

CURRICULUM VITAE

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ADDRESS:

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I. EDUCATION:

<u>DATE</u>	<u>INSTITUTION</u>	<u>DEGREE</u>
1984	St. Augustine's Lyceum, Warsaw, Poland	BS equivalent (Major in Mathematics and Physics with Honors, Ranked 2 nd in a class of 100)
1991	Warsaw Medical University, Warsaw, Poland	MD (Magna cum laude, Ranked 3 rd in a class of 156)
1997	Postgraduate Center of Medical Education, Warsaw, Poland	PhD (Medicine)

II. POSTDOCTORAL TRAINING

<u>DATE</u>	<u>INSTITUTION</u>	<u>SPECIALTY</u>
1990	Massachusetts General Hospital, Boston, MA	Visiting Research Fellow, Pathology
1991 – 1992	Postgraduate Center of Medical Education, Mokotowski Hospital, Warsaw, Poland	Intern in Combined Internship Program (Internal Medicine, Ob-Gyn, Surgery and Pediatrics)
1992 – 1995	Massachusetts General Hospital, Boston, MA	Department of Pathology, Research Fellow,
1995 – 1997	Massachusetts General Hospital, Boston, MA	Clinical Pathology, Resident
1997	Massachusetts General Hospital, Boston, MA	Clinical Pathology, Chief Resident
1997 – 1998	Massachusetts General Hospital, Boston, MA	Blood Banking/Transfusion Medicine, Grove Rasmussen Fellow The Harvard Medical School Fellowship Program in Transfusion Medicine

III. PROFESSIONAL DEVELOPMENT ACTIVITIES

<u>DATES</u>	<u>INSTITUTION</u>	<u>TITLE</u>	<u>CREDITS</u>
N/A			

IV. ACADEMIC APPOINTMENTS

<u>DATE</u>	<u>INSTITUTION</u>	<u>TITLE</u>
1992 – 1995	Harvard Medical School, Boston, MA	Research Fellow
1995 – 1998	Harvard Medical School, Boston, MA	Clinical Fellow
1998 – 2006	Harvard Medical School, Boston, MA	Instructor in Pathology
2003 – 2006	Dartmouth Medical School, Hanover, NH	Assistant Professor of Pathology and of Medicine
2006 – 2019	Geisel School of Medicine at Dartmouth, Hanover, NH	Associate Professor of Pathology and of Medicine
2019 - present	Geisel School of Medicine at Dartmouth, Hanover, NH	Professor of Pathology and Laboratory Medicine; Professor of Medicine

V. INSTITUTIONAL LEADERSHIP ROLES:

<u>DATE</u>	<u>INSTITUTION</u>	<u>TITLE</u>
2003 – 2004	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Co-Director, Blood Bank and Transfusion Service
2003 – 2004	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Director, Cell Processing Laboratory, Dept. of Pathology
2004 – present	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Director, Cellular Therapy Center, Dept. of Pathology
2004 – present	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Medical Director, Transfusion Medicine Service, Dept. of Pathology & Lab Medicine
2008 – 2016	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Medical Director, Cell Labeling Laboratory, Dept. of Pathology
2008 – present	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Director, Transfusion Medicine Fellowship Program
2010 – 2013	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Associate Director, Pathology Residency Program
2010 – 2016	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Medical Director, Center for Transfusion Medicine Research
2010 – present	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Section Chief, Clinical Pathology / Laboratory Medicine
2011 – 2015	Geisel School of Medicine at Dartmouth, Hanover, NH	Elected Member, Faculty Council
2014 – present	Center for Synthetic Immunity, Geisel School of Medicine at Dartmouth, Hanover, NH	Scientific Advisory Board
2016 – present	Dartmouth-Hitchcock Medical Center, Lebanon, NH	Director, Transfusion Medicine Research Center (aka Cell Labeling Laboratory), Dept. of Pathology and Laboratory Medicine

VI. LICENSURE AND CERTIFICATION (IF APPLICABLE):

<u>DATE</u>	<u>LICENSURE/CERTIFICATION</u>
1992	Medical License, Poland
1993	FLEX Component 1 and 2
1998 – present	Medical License, Massachusetts, # 154 167, expires 05/11/2023
1999 – present	Clinical Pathology, The American Board of Pathology
2000 – present	Blood Banking/Transfusion Medicine, The American Board of Pathology
2003 – present	Medical License, New Hampshire, # 12041, expires 06/30/2023

VII. HOSPITAL APPOINTMENTS:

<u>DATES</u>	<u>INSTITUTION</u>	<u>POSITION/TITLE</u>
1998 – 2002	Massachusetts General Hospital, Boston, MA	Assistant in Pathology, Dept. of Pathology
2002 – 2003	Massachusetts General Hospital, Boston, MA	Assistant Pathologist, Dept. of Pathology
2003 – present	Massachusetts General Hospital, Boston, MA	Consultant, Dept. of Pathology
2003 – present	Mary Hitchcock Memorial Hospital, Lebanon, NH	Active Clinical Staff, Pathology and Laboratory Medicine; Department of Medicine
2004 – present	Dartmouth Cancer Center, Lebanon, NH	Investigator
2015 – present	Valley Regional Hospital, Claremont, NH	Provisional Active Staff (Surgery)
2015 – present	Alice Peck Day Memorial Hospital, Lebanon, NH	Associate Staff

VIII. OTHER PROFESSIONAL POSITIONS (NON-DARTMOUTH):

<u>DATES</u>	<u>INSTITUTION</u>	<u>POSITION/TITLE</u>
1998 – 2000	Massachusetts General Hospital, Boston, MA	Assistant Director, Blood Transfusion Service
2000 – 2003	Massachusetts General Hospital, Boston, MA	Associate Director, Blood Transfusion Service
2000 – 2003	Partners AIDS Research Center, Boston, MA	Director, MGH Immunotherapy Laboratory
2002 – 2003	Massachusetts General Hospital, Boston, MA	Laboratory Director, Bone Marrow Processing Laboratory, MGH Bone Marrow Transplantation Program, Dept. of Medicine
2000 – present	Foundation for the Accreditation of Cellular Therapy	Inspector for Collection and Processing Facilities (36 inspections)
2003 – present	National Marrow Donor Program	Director, Apheresis Center
2008 – 2009	Fenwal, Inc.	Scientific Advisory Board
2010 – 2015	National Marrow Donor Program	Director, Board of Directors

2010 – present	Fenwal, Inc. / Fresenius Kabi	Scientific Advisory Board
2011 – 2014	National Blood Foundation RET	Trustee, Board of Trustees
2013 – present	Grifols, Inc.	Medical Consultant
2014 – 2016	World Apheresis Association	Treasurer, Board of Directors
2016 – 2019	Institute of Hematology and Transfusion Medicine, Warsaw, Poland	Visiting Professor
2017 – 2018	National Blood Foundation RET	Trustee, Board of Trustees
2019 – present	ICCBBA, Inc	Director, Board of Directors
2019 – present	Grifols, Inc	Scientific Advisory Board – AMBAR
2019 – present	Institute of Hematology and Transfusion Medicine, Warsaw, Poland	Consultant
2020 – 2022	ICCBBA, Inc	Treasurer, Board of Directors
2022-	ICCBBA, Inc	Vice Chair, Board of Directors

IX. TEACHING ACTIVITIES:

Please append course reviews or other metrics (e.g., eVal) with your CV.
See attachment A

1. UNDERGRADUATE (COLLEGE) EDUCATION

NOT APPLICABLE

B. GRADUATE EDUCATION (List classes taught for Ph.D. and Masters students):

<u>DATES</u>	<u>INSTITUTION</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS</u>
1998	Northeastern University	Microbiology, “Retroviruses”	Lecturer		8
2001	Northeastern University	Medical Bacteriology, “Transfusion transmitted bacterial infections”	Lecturer		8

C. UNDERGRADUATE MEDICAL EDUCATION (Inclusive of both classroom teaching and medical student instruction in clerkships):

1985-1987	Teaching Assistant/ Tutor – Human Anatomy 15-20 Medical Students	Warsaw Medical School, Warsaw, Poland Responsible for Administration of 10 tests/year; 360 hours per year
1996-2003	Lecturer – Medicine, HMS III, Transfusion Medicine – An Overview 20-25 Medical Students	Harvard Medical School 16 hours per year

1998	Instructor, Laboratory part of course in Immunology, Microbiology and Infectious Diseases 20-25 Medical Students	Harvard Medical School 20 hours
1999-2003	Examiner, Objective Structured Clinical Examination (OSCE), Pathology Station 20 Medical Students	Harvard Medical School 8-12 hours per year
1999-2003	Lecturer, Pathology Course, Laboratory Medicine – Transfusion Medicine 30 Medical Students	Harvard Medical School 5 hours per year
2003-2006	Tutor/ Minicase Leader, Hematology Course 12 Medical Students	Harvard Medical School 12 hours per year
2003-2006	Lecturer, SBM Hematology – Transfusion Medicine lecture 80 Medical Students	Dartmouth Medical School 1-hour lecture per year
2004-present	Faculty, Pathology elective – Transfusion Medicine Rotation 1-2 Medical Students per rotation	The Geisel School of Medicine at Dartmouth 1-5 times per year; 30-40 hours per year
2007-2009	Lecturer, SBM Hematology – Transfusion Medicine lecture 80 Medical Students	Dartmouth Medical School One 2-hour lecture per year
2010-2019	Lecturer, SBM Hematology – Transfusion Medicine lecture 90 Medical Students	The Geisel School of Medicine at Dartmouth 1-hour lecture per year

D. GRADUATE MEDICAL EDUCATION (Inclusive of instruction of residents and fellows during clinical practice):

1996 – 1998	Lecturer, Clinical Pathology Lecture Series in Hematology 2-4 1 st and 2 nd year Pathology Residents	Massachusetts General Hospital 96 hours per year
1998 – 2003	Clinical Pathology Lecture Series in Transfusion Medicine 2-4 1 st and 2 nd year Pathology Resident; 1 TM Fellow	Massachusetts General Hospital Eight x hour lectures every 4 months
1999 – 2003	Medical Intensive Care Unit Lectures 10-12 1 st and 2 nd year Medicine Residents	Massachusetts General Hospital Four x hour lectures per year
2003 – 2006	Clinical Pathology	Massachusetts General Hospital

	2-4 1 st and 2 nd year Pathology Resident; 1 TM Fellow	Three x hour lectures every 4 months
2003 – 2008	Intensive Care Unit, Transfusion Medicine 10-14 1 st and 2 nd year Medicine, Surgery and Anesthesia residents; ICU fellows	Dartmouth-Hitchcock Medical Center 6 hours per year (monthly lectures shared with Dr. AuBuchon)
2003 – present	Pathology Elective for Anesthesiologists, Transfusion Medicine 3-6 1 st year Anesthesia Residents	Dartmouth-Hitchcock Medical Center 2-4 hours (year dependent)
2004 – present	Clinical Pathology, lectures in Transfusion Medicine 3-4 2 nd year Pathology Residents	Dartmouth-Hitchcock Medical Center 4-6 hours
2005	Surgery, Transfusion Medicine 15 1 st and 2 nd year Surgery Residents	Dartmouth-Hitchcock Medical Center One-hour lecture
2006-present	Vascular Surgery, Coagulation and Transfusion Medicine 10-14 1 st , 2 nd and 3 rd year surgery resident; vascular fellows; faculty	Dartmouth-Hitchcock Medical Center One hour per year
2007-present	Clinical Pathology 2-4 1 st and 2 nd year Pathology Resident; 1 TM Fellow	Massachusetts General Hospital One hour repeated every 3 months
2008-present	Hematology-Oncology Fellowship Lecture Series 4-6 1 st , 2 nd and 3 rd year heme-onc fellows	Dartmouth-Hitchcock Medical Center 2-3 lectures (2 hours) per year
2008-2011	Intensive Care Unit, Transfusion Medicine 10-14 1 st and 2 nd year Medicine, Surgery and Anesthesia residents; ICU fellows	Dartmouth-Hitchcock Medical Center One hour monthly; 12 hours per year
2010-2019	Internal Medicine, Transfusion Medicine 15-20 1 st year medicine residents	Dartmouth-Hitchcock Medical Center Once a year and once every 3 years (1-2 hours)(two lectures)

E. OTHER CLINICAL EDUCATION (e.g., PA programs)

NONE

X. ADVISING/MENTORING

A. UNDERGRADUATE STUDENTS

B. GRADUATE STUDENTS

C. NON-DEGREE PROGRAM STUDENTS (e.g., certificate programs, post-baccalaureate programs)

D. MEDICAL STUDENTS

E. RESIDENTS/FELLOWS

- 2006 – 2011 Erin K. Meyer, MD, MPH / Medical Director, Nationwide Children’s Hospital
Career stage: AP/CP Resident *Mentoring role:* residency advisor in TM
Accomplishments: Multiple publications, fellowship at Harvard Medical School
- 2007 – 2011 Justin D. Kreuter, MD / Medical Director TM, Mayo, Rochester MN
Career stage: AP/CP Resident *Mentoring role:* residency advisor in TM
Accomplishments: Multiple publications, fellowship in TM at Mayo
- 2008 – 2009 James D. Gorham, MD, PhD / Section Chief, University of Virginia
Career stage: fellow. *Mentoring role:* fellowship mentor *Accomplishments:* publications and setting up career in clinical transfusion medicine
- 2009 – 2010 Maria Teresa Bejarano, MD / Med Oncologist, Brigham and Women’s Hospital
Career stage: fellow. *Mentoring role:* fellowship mentor *Accomplishments:* publications and support in selecting fellowship in heme-onc
- 2010 – 2011 Melissa L. Petras, MD / Attending in TM; Quality, University of Buffalo
Career stage: resident, fellow. *Mentoring role:* fellowship mentor
Accomplishments: publications and support in identifying the best career pathway
- 2011 – 2012 Litchia Pinheiro Weber, MD / Physician, North Stamford Medical Associates
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* publications, platform presentations at ASFA and successful support in obtaining hospitalist position at our institution
- 2012 – 2013 Swaroopa Yerrabothala, MD / Asst Professor, Dartmouth Hitchcock Med Center
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* Publications, and successful support in obtaining heme-onc fellowship position at our institution
- 2013 – 2014 Mathew Katus, MD / Pathologist, Arrowhead Regional Medical Center, Colton, CA
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* Publications, and successful support in obtaining faculty position
- 2014 – 2015 Purva Sharma, MD / Fellow Heme-Onc, Univ of Vermont Medical Center
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* Publications, including a book chapter, and successful in obtaining fellowship appointment at University of Vermont Medical Center;
- 2015 – 2016 Caroline Alquist, MD, PhD / Medical Director, TM, Ochsner Clinic
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* Publications and successful in obtaining faculty position at Ochsner Clinic and professional involvement at AABB; best poster award at ASFA

- 2016 – 2017 Isabella Martin, MD / Director Microbiology, Dartmouth-Hitchcock Medical Center
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* Publications and successful promotion to Medical Director of Microbiology
- 2017 – 2018 Reggie Thomasson, MD / Director, TM, Boston Medical Center
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* Publications and successful in obtaining faculty position at BMC
- 2018 – 2019 Luke Plumier, MD / Attending, TM, Bilings Clinic, Montana
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* Publications in preparation and successful in obtaining faculty position.
- 2019 – 2020 Jenna Khan, MD / Fellow, TM Dartmouth-Hitchcock Medical Center
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* Faculty position at DHMC; publications
- 2020 - 2021 Kristen Ruby, DO / Fellow, TM Dartmouth-Hitchcock Medical Center
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* Faculty position at MGH; publications.
- 2022 – present Freddy Nguyen, MD, PhD / Fellow, TM Dartmouth-Hitchcock Medical Center
Career stage: fellow. *Mentoring role:* fellowship advisor. *Accomplishments:* .

F. FACULTY

- 2010 – present Nancy M. Dunbar, MD / Assoc Prof, Dartmouth-Hitchcock Medical Center
Career stage: faculty. *Mentoring role:* faculty advisor *Accomplishments:* publications and prominent role in the field of transfusion medicine nationally and internationally
- 2020 – 2022 Jenna Khan, MD / Asst Prof, Dartmouth-Hitchcock Medical Center
Career stage: faculty. *Mentoring role:* faculty advisor *Accomplishments:* publications;

G. ADDITIONAL INFORMATION

CONTINUING MEDICAL EDUCATION:

<u>DATES</u>	<u>NAME OF COURSE/ACTIVITY</u>	<u>ROLE</u>	<u>FREQUENCY</u>	<u>HOURS</u>
2001	AABB/ISHAGE Audioconference, Cord Blood Transplantation	Lecturer	Once	
2002	AABB Audioconference, 3 rd edition of HPC Standards	Lecturer	Once	
2005	AABB Audioconference, 1 st edition of Cellular Therapy Standards	Lecturer	Once	
2007	AABB Audioconference, 2 nd edition of Cellular Therapy Standards	Lecturer	Once	

2007	AABB Audioconference, ASFA/Cellular Therapy Topics	Lecturer	Once	
2007	ASCP Audioconference, Stem Cell Collections – The Newest Blood Bank Component	Lecturer	Once	
2008	Therapeutic Apheresis in Nephrology	Lecturer	Once	1.5
2009	AABB Audioconference, BEST Collaborative and Cellular Therapy	Lecturer	Once	
2009	Therapeutic Apheresis in Rheumatology, Rheumatology GR	Lecturer	Once	1
2009	Blood Safety in the US (Delegation from Kyrgyzstan)	Lecturer	Once	1
2010	ASFA Audioconference, New Apheresis Guidelines	Lecturer	Once	
2019	AABB Webinar	Lecturer	Once	1
///	/// update			

XI. RESEARCH TEACHING/MENTORING

A. UNDERGRADUATE STUDENTS

B. GRADUATE STUDENTS

C. MEDICAL STUDENTS

D. RESIDENTS/FELLOWS/RESEARCH ASSOCIATES

I have developed research projects with several of our trainees both at Dartmouth and Massachusetts General Hospital as well as research associates and healthcare providers. The list below excludes Transfusion Medicine Fellows and Faculty who are listed above.

Residents:

Eichbaum, QG

Agrawal, YP

Best, CA

Greene, MR

Linnik, YA

Ruby, KN

Meyer, EK Dr. Meyer received the best abstract in neurology 2007 and presented during the abstract plenary session.

Kreuter, Justin

Scott, SM

Technologists:

Bushnell, KM
Webber, S

Nurses:

Dobrusin, I
Ritzenthaler, J
Pavelka, MJ
Weber, SM
Klinker, K
McGregor, DJ
Didehbani, TS
Maynard, KJ
Martin, CLB

Undergraduate:

Walsh, SJ

E. FACULTY

XII. COMMUNITY SERVICE, EDUCATION, AND ENGAGEMENT:

XIII. RESEARCH FUNDING:

A. CURRENT SUPPORT

- 2015 - ongoing Evaluation of Plasma Exchange in ALS patients
Grifols, Inc
Co-Investigator (PI: E. Stommel)
The role of plasma exchange in treatment of ALS patients is being evaluated by long term (24 weeks) treatment with TPE. The patients are evaluated on progression of the disease but primarily on changes in biochemical markers during plasma exchange. The total study will have 10 evaluable patients.
- 2019 - ongoing MATX-004
Fresenius - Kabi
Site-PI
The primary objective of this sponsored study is to compare different types of plastic used for collection and storage of blood components. The evaluation involves comparison of basic characteristics of stored blood.
- 2019 ongoing Cytosorbent
Site-PI
- 2021-ongoing EryDel
Site-PI

B. PAST SUPPORT

- 2002-2003 In-vivo induction of HIV specific CTL by dendritic cells
NIH 5 R01 A144628-04
Consultant (PI: N. Bhardwaj)
The last part of this multi-year project was to generate autologous dendritic cells from the patients who received HAART at the acute phase of HIV infection. The dendritic cells, cultured from the patient's monocytes, were then exposed to selected peptides, matured and injected to the patients. The immune responses were monitored.
- 2003 - 2004 Dendritic cell vaccine therapy in melanoma
Hitchcock Foundation Grant
Co-Investigator (PI: M. Ernstoff)
The primary goal of this study was to investigate patients' response to autologous dendritic cells exposed to patient's tumor lysate obtained from metastases. This "cancer vaccine" was used in parallel to patient's primary treatment.
- 2003 - 2008 Immunotherapy of renal cell carcinoma
NIH 1 R01 CA095648
Co-Investigator (PI: M. Ernstoff)
In this study the primary objective as to investigate combined immunotherapy of high dose IL-2 with autologous dendritic cells exposed to tumor lysate obtained from patient's primary tumor. The primary outcome was survival and disease recurrence
- 2003-2010 Cellular Therapy Products, exploratory in vitro studies

Department of Pathology, DHMC
Principal Investigator

The funding provided support for several in vitro studies related to culture and storage of dendritic cells, lymphocytes and monocytes. Funding also supported studies performed in the context of the BEST Collaborative.

- 2005-2007 Randomized sham controlled trial of column treatment in Crohn's disease
Otsuka
Site Co-Principal Investigator
This was phase III randomized controlled trial with sham apheresis procedures performed in the control arm evaluating safety and effectiveness of the Adacolumn device. The objective of this study was to utilize granulocyte column manufactured by Otsuka in the patients with moderate Crohn's disease as the secondary therapy.
- 2005-2008 Lymphodepletion and Adoptive Immunotherapy for Transplanted Myeloma Patients
Leukemia & Lymphoma Society (6061-06) (2005-2008)
Co-Investigator (PI: K. Meehan)
The goal of this study was to evaluate the response of patients with myeloma who received autologous transplant to autologous expanded lymphocytes. The immune response as well as overall survival were studied.
- 2007 - 2008 US, Clinical evaluation of cymbal unfiltered with PVC container storage
Haemonetics Corp
Co-Investigator (PI: L. Dumont)
This study evaluated a new blood collection device in the population of healthy subjects. The red blood cell survival and recovery in combination with other in vitro factors were evaluated. The results of this study served as the scientific support for 510k application to FDA.
- 2007 - 2010 The use of dendritic cell vaccine in patients with glioblastoma multiforme.
Family Foundation
Co-Investigator (PI C. Fadul)
The goal of this study was to generate autologous dendritic cells which were primed with the tumor lysate from patients with GM. The cells were injected into the neck lymph nodes and their impact on disease progression studied.
- 2007 - 2012 Validation of Methods for Platelet Cryopreservation, Storage and Reconstitution and Validation of In vivo Survival of Cryopreserved Platelets
US Army Medical Material Development Program
Co-Investigator (PI: L. Dumont)
The primary goal of this study was to show that platelets can be successfully cryopreserved and thawed with clinically relevant survival in the circulation of healthy subjects. This was the primary study which led to clinical studies in the use of cryopreserved platelets.
- 2008 - 2009 Mesenchymal stem cells in Crohn's disease
Osiris
Site Co- Investigator (PI: G.Levine)
This study looked focused on the use of allogeneic mesenchymal stem cells in the patients with mild to moderate Crohn's disease. The manufacturer of the cells, Osiris

Therapeutics later acquired by Mesoblast, provided the product which was then injected to our patients. The clinical outcomes were followed.

- 2008 - 2010 BEST 25 Buffy Coat Platelets
BEST & Department of Pathology
Co-Investigator (PI: L. Dumont)
A recent review concluded that there was inadequate evidence to show a difference between buffy coat (BC) and platelet (PLT)-rich plasma (PRP) PLT concentrates prepared from whole blood. We hypothesized that 7-day-stored BC-PLTs would have superior autologous recoveries and survivals compared to PRP-PLTs and that both would meet the Food and Drug Administration (FDA) criteria for poststorage viability
- 2008 - 2011 Exploratory in vitro study of red blood cell storage container
BASF Corporation
Co-Investigator (PI: L. Dumont)
The BASF Corporation developed a new red blood cell storage container. Our laboratory analyzed the impact on this device on in vitro characteristics of erythrocytes.
- 2008 - 2012 Automated whole blood collection using the Tacura Separator system with in vitro and in vivo evaluation of prepared leukoreduced AS-5 RBCs and CPD plasma.
Terumo Corporation
Co-Investigator (PI: L. Dumont)
This study evaluated the impact of a new blood separator and RBC additive solution on in vitro and in vivo characteristics of erythrocytes. The red blood cell survival and recovery in combination with other in vitro factors were evaluated. The results of this study served as the scientific support for 510k application to FDA.
- 2008 - 2013 BCT08-10TrimaV.6pltRL: Trima Accl Version 6.0 for the Collection, Dilution and 5-day Storage of Hyperconcentrated Platelets in Isolyte®S pH 7.4
CaridianBCT (after 2011 Terumo BCT)
Co-Investigator (PI: L. Dumont)
This study focused on the impact of new version of cell separator on platelet product. The platelets were resuspended in higher concentration and in platelet additive solution. The work served to support 510k submission.
- 2008 - 2013 A randomized, single-blind, controlled, 2-period crossover study of recovery and lifespan of radiolabeled autologous 35-day-old red blood cells prepared with S-303
Cerus Corporation
Co-Investigator (PI: L. Dumont)
Pathogen inactivation methods rely on psoralen like molecules, in this study S-303. Their impact on RBC structure is being studied to move the product to larger clinical studies. In this study healthy subjects were transfused with red blood cells treated with S-303 and untreated and the impact of S-303 on recovery and survival as well as alloimmunization was studied.
- 2008 - 2013 Collaborative MS Research Center Award
National Multiple Sclerosis Society
Co-Investigator (PI: LH Kasper)
In this study the role of regulatory T cells on progression and clinical outcomes in multiple sclerosis were studied. The study envisioned preparation of autologous regulatory T cells in vitro with infusion in vivo to evaluate their impact.

- 2009 - 2012 Development and validation of cGMP process for the preparation, storage and distribution of cryopreserved platelets (CPP) for transfusion
Subcontract "Clinical Research Management" with the United States Army Medical Research Acquisition Activity (USMARAA) Sponsor: The Department of the Army's Office of the Surgeon General (2009-2012)
Sub-Investigator 5% (PI: L. Dumont)
This study was continuation of previous work on cryopreserved platelets. The primary objective was to create the process to manufacture cryopreserved platelets in cGMP environment. The product were tested both in vitro and in vivo including healthy subjects.
- 2010 - 2012 Melanoma-specific T central memory cells for use in clinical trials.
Cancer Center Developmental Funds (Pilot Projects)
Co-Investigator (PI: M. Ernstoff)
This study was initiated to evaluate the use of T cells expanded in vitro as an adjuvant in treatment of patient with metastatic melanoma. This was a pilot study, which did not lead to clinical trial due to departure of the PI.
- 2010-2014 Comparison of different photopheresis instruments in generation of apoptosis in healthy subjects
Therakos, Inc
Co-Principal Investigator (Co-PI SH. Abhyankar)
The primary goal was to show that the apoptosis observed in the mononuclear cells after treatment with photoactivation and psoralen is independent of the cells being collected by apheresis. Two different devices were studied and analysis in vitro on the in vivo collected cell was performed.
- 2014 - 2017 Phase I dose escalation in frozen platelet transfusion in blood patients
Department of Defense
Site-PI, (PIs S Slichter, J Cancelas, L Dumont)
This is a multicenter phase I clinical study where cancer patients with grade I/II bleeding received cGMP manufactured (Dartmouth) cryopreserved platelets. The dose of platelets was escalated from half unit to 3 units in cohort design with single patient control. The study primary focus was safety, which was shown, though also some efficacy was appreciated as well.
- 2016 - 2017 Evaluation of amotasalen treated platelets
Cerus Inc
Site-PI
Goal of this study was to evaluate the impact on amotasalen on platelet function and survival in healthy subjects.
- 2017 - 2021 Phase I thrombosome use in bleeding patients.
Cellphire Inc, funding provided by BARDA
Site-PI
The primary goal of this study is to determine safety of thrombosomes (lyophilized platelets) in thrombocytopenic bleeding patients. The study design includes 4 cohorts and 4-6 study sites. The collected data will lead to pivotal study.

C. PENDING SUPPORT

XIV. PROGRAM DEVELOPMENT (List any educational, clinical or research entities at Dartmouth that were created or notably advanced by your efforts):

Apheresis:

I introduced extracorporeal photopheresis into clinical practice in our institution. The program has grown to over 500 procedures per year, providing the patients in Northern New England with access to this important therapeutic modality. My involvement in apheresis also resulted in clinical trials in apheresis for patients with Crohn's disease, ALS and Alzheimer's disease, as well as in vivo studies in photopheresis. In 2018, we have introduced another apheresis modality, namely lipoprotein apheresis as one of only few centers offering this therapy in New England.

Clinical Transfusion Medicine

Our transfusion medicine service also has been in the forefront of clinical developments. We were one of the first nationwide to introduce enhanced screening for bacterial contamination in platelets with extension of platelet shelf-life to seven days, now widely recognized as one of the alternatives to currently used systems. Similarly, working with our trauma surgeons, we were able to introduce new, robust supports for hemorrhaging trauma victims. The protocol we developed, named the Trauma Activated Transfusion Algorithm, has had a significant impact on the quality of care we provide to our patients. It has improved the delivery of blood products and shortened the time between a patient's presentation to the ED and availability of the first blood components for transfusion.

In 2004 Dr. AuBuchon and I spearheaded opening of our new blood donor program which supports our clinical effort. Our collection activities help to provide more boutique blood components such as HLA matched platelets for our highly alloimmunized patients.

I have also introduced measurement of peripheral blood CD34 prior to collection of HPCs, which led to a significant decrease in the number of collections per transplanted patient.

Cellular Therapy Center

At Dartmouth, I have been instrumental in creating the Cellular Therapy Center (CTC) which supports studies in immunotherapy using cellular products. We have performed clinical studies of dendritic cells in several clinical conditions including melanoma, renal cell carcinoma and glioblastoma multiforme. We have also introduced and published new culture conditions which make it easier to scale up for future clinical trials. Over the last year we also worked on development of new facility to accommodate new cellular therapy products inclusive of CAR-T cells.

Teaching and Education

I established the Transfusion Medicine fellowship in our department (now with the 11th Fellow). I teach residents and fellows during our clinical work, but also provide opportunities for our trainees to do research and share their results through publications. We have introduced several advancements in the education of our residents/fellows, including weekly quizzes in laboratory medicine. I am involved in teaching in Poland as well as in the establishment of a new conference in the UAE (the BEST of AABB).

XV. ENTREPRENEURIAL ACTIVITIES (List any patents, licenses or other entrepreneurial activities):*NONE***XVI. MAJOR COMMITTEE ASSIGNMENTS:****National/international**

<u>DATES</u>	<u>COMMITTEE</u>	<u>ROLE</u>	<u>INSTITUTION</u>
1999 – 2003	Cellular Therapy Committee	Vice-Chair	AABB
2001 – 2002	HPC Standards Program Unit	Chair	AABB
2001 – 2002	Circular of Information for HPC, Multi-organizational Committee	Co-Chair	AABB
2002 – 2007	Cellular Therapy Standards Program Unit	Chair	AABB
2003 – 2004	Board of Directors	Director	American Society for Apheresis
2004 – 2007	Clinical Applications and Standard Committee	Chair	American Society for Apheresis
2004 – 2007	Board of Directors	Treasurer	American Society for Apheresis
2004	SBIR Section ZRG1 HEME-B (10)	Ad-hoc Member	NIH
2004 – 2005	Cellular Therapy Team	Associate Scientific Member	BEST Collaborative
2004 – 2010	Standards Committee	Chair	National Marrow Donor Program
2005 – 2007	Circular of Information for Cellular Therapy Products, Multi-organizational Task Force	Chair	AABB
2005	SCCOR Review Group (Transfusion Medicine)	Member	NHLBI
2005 – 2006	Collection Standards Committee	Vice-Chair	FACT
2005 – 2018	Cellular Therapy Team and Member, Executive Committee	Co-Leader	BEST Collaborative
2006 – 2008	Northeast Representative, Nominating Committee	Member	AABB
2006 – 2010	Executive and Advisory Committee (equivalent to Board of Directors)	Nominated Member (representing collection sites)	CIBMTR

2007 – 2008	Board of Directors	Vice-President	American Society for Apheresis
2007 – 2009	Clinical Applications and Standard Committee	Vice-Chair	American Society for Apheresis
2007 – 2010	Circular of Information for Cellular Therapy Products, Multi-organizational International Task Force	Chair	AABB
2007 – present	SBIR Section ZRG1 HEMED (10)	Ad-hoc Member	NIH (17 review sessions)
2008 – 2009	Board of Directors	President-elect	American Society for Apheresis
2008 – 2009	Scientific Advisory Board	Member	Fenwal Inc.
2008 – 2009	30th Annual Meeting Organizing Committee	Chair	American Society for Apheresis
2009	Reviewer Special Emphasis Panel/Scientific Review Group 2009/10 ZHL1 CCT-I (C1/C2)	Production Assistance for Cellular Therapies	NHLBI
2009	State of the Science in Transfusion Medicine	Co-Chair of subcommittee	NHLBI
2009 – 2010	Board of Directors	President	American Society for Apheresis
2009 – 2018	Board of Directors	Director	AABB
2010 – 2011	Board of Directors	Immediate Past President	American Society for Apheresis
2010 – 2011	Nominating Committee	Chair	American Society for Apheresis
2010 – 2011	Past Presidents Advisory Council	Chair	American Society for Apheresis
2010 – 2020	New Technologies and Opportunities Advisory Group	Chair	National Marrow Donor Program
2010 – 2015	Board of Directors	Director	National Marrow Donor Program
2010 – present	Scientific Advisory Board	Member	Fenwal, Inc / Fresenius Kabi
2011 – 2013	Board of Directors	Chair	National Marrow Donor Program
2011 – 2013	Development Committee Executive Committee, Board of Directors	Treasurer (Chair of the Finance Committee)	AABB
2011 – 2014	Board of Trustees	Trustee	National Blood Foundation RET
2012 – 2013	International Committee	Vice-Chair	American Society for Apheresis

2012	State of the Science in Apheresis Medicine	Co-Chair	NHLBI
2012 – 2013	CEO Search Committee	Member	AABB
2012 – present	NHLBI Transfusion Medicine SEP [ZRG1 VH-F(50)S]	Member	NHLBI (5 sessions)
2013 – 2015	International Committee	Chair	American Society for Apheresis
2012 – 2013	Executive Committee, Board of Directors	Secretary	National Marrow Donor Program
2012 – 2014	Compensation Committee	Member	National Marrow Donor Program
2013 – 2014	Executive Committee, Board of Directors	Secretary	AABB
2013 – 2014	Audit and Ethics Committee	Chair	AABB
2014 – 2015	Executive Committee, Board of Directors	Vice-President	AABB
2014 – 2015	Human Resource Committee	Chair	AABB
2014 – 2016	Board of Directors	Treasurer	World Apheresis Association
2014 – present	Cellular Therapy Laboratory Advisory Group (CTCLAG)	Chair	ICCBBA
2014 – present	Standards Committee of ICCBBA	Member	ICCBBA
2014 – 2016	Finance Committee	Member	National Marrow Donor Program
2015 – present	ACBTSA Subcommittee on US Blood Sustainability	Member	US Department of Human and Health Services
2015- 2018	Ad hoc Task Force – Risk Based Decision Making – Babesiosis	Chair	AABB
2015- 2016	Governance Committee	Chair	AABB
2015 -2016	Executive Committee, Board of Directors	President-Elect	AABB
2015	Special Emphasis Panel/Scientific Review Group 2015/08 ZHL1 CSR-B (S1) and (S3)	Reviewer	NIH CSR

Regional

<u>DATES</u>	<u>COMMITTEE</u>	<u>ROLE</u>	<u>INSTITUTION</u>
2008 – present	Medical Advisory Committee	Member	American Red Cross Blood Services, New England Region

Institutional

<u>DATES</u>	<u>COMMITTEE</u>	<u>ROLE</u>	<u>INSTITUTION</u>
1998 – 2003	Transfusion Committee	Member	MGH, Boston, MA
1998 – 2003	Laboratory Medicine Clinical Advisory Committee	Member	MGH, Boston, MA
2000 – 2003	Internet Strategy Committee, Dept. of Pathology	Member	MGH, Boston, MA
2001 – 2003	Steering Committee, Dept. of Pathology, Division of Molecular Pathology and Research	Member	MGH, Boston, MA
2003 – 2004	Transfusion Committee	Member	Dartmouth-Hitchcock Medical Center, Lebanon, NH
2003 – present	Allogeneic BMT Working Group	Member	Dartmouth-Hitchcock Medical Center, Lebanon, NH
2004	Search Committee for Academic Hematopathologist, Dept. of Pathology	Chair	Dartmouth-Hitchcock Medical Center, Lebanon, NH
2005	Search Committee for Director of Cell Labeling Laboratory, Dept. of Pathology	Chair	Dartmouth-Hitchcock Medical Center, Lebanon, NH
2005 – present	Transfusion Committee	Chair	Dartmouth-Hitchcock Medical Center, Lebanon, NH
2007 – 2008	Search Committee for Clinical Chemistry Director, Dept. of Pathology	Chair	Dartmouth-Hitchcock Medical Center, Lebanon, NH
2007 – 2012	Trauma Improvement Quality Program	Member	Dartmouth-Hitchcock Medical Center, Lebanon, NH
2008 – present	GME Advisory Committee	Member	Dartmouth-Hitchcock Medical Center, Lebanon, NH
2010 – 2013	Residency Program, Dept. of Pathology	Associate Director	Dartmouth-Hitchcock Medical Center, Lebanon, NH
2012 – 2015	Faculty Council	Pathology representative	Geisel School of Medicine
2013 – 2015	Faculty Council – Finance Committee	Member	Geisel School of Medicine
2013- present	Residency Program, Dept of Pathology and Laboratory Medicine	Member	Dartmouth-Hitchcock Medical Center, Lebanon, NH

2015 – present	Radiation Safety Committee	Member	Dartmouth-Hitchcock Medical Center, Lebanon, NH
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XVII. MEMBERSHIPS, OFFICE AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

<u>DATES</u>	<u>SOCIETY</u>	<u>ROLE</u>
1989 - present	Royal Society of Medicine, London, UK	Fellow
1993 – present	American Association for the Advancement of Science (AAAS)	Member
1995 – present	AABB (formerly American Association of Blood Banks)	Member
1995 – present	College of American Pathologists (CAP)	Fellow (FCAP)
1995 – present	Massachusetts Medical Society (MMS)	Member
1996 – 2001	American Society of Clinical Pathologists (ASCP)	Fellow
1996 – present	American Society for Apheresis (ASFA)	Member
1997 – 1998	College of American Pathologists (CAP)	Resident Member, Transfusion Transmitted Viruses Resource Committee
1997 – 1999	Massachusetts Medical Society (MMS)	Member, Committee on International Medical Graduates
1998 – 1999	Massachusetts Medical Society (MMS)	Alternate Delegate, House of Delegates
1998 – 2002	American Society of Clinical Pathologists	National Contributor to ASCP Resident in Service Exam (RISE)
1999 – present	International Society for Cell Therapy (ISCT) (formerly International Society for Hemotherapy and Graft Engineering (ISHAGE))	Member
2000 – 2002	AABB	Liaison, Cord Blood Standard Committee, involved in writing the first edition of AABB standards for Cord Blood facilities
2000 – 2002	AABB	Liaison, Hematopoietic Progenitor Cell Standard Committee, involved in writing the third edition of AABB standards for HPC facilities
2000 – 2002	AABB	Liaison, Hematopoietic Progenitor Cell Accreditation Program,

		involved in writing the assessment tool for HPC and Cord Blood Banks
2000	American Society for Apheresis	Moderator, Abstract Sessions
2000 -2004	American Society for Apheresis	Member, Standards and Clinical Applications Committee
2000 – present	Foundation for the Accreditation of Cellular Therapy (FACT) [formerly Foundation for the Accreditation of Hematopoietic Cell Therapy (FAHCT)]	Inspector for Collection and Processing Facilities (36 inspections as of 09/2022)
2001 – 2002	AABB	Member, Hemapheresis Committee
2001	AABB	Moderator, Facilitator, RAP session on cellular therapies, Annual Meeting, San Antonio, TX
2001 – present	AABB	Abstract Reviewer, Annual Meetings
2002	AABB	Moderator and Session Director – Somatic Cell Therapies, Annual Meeting 2002, Orlando, FL
2003	AABB	Moderator and Session Director – Regenerative Medicine, Annual Meeting 2003, San Diego, CA
2003	American Society for Apheresis	Scientific Session Chair – 24 th Annual Meeting, Lake Tahoe, CA
2003	Foundation for the Accreditation of Cellular Therapy	Member, Guidance Committee
2003 – 2007	AABB	Consultant, Cellular Therapies Committee
2003 – present	American Society of Hematology (ASH)	Member
2003 – present	National Marrow Donor Program (NMDP)	Director, Apheresis Center
2004	AABB	Liaison, NMDP Standards Committee
2004 – 2018	The Biomedical Excellence for Safer Transfusion (BEST) Collaborative	Member, Cellular Therapy Team
2004 – 2012	National Marrow Donor Program	Member, Standards Committee
2004 – present	American Society for Apheresis	Moderator, Abstract Sessions, Annual Meeting
2004 – present	International Society for Blood Transfusion (ISBT)	Member
2005 – 2018	The Biomedical Excellence for Safer Transfusion (BEST) Collaborative	Co-Leader CT Team and Executive Committee Member

2005 – 2008	Foundation for the Accreditation of Cellular Therapy	Standards Committee, Member
2005 – 2006	Foundation for the Accreditation of Cellular Therapy	Standards Committee, Collection Subcommittee, Vice-Chair
2005 – 2006	Foundation for the Accreditation of Cellular Therapy	Member, Standards Oversight Committee
2005 – 2006	Foundation for the Accreditation of Cellular Therapy	Vice-Chair, Collection Standards Committee
2005 – 2007	International Society for Cell Therapy	Member, NonHomologous Use Working Group (representing ASFA)
2005 – 2007	AABB	Member, Uniform Donor Questionnaire for HPC Donors
2005 – 2009	AABB	Member, Oversight Committee for Cellular Therapy
2005 – 2011	College of American Pathologists	Member, Transfusion Medicine Resource Committee
2005 – 2018 2006	American Society for Apheresis International Society for Cell Therapy	Member, Abstract Committee Member, Organizing Committee of Somatic Cell Meeting 2006
2006 – 2008	AABB	Member, Northeast Representative, Nominating Committee
2006 – 2009	American Society for Apheresis	Faculty, Clinical Rounds, Annual Meeting
2006 - 2010	Center for International Bone Marrow Transplant Research (CIBMTR)	Nominated Member (representing collection sites) Executive and Advisory Committee (equivalent to Board of Directors)
2006 – 2015	American Society for Apheresis	Member, Resident and Fellows Training Ad Hoc Committee
2006 – 2015	American Society for Apheresis	Liaison ISBT 128 Technical Advisory Group (ICCBBA)
2007	AABB	Moderator and Session Director – Cancer Vaccines and Immunotherapy, Annual Meeting 2007, Anaheim, CA
2007 - 2008	American Society for Apheresis	Vice-President, Board of Directors
2007 – 2008	Foundation for the Accreditation of Cellular Therapy	Standards Committee, Processing Subcommittee, Member
2007 – 2009	American Society for Apheresis	Vice-Chair, Clinical Applications and Standard Committee
2007 – 2009	AABB	Member, Cellular Therapy Committee

2007 – 2010	AABB	Chair, Circular of Information for Cellular Therapy Products, Multi-organization International Task Force
2007 – 2012	Foundation for the Accreditation of Cellular Therapy	Member, Professional Relations Committee
2008	AABB	Moderator, Session Director and Presenter – Interlaboratory Proficiency Testing in Cellular Therapy, Annual Meeting 2008, Montreal, QC
2008	AABB	Moderator and Presenter – Practice in Cellular Therapy Laboratory, Annual Meeting 2008, Montreal, QC
2008	American Society of Hematology	Reviewer, Abstract Committee
2008 – 2009	American Society for Apheresis	President-elect, Board of Directors
2008 – 2009	American Society for Apheresis	Chair, 30 th Annual Meeting Organizing Committee
2008 – 2014	College of American Pathologists	Member, FDA Liaison Committee (hosted by ISCT)
2008 – present	American Society for Apheresis	Member, Apheresis Applications Committee
2009	NHLBI	Co-Chair of Subcommittee, State of the Science in Transfusion Medicine
2009	AABB	Moderator; Presenter – RAP Session on infusion of CT Products; Annual Meeting 2009, New Orleans, LA
2009	AABB	Moderator – “Speed Dating” on Cellular Therapy Topics; Annual Meeting 2009, New Orleans, LA
2009 – 2010	American Society for Apheresis	President, Board of Directors
2009 – 2018	AABB	Director, Board of Directors
2009 – present	International Society for Blood Transfusion	Member, Infectious Disease Working Group; Bacteria Group
2009 – 2018	International Society for Blood Transfusion	Member, Apheresis Working Group (discontinued in 2018)
2010 – 2011	American Society for Apheresis	Immediate Past President, Board of Directors
2010 – 2011	American Society for Apheresis	Chair, Nominating Committee
2010 – 2011	American Society for Apheresis	Chair, Past Presidents Advisory Council

2010 – 2012	College of American Pathologists	Member, Module 2, Transformation Team
2010 – 2012	American Society for Apheresis	Member, International Affairs Committee
2010 – 2012	American Society for Apheresis	Liaison to World Apheresis Association (WAA); Councilor
2010 – 2020	National Marrow Donor Program	Chair, New Technologies and Opportunities Advisory Group
2011 – 2013	AABB	Treasurer (Chair the Finance Committee), Executive Committee, Board of Directors
2011 – 2015	National Marrow Donor Program	Member, Board of Directors Development Committee
2011 – 2013	National Marrow Donor Program	Chair, Board of Directors Development Committee
2011 – present	ICCBBA, Inc.	Member, Cellular Therapy Laboratory Advisory Group
2011 – present	International Collaboration for the Development, Implementation, Evaluation of Guidelines for Transfusion Therapies (ICTMG)	Member (elected)
2012	American Society of Hematology	Reviewer, Abstract Committee/Education Book
2012	NHLBI	Co-Chair, State of the Science in Apheresis Medicine
2012 – 2013	American Society for Apheresis	Vice-Chair, International Committee
2012 – 2013	AABB	Member, CEO Search Committee
2012 – 2013	National Marrow Donor Program	Secretary, Executive Committee, Board of Directors
2012 – 2014	National Marrow Donor Program	Member, Compensation Committee
2013 – 2014	AABB	Secretary, Executive Committee, Board of Directors
2013 – 2014	AABB	Chair, Audit and Ethics Committee
2013 – 2015	American Society for Apheresis	Chair, International Committee
2013 – present	International Society for Blood Transfusion	Member, Cellular Therapy Working Group
2014 – 2015	AABB	Vice-President, Executive Committee, Board of Directors
2014 – 2015	AABB	Chair, Human Resource Committee
2014 – 2016	National Marrow Donor Program	Member, Finance Committee
2014 – present	ICCBBA, Inc.	Chair, Cellular Therapy Laboratory Advisory Group

2014 – present	ICCBBA, Inc.	Member, Standards Committee
2015 – 2016	AABB	Chair, Governance Committee
2015 – 2016	AABB	President-Elect, Executive Committee, Board of Directors
2015 – 2017	AABB	Chair, Ad hoc Task Force – Risk Based Decision Making – Babesiosis
2015 – present	International Collaboration for the Development, Implementation, Evaluation of Guidelines for Transfusion Therapies (ICTMG)	Member, Dissemination Committee
2015 – present	American Society for Apheresis	Member, International Committee
2015 – present	US Department of Human and Health Services	Member, ACBTSA Subcommittee on US Blood Sustainability
2016 – 2017	AABB	President, Executive Committee, Board of Directors
2017 – 2018	AABB	Chair, CEO Search Committee
2017 – present	Polish Society of Haematology and Transfusion Medicine (PTHIT)	Member
2017 – 2019	AABB	Member, Guidance Harmonization Working Group (AABB representative)
2017 – 2018	AABB	Immediate Past President, Executive Committee, Board of Directors
2017 – 2018	The Biomedical Excellence for Safer Transfusion (BEST) Collaborative	Chair-Elect
2018 – 2022	The Biomedical Excellence for Safer Transfusion (BEST) Collaborative	Chair, Executive Committee
2018	American Society of Hematology	Moderator, Transfusion Medicine Educational Session
2018 – 2019	AABB	Chair, Nominating Committee
2018 – present	College of American Pathologists	Member, Transfusion, Apheresis and Cellular Therapy Committee (TACT) (previously Transfusion Medicine Resource Committee)
2018 – present	International Collaboration for the Development, Implementation, Evaluation of Guidelines for Transfusion Therapies	Co-Chair, Editorial Committee
2018 – present	International Collaboration for the Development, Implementation, Evaluation of Guidelines for Transfusion Therapies	Member, Executive Committee
2022 – present	The Biomedical Excellence for Safer Transfusion (BEST) Collaborative	Treasurer, Board of Directors

XVIII. EDITORIAL BOARDS:

<u>DATES</u>	<u>SOCIETY</u>	<u>ROLE</u>
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2004 – present	Journal of Clinical Apheresis	Associate Editor
2008 – present	Journal of Transfusion Medicine (Warsaw)	Member
2008 – present	Journal of Translational Medicine (Cellular Therapy)	Member
2011 – present	Vox Sanguinis	Editor (Reviews)
2011 – present	Acta Hematologica Polonica	Member
2012 – present	Drugs and Cell Therapies in Hematology	Section Editor
2014 – present	Vox Sanguinis	Editor (Cell Therapy)
2014 – present	Faculty 1000	Section Editor, Hematology
2020 – present	Plasmatology	Associate Editor

XIX. JOURNAL REFEREE ACTIVITY:

<u>DATES</u>	<u>JOURNAL NAME</u>	<u>ANNUAL FREQUENCY OF REVIEW</u>
	Archives of Internal Medicine (JAMA group)	
	Blood	
	Bone Marrow Transplantation (Nature group)	
	Cytotherapy	
	Journal of American Medical Association (JAMA)	
	Journal of Clinical Apheresis	
	Polish Archives of Internal Medicine	
	Transfusion	
	Transfusion Medicine	
	Transfusion Medicine Reviews	
	Vox Sanguinis	
Non journal	Harvard / Center for Integration of Medicine and Innovative Technology	
Non journal	NHLBI SMARTT Reviewer	

XX. AWARDS AND HONORS:

<u>DATES</u>	<u>AWARD NAME</u>
1984	Ranked 2 nd in a class of 100, St. Augustine's Lyceum, Warsaw, Poland
1985 – 1986	Prizes of the Rector of Medical Academy in Warsaw, Poland
1988 – 1989	Prizes of the Rector of Medical Academy in Warsaw, Poland
1989	1 st Prize of the National Meeting of Student Scientific Societies, Katowice, Poland
1989 – 1990	Mayoral Scholarship, Warsaw, Poland
1990	1 st Prize of the National Meeting of Student Scientific Societies, Katowice, Poland
1991	Ranked 3 rd in a class of 156, Warsaw Medical University, Warsaw, Poland
1993	The Dr. Charles Trey Postdoctoral Research Fellowship Award, American Liver Foundation, USA
2001	Partners in Excellence Award (Outstanding Performance and Commitment to Excellence)

- 2003 Clinical Pathology Teacher of the Year, Massachusetts General Hospital, Boston, MA
- 2005 Award for Logo Design of American Society for Apheresis
- 2012 Presidential Award, American Society for Apheresis
- 2015 Society Medal, Polish Society of Hematology and Transfusion (PTHiT)
- 2019 Emil-von-Behring Lecture Award; German Society of Transfusion Medicine and Immunohematology (DGTI)
- 2020 Francis S. Morrison Lecture Award; American Association for Apheresis

XXI. INVITED PRESENTATIONS:**A. International:**

<u>DATE</u>	<u>TOPIC/TITLE</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>
2001	State of the Art in HPCs: An Overview – Cord Blood Transplantation	AABB/ISHAGE Audioconference	
2002	Sources of Hematopoietic Progenitor Cells and Their Use in the US. AABB Standards for HP Services, 3 rd edition Audioconference		
2002	Sources of Hematopoietic Progenitor Cells and Their Use in the US. II Macopharma Symposium, Poznan, Poland (sponsored by Macopharma, Lyon, FR)		
2004	Variables in Dendritic Cell Preparation. BEST Collaborative, Bermuda		
2004	Bacterial Contamination of Platelets - US perspective. IV Macopharma Symposium, Poznan, Poland (sponsored by Macopharma, Lyon, FR)		
2004	Platelets and pathogen inactivation. IV Macopharma Symposium, Poznan, Poland (sponsored by Macopharma, Lyon, FR)		
2005	AABB Standards for Cellular Therapy Products, 1st Ed. AABB Audioconference		
2005	Ask the Regulatory Experts. ISCT Annual Meeting, Vancouver, BC		
2005	Leukoreduction of blood components in the US – an update. V Macopharma Symposium, Zakrzewo, Poland (sponsored by Macopharma, Lyon, FR)		
2008	Standards in Cellular Therapy. Sírio Libanês Hospital, Sao Paulo, Brazil		
2008	HLA in Cellular Therapy. Sírio Libanês Hospital, Sao Paulo, Brazil		
2009	Evidence Based Therapeutic Apheresis. British Society of Hematology, Brighton, UK		
2010	Different types of TTP. XIII World Apheresis Association Meeting, Interlaken, Switzerland		
2010	New Therapeutic Apheresis Guidelines. XIII World Apheresis Association Meeting, Interlaken, Switzerland		
2011	Guidelines in Therapeutic Apheresis. XXIV Annual Meeting, Polish Society of Hematology and Transfusion, Lublin, Poland		

- 2011 New Treatment Modalities in Therapeutic Apheresis and ASFA Guidelines. XV Congress of SIdEM, Torino, Italy
- 2012 Evidence Based Medicine. Interdisciplinary European Society for Haemapheresis and Haemotherapy (ESFH), The Hague, Netherlands
- 2012 Cellular Therapy at the Tertiary Care Hospital in the United States. The past, the present, and the future. 4th Bad Homburg Forum, Fresenius SA, Bad Homburg, Germany. Sponsored by Fresenius SA
- 2012 The BEST Collaborative in Cellular Therapy: Achievements, Challenges and Future Directions. XIV World Apheresis Congress, Istanbul, Turkey
- 2013 Cryopreservation and cellular function. ISCT Annual Meeting, Auckland, New Zealand
- 2013 National Marrow Donor Program - its role in HSCT. XXV Annual Meeting, Polish Society of Hematology and Transfusion, Poznan, Poland
- 2014 Apheresis Medicine – the art of evidence based clinical practice. 2nd International Joint Meeting ESFH-SIDEM, Florence, Italy
- 2014 THERAPEUTIC APHERESIS: The Principles, the Evidence and the Future. IX Biennial Conference Barcelona-Pittsburgh, Barcelona, Spain. Sponsored by Grifols, Inc.
- 2014 Platelet transfusions: intersection of clinical practice and evidence based guidelines. Annual Meeting of DGTI, Dresden, Germany
- 2015 Cryopreservation and T cell function. Pre BEST educational session, Lille, France
- 2015 Current challenges in securing safe blood in the US – critical update in the risk based decision making. XXVI Annual Meeting, Polish Society of Hematology and Transfusion, Szczecin, Poland
- 2016 Transfusion Medicine in the United States: Introduction, AABB, and Clinical Guidelines. Committee on Quality; Chine Transfusion Society, Yinchuan, China Sponsored by Fresenius Kabi, China
- 2016 Transfusion Medicine in the United States: Current Situation and New Developments. Committee on Quality; Chine Transfusion Society, Yinchuan, China. Sponsored by Fresenius Kabi, China
- 2016 Transfusion Medicine in the United States: Introduction, AABB, and Clinical Guidelines. FK Transfusion Annual Seminar, Chengdu, China. Sponsored by Fresenius Kabi, China

- 2016 Transfusion Medicine in the United States: Current Situation and New Developments. FK Transfusion Annual Seminar, Chengdu, China. Sponsored by Fresenius Kabi, China
- 2016 Therapeutic Apheresis – New Indications Status 2016. 2nd Symposium Research – Education, Warsaw, Poland. Sponsored by Terumo BCT, Europe
- 2017 Transfusion Medicine – Quality, Value and Risk. MedLab Meeting, Dubai, UAE
- 2017 Current Trends in Platelet: Collection, Testing and Storage. FACT 2017 Meeting, Seoul, Korea. Sponsored by Fresenius Kabi, Asia
- 2017 Bacterial Contamination of Platelets – Different Pathways in the US. XXVII Annual Meeting, Polish Society of Hematology and Transfusion, Warsaw, Poland
- 2017 Transfusion of Blood Components in the Era of Evidence Based Medicine. XXVII Annual Meeting, Polish Society of Hematology and Transfusion, Warsaw, Poland
- 2017 Transfusion Medicine in the United States – 2017. Meeting of Transfusion Medicine Section of PTHIT, Warsaw, Poland
- 2017 Transfusion of Blood Components in the Era of Evidence Based Medicine. Annual Meeting; National Center for Transfusion, Vilnius, Lithuania (video link)
- 2018 Thrombotic Thrombocytopenic Purpura – a 360-degree approach. Annual AABB Highlights in Middle East, Abu Dhabi, UAE
- 2019 Transfusion Medicine/Apheresis; Highlights of ASH Annual Meeting in South-East Asia; Bangkok, Thailand
- 2019 The Future of Transfusion Medicine; PTHiT Meeting, Lodz, Poland
Extracorporeal Photopheresis; PTHiT Meeting, Lodz, Poland
- 2019 Transfusion Medicine the Multifaceted Clinical Specialty (Emil-von-Behring Lecture); DGTI Meeting; Mannheim, Germany;

B. National:

<u>DATE</u>	<u>TOPIC/TITLE</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>
2001	Update on Applications of PBSC for Breast and Ovarian Cancer.	ASFA Annual Meeting (filling in for Iain Webb MD),	Niagara Falls, NY
2001	Cord Blood Transplantation / Lecture. (CME),	AABB/ISHAGE Audioconference	
2002	3 rd edition HPC Standards / Lecture. (CME),	AABB Audioconference	

- 2003 The role of apheresis in renal transplantation. Scientific Session, XXIV Annual ASFA Meeting, Lake Tahoe, CA
- 2003 Ask the Standards Committee. AABB, San Diego, CA
- 2003 Therapeutic Apheresis in renal transplantation. (CME) AABB, San Diego, CA
- 2003 Dendritic Cell Immunotherapy. (CME) AABB, San Diego, CA
- 2004 Donor Safety / Panelist. NIH sponsored conference, Arlington, MD
- 2004 Ask the Standards Committee. AABB, Baltimore, MD
- 2004 Dendritic Cell Immunotherapy. (CME) AABB, Baltimore, MD
- 2005 1st edition Cellular Therapy Standards / Lecture. (CME) AABB Audioconference
- 2005 Challenging HPC Donor. (CME) ASFA Annual Meeting, Chicago, IL
- 2005 Transfusion Medicine and Cellular Therapy: At the Crossroads. (CME) CAP Annual Meeting, Chicago, IL
- 2005 Ask the Standards Committee. AABB, Seattle, WA
- 2005 Standards in Cord Blood Banking. (CME) AABB, Seattle, WA
- 2006 Ask the Standards Committee. AABB, Miami, FL
- 2007 Cellular Immunotherapy – Dendritic Cells. (CME) AABB Spring Conf., San Diego, CA
- 2007 The new approach to ASFA Indications for Therapeutic Apheresis. (CME) Opening Symposium, ASFA Annual Meeting, Nashville, TN
- 2007 The new approach to ASFA Indications for Therapeutic Apheresis. (CME) AABB Annual Meeting, Anaheim, CA
- 2007 2nd edition of Cellular Therapy Standards / Lecture. (CME) AABB Audioconference
- 2007 ASFA/Cellular Therapy Topics / Lecture. (CME) AABB Audioconference
- 2007 Stem Cell Collections – The Newest Blood Bank Component / Lecture. (CME) ASCP Audioconference

- 2008 Assignment of ASFA Interim Categories. (CME) AABB Annual Meeting, Montreal, QC
- 2008 Interactive Session on Cellular Therapy. AABB Annual Meeting, Montreal, QC
- 2008 Interlaboratory Proficiency Testing in Cellular Therapy. (CME) AABB Annual Meeting, Montreal, QC
- 2008 Dendritic Cells in Clinical Trials. (CME) Roswell Park Cancer Institute, Buffalo, NY
- 2009 BEST Collaborative and Cellular Therapy / Lecture. (CME) AABB Audioconference
- 2009 Implementation of ISBT 128 in a cellular therapy laboratory. (CME) ISCT Annual Meeting, San Diego, CA
- 2009 Transportation of cellular therapy products, BEST Collaborative. (CME) ISCT Annual Meeting, San Diego, CA
- 2009 The Effect of Mobilization and Collection Technique on HPC-A Product Composition. (CME) ISCT/AABB Joint Program, Annual Meeting, New Orleans, LA
- 2010 New Apheresis Guidelines / Lecture. (CME) ASFA Audioconference
- 2010 ASFA Categories, 2010 Special Issue. (CME) ASFA Annual Meeting, New Orleans, LA
- 2010 State of the Science Symposium – Update. (CME) ASFA Annual Meeting, New Orleans, LA
- 2010 BEST in the Future. (CME) AABB Annual Meeting, Baltimore, MD
- 2010 ASFA Categories 2010 Special Issue. (CME) AABB Annual Meeting, Baltimore, MD
- 2013 2012 NHLBI Symposium State of the Science in Therapeutic Apheresis – the roadmap for the future is here... (CME) ASFA Meeting, Denver, CO
- 2013 The BEST Collaborative Cellular Therapy Team. (CME) AABB Meeting, Denver, CO
- 2013 Short term pain and long term benefits – the rationale for changes to ISBT128 for CT products. (CME) AABB Meeting, Denver, CO

- 2013 Transfusion Guidelines: When to Transfuse... (CME) ASH Meeting, New Orleans, LA
- 2014 2012 NHLBI Symposium State of the Science in Therapeutic Apheresis – the roadmap is here...Are you ready...? (CME) ASFA Meeting, San Francisco, CA
- 2014 Challenging Situations in Transfusion Medicine: Indications for Red Cell, Platelet, and Fresh Frozen Plasma Transfusion. (CME) ASCO Meeting, Chicago, IL
- 2015 Safer platelets – the alternative approaches. (CME) Symposium on Pathogen Inactivation (AABB), Bethesda, MD
- 2015 Considerations for introduction of new blood safety and quality measures in the hospital setting. 47th Meeting of ACBTSA; HHS Committee, Washington, DC
- 2017 Future international collaboration in development of sustainable global blood system: 2017 perspective... / Keynote (CME) The International Blood Safety Forum 2017, Washington, DC
- 2017 Bacterial Contamination of Platelets the context of Risk Based Decision Making (RBDM). (CME) Annual Meeting of America’s Blood Centers, Washington, DC
- 2017 The Role of Professional Organizations in Cellular Therapy. (CME) CTACC – Cellular Therapeutics in Trauma and Critical Care, San Francisco, CA
- 2017 Red Cell Genetics and Patient Safety: What Resources are Available and What is Needed... / Keynote (CME) NIH Conference: Red Cell Genotyping 2017: Patient Safety, Bethesda, MD
- 2018 The Future of Stem Cell Therapies, What Every Transfusion Medicine Specialist Needs to Know / Keynote (CME) Blood Bank Association of New York State Annual Meeting, New York City, NY
- 2018 Blood Safety – presentation for AABB, ABC, and ARC – common statement 49th Meeting ACBTSA; HHS Committee, Washington, DC
- 2019 Transfusion Medicine – 2 presentations at Highlights of ASH Annual Meeting in the US – San Francisco, CA and Seattle, WA
- 2019 AMBAR – preliminary results of the phase IIb/III study of apheresis in Alzheimer’s Disease. 40th Annual ASFA Meeting; Portland, OR
- 2019 Universal Irradiation – Pros and Cons; AABB Webinar,
- 2019 AMBAR – Preliminary Results; Alzheimer's Association International Conference (AAIC), Los Angeles, CA

C. Regional/Institutional:

<u>DATE</u>	<u>TOPIC/TITLE</u>	<u>ORGANIZATION</u>	<u>LOCATION</u>
1998	Transfusion Medicine – Preoperative testing.	MGH Anesthesiology Ground Rounds,	Boston, MA
1998	Acute Hemolytic Transfusion Reactions.	MGH Mortality and Morbidity Conference,	Boston, MA
1998	TTP in HIV positive patients.	MGH Medicine Resident’s Report,	Boston, MA
1998-1999	Course in Cellular Pathology, Red Blood Cell Pathology and White Blood Cell Pathology / Lecturer,	Northeastern University,	Boston, MA
1998	Microbiology, Retroviruses / Lecturer,	Northeastern University,	Boston, MA
1998	Narrative interpretations in Transfusion Medicine – the MGH experience.	33rd Annual ACLPS Meeting,	Boston, MA
1998	HELLP Syndrome.	Eastern Massachusetts Apheresis Group,	Boston, MA
1998	Diagnostic Testing in Hemostasis.	Mayo Medical Laboratories, Medical Staff Grand Round,	Brunswick, ME
1999	Hemolytic Disease of the Newborn.	Pediatric Chief’s Rounds, MGH/North Shore Hospital,	Boston, MA
1999	Transfusion Reactions.	Pediatric Chief’s Rounds, MGH/North Shore Hospital,	Boston, MA
1999	Autoimmune Hemolytic Anemia.	MGH Medicine Resident’s Report,	Boston, MA
1999	Use of RBC in surgical setting for house officers.	MGH Surgery,	Boston, MA
2000	Transfusion Medicine Cases. (2)	MGH Medicine Resident’s Report,	Boston, MA
2000	Therapeutic Apheresis – Introduction.	Harvard Hospitals Joint Transfusion Medicine Lecture Series,	Boston, MA
2000	Transfusion Medicine.	MGH Medicine Noon Conference,	Boston, MA
2000	Stem cells – is this the final answer.	Dartmouth-Hitchcock Medical Center,	Lebanon, NH
2000	Therapeutic apheresis – A primer.	Children’s Hospital,	Boston, MA

- 2000 Stem cells – is this the final answer. Massachusetts Associations of Blood Banks, Westford, MA
- 2001 Medical Bacteriology, Transfusion transmitted bacterial infections. Lecturer, Northeastern University, Boston, MA
- 2001 Mobilization and Collection of Hematopoietic Stem/Progenitor Cells. Pathology Grand Rounds, MGH, Boston, MA
- 2001 Transfusion Medicine. MGH Medicine Noon Conference, Boston, MA
- 2002 Standards and Federal Regulations in Somatic Cell Therapy. ARC New England Region, Dedham, MA
- 2003 Introduction to Cellular Therapies. Massachusetts Association of Blood Banks, Westford, MA
- 2003 Transfusion Medicine – Adverse Reactions. (2) MGH Medicine Noon Conference, Boston, MA
- 2003 BMT Technically Speaking. (4) Tech Lecture Series, MGH, Boston, MA
- 2004 Adoptive Immunotherapy. Massachusetts Association of Blood Banks, Westford, MA
- 2005 Transfusion Medicine and Cellular Therapy – Infatuation or long-term relationship. Rhode Island Blood Bank Society, Providence, RI
- 2005 Cellular Therapy for Technologists. (35) Mass General Hospital, Boston, MA
- 2005 Cellular Therapy in Your Backyard. Dartmouth Pathology Program, DHMC, Lebanon, NH
- 2007 Vascular Surgery and Transfusion Medicine. Vascular Surgery Scientific Meeting, DHMC, Lebanon, NH
- 2007 The new approach to ASFA Indications of Therapeutic Apheresis. ARC Advisory Committee, Dedham, MA
- 2008 Cellular Therapy Products in Cancer Immunotherapy. 60th Annual Meeting of the American Society of Clinical Laboratory Science, Central New England, Providence, RI
- 2008 Therapeutic Apheresis in Nephrology. Nephrology Section Meeting, DHMC, Lebanon, NH

- 2009 Evidence Based Therapeutic Apheresis. American Red Cross Seminar, West Lebanon, NH
- 2009 Therapeutic Apheresis in Rheumatology. Rheumatology Grand Rounds, DHMC, Lebanon, NH
- 2009 Blood Safety in the US. Special Meeting for delegation from Kyrgyzstan, DHMC, Lebanon, NH
- 2010 Cell Based Immunotherapy in Cancer – Dartmouth Experience. Massachusetts Association of Blood Banks, Westford, MA
- 2010 Therapeutic Apheresis – New Guidelines. American Red Cross Seminar, Worcester, MA
- 2015 Galen’s Humoralism of the XXIst century: Apheresis – Technology of the Future? Harvard Transfusion Medicine Grand Rounds, Boston, MA
- 2016 New developments in transfusion medicine – application to vascular surgery. Vascular Surgery Scientific Meeting, DHMC, Lebanon, NH
- 2016 Therapeutic Apheresis in Rheumatology. Rheumatology Grand Rounds, Lebanon, NH
- 2018 Transfusion Medicine 2018 and beyond – Pathology Department Grand Rounds, Mass General Hospital, Boston, MA

XXII. BIBLIOGRAPHY:**A. Peer-reviewed publications in print or other media****Original articles:**

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3. Teruya J, Cluette-Brown J, Szczepiorkowski ZM, Laposata M. Mode of transport of fatty acid to endothelial cells influences intracellular fatty acid metabolism. *J Lipid Res* 1995; 36(2):266-276 (PMID: 7751814)
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12. Eichbaum QG, Dzik WH, Chung RT, Szczepiorkowski ZM. Red blood cell exchange transfusion in two patients with advanced erythropoietic protoporphyria. Transfusion 2005; 45(2):208-213. (PMID: 15660829)
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- labeling of cellular products-2: Implementation plan. Bone Marrow Transplant. 2007 Dec; 40(11):1085-90. (PMID: 17906707)
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