via Arturo Gilardoni, 1  
23868 Mandello del Lario (LC)  
Italy

Contact: Mr. Roberto Ferron  
T: +39 0341 705 241  
E: ucmicale1@gilardoni.it  
https://www.gilardoni.it

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.

**1709 - Global Blood Fund**

1001 N.Lincoln Blvd  
73104  
Oklahoma City  
United States

Contact: Gavin Evans  
T: +1 405-419-1325  
E: info@globalbloodfund.org  
https://www.globalbloodfund.org

Global Blood Fund (GBF) is a 501(c)(3) charity that for 10 years has been supporting blood services in low and middle-income countries with equipment, training, grants and other forms of assistance. GBF is partnering with ISBT at the Toronto Congress to ask delegates for a voluntary financial contribution to help fund transfusion medicine books. These will be donated to blood banking professionals with limited resources to improve knowledge and practice and so enhance safety and sufficiency. Please visit to talk about our work and support our efforts.
309 - Grifols

Avinguda de la Generalitat, 152
Parc empresarial Can Sant Joan
08174 Sant Cugat del Vallès, Barcelona
SPAIN

T: +34-93-5712200
https://www.diagnostic.grifols.com

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.

420 - Haemokinesis

16 Technology Circuit
3803
Hallam, Victoria
Australia

Contact: Vaughan Davies
T: +613 9708 6299
E: sales@haemokinesis.com
https://www.haemokinesis.com

Haemokinesis specializes in R&D, manufacture, distribution and support of products in Immunohaematology and allied fields. Current product range:
- STATUS1 a one minute Gel test for Forward and Reverse Group
- STARGEL10 an antibody screening method incorporating a 5 minute incubation and centrifugation
- SATELLITE Reader for STATUS1 and STARGEL10 Cards
- GEMINI Donor Accreditation analyzer series able to perform 120 Group and Screens or up to 488 Donor screens per hour
- ECLIPSE High thru-put (100+ Group and screens per hour) hospital based analyser
- GLIF a self-interpreting bioactive paper based Grouping method that can be performed anywhere.
1014 - Haemonetics

Signy Centre P.O. Box 262
1274
Signy
Switzerland

Contact: Christian Leuenberger
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E: cleuenberger@haemonetics.com
http://www.haemonetics.com

Haemonetics (NYSE: HAE) is a global healthcare company dedicated to providing innovative blood management solutions for our customers. Together, our devices and 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. Our technologies address important medical markets: blood and plasma component collection, the surgical suite, and hospital transfusion services. To learn more about Haemonetics visit our web site at http://www.haemonetics.com

914 - Helmer Scientific

14400 Bergen Blvd
46060
Noblesville, IN
USA

Contact: Richard Forero
T: 317-773-9073
E: rforero@helmerinc.com
https://www.helmerinc.com

Helmer Scientific is an established, entrepreneurial, growth company headquartered in Noblesville, Indiana. We design, integrate, manufacture, market, and distribute specialized medical and laboratory equipment to clinical and life science customers in over 125 countries. On display will be the newly released next generation UltraCW II Automatic Cell Washer. See this and many more products designed specifically for blood storage and processing. For more information, visit www.helmerinc.com.
1713 - Hema-Quebec

4045 Cote-Vertu Blvd.
H4R 2W7
Saint-Laurent
Canada

Contact: Mazen Dakkak
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www.hema-quebec.qc.ca

A reliable international partner in the fields of stem cells and human tissues. Héma-Québec’s mission is also to efficiently meet the needs of the Québec population for quality blood and other biological products of human origin.

619 - Hemasoft SA

Rue des Pilettes, 1
1700
Fribourg
Switzerland

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E: Juan.bajo@hemasoft.com
https://www.hemasoft.com

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.
1404 - HemoCue AB

Box 1204  
SE-262 23  
Ängelholm  
Sweden

Contact: Pia Åberg  
T: +46 431 481200  
E: info@hemocue.se  
https://www.hemocue.com

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.

1612 - Hettich

100 Cummings Center, Ste 136L, Beverly MA 01915 USA  
01915  
Beverly  
USA

Contact: Ann Chainey  
T: +1 (978) 232-3957  
E: info@hettweb.com  
https://www.hettweb.com

Established in 1904, Andreas Hettich GmbH & Co. KG manufactures laboratory equipment for the modern laboratory. Specializing in centrifugation products, we offer a complete range of laboratory centrifuges, designed, engineered and manufactured in Germany.
1309 - ICCBBA

P.O. Box 11309
92423
San Bernardino
United States of America

Contact: Matt Delgado
T: +1 909 793 6516
E: iccbba@iccbba.org
https://www.iccbba.org

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.

204 - Immucor

Immucor Inc.
3130 Gateway Drive, 30071 Norcross GA
USA

Contact: Alice Alexandre
T: +33 6 78 03 62 68
E: aalexandre@immucor.com & imarketing@immucor.com
https://www.immucor.com

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.
403 - Inno-Train Diagnostik GmbH

Niederhöchstäder Str. 62
61476
Kronberg
Taunus

Contact: Dr. Stephan Jacobs
T: +49 (0)6173-6079-30
E: s.jacobs@inno-train.de
https://www.inno-train.de

The inno-train Diagnostik GmbH is specialized in the fields of transfusion medicine and immunogenetics. As the first commercial supplier we manufacture molecular IVD test systems for blood group typings since 1998. Furthermore we offer a complete product range for HLA-typings including serological test systems, PCR-SSP and sequencing kits. With our FluoGene product line we are offering a CE marked automation for RBC-, HPA- and HLA-typings either based on fluorescent endpoint detection (with our FluoVista analyzer) or based on real-time PCR with our latest FluoQube instrument.

1019 – International Society of Blood Transfusion

Marnixstraat 317
1016 TB Amsterdam
The Netherlands

Contact: Judith Chapman
T: +3120 7601 760
E: office@isbtweb.org
http://www.isbtweb.org/

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 Central Office staff, find out more about the society, become a member, and get more information about ISBT Education, the Forum or the App. Take advantage of a photo opportunity in front of the Toronto graphic. Information on upcoming congresses in 2019 in Basel and Bangkok will be available on the booth.
1209 - IPFA, International Plasma and Fractionation Association

Plesmanlaan 125
1066 CX Amsterdam
the Netherlands

Contact: Dr Paul Strengers
T: +31 (0)20 512 3561
E: info@ipfa.nl
https://www.ipfa.nl

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.

1712 - ITL BioMedical

11150 Sunset Hills Road, Suite 302
20190
Reston
USA

Contact: Patricia Reilly
T: +1 (703) 435-6700
E: Michele.Loudermilk@itlbiomedical.com
https://www.itlbiomedical.com

Essentials for Blood Management & Clinical Procedures
ITL BioMedical is a global provider of essential tools for blood management and clinical procedures that
supports best clinical outcomes in blood banks, laboratories and clinical settings by focusing on safety and
efficiency.
1112 - Jiaxing Tianhe Pharmaceutical CO., LTD.

Bldg. 3#, Zhongfa Foreign Trade Industrial Zone, Fengqiao Town, Nanhu District
314008
Jiaxing
China

Contact: Sandy Wu
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E: jingru@jxtianhe.com
https://www.jxtianhe.com

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, ISO13485:2016 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.

203 - JMSNA

12-17 Kako-machi, Naka-ku
730-8652
Hiroshima
Japan

Contact: Koji Suzuki
T: +81-82-243-5844
E: k-suzuki@jms.cc
http://www.jms.cc/english/index.html

JMS Co., Ltd. is a medical device manufacturer to provide medical products for both patients and healthcare workers to bring the best out of the products and services. The product portfolio includes a various range of transfusion disposable devices and the company is active all over the world in the field of transfusion business.
1414 - Kawasumi Laboratories, Inc.

Shinagawa Intercity Tower B, 9th Floor, 2-15-2, Konan, Minato-ku
108-6109
Tokyo
Japan

Contact:
T: +81 3 5769 2605
E: k-maneyama@kawasumi.jp
https://www.kawasumi.jp/e/

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, and Automatic Tube Strippers.
Visit our booth and see how we can help you too!

1621 - KW Apparechi Scientifici SRL

Via della Resistenza, 117-119
53035
Siena
Italy

Contact: Marco Faneschi
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E: export@kwkw.it
https://www.kwkw.it

KW is an Italian manufacturer with production sites in Italy where all products are made accordingly to GMP and to a long experience to dedicated sectors (health science, research and pharmaceutical). KW manufactures devices aimed to the control of temperature, from -125°C to +300°C. Main products are -86°C freezers for the preservation of human plasma, tissues, organs, biological samples; -45°C freezers for plasma and biological samples; Blood bank refrigerators for the storage of whole blood and red cells; platelets incubators and agitators, plasma thawers, stem cell thawers, refrigerators for medicines, shock plasma freezers
**1214 - Lmb Technologie GmbH**

Möslstrasse 17  
85445  
Schwaig  
Germany

Contact: Mr. Klaus Jentsch  
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E: info@lmb.de  
https://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.

**1204 - Macopharma**

200 Chaussée Fernand Forest  
59200  
Tourcoing  
France

Contact: Véronique LUTUN  
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https://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.
105 - MAK-system

35, Square de Meeus
1000
Brussels
Belgium

Contact: Clement Glinkowski
E: c.glinkowski@mak-system.net
https://www.mak-system.com

MAK-SYSTEM International Group is the leading provider of innovative healthcare software solutions used in more than 65 countries.

Our off-the-shelf software provides to Blood Centers, 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.
We take great pride in the fact that our software run in centers collecting from 1,000 to 7 million donations per year.
Our vast 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.

1407 - Medinfo International Hemoservice

2 rue Jules Belleudy
06200
Nice
FRANCE

Contact: Kamel KETARI
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https://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.
1613 - Meditalia SRL

via alla Piana 1
23030
Lovero Valtellino
Italy

Contact: Eng. Giovanni Mazzaro
T: +39 0342 771070
E: info@meditaliasrl.com
www.meditaliasrl.com

Meditalia Srl is an Italian company for years active in the biomedical sector that has chosen to focus on innovative patents to create new proposals for the benefit of patients:
- Blood and drugs obtained from placental blood. Has acquired a patent granted in the United States and Europe for preparation of a cord blood platelet gel.
- New medical devices, including the ozone kit and the postpartum blood loss control during the delivery. Meditalia SRL has been operating for over 40 years in the production and sales of raw materials and finished products for use in the medical field.

1721 - Mediware

11711 W. 79th Street
66214, Lenexa, KS, United States of America

Contact: Aaron Winkelmann
T: 903-307-1000
E: info@mediware.com
www.mediware.com

Mediware is a provider of state-of-the-art information management software spanning the blood management & cellular therapy continuum. This includes HCLL Transfusion for blood banks; LifeTrak for blood centers; Transtem for comprehensive cellular therapy management; HCLL Analytics for PBM & business intelligence; and KnowledgeTrak for document, accreditation & competency management. We are based in Kansas City with more than 3,000 customers and 800 employees across the globe. Learn more at www.mediware.com.
1616 - Möller Medical GmbH

Wasserkuppenstr. 29-31
36043 Fulda, Germany

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E: info@moeller-medical.com
https://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.

1825 - MTCINVITRO DIAGNOSTICS AG

Amperéstr. 2a
64625 Bensheim
Germany

Contact: Sebastian Marra
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E: info@mtcinvitro.com
https://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’s core product line is gel centrifugation technology with its INVITROGEL TEST-SYSTEM - 6 tubes gel cards, INVITROOCTA 8 tubes gel cards, INVITROSTSTAT one minute gel test and a range of fully automated analyzers. Other product lines are liquid reagents, microplates and lateral flow tests. 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.
814 - Nanjing Shuangwei Biotechnology Co., Ltd.

No.1, Gaoke 8 Road, New&High Technology Industry Development Zone, Nanjing, P.R. China.
210032
Nanjing
China

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E: yin.lu@shuangweibio.com
https://www.shuangweibio.com

Since 1993, Nanjing Shuangwei Biotechnology has been specialized in the field of high-tech haematology products and dedicated to reducing risks of blood transfusion with advanced filtration technologies. Our complete range of CE-marked leukocyte reduction filters have been widely used in more than 20 countries and enjoy a good reputation through good quality and after-sales service. As a reliable supplier of high performance in-line filters (soft and hard housing), Shuangwei has established strategic cooperation relationship with many famous blood bag manufacturers around the world. Our platelet pooling system with in-line leukoreduction filters will be used by more and more blood centres soon.

1609 - NanoEnTek, Inc.

2F, Ace High End Tower, 5, 25gil
08389
Guro-gu
Republic of Korea

Contact: KP Ko
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E: ivdst@nanoentek.com
https://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 (FDA 510k Cleared) is an analyzing device that counts the number of residual leukocytes in a blood component for transfusion in 1 mins. 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.
1512 - Ontario Regional Blood Coordinating Network (ORBCoN)

2075 Bayview Avenue Rm E310
M4N3M5
Toronto
Canada

Contact: Troy Thompson
T: 289-339-6648
E: troy.thompson@sunnybrook.ca
https://www.transfusionontario.org

Inspiring and facilitating best transfusion practices in Ontario. We will be an innovative and valuable resource for promoting appropriate, standardized and safe transfusion practices.

1512 - ONTraC: The Ontario Nurse Transfusion Coordinators Program

St Michael's Hospital, 30 Bond St, Room 2-040 Shuter,
M5B 1W8
Toronto
Canada

Contact: Alanna Howell
T: (416) 864-6060 ext 4055
E: howella@smh.ca
https://www.ontracprogram.com

The ONTraC program is a network of transfusion coordinators in 25 Ontario hospitals with the focus of implementing patient blood management. The program has been highly successful in reducing transfusion rates and improving clinical outcomes, and has proven to be cost-effective.

1806 - OrSense

Ha'mefalsim street, Kiryat Arie
4900302
Petah Tikva
Israel

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E: al@orsense.com
https://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.

www.orsense.com
422 - Ortho Clinical Diagnostics

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Ortho Clinical Diagnostics is a global leader of in vitro diagnostics serving the global clinical laboratory and immunohematology communities. Across hospitals, hospital networks, blood banks, and labs, our high-quality products and services enable healthcare professionals to make better medical decisions to improve and save lives.

1610 - PCL Inc.

Star valley #701, 99, Digitalro 9gil, Geumcheongu
08510
Seoul
The Republic of Korea

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PCL Inc. provides multiplex immunodiagnostics based on SG Cap™ technology, a highly enabling and flexible immobilization method with unparalleled sensitivity and specificity thresholds. Applications include infectious disease blood screening (CE Mark for Hi3-1 assay), oncology, animal health, and drug discovery.
1514 - PuriBlood - Power Membrane Co., Ltd.

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Power Membrane carries forward the applications of anti-biofouling Zwitterionic technology. We cooperate with Puriblood Medical for manufacturing and marketing the PuriBlood® Leukocyte reduction filters in the world. PuriBlood® is widely used for improving the safety of human and animal blood transfusion. We supply the white blood cell isolation syringe filter for laboratory and diagnostics markets as well.

Our zwitterionic-bias biomaterial is a proven technology not only for leukocyte capture but also for wound healing. A new brand of high tech hydrocolloid and hydrogel wound dressing with zwitterionic-bias material which can accelerate one or several stages of the healing process will come to the market soon.

604 – Quotient

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Quotient is a commercial-stage diagnostics company committed to reducing healthcare costs and improving patient care through the provision of innovative tests within established markets. For over 30 years, Quotient customers trust the company as a quality, innovative provider of reagents for use in blood transfusion medicine. Today, Quotient is developing its proprietary MosaiQ™ platform, with an initial focus on blood grouping and serological disease screening, to offer a breadth of tests that is unmatched by existing commercially available transfusion diagnostic instrument platforms.
**1203 - Rad Source Technologies, Inc.**

4907 Golden Parkway, Suite 400  
30518  
Buford  
United States  

Contact: Gord Ashfield  
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Our 3400 X-ray Blood Irradiator which incorporates proprietary technology including our patented QuaStar™ X-ray Tube and rotator is now the number one selling blood irradiator in the world. Unique advantages include it can process 6, one liter canisters in less than 5 minutes, it can process a variety of blood product in the same cycle and it runs on a single power supply. It also has superior dose uniformity, on-board cooling. We have already placed over 100 units worldwide including approximately 20 units at the American Red Cross. It is US-FDA cleared, CE marked and has been approved in numerous other countries.

**1819 - RadTag Technologies Inc.**

2403 - 96 Street NW  
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Canada  

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Manufacturing and sales of irradiation indicators for medical and other industries. Products include RadTag blood irradiation indicators.
1027 - Rees Scientific

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08638, NJ
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https://www.reesscientific.com

Since 1982, Rees Scientific has been the industry standard for automated temperature monitoring. Our wide range of systems is a complete solution for all monitoring needs. Monitor critical equipment for temperature, humidity differential pressure and much more. Our systems help meet compliance for AAALAC, FDA, GAMP, GxP, HACCP, USP797, and other regulatory requirements. Our newest innovation makes monitoring your facility even easier. The new Z3 wireless modules offer many new exciting features and are a valuable transformation from the previous V.2 version. They offer extended battery life, reduced/eliminated battery alarms, improved reliability, encrypted communication, increased module per network device and more.

1003 - Roche

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Roche Diagnostics is dedicated to being a trusted partner of blood and plasma screening laboratories now and in the future. Roche offers a comprehensive portfolio through Roche Blood Safety Solutions, which integrates nucleic acid testing, serology testing, pre-analytics and IT solutions. Roche is the first company to offer a connectivity of serology and nucleic acid testing, setting new standards in reliability, safety, and efficiency worldwide.
1824 - Safetran

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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.

1815 - Sato Vicinity Pty Ltd

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SATO, working alongside fully accredited manufacturers of transfusion fridges and freezers offers off the shelf PJM RFID tools that are ISBT RFID Guideline compliant and can be seamlessly integrated with transfusion software systems to provide complete automated traceability. SATO is a pioneer in the Automatic Identification and Data Collection (AIDC) industry and a leader in barcode printing, labelling, and EPC/RFID solutions. SATO’s healthcare solutions are based on absolute positive identification of patients, medications, specimens and samples, treatments, lab results and records. Positive identification improves patient safety and helps avoid medical errors, while increasing a hospital’s productivity and reducing costs.
1710 - Shire Pharma Canada

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Shire is the leading biotechnology company focused on serving people with rare diseases and other highly specialized conditions.

1718 - Sichuan Nigale Biotechnology Co., Ltd.

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Nigale is the leading company worldwide specializing in the field of manufacturing plasma/platelet apheresis and blood bag systems. Our total quality management system complies with GMP, ISO 23485 and CE. Nigale is dedicated to its clients by providing state-of-art technologies, products and services in various working environments.
1812 - Sigma Laborzentrifugen GmbH

An der Unteren Söse 50
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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.

1509 - STRATEC Biomedical

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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 Data Solutions 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. Aurora Vigilant is a maintenance software package which enables the laboratory to actively manage and electronically document critical tasks throughout the laboratory.
**1716 - Suzhou Bacme Biotech CO., Ltd.**

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Suzhou BACME Biotech Co., Ltd., founded in 2011, is located in the Taicang Port Economic and Technological Development Zone. As a high-tech bio-medical company, BACME is the developer, manufacturer, marketer and technical supporter of in-vitro diagnostic (IVD) products.

BACME strives to become a global IVD company with unique and qualified blood screening solutions. Our nucleic acid testing (NAT) kit has been launched successfully features in high sensitivity and specificity, strong anti-jamming, and automated operating system. The unique “Four In One” NAT kit can detect HBV, HCV, HIV-1 and HIV-2 targets in a single test.

**1315 - Technoflex**

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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.
**622 - TerumoBCT**

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Terumo BCT, 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 technologies. 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 customers.

**1210 - Thermo Fisher Scientific**

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Thermo Fisher Scientific supplies innovative solutions for the world’s blood banking and cell therapy community. With applications that span the blood banking workflow – from collection to analysis to therapy – we provide a broad range of products and services. Through our premier brand – Thermo Scientific – we now offer LinkS q real-time PCR technology, which was developed to genotype complex systems. This robust, automated technology delivers results in ~90 minutes. LinkS q real-time PCR assays for transfusion medicine include solutions for ABO, HPA, RBC and sickle cell disease.
1409 - Toutenkamion

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toutenkamion is a specialist body builder of different kind of mobile units according to the needs, with a wide range of different customers. They are mainly professionals in broadcasting and television, motor sports, medical support, healthcare, education, training, event marketing, roadshow, marketing, exhibitions, etc. The bodywork with or without extension is individually designed for each application of mobile workplace in any desired dimension. Design, construction and fitting out of the interior are entirely completed in the factory of toutenkamion s.a. Sales are worldwide into approx. 30 countries,
Floor Plan
For many in need of blood donation, finding that perfect match isn’t easy. It goes far beyond blood type. That’s why every person who donates blood is unique and special. Your blood could be one of a kind. Blood donors can be the single person of the 7 billion on the planet, needed to save another human life. Like Cristiano Ronaldo, inspire and motivate your friends to donate blood and help them realize the profound impact they can have on someone’s life. Join Cristiano Ronaldo and the BE THE 1™ team to donate blood now. You could save a life.

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When a transfusion is needed, you want more than just-in-case. You want just-in-time.

Visit us at booth 1014 at the ISBT® Annual Meeting

Just-in-time Blood Management System – BloodTrack OnDemand®

BloodTrack OnDemand, our just-in-time blood management software, allocates the right blood product to the right patient where and when it’s needed, eliminating the need to prepare the products in advance.

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The software is designed to work with the BloodTrack HaemoBank® blood storage device, creating a virtual 24/7 automated transfusion service.

For a list of worldwide office locations and contact information, visit www.haemonetics.com/officelocations
29th Regional Congress of the ISBT
Basel, Switzerland

In conjunction with Swiss Transfusion SRC and the Swiss Association for Transfusion Medicine

International Society of Blood Transfusion