

CURRICULUM VITAE

Peiman Hematti MD

Professor
Department of Medicine
Division of Medicine Hematology Oncology

OFFICE ADDRESS:

9200 West Wisconsin Avenue

Milwaukee, WI 53226

EDUCATION:

1983 - 1990 Medical School, Tehran University School of Medicine, Tehran, Iran

1995 - 1999 Residency, Cleveland Clinic Foundation, Cleveland, OH

1999 - 2001 Fellowship, National Heart, Lung and Blood Institute (NIH), Bethesda, MD

2001 - 2004 Fellowship, National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, MD

FACULTY APPOINTMENTS:

2004 - 2010 Assistant Professor, Medicine, Hematology/Oncology, University of Wisconsin, School of Medicine and Public Health, Madison, WI

2009 - 2010 Assistant Professor (joint appointment), Surgery, University of Wisconsin, School of Medicine and Public Health, Madison, WI

2009 - 2010 Assistant Professor (affiliate appointment), Pediatrics, University of Wisconsin, School of Medicine and Public Health, Madison, WI

2010 - 2015 Associate Professor with Tenure, Medicine, Pediatrics and Surgery, University of Wisconsin, School of Medicine and Public Health, Madison, WI

2015 - 2023 Professor with Tenure, Medicine, Pediatrics and Surgery, University of Wisconsin, School of Medicine and Public Health, Madison, WI

2023 - Present Professor with Tenure, Medicine, Hematology/Oncology, Medical College of Wisconsin, Milwaukee, WI

2023 - Present Professor Emeritus, University of Wisconsin-Madison, Madison, WI

2024 - Present Professor with Tenure, Pediatrics, Medical College of Wisconsin, Milwaukee, WI

ADMINISTRATIVE APPOINTMENTS:

2005 - 2023 Director, Clinical Hematopoietic Cell Processing Laboratory, University of Wisconsin-Madison, Madison, WI

2005 - 2023 Medical Director, Apheresis and Collection Facility, University of Wisconsin-Madison, Madison, WI

2005 - 2023 Director, Apheresis and Collection Facility, University of Wisconsin-Madison, Madison, WI

2005 - 2023 Medical Director, Clinical Hematopoietic Cell Processing Laboratory, University of Wisconsin-Madison, Madison, WI

2009 - 2023 Medical Director, National Marrow Donor Program Apheresis Center, University of Wisconsin-Madison, Madison, WI

2018 - 2023 Medical Director, National Marrow Donor Program Hematopoietic Cell Collection Center,, University of Wisconsin-Madison, Madison, WI

2021 - 2023 Medical Director, Radiation Injury Treatment Network (RITN), University of Wisconsin-Madison, Madison, WI

2023 - Present Director, Cell Therapy Laboratory, Froedtert & The Medical College of Wisconsin, Milwaukee, WI

HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:

- 2004 - 2023 University of Wisconsin Carbone Cancer Center, Madison, WI
- 2005 - 2023 Member, University of Wisconsin Bone Marrow Transplant Quality Improvement Committee, University of Wisconsin-Madison, Madison, WI
- 2005 - 2018 Quality Management Director, UW-Apheresis and Collection Facility, University of Wisconsin-Madison, Madison, WI
- 2005 - 2018 Quality Management Director, Clinical Hematopoietic Cell Processing Laboratory, University of Wisconsin-Madison, Madison, WI
- 2005 - 2023 University of Wisconsin Stem Cell & Regenerative Medicine Center, Madison, WI
- 2007 - 2023 University of Wisconsin Cardiovascular Research Center, Madison, WI
- 2009 - 2017 Member, University of Wisconsin Tissue and Blood Products Committee, University of Wisconsin-Madison, Madison, WI
- 2010 - 2014 Member, University of Wisconsin Carbone Cancer Center Protocol Review and Monitoring Committee, University of Wisconsin-Madison, Madison, WI
- 2012 - Present Member, University of Wisconsin-Madison, Department of Medicine Post-Promotion Evaluation Committee, University of Wisconsin-Madison, Madison, WI
- 2014 - 2018 Alternate Member, University of Wisconsin-Madison Stem Cell Research Oversight (SCRO) Committee, University of Wisconsin-Madison, Madison, WI
- 2015 - 2017 ICTR Review Committee member (UWCCC Representative): Basic & Clinical Pilot Award Program, University of Wisconsin-Madison, Madison, WI

HOSPITAL STAFF PRIVILEGES:

- 2004 - 2023 Attending Physician, Blood and Marrow Transplant Inpatient Unit, University of Wisconsin-Madison, Madison, WI

SPECIALTY BOARDS AND CERTIFICATION:

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
American Board of Pediatrics	1999	None
American Board of Internal Medicine	1999	None
American Board of Hematology	2002	None

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
Medical License to Practice Medicine		2004	None

AWARDS AND HONORS:

- 2005 NASA Sharp Excellence in Mentoring

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

- 1999 - Present American Society of Hematology
- 2001 - Present American Society of Gene and Cell Therapy (Previously ASGT)
- 2004 - 2023 International Society for Stem Cell Research
- 2005 - Present American Society for Transplantation and Cellular Therapy (Previously ASBMT)
- 2005 - Present International Society for Cellular Therapy
- 2005 - 2023 International Society for Experimental Hematology
- 2006 - 2023 American Association of Blood Banks
- 2009 - 2023 American Society of Transplantation
- 2015 - 2023 American Association of Immunologists
- 2015 - 2023 American Society of Clinical Oncology
- 2015 - 2023 American Medical Association
- 2018 - 2023 Biomedical Engineering Society
- 2018 - 2023 Society for Immunotherapy of Cancer

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorship

2016 - 2018 Cytotherapy

Editorial Board

2006 - 2017 Experimental Hematology

2008 - 2016 Cytotherapy

2014 - 2020 Biology of Blood and Marrow Transplantation

Ad-Hoc Reviewer

Chimerism

Tissue and Cell

Stem Cells Translational Medicine

Cell Proliferation

Cell Biology International

PLoS Medicine

Fibrogenesis and Tissue Repair

Experimental Cell Research

Blood Transfusion

Acta Histochemica

Biology of Blood and Marrow Transplantation

Molecular Therapy

Journal of Leukocyte Biology

Cancer Investigation

Journal for ImmunoTherapy of Cancer

Experimental and Molecular Pathology

Applied Biochemistry and Biotechnology

Journal of Immunological Methods

Stem Cell Research

Transplant Immunology

Journal of Clinical Investigation

Bone Marrow Transplantation

Stem Cells

PLoS One

Scientific Reports

Annals of the New York Academy of Sciences

Transplantation

Cell Transplantation

Journal of Experimental & Clinical Cancer Research

Stem Cells International

Journal of Clinical Apheresis

The Ocular Surface

Blood

Leukemia

Stem Cells and Development

Stem Cell Reports and Reviews

Tissue Engineering

Regenerative Medicine

Stem Cell Research & Therapy

Current Stem Cell Research and Therapy

Experimental Biology and Medicine

Experimental Dermatology

BMC Medicine

Methods

Stem Cell Reports

Expert Opinion on Biological Therapy

Immunology and Cell Biology

Journal of Clinical Medicine

BMC Pediatrics

Respiration
Journal of Tissue Engineering and Regenerative Medicine
Theranostics
JAMA
Acta Biomaterialia

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

03/31/2016 - Present Equity Owner, Consultant, Chair of Scientific Advisory Board, Cellular Logistics Inc.
2017 - Present Chair, Scientific Advisory Board, Cellular Logistics, Inc.
2022 - Present Scientific Advisory Board, BioCardia, Inc.

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title: New Multi-Drug Resistance Mechanism
in Multiple Myeloma
Source: NIH/NCI
Role & Effort: Co-Investigator
PI: Miyamoto
Dates: 06/09/2020 - 05/31/2025
Direct Funds: \$251,258 (\$251,258/yr)

Title: Characterization and treatment of the
scarred vocal fold
Source: NIH/NIDCD
Role & Effort: Co-Investigator
PI: Welham
Dates: 04/01/2023 - 03/31/2028

Non-Peer Review

Title: Exosome educated monocytes for acute
radiation syndrome
Source: NIH/NHLBI
Role & Effort: Multiple PI
PI: Hematti and Capitini
Dates: 07/01/2021 - 07/31/2025
Direct Funds: \$2,556,298

Prior

Peer Review

Title: Reduced Intensity Haploidentical
Transplantation with NK Cell Infusion
for Pediatric Acute Leukemia and High
Risk Solid Tumors
Source: SOLVING KIDS CANCER
Role & Effort: Co-Investigator
PI: Kenneth DeSantes
Dates: 03/01/2009 - 03/01/2013
Direct Funds: \$80,000

Title: TGF-beta in Intimal Hyperplasia after
Vascular Bypass
Source: NIH/NHLBI
Role & Effort: Co-Investigator
PI: Craig Kent

Dates: 04/01/2009 - 03/31/2013
Direct Funds: \$1,481,288

Title: Engineering the Vocal Fold Extracellular Matrix
Source: NIH/NIDCD
Role & Effort: Co-Investigator
PI: Susan Thibeault
Dates: 07/17/2009 - 06/30/2011
Direct Funds: \$216,752

Title: Predictors of Optimal Immune Reconstitution in Stem Cell Transplant Patients
Source: NIH/NCI
Role & Effort: Co-Investigator
PI: Erin Costanzo
Dates: 01/01/2010 - 12/31/2012
Direct Funds: \$275,000

Title: NHLBI Production Assistance for Cellular Therapies (PACT) Program-Cell Processing Facilities
Source: NIH/NHLBI
Role & Effort: Co-Investigator
PI: Hei
Dates: 01/15/2010 - 01/14/2015
Direct Funds: \$8,777,067

Title: Tomotherapy and Hematopoietic Cells for Tolerance to Kidney Transplants
Source: NIH/NIAID
Role & Effort: Co-Investigator
PI: Kaufman
Dates: 09/01/2012 - 08/31/2017
Direct Funds: \$3,074,697

Title: The Role of SIRT3 in B Cell Malignancies
Source: University of Wisconsin-Carbone Cancer center
Role & Effort: Co-Investigator
PI: Denu
Dates: 02/01/2013 - 01/31/2014
Direct Funds: \$50,000

Title: Autologous mesenchymal stem cell transplantation in dogs with non-contact cruciate rupture”
Source: Veterinary Orthopedic Society
Role & Effort: Co-Investigator
PI: Muir
Dates: 07/01/2013 - 06/30/2015
Direct Funds: \$39,995

Title: Immunogenomics to Create New Therapies for High-Risk Childhood

Source:	Cancers American Association for Cancer Research/St. Baldrick's/Stand Up 2 Cancer Foundation
Role & Effort:	Co-Investigator
PI:	John Maris
Dates:	07/01/2013 - 12/05/2021
Direct Funds:	\$337,904 (\$337,904 First/yr)
Title:	Human macrophage immunophenotype modulated by biomaterial-encapsulated MSC
Source:	NIH/NHLBI
Role & Effort:	Co-Investigator
PI:	Kao
Dates:	08/01/2013 - 01/31/2015
Direct Funds:	\$396,878
Title:	Congenital Diaphragmatic Hernia: Genetic Basis and Stem Cell Therapy
Source:	UW Institute for Clinical and translational Research & UW Stem Cell & Regenerative Medicine Center
Role & Effort:	Collaborator
PI:	McCulley
Dates:	08/01/2013 - 07/31/2014
Direct Funds:	\$50,000
Title:	MHC-Defined Nonhuman Primate Model for Bone Marrow Transplantation"
Source:	UW Institute for Clinical and translational Research
Role & Effort:	Co-Investigator
PI:	Slukvin
Dates:	01/01/2014 - 12/30/2014
Direct Funds:	\$50,000
Title:	UW Institute for Clinical and translational Research
Source:	Infusing MEMs as protection from radiation injury and GVHD
Role & Effort:	Co-Investigator
PI:	Capitini
Dates:	07/01/2014 - 06/30/2015
Direct Funds:	\$50,000
Title:	Clinical Translation of Mesenchymal Stem Cell Therapy for Corneal and Ocular Surface Injuries
Source:	Department of Defense/Army
Role & Effort:	Co-Investigator
PI:	Djalilian
Dates:	10/01/2014 - 09/30/2017
Direct Funds:	\$998,786
Title:	Blood Stem Cell Transplantation as

	Immunotherapy
Source:	NIH
Role & Effort:	Co-Investigator
PI:	Strober and Kaufman
Dates:	04/01/2016 - 03/31/2021
Direct Funds:	\$53,068 (\$53,068 year 1)
Title:	Blood Stem Cell Transplantation as Immunotherapy
Source:	NIH Subcontract
Role & Effort:	Co-Investigator
PI:	Strober and Kaufman
Dates:	04/01/2016 - 03/31/2021
Direct Funds:	\$53,068
Title:	CCR5-mutant monkey model to facilitate the development of novel stem cell-based therapies for AIDS
Source:	NIH
Role & Effort:	Co-Investigator
PI:	Slukvin
Dates:	05/01/2016 - 01/31/2021
Direct Funds:	\$499,619 (\$499,619/yr)
Title:	Transformational platform of regenerating autologous transplantable endocrine tissue from human pancreatic matrix and pluripotent stem cells
Source:	NIH/NIAID
Role & Effort:	Co-Investigator
PI:	Odorico
Dates:	07/01/2016 - 06/30/2019
Direct Funds:	\$175,000
Title:	Therapeutic Application of M2 Macrophages to Improve Tendon Healing
Source:	Orthopaedic Research and Education Foundation
Role & Effort:	Co-Investigator
PI:	Halanski
Dates:	10/01/2016 - 09/30/2018
Direct Funds:	\$150,000
Title:	A Novel Biologic for the Treatment of Hypogonadism
Source:	Jangobio LLC Prime: NIH
Role & Effort:	Co-Investigator
PI:	Atwood and Asthana
Dates:	12/01/2016 - 11/30/2017
Direct Funds:	\$136,035 (\$136,035 year 1)
Title:	Molecular and Cellular Mechanisms of Chronic Myelomonocytic Leukemia (CMML)
Source:	NIH/NCI
Role & Effort:	Co-Investigator

PI: Zhang
Dates: 03/01/2017 - 02/28/2023
Direct Funds: \$1,828,073

Title: Optimizing cell assisted lipotransfer with anti-inflammatory adipose derived stem cells

Source: The University of Texas MD Anderson
Role & Effort: Collaborator
PI: Hanson
Dates: 07/01/2017 - 06/30/2018
Direct Funds: \$75,000

Title: Tomotherapy and Hematopoietic Stem Cells for Tolerance to Kidney Transplants

Source: NIH/NNIAID
Role & Effort: Co-Investigator
PI: Kaufman
Dates: 08/01/2017 - 04/30/2023
Direct Funds: \$450,250 (\$450,250 direct/yr)

Title: P51DO11106
Source: NIH/WNPRC
Role & Effort: Co-Investigator
PI: Ackerman
Dates: 05/01/2018 - 04/30/2020
Direct Funds: \$302,506 (\$302,506/yr)

Title: Mechanisms of microenvironment mediated resistance to cancer cell surface targeted therapeutics

Source: NIH
Role & Effort: Co-Investigator
PI: Beebe, Lang
Dates: 09/15/2020 - 03/22/2023
Direct Funds: \$498,661 (\$498,661/yr)

Title: W81XWH-1-0661
Source: DOD
Role & Effort: Co-Investigator
PI: Djalilian
Dates: 09/30/2020 - 09/29/2023
Direct Funds: \$40,521

Non-Peer Review

Title: Derivation of marrow Stromal cells from embryonic stem cells

Source: UW-Carbone Cancer Center Trillium Fund for multiple myeloma Research
Role & Effort: Principle Investigator
PI: Hemaati
Dates: 07/01/2005 - 12/31/2009
Direct Funds: \$75,000

Title: Human ESC-derived HSC Engraftment in NOD/SCID Mice

Source:	Stem Cell Research Foundation
Role & Effort:	Principle Investigator
PI:	Hematti
Dates:	04/01/2007 - 03/31/2009
Direct Funds:	\$100,000
Title:	ESC-derived MSC Transplantation in NOD/SCID Mice
Source:	National Blood Foundation
Role & Effort:	Principle Investigator
PI:	Hematti
Dates:	07/01/2007 - 06/30/2008
Direct Funds:	\$65,000
Title:	Embryonic Stem Cell Derived HSC Transplantation in Rhesus Macaque Model
Source:	NIH / NHLBI
Role & Effort:	Principle Investigator
PI:	Hematti
Dates:	07/14/2007 - 06/30/2012
Direct Funds:	\$681,750
Title:	Breast Tissue Stromal Cells Preferentially Promote Generation of M2 Macrophages: A Novel Mechanism for Tumor-Supportive Properties of Breast Microenvironment
Source:	Department of Defense/Army
Role & Effort:	Principle Investigator
PI:	Hematti
Dates:	08/01/2009 - 07/31/2011
Direct Funds:	\$75,000
Title:	Myeloma and Stromal cell Collection
Source:	Trillium Fund for Multiple Myeloma Research
Role & Effort:	Principle Investigator
PI:	Hematti
Dates:	07/01/2011 - 03/23/2023
Direct Funds:	\$500,000
Title:	Core facility for collection and processing of bone marrow from patients with multiple myeloma
Source:	UW- Carbone Cancer Center Trillium Fund for multiple myeloma Research
Role & Effort:	Principle Investigator
PI:	Hematti
Dates:	08/01/2011 - 07/31/2013
Direct Funds:	\$200,000
Title:	Principle Investigator
Source:	University of Wisconsin Foundation-Crystal Carney Fund for Leukemia Research
Role & Effort:	Principle Investigator

PI: Hematti
Dates: 11/26/2012 - 03/23/2023
Direct Funds: \$500,000 (Dr. Walter Longo has received this philanthropy donation to support basic, translational and clinical research activities at UW-Madison focused on bone marrow transplantation and novel cellular immunotherapies. In my labortary this award is being used on optimization of T cell expansion and activation methodologies with the ultimate goal of using this methodology in T cell immunotherapies.)

Title: Activation of Cytotoxic T Lymphocytes by Blockade of BAFF Receptor BR3 for Cancer Immunotherapy
Source: Wisconsin Alumni Research Foundation
Role & Effort: Principle Investigator
PI: Hematti
Dates: 11/16/2016 - 06/30/2021
Direct Funds: \$250,000

Title: Cardioimmunotherapy - A Paradigm Shifting Concept: Engineering Cardio?Reparative Macrophages by Cardiac Specific Exosomes
Source: Wisconsin Alumni Research Foundation
Role & Effort: Primary Investigator
PI: Hematti and Raval
Dates: 05/01/2017 - 06/30/2019
Direct Funds: \$215,099 (\$215,099 first year)

Title: Development of Therapeutic Macrophages for Radiation Injuries
Source: Wisconsin Alumni Research Foundation
Role & Effort: Principle Investigator
PI: Hematti
Dates: 07/01/2019 - 06/30/2021
Direct Funds: \$125,000

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International

Embryonic Stem Cell derived Mesenchymal Stem Cells, NIH/NIAID-Nordic Research Networking Meeting, Helsinki, Finland, 05/2006

Mesenchymal Stem Cells, Department of Animal Biotechnology, Jilin University, China, 07/2009

Role of Mesenchymal Stem Cells in Cancer, Department of Cellular and Molecular Biology and Pathology, University "Federico II", Naples, Italy, 11/2009

National

New Updates in Non-Embryonic Stem Cell research, Kishwaukee Hospital Grand Round, Kishwaukee, IL, 04/2008

Mesenchymal Stem Cells in Regenerative Medicine, The Infectious Disease and Immunology Institute, Chicago, IL, 11/2009

Mesenchymal Stromal/Stem Cells, NHLBI Production Assistance for Cellular therapy (PACT) Sponsored Workshop, Houston, TX, 10/2012

Mesenchymal stromal/stem cells: review of the clinical trials, AABB Annual Meeting, Philadelphia, PA, 10/2014

Characterization of MSCs: Potency Assay Development, Annual AABB Meeting, Anaheim, CA, 10/2015

Novel Cellular Therapies: Opportunities and Challenges for Academic Medical Centers, University of Maryland Comprehensive Cancer Center, Baltimore, MD, 02/2017

Regional

Update on Stem Cells: Basic Research and Clinical Applications, Wisconsin Clinical Lab Managers Association Meeting, Wisconsin Dells, WI, 03/2009

Update on Stem Cells: Basic Research and Clinical Applications, Sinai Medical Center, Medicine Grand Round, Milwaukee, WI, 06/2009

Cellular Therapies for Prevention & Treatment of GVHD, Milwaukee, WI, 01/2017

Novel Cellular Therapies: Opportunities and Challenges, Blood Center of Wisconsin, Milwaukee, WI, 10/2017

Local

Hematopoietic Stem Cell Transplantation: A Clinical Perspective”, American Society for Clinical Laboratory Science, Madison, WI, 04/2007

Mesenchymal Stem Cell/Macrophage Crosstalk: Role in Resolution of Inflammation, International Conference on Advances in Laryngeal Biophysiology,, Madison, WI, 07/2010

Recent Developments in Hematopoietic Stem Cell Transplantation, Red Cross CME Talk, Madison, WI, 07/2011

Characterization of Mesenchymal Stromal/Stem Cells, NHLBI Production Assistance for Cellular therapy (PACT) Sponsored Workshop, Madison, WI, 03/2012

Recent Advances in Cellular Therapies, The 34th Annual WABB Fall Educational Seminar CME Talk, Madison, WI, 09/2012

Advances in Hematopoietic Stem Cell Transplantation, Wisconsin Association of Blood Banks Education Seminar, Madison, WI, 09/2015

Promising Avenues in Clinical Tolerance Induction in Kidney Transplantation, Hope, meet Gratitude UW conference co-sponsored with Optum Health Education, Madison, WI, 06/2016

New Horizons in Tolerance Induction, Optum Health-UW Health Remarkable Strength: Bringing Transplant to Life, Madison, WI, 07/2019

Regulatory considerations for more than minimally manipulated cell-based therapies: a clinician perspective, International Society of cell Therapy North America 2019 regional Meeting, Madison, WI, 09/2019

COMMITTEE SERVICE:

Hospital

2012 - 2017 Promotion Review Committee Member, Mentoring Committee for Joshua Lang, MD Assistant Professor of Medicine, University of Wisconsin-Madison

2015 - 2023 Chair, Mentoring Committee, Mentoring Committee for Aric Hall, MD Assistant Professor of Medicine,, University of Wisconsin-Madison

2017 - 2023 Member, Mentoring Committee, Mentoring Committee for David Al-Adra, MD, PhD. Assistant Professor, Division of Transplantation, University of Wisconsin-Madison

EXTRAMURAL TEACHING:

Graduate Student Education

2007 - 2023 University of Wisconsin-Madison, Cellular and Molecular Biology Graduate Program

2007 - 2023 University of Wisconsin- Madison, Cellular and Molecular Pathology Graduate Program

2010 - 2023 University of Wisconsin-Madison, Biomedical Engineering Graduate Program

Resident and Fellow Education

2004 - 2023 University of Wisconsin-Madison, T32 Hematology Training Program

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS

MENTORED:

Graduate Students

PhD Students Advised

- 2007 - 2012 Jaehyup Kim, MD, PhD awarded in Cellular and Molecular Biology
- 2008 - 2011 Summer Hanson, MD, PhD awarded in Biomedical Engineering

Clinical/Research Fellows

- 2005 - 2007 Timothy Wassenaar, MD, Recipient of NIH sponsored T32 Hematology Training grant
- 2008 - 2010 Summer Hanson, MD, Recipient of NIH sponsored T32 Oncology Training grant
- 2009 - 2010 Pasithorn Amy Suwanabol, MD, Recipient of NIH sponsored T32 Hematology Training
- 2010 - 2011 Wei Zhou, MD, Recipient of Scholarship from Guangzhou Health Bureau and Guangzhou First Municipal People's Hospital
- 2012 - 2013 Jaehyup Kim, MD, Post-doctoral fellow

INVENTIONS WITH PATENTS ISSUED TO WISCONSIN ALUMNI RESEARCH FOUNDATION (WARF) :

- 02/11/2014 - Present Title of Invention: Anti-inflammatory macrophages and uses thereof. Inventors: Peiman Hematti, Jaehyup Kim. Filed by Wisconsin Alumni Research Foundation. United States Patent Number: 8,647,678. Date of Patent issued: February 11, 2014.
- 06/07/2016 - Present Title of Invention: Xeno-free generation of tissue specific progenitor cells. Inventors: Peiman Hematti, Jaehyup Kim. Filed by Wisconsin Alumni Research Foundation. United States Patent Number: 9,359,593. Date of Patent issued: June 07, 2016.
- 06/12/2018 - Present Title of Invention: Xeno-free generation of tissue specific progenitor cells. Inventors: Peiman Hematti, Jaehyup Kim. Filed by Wisconsin Alumni Research Foundation. United States Patent Number: 9,994,819. Date of Patent issued: June 12, 2018.
- 01/01/2019 - Present Title of Invention: Use of mesenchymal stem cell-educated macrophages to treat and prevent graft versus host disease and radiation-induced injury. Inventors: Peiman Hematti, Myriam Bouchlaka, Christian Capitini. Filed by Wisconsin Alumni Research Foundation. United States Patent Number: 10,166,254. Date of Patent issued: January 1, 2019.
- 02/18/2020 - Present Title of Invention: Methods of T cell expansion and activation. Inventors: Peiman Hematti, Debra Bloom. Filed by Wisconsin Alumni Research Foundation. United States Patent Number: 10,563,172. Date of Patent issued: February 18, 2020.
- 11/02/2021 - Present Title of Invention: Xeno-free generation of tissue specific progenitor cells. Inventors: Peiman Hematti, Jaehyup Kim. Filed by Wisconsin Alumni Research Foundation. United States Patent Number: 11,162,074. Date of Patent issue: November 02, 2021.
- 11/15/2022 - Present Title of Invention: LPS priming of stromal cells to generate LPS-Specific exosome educated macrophages. Inventors: Peiman Hematti, John Kink, Christian Capitini. Filed by Wisconsin Alumni Research Foundation. United States Patent Number: 11,499,730. Date of Patent issued: November 15, 2022.
- 08/29/2023 - Present Title of Invention: Macrophage cell therapy to treat orthopedic injury. Inventors: Peiman Hematti, Connie Chamberlain, Anna Clements, Ray Vanderby, John Kink. Filed by Wisconsin Alumni Research Foundation. United States Patent Number: 11,738,46. Date of Patent issued: August 29, 2023.
- 09/19/2023 - Present Title of Invention: Generation of therapeutic cells using extracellular components of target organs. Inventors: Peiman Hematti, John Kink, Eric Schmuck, Amish Raval. Filed by Wisconsin Alumni Research Foundation. WARF Application Number: P11,760,975. Date of Patent issued: September 19, 2023.

INVENTIONS WITH PATENT APPLICATIONS FILED BY WISCONSIN ALUMNI RESEARCH FOUNDATION (WARF) :

- 10/22/2021 - Present Title of Invention: Use of Toll-Like receptor agonists to treat inflammation and tissue injury. Inventors: Peiman Hematti, John Kink, Christian Capitini, Matthew Forsberg, Nicholas Hess, Zachary Rosenkrans, Reinier Hernandez. Application filed by Wisconsin Alumni Research Foundation Date: 10/22/2021. WARF Application Number: P200327US02
- 01/06/2023 - Present Title of Invention: T cell specific biomarkers for predicting graft-vs-host disease and relapse following hematopoietic stem cell transplantation and treatment thereof. Inventors: Peiman

Hematti, Christian Capitini, Nicholas Hess, Jenny Gumperz, Kalyan Nadiminti. Application filed by Wisconsin Alumni Research Foundation Date: 01/06/2023. WARF Application Number: P220161US01

08/09/2023 - Present Compositions and Methods for Treating Cancer. Inventors: Peiman Hematti, Hau Le, Bindu Nair, John Kink, J. Leon Shohet, Manh Ha Nguyen. Application filed by Wisconsin Alumni Research Foundation Date: 08/09/2023. WARF Application Number: P220360US01

BIBLIOGRAPHY

Books, Chapters, and Reviews

1. **Hematti P**, Keating A. (editors) "Mesenchymal stromal cells: Biology and clinical applications" Publisher: Elsevier, First edition: 2013
2. Viswanathan S, **Hematti P**. (editors) "Mesenchymal Stromal cells: Translational Pathways to Clinical Adoption" Publisher: Academic Press, First edition: 2016
3. Schmuck E, **Hematti P**, Raval A. (editors) "Cardiac Extracellular Matrix: Fundamental Science to Clinical Applications" Publisher: Springer Nature, First Edition, 2018.
4. **Hematti P**, Lessin LS. "Porphyria" published in: "The Bethesda Handbook of Clinical Hematology" (1st edition); Rodgers GP, Young NS (editors): 2004
5. **Hematti P**, Lessin LS. "Porphyria" published in: "The Bethesda Handbook of Clinical Hematology" (1st edition); Rodgers GP, Young NS (editors): 2004
6. **Hematti P**. "Porphyria" published in: "The Bethesda Handbook of Clinical Hematology" (2nd edition); Rodgers GP, Young NS (editors): 2009
7. Battiwalla M, **Hematti P**. "Myelodysplastic Syndromes" published in: "Conn's Current Therapy 2010"; Rakel RE, Bope ET, Kellerman R (editors) 2010
8. **Hematti P**. "Human embryonic stem cell derived mesenchymal progenitors: An overview" published in: "Methods in Molecular Biology"; zur Nieden NI (editor) 2011
9. **Hematti P**, Kim J, Battiwalla M. "Mesenchymal Stem Cells in Hematopoietic Stem Cell Transplantation" published in: "Stem Cells and Human Diseases"; Srivastava R and Shankar S (editors) 2012
10. Hanson S, **Hematti P**. "Clinical Applications of Cell-Biomaterial Constructs for Tissue Reconstruction" I published in: "Biomaterials and Stem Cells in Regenerative Medicine"; Ramalingam M, Ramakrishna S, Best S (editors) 2012
11. **Hematti P**, Hanson S. "Immunobiology of Biomaterial-Mesenchymal Stem Cell Interactions" published in: "Biomaterials and Stem Cells in Regenerative Medicine"; Ramalingam M, Ramakrishna S, Best S (editors) 2012
12. **Hematti P**, Keating A. "Mesenchymal stromal cells in regenerative Medicine: A perspective" published in "Mesenchymal stromal cells: Biology and clinical applications"; **Hematti P**, Keating A. (editors). 2013
13. **Hematti P**. "Porphyria" published in: "The Bethesda Handbook of Clinical Hematology" (3rd edition); Rodgers GP, Young NS (editors) 2013
14. **Hematti P**. "Mesenchymal Stem Cell Transplantation: From Tissue Regeneration to Immune Modulation" published in: "Stem Cell Handbook". (2nd edition) Sell S. (editor) 2013
15. Kim J, **Hematti P**. "Harnessing Regenerative and Immunomodulatory Properties of Mesenchymal Stem Cells in Transplantation Medicine" published in: "Principles of Regenerative Medicine and Cell, Tissue, and Organ Bioengineering". Orlando G, Lerut JP, Soker S, Stratta RJ. (editors) 2014
16. **Hematti P**. "Mesenchymal Stromal Cells: Clinical Experience, Challenges, and Future Directions" published in: "Mesenchymal Stromal cells: Translational Pathways to Clinical Adoption" Viswanathan S, **Hematti P**. (editors) 2016
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92. Chamberlain CS, Clements AEB, Kink J, Choi U, **Hematti P**, Vanderby R. Human Exosome Educated Macrophages Stimulates Early Tendon Healing. Accepted for oral presentation at: Orthopaedic Research Society; March 2018. New Orleans, LA
93. Gahvari ZJ, Callander NS, Coe CL, Juckett MB, Asimakopoulos F, **Hematti P**, Erin S. Costanzo. Prognostic Significance of Circulating IL-6, Tnf?, and IL-10 for Multiple Myeloma Patients Undergoing Autologous Peripheral Blood Stem Cell Transplantation. 25th Annual American Society of Blood and Marrow transplantation. Feb 2018, Salt Lake City, UT
94. Kenkre VP, Juckett MB, Bradley K, Grindle K, Burkholder J, Nechville J, Callander NS, Hall AC, Longo WL, **Hematti P**. Engraftment and Immune Reconstitution Outcomes after Alpha/Beta T Cell and CD 19 + B Cell Depletion with Haploidentical Transplantation in Adult Patients with Lymphoma. 25th Annual American Society of Blood and Marrow transplantation. Feb 2018, Salt Lake City, UT
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97. Zinter MS, Logan BR, Zhu X, Sapru A, Abraham A, Aljurf MD, Arnold SD, Artz A, Auletta JJ, Chhabra S, Copelan E, Duncan C, Fretham C, Gale RP, Guinan E, **Hematti P**, Keating AK, Marks DI, Savani BN, Olsson R, Ustun C, Williams KM, Pasquini MC, Dvorak CC. Improved Mortality Prognostication for Critically Ill Pediatric Hematopoietic Cell Transplant Patients: Results From a Virtual Pediatric Systems (VPS) and Center for International Blood and Marrow Transplant Research (CIBMTR) Database Merger. 25th Annual American Society of Blood and Marrow transplantation. Feb 2018, Salt Lake City, UT
98. Rentscher KE, Broman AT, Coe CL, Juckett MB, Rathouz PJ, **Hematti P**, Carroll JE, Costanzo ES. Behavioral and biological predictors of chronic graft-versus-host disease and mortality following hematopoietic stem cell transplantation. Accepted for oral presentation at the 76th Annual Scientific Meeting of the American Psychosomatic Society. March 2018; Louisville, KY
99. Spinali K, Schmuck EG, Walker S, Dhillon A, Kink J, Bloom D, **Hematti P**, Raval AN. Novel Cardiac Fibroblast-derived Extracellular Matrix Educates Monocytes into Alternatively Activated Macrophages with Low Inflammatory Marker Expression. American College of Cardiology Annual Meeting. March 2018, Orlando, FL
100. Samaeekia R, Eslani M, Putra I, Rabiee B, Shen X, Park YJ, **Hematti P**, Djalilian AR. Role of Human Corneal Mesenchymal Stromal Cell-derived Exosomes in Corneal Epithelial Wound Healing. ARVO 2018 Annual Meeting. April 2018; Honolulu, Hawaii
101. Kaufman DB, Haynes L, Burlingham W, **Hematti P**, Forrest L, Post P, Jankowska-Gan E, Jensen K, Strober S. Tomotherapy and Hematopoietic Stem Cells for Tolerance to Kidney Transplants in Rhesus

- Macaques. 27th International Congress of the Transplantation Society; June 2018; Madrid, Spain
102. Kaufman DB, Haynes L, **Hematti P**, Burlingham W, Forest L, Post J, Redfield R, Fernandez L, D'Alessandro A, Haynes J, Jensen K, Strober S. Tomotherapy and Donor Hematopoietic Cells for Tolerance to Kidney Transplants in Rhesus Macaques. American Transplant Congress. June, 2018; Seattle, Washington
 103. Chamberlain CS, Clements AEB, Kink JA, Choi U, Pederson JD, **Hematti P**, Vanderby R. Exosome Educated Macrophages Improve Tendon Healing Compared to Exosomes. poster presentation. Orthopaedic Research Society Tendon Section Meeting. November 2018: Portland, Oregon
 104. Solomon SR, Martin AS, Shah NN, Fatobene G, Al Malki M, Ballen KK, Bashey A, Bejanyan N, Bolaños-Meade J, Brunstein CG, Defilipp Z, Champlin RE, Fuchs EJ, Hamadani M, **Hematti P**, Kanakry CG, McGuirk JP, McNiece IK, Ciurea SO, Pasquini MC, Rocha V, Romee R, Patel SS, Vasu S, Waller EK, Wingard JR, Zhang M, Eapen M. T-Replete Haploidentical Cell Transplantation Using Post-Transplant Cyclophosphamide for Acute Myeloid Leukemia, Acute Lymphoblastic Leukemia and Myelodysplastic Syndrome: Effect of Transplant Conditioning Regimen Intensity on Outcomes (oral). American Society of Hematology Meeting. December 2018, San Diego, CA
 105. Tanimura N, Liao R, Wilson GM, Dent MR, Cao M, Burstyn JN, **Hematti P**, Liu X, Zhang Y, Zheng Y, Keles S, Xu J, Coon JJ, Bresnick EH. GATA/Heme Multi-Omics Reveals a Trace Metal-Dependent Erythrocyte Developmental Mechanism (Oral Presentation). American Society of Hematology Meeting. December 2018, San Diego, CA
 106. D'Angelo CR, Hall AC, Kim K, Mattison RJ, Longo WL, **Hematti P**, Callander NS, Juckett M. A Phase II Study of Decitabine Followed By Allogeneic Hematopoietic Stem Cell Transplantation in High-Risk Patients with Myeloid Malignancies (Poster Presentation). American Society of Hematology Meeting. December 2018, San Diego, CA
 107. Chamberlain CS, Clements AEB, Kink JA, Choi U, Pederson JD, **Hematti P**, Vanderby R. Exosome Educated Macrophages Improve Tendon Healing Compared to Exosomes. Oral presentation. Annual meeting of Orthopaedic Research Society. Feb 2019: Austin, Texas
 108. Gahvari ZJ, Lasarev M, Eickhoff JC, Hall AC, **Hematti P**, Juckett MB, Kenkre VP, Callander NS. Severe Obesity Does Not Worsen Transplantation Outcome in Multiple Myeloma. NCCN Annual Meeting. March 2019, Orlando, Florida
 109. Costanzo ES, Nelson AM, Juckett MB, Coe CL, **Hematti P**, Rumble ME. Long-Term sleep disruption following hematopoietic stem cell transplantation: Relevance and biobehavioral predictors. 77th Annual Scientific Meeting of the American-Psychosomatic-Society on Body to Mind. Vancouver, Canada, March 2019
 110. Putra I, Shen X, Nguyen T, Rabiee B, Anwar KN, Afsharkhamseh N, Jabbehdari S, Yazdanpanah G, Eslani M, Joslin C, Dana R, **Hematti P**, Djalilian AR. Pre-Clinical Evaluation of the Safety of Subconjunctivally Injected Bone Marrow Mesenchymal Stem Cells in Rodents and Rabbits. ARVO 2018 Annual Meeting. April 2019: Vancouver, Canada
 111. Jabbehdari S, Yazdanpanah G, Putra I, Anwar KN, Shen X, Rabiee B, Eslani M, **Hematti P**, Djalilian AR. Efficient Expansion of Corneal Mesenchymal Stromal Cells with Preserved Therapeutic Effects. ARVO 2018 Annual Meeting. April 2019: Vancouver, Canada
 112. Pytel N, McDowell K, Desantes K, Capitini C, **Hematti P**, Leith C, Sondel P, Otto M. TCR α /CD19 Depleted Haplo-HSCT + Zoledronate for pediatric malignancies: Preliminary findings. American Society of Pediatric Hematology/Oncology (ASPHO) Meeting. May 2019: New Orleans, Louisiana
 113. Rentscher KE, Cole SW, Carroll JE, Coe CL, **Hematti P**, Kim J., Juckett MB, Lamkin DM, Costanzo ES. Social Attachment Predicts Inflammatory and Anti-Viral Signaling in Individuals Undergoing Autologous Hematopoietic Stem Cell Transplantation. 26th Annual Scientific Meeting of the Psychoneuroimmunology Research Society. June 2019, Berlin, Germany
 114. Gahvari ZJ, Lasarev M, Eickhoff JC, Hall AC, **Hematti P**, Juckett MB, Kenkre VP, Callander N. Severe Obesity Does Not Worsen Transplantation Outcome in Multiple Myeloma. 17th International Myeloma Workshop, September 2019, Boston, Massachusetts
 115. Destrampe E, Connor J, **Hematti P**, Raife T. Are Heritable Red Blood Cell Parameters Transferred from Donor to Recipient in Stem Cell Transplantation? A Retrospective Review of an AML/MDS Cohort at a Tertiary Care Hospital. 2019 AABB Annual Meeting. October 2019, San Antonio, Texas
 116. Pasquini M, Hu ZH, Zhang YY, Grupp, S, **Hematti P**, Jaglowski S, Keating A, Nikiforow S, Philips C, Pulsipher M, Shah S, Steinert P, Yanik G, Wang HL, Horowitz M, Bleikardt E. Real World Experience of Tisagenlecleucel Chimeric Antigen Receptor (CAR) T-Cells Targeting CD19 in Patients with Acute Lymphoblastic Leukemia (ALL) and Diffuse Large B-Cell Lymphoma (DLBCL) Using the

- Center for International Blood and Marrow Transplant Research (CIBMTR) Cellular Therapy (CT) Registry. Society of Hematologic Oncology 2019 Annual Meeting. September 2019, Houston, Texas
117. Papadas A., Flietner E, Morrow Z, Wiesner J, Cicala A, Pagenkopf A, Hope CL, Rajagopalan A, Wen Z, Emmerich P, Deming D, Miyamoto S, **Hematti P**, Callander NS, Rakhmilevich A, Otto M, Capitini CM, Zhang J, Asimakopoulos F. Versican Proteolytic Fragments (Matrikines) Regulate the Intratumoral Dendritic Cell Milieu In Vivo: Implications for in Situ Tumor Vaccination. (Poster Presentation) 61st Annual American Society of Hematology Meeting. December 2019, Orlando, Florida
 118. D'Angelo C, Sudakaran S, **Hematti P**, Asimakopoulos F, Augustine C, Safdar N, Callander NS. Impact of Antibiotics on Gut Microbiota Diversity and the Results of a Prospective Dietary Assessment in Patients with Multiple Myeloma Undergoing Autologous Hematopoietic Stem Cell Transplantation. (Poster Presentation) 61st Annual American Society of Hematology Meeting. December 2019, Orlando, Florida
 119. Dhakal B, Mushtaq MU, Cunningham A, Papadas A, Pagenkopf A, Wiesner J, Leith C, **Hematti P**, Hari P, Callander NS, Asimakopoulos F. Versican (VCAN) Proteolysis Predicts Survival in Multiple Myeloma (MM) after High Dose Therapy and Autologous Hematopoietic Cell Transplantation (HDT/AHCT). (Poster Presentation) 61st Annual American Society of Hematology Meeting. December 2019, Orlando, Florida
 120. Jaglowski S, Hu ZH, Zhang Y, Kamdar M, Ghosh M, Lulla P, Sasine J, Perales MA, **Hematti P**, Nikiforow S, Steinert P, Jeschke M, Yi L, Chawla R, Pacaud L, Horowitz MM, Bleickardt E, Pasquini MC. Tisagenlecleucel Chimeric Antigen Receptor (CAR) T-Cell Therapy for Adults with Diffuse Large B-Cell Lymphoma (DLBCL): Real World Experience from the Center for International Blood & Marrow Transplant Research (CIBMTR) Cellular Therapy (CT) Registry. (Oral Presentation) 61st Annual American Society of Hematology Meeting. December 2019, Orlando, Florida
 121. Pasquini MC, Locke FL, Herrera AF, Siddiqi T, Ghobadi A, Komanduri KV, Hu ZH, Dong H, **Hematti P**, Nikiforow S, Steinert P, Purdum A, Horowitz MM, Hooper M, Kawashima J, Jacobson CA. Post-Marketing Use Outcomes of an Anti-CD19 Chimeric Antigen Receptor (CAR) T Cell Therapy, Axicabtagene Ciloleucel (Axi-Cel), for the Treatment of Large B Cell Lymphoma (LBCL) in the United States (US). (Oral Presentation) 61st Annual American Society of Hematology Meeting. December 2019, Orlando, Florida
 122. Grupp S, Hu ZH, Zhang Y, Keating A, Pulsipher MA, Philips C, Margossian SP, Rosenthal J, Salzberg D, Schiff DE, Yanik G, Curran KJ, Harris AC, **Hematti P**, Nikiforow S, Steinert P, Yi L, Chawla R, Horowitz MM, Bleickardt E, Pasquini MC. Tisagenlecleucel Chimeric Antigen Receptor (CAR) T-Cell Therapy for Relapsed/Refractory Children and Young Adults with Acute Lymphoblastic Leukemia (ALL): Real World Experience from the Center for International Blood and Marrow Transplant Research (CIBMTR) and Cellular Therapy (CT) Registry. (Poster Presentation) 61st Annual American Society of Hematology Meeting. December 2019, Orlando, Florida
 123. Bennani NN, Maurer MJ, Nastoupil LN, Jain MD, Chavez JC, Cashen AF, Dahiya S, LJ Lekakis, Reagan PM, Oluwole OO, McQuirk JP, Deol A, Sehgal AR, Goy A, Hill BT, Vu K, Andreadis C, Munoz J, Rapoport AP, Vose JM, Miklos DB, Locke FL, Neelapu SS, Lin Y. Aggressive Lymphoma (Diffuse Large B-Cell and Other Aggressive B-Cell Non-Hodgkin Lymphomas)—Results from Retrospective/Observational Studies: Cellular Therapies. (Oral Presentation) 61st Annual American Society of Hematology Meeting. December 2019, Orlando, Florida
 124. Chamberlain CS, Wildenauer LA, McCaughey M, Kink JA, **Hematti P**, Vanderby R. Exosome Educated Macrophages Improve Ligament Healing. (Moderated Poster Presentation with award). Orthopaedic Research Society Annual Meeting. February 2020, Phoenix, Arizona
 125. D'Angelo CR, Sudakaran S, Asimakopoulos F, **Hematti P**, Augustine C, Safdar N, Callander NS. Impact of Antibiotics on Gut Microbiota Diversity and the Results of a Prospective Dietary Assessment in Patients with Multiple Myeloma Undergoing Autologous Hematopoietic Stem Cell Transplantation. American Society for Transplantation and Cellular Therapy Meeting. February 2020, Orlando, Florida
 126. Costanzo ES, **Hematti P**, Coe CL, Knight JM, Juckett MB. Prevalence and Biobehavioral Predictors of Early and Long-Term Fatigue Following Hematopoietic Stem Cell Transplantation. Oral Presentation. American Society for Transplantation and Cellular Therapy Meeting. February 2020, Orlando, Florida
 127. Avigan DE, Shah N, Logan B, Zhu J, Bisharat L, Callander MS, Chodon T, Dhakal B, Efebera YA, Geller N, **Hematti P**, Herman M, Lazarus HM, McKenna Jr DH, Nelson C, Nooka A, O'Brien K, O'Donnell LC, Rapoport AP, Rosenblatt J, Soiffer RJ, Stroopinsky D, Torka P, Uhl L, Waller EK, Wu J, Young JW, Pasquini MC, Chung DJ. Evaluation of Tumor Vaccine Generation in a Phase II Multicenter Trial

- of Single Autologous Hematopoietic Cell Transplant (AutoHCT) Followed By Lenalidomide Maintenance for Multiple Myeloma (MM) with or without Vaccination with Dendritic Cell/ Myeloma Fusions (DC/MM fusion vaccine): Blood and Marrow Transplant Clinical Trials Network (BMT CTN) 1401. Oral Presentation. American Society for Transplantation and Cellular Therapy Meeting. February 2020, Orlando, Florida
128. Sethakorn N, Kosoff D, Heninger E, Soto JM, Yu JQ, Das R, Jarrard D, Galipeau J, **Hematti P**, Dehm S, Beebe DJ, Lang JM. A multicellular, microfluidic model of the human bone marrow niche in metastatic cancers. AACR Special Conference on the Evolving Landscape of Cancer Modeling. March 2020. San Diego, CA
129. Papadas A, Flietner E, Morrow Z, Wiesner J, Cicala A, Pagenkopf A, Hope C, Emmerich P, Deming D, Zhang J, **Hematti P**, Callander N, Rakhmilevich A, Otto M, Capitini C, Asimakopoulos F. Versican proteolytic fragments (matrikines) synergize with STING agonists to elicit robust anti-tumor CD8+ T cell responses. Oral Presentation, AACR Annual Meeting. April 2020, San Diego, California (Virtual Meeting due to COVID-19).
130. Roy S, Spinali K, Schmuck EG, Kink J, **Hematti P**, Raval AN. Cardiac fibroblast derived matrix-educated macrophages express VEGF and IL-6, and recruit mesenchymal stromal cells. American Heart Association Annual Meeting November 2020, (Virtual).
131. Lee CJ, Wang T, Chen K, Spellman SR, Kitko C, MacMillan ML, Pidala JA, Auletta JJ, Badawy S, Battiwalla M, Bhatt VR, Buchbinder D, Cahn JY, DeFilipp Z, Diaz MA, Farhadfar N, Gadalla ZM, Gale RP, Hashem H, Hashmi SK, **Hematti P**, Hong S, Hossain N, Inamoto Y, Kamble RT, Kumar A, Lekakis LJ, Modi D, Patel S, Savani B, Sharma A, Solomon SR, Verdonck L, Arora M, Couriel DR.. Impact of Chronic Graft-Versus-Host Disease on First Late Effect Among Adult Survivors of Hematopoietic Cell Transplantation: A Center for International Blood and Marrow Transplant Research (CIBMTR) Analysis. TCT/Transplantation & Cellular Therapy Meeting, February 2021 (Virtual).
132. Muhammad UmairMushtaq, Harrington AM, Chaudhary SG, Michaelis LC, Carlson KS B, Abedin S, Runass L, Callander NS, Juckett MB, Hall AC, **Hematti P**, Mattison RJ, Atallah EL, Guru Murthy GS. Prognostic Significance of Minimal/Measurable Residual Disease in Patients Undergoing Allogeneic Hematopoietic Stem Cell Transplantation for Relapsed/Refractory Acute Myeloid Leukemia. Poster Presentation at TCT/ Transplantation & Cellular Therapy Meeting, February 2021 (Virtual).
133. Lee CJ, Wang T, Chen K, Spellman SR, Kitko C, MacMillan ML, Pidala JA, Auletta JJ, Badawy S, Battiwalla M, Bhatt VR, Buchbinder D, Cahn JY, DeFilipp Z, Diaz MA, Farhadfar N, Gadalla ZM, Gale RP, Hashem H, Hashmi SK, **Hematti P**, Hong S, Hossain N, Inamoto Y, Kamble RT, Kumar A, Lekakis LJ, Modi D, Patel S, Savani B, Sharma A, Solomon SR, Verdonck L, Arora M, Couriel DR. First Late Effect in Pediatric Survivors with Chronic Graft-Versus-Host Disease Following Hematopoietic Cell Transplantation for Hematologic Malignancy. TCT/ Transplantation & Cellular Therapy Meeting, February 2021 (Virtual).
134. D'Angelo CR, Sudakaran S, Asimakopoulos F, **Hematti P**, Safdar N, Callander NS. The Gut Microbiome Is Shaped By Pre-Transplant Dietary Intake, Damaged By Broad-Spectrum Antibiotic Exposure, and Is Associated with Response to Autologous Stem Cell Transplantation in Patients with Multiple Myeloma. Oral Presentation at TCT/ Transplantation & Cellular Therapy Meeting, February 2021 (Virtual).
135. Foster MA, Juckett MB, **Hematti P**, Costanzo ES. Psychological and Physical Function in Allogeneic Hematopoietic Cell Transplant Survivors with Chronic Graft-Versus-Host Disease. TCT/ Transplantation & Cellular Therapy Meeting, February 2021 (Virtual).
136. Foster MA, Juckett MB, **Hematti P**, Costanzo ES. Psychological and Physical Function in Allogeneic Hematopoietic Cell Transplant Survivors with Chronic Graft-Versus-Host Disease. Poster Presentation at the Annual Meeting of the American Psycho-Oncology Society, March 2021 (Virtual).
137. Nguyen-Truong M, Kim S, Doherty C, Frederes M, Kaonis S, Ghosh S, **Hematti P**, Wagner W, Wang Z. Stiffness and anisotropy dependent proangiogenic potential of mesenchymal stromal cells. Summer Biomechanics, Bioengineering and Biotransport Conference June 2021 (Virtual).
138. Capitini CM, Kink JA, Bellio MA, Forsberg MH, Ong IM, **Hematti P**. Clinical scale production of exosomes from mesenchymal stromal cells to effectively treat military-related tissue injuries. The 2021 Military Health System Research Symposium (Virtual). August 2021, Kissimmee, FL.
139. Capitini CM, Kink JA, Bellio MA, Forsberg MH, Chinnadurai R, **Hematti P**. Exosomes from Mesenchymal Stromal Cells Primed with a Synthetic Toll-like Receptor 4 Agonist are an Effective

- Treatment of Hematopoietic Acute Radiation Syndrome. The 2021 Military Health System Research Symposium (Virtual). August 2021, Kissimmee, FL
140. Mushtaq MU, Shahzad M, Zafar MU, Arslan M, Tariq E, Fatima N, Bokhari SS, Shahani J, Anwar I, Chaudhary SG, Singh AK, Abhyankar S, Callander NS, **Hematti P**, McGuirk JP. Outcomes with Mismatched Unrelated Donor Allogeneic Hematopoietic Stem Cell Transplantation: A Systematic Review and Meta-Analysis. Poster presentation at: American Society of Hematology 63RD Annual Meeting, December 2021, Atlanta, GA
 141. Mushtaq MU, Shahzad M, Shah AY, Zafar MU, Tariq E, Hamid A, Serwat A, Anwar I, Chaudhary SG, Ahmed N, Abhyankar S, Callander NS, **Hematti P**, McGuirk JP. Outcomes with Natural Killer Cells Infusion after Allogeneic Hematopoietic Stem Cell Transplantation: A Systematic Review and Meta-Analysis. Poster presentation at: American Society of Hematology 63RD Annual Meeting, December 2021, Atlanta, GA
 142. Shahzad M, Faisal MS, Tariq E, Hussain A, Arslan M, Thammineni V, Syed L, Karam A, Anwar I, Chaudhary SG, Ahmed N, Lin TL, Abhyankar S, **Hematti P**, McGuirk JP, Mushtaq MU. Outcomes of Tyrosine Kinase Inhibitors Maintenance Therapy with or without Allogeneic Hematopoietic Stem Cell Transplantation in Philadelphia Positive Acute Lymphoblastic Leukemia in First Complete Remission: A Systematic Review and Meta-Analysis. Poster presentation at: American Society of Hematology 63RD Annual Meeting, December 2021, Atlanta, GA
 143. Shahzad M, Chaudhary SG, Tariq E, Fatima N, Arslan M, Zafar MU, Shah AY, Ahmed M, Anwar I, Ahmed N, Shune L, Balusu R, **Hematti P**, McGuirk JP, Mushtaq MU. Outcomes with Mismatched Unrelated Donor Allogeneic Hematopoietic Stem Cell Transplantation Following Reduced Intensity Conditioning: A Systematic Review and Meta-Analysis. Poster presentation at: American Society of Hematology 63RD Annual Meeting, December 2021, Atlanta, GA
 144. Iqbal Q, Shahzad M, Tariq E, Hashim L, Basit A, Zaidi K, Faisal MS, Anwar I, Chaudhary SG, Balusu R, Ahmed N, Shune L, **Hematti P**, McGuirk JP, Mushtaq MU. Outcomes with Hematopoietic Stem Cell Transplantation in Secondary Hemophagocytic Lymphohistiocytosis: A Systematic Review and Meta-Analysis. Poster presentation at: American Society of Hematology 63RD Annual Meeting, December 2021, Atlanta, GA.
 145. Hess NJ, Turicek D, Hudson A, **Hematti P**, Gumperz J, Capitini CM. Differentiation of a CD4/CD8?? Double Positive T Cell Population from the CD8 Pool Is Both Predictive and Sufficient to Mediate Graft-Vs-Host Disease. Poster presentation at: American Society of Hematology 63RD Annual Meeting, December 2021, Atlanta, GA.
 146. Chung DJ, Shah N, Stroopinsky D, Wu J, Bisharat L, Callander N, Logan B, Anderson K, Chodon T, Dhakal B, Devine S, Efebera Y, Geller G, Hemati P, Holmberg L, Howard A, Johnson B, Lazarus H, Malek E, McCarthy P, McKenna D, Mendizabal A, Munshi N, O'Donnell L, Rapoport AP, Nooka A, Reese J, Soiffer R, Uhl L, Cheloni G, Karagkouni D, Vlachos IS, Young J, Rosenblatt J, Waller EK, Pasquini MC, Avigan D. Impact of Autologous Hematopoietic Cell Transplant (HCT) followed by Dendritic Cell/Myeloma Fusion Vaccine with Lenalidomide Maintenance on Increasing Multiple Myeloma (MM)-Specific Immunity. Oral presentation at: American Society of Hematology 63RD Annual Meeting, December 2021, Atlanta, GA
 147. Park JH, Nikiforow S, Kim S, Hu ZH, Moskop A, Ahmed S, Bilal Abid M, Badar T, Bredeson C, Brown V, Cairo MS, Díaz M, Dholaria B, Ganguly S, Grover NS, Hanna R, **Hematti P**, Kohorst MA, Lazarus H, Lekakis LJ, Locke FL, Murthy HS, Mussetti A, Pulsipher MA, Qayed M, Reshef R, Rizzieri DA, Salas MQ, Savani BB, Sharma A, Schultz KR, Thakar M, Turtle C, Yared JA, Wagner JL, Qiu X, Pasquini MC, and Perales MA. Impact of Allogeneic Hematopoietic Cell Transplantation (HCT) As Consolidation Following CD19 Chimeric Antigen Receptor (CAR) T Cell Therapy for Treatment of Relapsed Acute Lymphoblastic Leukemia (ALL). Poster presentation at: American Society of Hematology 63RD Annual Meeting, December 2021, Atlanta, GA
 148. Shahzad M, Gull Chaudhary S, Hussain A, Tariq E, Iqbal Q, Rahman RU, Anwar I, Ahmed N, Abhyankar S, **Hematti P**, McGuirk JP, Mushtaq MU. Outcomes with Allogeneic Hematopoietic Stem Cell Transplantation in TP53-Mutated Acute Myeloid Leukemia: A Systematic Review and Meta-Analysis. Poster Presentation at Tandem Meetings/ Transplantation & Cellular Therapy Meetings of ASTCT and CIBMTR, February 2022, Salt Lake City, UT.
 149. Shahzad M, Gull Chaudhary S, Iqbal Q, Tariq E, Hussain A, Altaf S, Anwar I, Ahmed N, Abhyankar S, **Hematti P**, McGuirk JP, Mushtaq MU. Outcomes with Allogeneic Hematopoietic Stem Cell Transplantation in TP53-Mutated Myelodysplastic Syndromes: A Systematic Review and Meta-Analysis. Poster Presentation at Tandem Meetings/ Transplantation & Cellular Therapy Meetings of

- ASTCT and CIBMTR, February 2022, Salt Lake City, UT
150. Shahzad M, Iqbal Q, Tariq E, Inam F, Khan MS, Hussain M, Chaudhary SG, Anwar I, Abhyankar S, **Hematti P**, Callander NS, Ahmed N, Shune L, McGuirk JP, Mushtaq MU. Outcomes of Allogeneic Hematopoietic Stem Cell Transplantation in Primary Plasma Cell Leukemia: A Systematic Review and Meta-Analysis. Poster Presentation at Tandem Meetings/ Transplantation & Cellular Therapy Meetings of ASTCT and CIBMTR, February 2022, Salt Lake City, UT
 151. Iqbal Q, Shahzad M, Tariq E, Khan H, Hussain M, Inam F, Gull Chaudhary S, Anwar I, Abhyankar SH, **Hematti P**, Callander N, Ahmed N, Shune L, McGuirk JP, Mushtaq MU. Outcomes of Autologous Stem Cell Transplantation in Primary Plasma Cell Leukemia: A Systematic Review and Meta-Analysis. Poster Presentation at Tandem Meetings/ Transplantation & Cellular Therapy Meetings of ASTCT and CIBMTR, February 2022, Salt Lake City, UT.
 152. Venkata Thammineni, Moazzam Shahzad, Maha A. Hassan, Muhammad H. Khan, Atif Khan, Ali Hussain, Saba Ahmed, Zobia Hussain, Iqra Anwar, Sibgha Gull Chaudhary, Nausheen Ahmed, Sunil H. Abhyankar, Natalie S. Callander, Joseph P. McGuirk, **Hematti P**, and Muhammad Umair Mushtaq. Impact of CD34+ Graft Cell Dose on Outcomes after Allogeneic Peripheral Blood Stem Cell Transplantation: A Systemic Review and Meta-Analysis. Poster Presentation at Tandem Meetings/ Transplantation & Cellular Therapy Meetings of ASTCT and CIBMTR, February 2022, Salt Lake City, UT.
 153. Chung DJ, Shah N, Stroopinsky D, Wu J, Bisharat L, Callander NS, Logan B, Anderson KC, Dhakal B, Devine SM, Efebera Y, Geller N, **Hematti P**, Holmberg LA, Howard A, Johnson BD, Lazarus HM, Malek E, McCarthy PL, McKenna DH, Mendizabal A, Munshi NC, O'Donnell LC, Rapoport AP, Nooka A, Reese JS, Soiffer RJ, Uhl L, Cheloni G, Karagkouni D, Vlachos I, Young J, Rosenblatt J, Waller EK, Pasquini MC, Avigan DE. Dendritic Cell/Multiple Myeloma (MM) Fusion Vaccine with Lenalidomide Maintenance after Autologous Hematopoietic Cell Transplant (HCT) Induces MM-Specific Immunity, BMT CTN 1401. Tandem Meetings/ Transplantation & Cellular Therapy Meetings of ASTCT and CIBMTR, February 2022, Salt Lake City, UT.
 154. Hess NJ, Nadiminti K, **Hematti P**, Capitini CM. Interim Analysis of T Cell Specific Predictive Biomarkers of Graft-Vs-Host Disease and Relapse Following Post Transplant Cyclophosphamide Prophylaxis. Best Oral Abstract Presentation at Tandem Meetings/ Transplantation & Cellular Therapy Meetings of ASTCT and CIBMTR, April 2022, Salt Lake City, UT.
 155. Costanzo ES, Nelson AM, Coe CL, Knight JM, **Hematti P**, Juckett MB. Prevalence and biobehavioral predictors of early and long-term fatigue following hematopoietic stem cell transplantation. Oral presentation at the Annual Meeting of the American Psychosomatic Society, March 2022 Long Beach, California.
 156. Hansen JL, Juckett MB, Foster MA, Rumble ME, Morris KE, **Hematti P**, Costanzo ES. The influence of chronic graft-versus-host disease on psychological and physical function in allogeneic hematopoietic cell transplant patients. Poster presentation at the Annual Meeting of the American Psychosomatic Society, March 2022 Long Beach, California.
 157. Hansen JL, Rumble ME, Coe CL, Foster MA, Juckett MB, Dickson DA, Morris KE, **Hematti P**, Costanzo ES. Biobehavioral mechanisms underlying psychological and physical function in cancer patients with chronic graft-versus-host disease. Poster presentation at the Annual Meeting of the American Psychosomatic Society, March 2022 Long Beach, California.
 158. Margolis M, Jung R, Tu G, An S, Dana R, Jeng BH, Basu S, Rosenblatt M, **Hematti P**, Mahmud N, Joslin CE, Djalilian Phase I Study of the Safety of Locally Delivered Allogeneic Mesenchymal Stem Cells for Promoting Corneal Repair: Early Results. ARVO Annual Meeting, May 2022, Denver, Colorado.
 159. Wilson N, Reese SR, Ptak L, Aziz F, Parajuli S, Jucaud V, Denham S, Mishra A, **Hematti P**, Djamali A. Ixazomib for Desensitization (IXADES): Results of a Phase II Clinical Trial. American Transplant Congress, Boston, MA, June 2022.
 160. Soukup A, Matson D, Liu P, Johnson K, **Hematti P**, Bresnick E. Noncoding genetic variation as a determinant of hematopoietic stem cell mobilization efficacy. 51st Annual Scientific Meeting of the International-Society-for-Experimental-Hematology (ISEH), September 2022. Edinburgh, Scotland.
 161. Nguyen-Truong M, Kim S, Ghosh S, **Hematti P**, Chinnadurai R, Wagner WR, Wang Z. Pro-angiogenic potential of mesenchymal stromal cells regulated by matrix stiffness and anisotropy mimicking right ventricles. Summer Biomechanics, Bioengineering and Biotransport Conference June 2022, Eastern Shore, MD.
 162. Greenbaum U, Hashmi H, Elsayy M, Kim S, Moskop A, Awan FT, Farooq U, Ganguly S, **Hematti P**, Jain MD, Kebriaei P, Locke FL, Mead E, Nishihori T, Olson AL, Pennisi M, Perales MA, Geethakumari

- PR, Shouval R, Shpall EJ, Magalhaes-Silverman M, Strouse C, Turtle CJ, Vallurupalli A, Wudhikam K, Pasquini MC, Ahmed S, and Sorrow M. Prognostic Impact of Comorbidities on Outcomes of Patients (pts) with Relapsed or Refractory Large B-Cell Lymphoma (r/r LBCL) Treated with Chimeric Antigen Receptor T-Cell Therapy (CART). Poster Presentation, American Society of Hematology 64th Annual Meeting, December 2022, New Orleans, Louisiana.
163. Mirza A, Hosing C, Foss FM, Kim S, Moskop A, Oloyede T, Ahmed S, **Hematti P**, Turtle CJ, Pasquini MC, and Gowda L. Impact of Age on Outcomes after CD19 Directed CAR T Cell Therapy for Large B Cell Lymphomas: Real World Experience from the Center for International Blood & Marrow Transplant Research (CIBMTR). Poster Presentation, American Society of Hematology 64th Annual Meeting, December 2022, New Orleans, Louisiana.
164. Jiang P, Prabaha A, Kink JA, **Hematti P**, Vanderby R, Walczak B, Chamberlain CS. Modulating The MSC Microenvironment Alters Exosome Content And Ligament Healing Capacity. Poster Presentation at Orthopedic Research Society 2023 Annual Meeting February 2023, Dallas, Texas.
165. Hussain A, Shahzad M, Abbas S, Khan J, Mushtaq AH, Khalild MF, Ud Din MD, Anwar I, Chaudhary SG, **Hematti P**, Abhyankar SH, McGuirk JP, Mushtaq MU. Outcomes with Allogeneic Hematopoietic Stem cell Transplantation in NPM1-Mutated Acute Myeloid Leukemia: A Systematic Review And Meta-Analysis. Poster Presentation at Tandem Meetings of ASTCT™ and CIBMTR® February 2023, Orlando, Florida.
166. Shahzad M, Ilyas U, Ud Din MA, Park R, Tariq E, Iqbal Q, Chaudhary SG, Anwar I, **Hematti P**, Abhyankar SH, McGuirk JP, Mushtaq MU. Outcomes after HLA-Mismatched Unrelated Donor Hematopoietic Stem Cell Transplantation with Post- Transplant Cyclophosphamide for Graft-Vs-Host Disease Prophylaxis: A Systematic Review and Meta-Analysis. Poster Presentation at Tandem Meetings of ASTCT™ and CIBMTR® February 2023, Orlando, Florida
167. Hess J, Kink J, Rosenkrans Z, Forsberg M, Capitini CM, Hernandez R, **Hematti P**. Exosomes from Crx-527 Stimulated MSCs Suppress T Cell Activation and Xenogeneic Gvhd While Preserving GVL. Oral Presentation at Tandem Meetings of ASTCT™ and CIBMTR® February 2023, Orlando, Florida.
168. Chang AY, Soleimani M, Jung R, Tu G, Dana R, Jeng BH, **Hematti P**, Mahmud N, Tu EY, Joslin CE, Djalilian AR. Phase I Study on the Safety of Locally Delivered Allogeneic Mesenchymal Stem Cells for Promoting Corneal Repair. ARVO Annual Meeting, April 2023 New Orleans, LA.
169. Forsberg MH, Kink JA, Bellio MA, Lobo A, Thickers AS, Lewis BM, Ong IM, Khan A, Capitini CM, **Hematti P**. Clinical scale production of exosomes from mesenchymal stromal cells to effectively treat hematopoietic acute radiation syndrome. Oral Presentation at International Society of Extracellular Meeting, May 2023, Seattle, Washington.
170. Jiang P, Kink JA, Prabaha A, LiK, Mueller E, Yopp S, **Hematti P**, Vanderby R, Chamberlain CS. Exosomes as a Non-Surgical, Customizable, Cell-Free Therapy to Accelerate Musculoskeletal Healing. Oral Presentation at Military Health System Research Symposium (MHSRS), August 2023, Kissimmee, Florida.
171. Kink JA, Forsberg MH, Chinnadurai R, **Hematti P**, Capitini CM. Off-the-shelf extracellular vesicle-based therapy generated by a synthetic TLR4 agonist to treat hematopoietic acute radiation syndrome. Oral Presentation at Military Health System Research Symposium (MHSRS), August 2023, Kissimmee, Florida.
172. Karagkouni D, Cheloni G, Torres D, Chung D, Shah N, Callander N, Chodon T, Efebera Y, Geller N, **Hematti P**, Lazarus H, Malek E, McCarthy P, Nooka A, Rosenblatt J, Rapoport A, Soiffer R, Bisharat L, Stroopinsky D, Waller E, Pasquini M, Vlachos I, Avigan D. Dendritic cell/myeloma fusion vaccine with lenalidomide maintenance following autologous hematopoietic cell transplant (HCT) results in long-term sustained T cell activation and clonotypic expansion. International Myeloma Society 20th Annual Meeting. 27-30 September 2023 • Megaron Athens International Conference Centre Athens, Greece.
173. Wilcox DA, Armant M, Malec L, Shi Q, Johnson BD, Xu H, Du LM, Duffy LJ, Bushman FD, Jerkins JH, **Hematti P**, Brazauskas R, Jobe SM, Hari PN, Eapen M. Gene Therapy Expressing Platelet Derived Factor VIII for Correction of Hemophilia A with a History of Inhibitors. Poster Presentation at 65th America Society of Hematology Meeting, December 2023, San Diego, California.
174. Shah NN, Furqan F, Szabo A, Kears T, Zamora A, Neumann J, Hari PN, Schneider D, Longo W, **Hematti P**, Johnson BD, Hamadani M, Fenske TS. CAR-T Cell Therapies for Multiple Myeloma and B Cell Lymphomas 30 PM Oral Presentation at 65th America Society of Hematology Meeting, December 2023, San Diego, California.