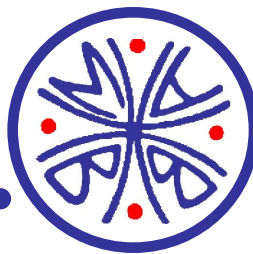


# 68TH ANNUAL MEETING

## SEPTEMBER 21ST & 22ND, 2022



# TRANSFUSION MEDICINE UPDATE 2022

### COURSE DESCRIPTION

In accordance with the Michigan Association of Blood Banks (MABB) mission statement, the 68th annual meeting program consists of many diverse topics with a linked theme of promoting the highest standard of patient care for our respective patient populations. We would like to focus on the sessions that will be presented at this year's meeting.

First, we are very pleased to announce that the Kay Beattie Lectureship speaker this year is Margaret Keller, PhD. She is the Executive Director, National Laboratories, American Red Cross, in Philadelphia, PA. Formerly, she was the senior director of the National Molecular Laboratory for the American Red Cross. Dr. Keller holds a BA in Biochemistry from Rutgers University and a PhD in Molecular Biology and Genetics from the University of Pennsylvania School of Medicine. She has done extensive work in molecular testing for blood group and platelet antigens. Dr. Keller will be speaking on acquiring rare blood from overseas as well as the use of molecular testing to help resolve antigen typing discrepancies.

Other topics include Rh discrepancies, pediatric transfusion-associated hyperkalemia, non-HLA antibodies in graft rejection, social media in transfusion services, antibody identification, quality, blood shortages from a donor center perspective, and therapeutics for bleeding disorders. In addition, we will review interesting clinical and serological cases from Michigan hospitals. Join us for this exciting program!

The target audience for this program is physicians, house officers, medical laboratory scientists, nurses, and other healthcare professionals.

### COURSE OBJECTIVES

- At the conclusion of this program, participants will be able to:
- Discuss the role of non-HLA antibodies in graft rejection
- Discuss the role of blood group antibodies in graft rejection
- Describe basic RHD genetics and biochemistry
- Discuss the variability of reagent Anti-D in detecting weak and partial D antigens
- Describe the mission of the American Rare Donor Program and define what is rare
- Describe the process of requesting and obtaining rare blood products
- Review the types of discrepancies involving different test methods and reagents
- Understand how antigen typing discrepancies can be due antigen density, antigen variants, and limitations of test methods
- Understand how molecular methods can be used to investigate discrepancies.
- Review Blood Collection fallout from the Pandemic including: loss of sponsor venues; the ups and downs of donor engagement; and actions to keep donors and staff safe.
- Assess the impact on blood collection due to tighter labor markets and reduced capacity.
- Discuss current donor trends and how donor preferences have evolved during the pandemic.
- Understand the pathophysiology of inherited bleeding disorders and approach to management
- Identify the limitations of current therapeutic approaches
- State prevalence, survival, and risk factors of TAH.
- Discuss transfusion volume, transfusion rate, and RBC unit features associated with TAH in the pediatric population.
- Discuss the need/benefits of scheduled outpatient pRBC exchange in sickle cell patients
- Understand the isovolemic hemodilution method added to the standard red blood cell exchange process
- Describe the responsibilities of various agencies involved in CLIA regulations
- Review newer developments regarding CLIA regulations
- Describe the clinical presentation and diagnosis of GVHD after liver transplantation
- Discuss the use of ECP in combination with immunosuppressive therapy and etanercept as safe and effective in managing GVHD and HLH post liver transplantation.
- Identify the use of selected routine and special immunohematology procedures
- Describe concepts in blood bank safety and quality assurance
- List facts about blood group antigens/antibodies, blood products, and transfusion practice
- Discuss how to manage a new positive screen in a transplant patient
- Recognize the clinical significance of Anti-M
- Describe the many roles an educator can have using Twitter for Medical Education
- Construct a professional Twitter account that engages in #bloodeducation activity
- Explain how erythroblast erythroferrone production is stimulated
- Describe the process and impact of erythroferrone on iron absorption
- Describe standard treatment for iron overload in transfusion-related hemosiderosis and possible future treatments
- Demonstrate how to differentiate Anti-LW from Anti-D
- Discuss the clinical and serological indications for an intrauterine transfusion

# 68TH ANNUAL MEETING

THIS YEAR'S ANNUAL MEETING  
WILL BE HELD IN PERSON AT:

SCHOOLCRAFT COLLEGE  
VISTATECH CENTER  
18600 HAGGERTY ROAD,  
LIVONIA MI 48152  
734-462-4400

# MABB 68TH ANNUAL MEETING AGENDA

Wednesday, September 21st

Moderators: Brad Eisenbrey, MD, Salika Devine, MS, BB

- 8:00 Registration and Breakfast
- 8:30 Introduction & Welcome  
Barry Siegfried, MD, MABB President
- 8:40 2022 Kay Beattie Lecture  
When Rare Blood Requests Go Overseas  
Margaret Keller, PhD
- 9:40 Non-HLA Antibodies in Graft Rejection  
John Gerlach, PhD, MT (ASCP), D (ABHI)
- 10:30 Refreshments and Exhibits
- 11:00 CLIA and Beyond  
Terry Downs, MT (ASCP), SBB
- 11:50 Lunch and Exhibits
- 12:35 MABB Business Meeting
- 1:05 Using Twitter to Advance Transfusion  
Medicine Knowledge: A Skill for All Ages  
Daniela Hermelin, MD
- 2:10 Pediatric Transfusion-associated Hyperkalemia  
Chisa Yamada, MD
- 3:10 Refreshments and Exhibits
- 3:20 Clinical Case Studies  
Moderator: Tammon Nash, MD  
Zhengfan Xu, MD  
Malini Surapaneni, MD  
Nada Naiyer, MD
- 4:25 Adjournment

Thursday, September 22nd

Moderators: Barry Siegfried, MD, John Sherbeck, MD

- 8:00 Registration and Breakfast
- 8:30 Introduction & Welcome  
Barry Siegfried, MD, MABB President
- 8:40 2022 Kay Beattie Lecture  
Antigen Typing Discrepancies: Causes and  
Uses of Molecular Methods for Resolution  
Margaret Keller, PhD
- 9:30 Novel Therapeutics for Bleeding Disorders  
Steven Pipe, MD
- 10:20 Refreshments and Exhibits
- 10:50 Iron Hoarding Erythroblasts: a Complication  
for Some Multiply Transfused Patients  
Kathy Doig, PhD, MLS (ASCP)<sup>CM</sup>, SH<sup>CM</sup>
- 11:40 Lunch and Exhibits
- 12:40 Blood Bank Jeopardy: "And The Answer Is"  
Jan Hamilton, MT (ASCP), SBB
- 1:30 Why in "D" world are there "D" discrepancies  
In Rh Typing?  
Sue Johnson, MSTM, MT (ASCP), SBB
- 2:30 Refreshments and Exhibits
- 2:50 Blood Collection Update: Pandemic  
Challenges and Maintaining Donor  
Engagement  
Paul Sullivan, MBA
- 3:40 Serological Case Studies  
Moderator: Kathryn Watkins, MT (ASCP)  
Kyle McCafferty, MLS (ASCP)<sup>CM</sup>  
Nicholas Polzin, MLS (ASCP)<sup>CM</sup>  
Cristian Purdom, MLS (ASCP)<sup>CM</sup>
- 4:30 Closing remarks

## P.A.C.E. CREDIT

MABB is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® program. Credit will be given for in person sessions only. The level of instruction is Intermediate. **Attendees can get up to 13 P.A.C.E. credit hours.**

## PROGRAM COMMITTEE

Salika Devine, MS, BB(ASCP)<sup>CM</sup>  
Terry Downs, MT(ASCP)SBB  
Louise DuRussel, BS  
Janis Hamilton, MS, MT(ASCP)SBB  
Sheri Hugan, BS, MLS<sup>CM</sup>(ASCP)SBB<sup>CM</sup>, vendor and P.A.C.E. coordinator  
Tammon Nash, MD, MS, moderator for clinical case studies  
Zaher Otroock, MD  
Ryan Pierce, CLS(ASCP), moderator for serological case studies  
Darlene Sanders, MS, MT(ASCP)SBB  
John Sherbeck, MD  
Barry Siegfried, MD  
Kayla Waider, MLS(ASCP)<sup>CM</sup>  
Angela Wholehan, MS, MLS(ASCP)<sup>CM</sup>, SBB<sup>CM</sup>, chair  
Chisa Yamada, MD

MABB thanks the following organizations for their support.

Kay Beattie Lectureship: Versiti  
Conference Breakfast: American Red Cross  
Vendors: American Red Cross, Bio Rad, Cerus, Follett, Immucor, MED Alliance Group/MED Alliance Solutions, Quotient, Secure Transfusion Solutions, Grifols, and Versiti

- **Register as soon as possible!** Due to venue restrictions, registrations, including on-site registrations, will be limited.
- Register at <https://mabb.org/events/annual-meeting/> (preferred), by faxing the form on the next page to the attention of Terry Downs at 734-936-6855, or by mailing the form to the address on that page. Email questions about registration to Terry Downs at the following: [mabbofficemanager@gmail.com](mailto:mabbofficemanager@gmail.com).
- For P.A.C.E. credit, a unique number code will be read at the end of each session. Participants can then enter the code into CE Organizer (<https://ceorganizer.ascls.org/login>) to take a survey and generate a P.A.C.E. certificate (NOTE: ASCLS membership is not required to use CE organizer).

## FACULTY

### Margaret Keller, PhD

Executive, National Laboratories; Sr Director, American Rare Donor Program  
American Red Cross, Philadelphia, PA

### John A. Gerlach, PhD, D(ABHI)

Professor/Program Director  
Michigan State University, East Lansing, MI

### Janis Hamilton, MS, MT (ASCP), SBB

Manager, Reference Laboratory  
American Red Cross, Detroit, MI

### Daniela Hermelin, MD,

Medical Director, Transfusion Services  
SSM Health, St. Louis University, St. Louis, MO

### Zhengfan Xu, MD

Resident, Pathology  
Henry Ford Hospital, Detroit, MI

### Nada Naiyer, MD

Blood Bank and Transfusion Medicine Fellow  
Michigan Medicine, Ann Arbor, MI

### Kyle McCafferty, MLS (ASCP)<sup>CM</sup>

IRL Technologist II  
American Red Cross, Detroit, MI

### Cristian Purdom, MLS (ASCP)<sup>CM</sup>

Medical Laboratory Scientist  
Michigan Medicine, Ann Arbor, MI

### Nicholas Polzin, MLS (ASCP)<sup>CM</sup>

Versiti Blood Center of Wisconsin, Milwaukee, WI

### Malini Surapaneni, MD

Chief Hematology-Oncology Fellow  
Karmanos Cancer Institute, Detroit, MI

### Chisa Yamada, MD

Clinical Associate Professor  
Michigan Medicine, Ann Arbor, MI

### Sue Johnson, MSTM, MLS (ASCP), SBB

Director, Clinical Education; Director, SBB/Transfusion Medicine Program  
Versiti Blood Center of Wisconsin/Marquette University, Milwaukee, WI

### Theresa Downs

Administrative Manager, Blood Bank  
Michigan Medicine, Ann Arbor, MI

### Paul Sullivan, MBA

Sr. Vice President, Donor Services  
American Red Cross, Farmington, CT

### Steven Pipe, MD

Professor of Pediatrics and Pathology  
Michigan Medicine, Ann Arbor, MI

### Kathy Doig, PhD, MLS (ASCP)<sup>CM</sup>, SH<sup>CM</sup>

Professor Emeritus  
Michigan State University, East Lansing, MI

## MABB OFFICERS

Barry Siegfried, MD, President  
Angela Wholehan, MS, MLS(ASCP)<sup>CM</sup>,SBB, President-Elect  
Sheri Hugan, BS, MLS<sup>CM</sup>(ASCP)SBB<sup>CM</sup>, Immediate Past-President  
Terry Downs, MT(ASCP)SBB, Treasurer  
Vacant, Secretary  
Billie Ketelsen, Member-at-Large  
John Sherbeck, MD, Member-at-Large  
Kathryn Watkins, MT(ASCP), Member-at-Large  
Brigitte Becker, MT(ASCP)<sup>CM</sup>,SBB, Member-at-Large

## MABB MISSION STATEMENT

The mission of the Michigan Association of Blood Banks is to promote the highest standard of care for patients and donors in all aspects of blood banking, transfusion medicine, apheresis and hematopoietic and tissue transplantation, by making available affordable educational and networking opportunities for professionals in the field.

**TRANSFUSION  
MEDICINE  
UPDATE  
2022**



MICHIGAN ASSOCIATION OF BLOOD BANKS  
1701 SAUNDERS CRESCENT  
ANN ARBOR, MI 48103

**REGISTRATION FORM**

Name \_\_\_\_\_

Credentials  MT(ASCP)  MLS(ASCP)  SBB  
(check all that apply)  MD  PhD  Other \_\_\_\_\_

Institution/Employer \_\_\_\_\_

Preferred Mailing Address:  Home  Work

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Work Phone \_\_\_\_\_ Fax \_\_\_\_\_

Home Phone \_\_\_\_\_ Email \_\_\_\_\_

Type of Member \_\_\_\_\_ (see below)

**MABB MEMBERSHIP DUES**

Student or resident	\$25
Individual non-physician	\$40
Individual physician	\$70
Institution	\$85

If you are not currently an MABB member and wish to join at this time, or if you need to renew your 2022 membership, you may register at the member rate. New memberships will be valid through **December 2022**. Current MABB members may also pay their 2022 or 2023 membership dues with this registration.

NEW membership  2022 renewal  2023 renewal

**PLEASE RETURN REGISTRATION FORM  
AS SOON AS  
POSSIBLE TO:**

Michigan Association of Blood Banks  
Attn: Terry Downs  
1701 Saunders Crescent, Ann Arbor, MI 48103  
FAX: 734-936-6855

**MABB 68TH ANNUAL MEETING**

**SINGLE DAY**

Please indicate day attending:  Wed  Thur

MABB Member*	\$95	\$ _____
Non-Member**	\$135	\$ _____
Med Tech Student/Resident	\$40	\$ _____

**BOTH DAYS**

MABB Member*	\$170	\$ _____
Non-Member**	\$225	\$ _____
Med Tech Student/Resident	\$80	\$ _____

**MEMBERSHIP DUES**

\$ \_\_\_\_\_

**TOTAL REMITTANCE**

\$ \_\_\_\_\_

**NOTE:** On-Site registration, if available, will incur an extra \$5 fee

**Online Registration now accepted at:**

<https://mabb.org/events/annual-meeting/>

- Check enclosed
- Credit Card (Visa/Mastercard/Discover)

Name on card \_\_\_\_\_

Credit card number \_\_\_\_\_

Billing address of card \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Exp. Date \_\_\_\_\_ Signature \_\_\_\_\_

\* Each institutional member may send ONE non-member at the member rate. All others must be individual members to qualify for member rate.  
\*\* Non-members who apply for membership with this registration may register at the member rate and membership will be valid through December 2022.