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CURRICULUM VITAE

David A. Wilcox PhD

Associate Professor
Department of Pediatrics
Division of Hematology and Oncology - Pediatrics

OFFICE ADDRESS:

MACC Fund Research Center
8701 Watertown Plank Rd
Milwaukee, WI 53226

EDUCATION:

1987 BS Chemistry, University of Wisconsin, Platteville, WI
1994 PhD, Cell Biology, Medical College of Wisconsin, Milwaukee, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

06/1986 - 08/1986 Summer Intern, Wisconsin State Crime Lab, University of Wisconsin, Milwaukee, WI
07/1986 Arson Investigator Training Program, FBI Bomb Data Program, Racine, WI
06/1987 - 06/1988 Volunteer, Emergency Room, St. Mary's Hospital, Racine, WI
06/1988 - 09/1988 Research Assistant, Psychiatry, Medical College of Wisconsin, Milwaukee, WI
09/1988 - 08/1989 Research Assistant, Cellular Biology and Anatomy, Medical College of Wisconsin, Milwaukee, WI
09/1989 - 06/1994 Graduate Student, Cellular Biology and Anatomy, Medical College of Wisconsin/Blood Research Institute of the BloodCenter of Wisconsin, Milwaukee, WI
07/1994 - 04/1999 Postdoctoral Fellow, Medicine and Pharmacology, Medicine and Pharmacology, University of North Carolina, Chapel Hill, NC

FACULTY APPOINTMENTS:

1999 - 2005 Assistant Professor, Pediatrics, Hematology/Oncology/BMT, Medical College of Wisconsin, Milwaukee, WI
1999 - Present Associate Investigator, Blood Research Institute, The BloodCenter of Wisconsin, Milwaukee, WI
2005 - 2008 Research Associate Professor, Pediatrics, Medical College of Wisconsin, Milwaukee, WI
2008 - Present Associate Professor, Pediatrics, Hematology/Oncology/BMT, Medical College of Wisconsin, Milwaukee, WI
2016 - Present Adjunct Investigator, Blood Research Institute, Blood Center of Wisconsin, Milwaukee, WI

AWARDS AND HONORS:

1992 Travel Award, American Heart Association
1993 Travel Award, American Society of Hematology
1994 - 1995 National Research Service Award, National Institutes of Health
1996 Travel Award, American Society of Hematology
1997 Travel Award, American Society of Hematology
1998 Travel Award, American Society of Hematology
1999 Young Investigator Award, International Society for Thrombosis and Haemostasis
2003 Invited Session Chair, International Society of Thrombosis and Haemostasis
03/2005 Invited Discussion Leader, Gordon Research Conference on Cell Biology of Megakaryocytes and Platelets, Santa Barbara, CA
02/2011 Best Abstract in Basic Research, American Society for Bone Marrow Transplant, Honolulu, HI
09/2019 MCW Longevity Award for 20 years of service to the College, Medical College of Wisconsin

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

American Society of Gene Therapy (ASGCT) (Member)
American Heart Association (Scientific Council Member)
Royal Society of Medicine-Overseas Fellow (Member)
International Society of Thrombosis and Haemostasis (ISTH) (Member)
American Society of Hematology (ASH) (Member)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorial Board

1999 - Present Thrombosis and Haemostasis, Scientific Reviewer
2002 - Present Journal of Thrombosis and Haemostasis, Scientific Reviewer
2003 - Present Blood, Scientific Reviewer
2003 - Present Biology of Blood and Marrow Transplantation, Scientific Reviewer
2006 - Present Translational Research, Scientific Reviewer
2007 - Present Platelets, Scientific Reviewer
2008 - Present ILAR Journal, Scientific Reviewer
2009 - Present Human Gene Therapy, Scientific Reviewer
2010 - Present Gene Therapy, Scientific Reviewer
2011 - Present Haemophilia, Scientific Reviewer
2011 - Present Thrombosis Research, Scientific Reviewer
2011 - Present Proceedings of The National Academy of Sciences, Scientific Reviewer
2011 - Present Curator, U of Chambridge Thrombogenomics Database for Glanzmann Thrombasthenia
2011 - Present Curator, Mt. Sinai School of Medicine/Glanzmann Thrombasthenia Database
2012 - Present Indian Journal of Sexually Transmitted Diseases and AIDS, Scientific Reviewer
2012 - Present European Journal of Human Genetics, Scientific Reviewer
2012 - Present PLOS, Scientific Reviewer
2013 - Present Haematologica Journal, Scientific Reviewer

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2012 - 2016 Co-Chairman, Institutional Biosafety Committee and Joint Safety Committee, Medical College of Wisconsin

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2004 Ad Hoc Reviewer, Study Section for Hemostasis and Thrombosis, National Institute of Health (NIH)
2005 Ad Hoc Reviewer, Haemophilia Research United Kingdom
2006 Ad Hoc Reviewer, Association Francaise Contre Les Myopathies, France
2007 Ad Hoc Reviewer, Study Section for Hemostasis and Thrombosis, National Institute of Health (NIH)
2007 Ad Hoc Reviewer, Study Section for Clinical Hematology, National Institute of Health (NIH)
2008 Ad Hoc Reviewer, Study Section for Hemostasis and Thrombosis, National Institute of Health (NIH)
2009 Ad Hoc Reviewer, Study Section for Hemostasis and Thrombosis (Stimulus Grants), National Institute of Health (NIH)
2009 Ad Hoc Reviewer, Study Section for Hemostasis and Thrombosis (Feb., National Institute of Health (NIH)
2010 Collaborator, Thrombogenomics Committee, Glanzmann Thrombasthenia Section
03/2011 Abstract Reivewer, International Society of Thrombosis and Haemostasis
07/2011 Ad Hoc Reviewer, Study Section for Viruses and Immunity PPG, National Institute of Health (NIH)
10/2011 Ad Hoc Reviewer, Study Section for Hemostasis and Thrombosis, National Institute of Health (NIH)
2013 - Present Abstract Revewer, American Society of Gene and Cell Therapy
2013 - Present Ad Hoc Reviewer, Study Section for Vascular Biology, National Institute of Health (NIH)
2013 Abstract Reivewer, Iternational Society of Thrombosis and Haemostasis
2014 - Present Ad Hoc Reviewer, Study Section for Vascular Biology & Hematology, National Institute of Health
2016 - Present Scientific Reviewer, American Journal of Hematology
2016 - Present Scientific Reviewer, Blood Advances
2016 - Present Scientific Reviewer, Arteriosclerosis, Thrombosis, and Vascular Biology
2020 Ad Hoc Reviewer, NIH-NHLBI Special Emphasis Panel: TAG Therapeutic Approaches to Gene Expression, NIH-NHLBI

2020 Ad Hoc Reviewer, NIH-NIGMS Special Emphasis Panel; Support of Competitive Research (SCORE) program, supports research at minority serving institutions, NIH-NIGMS

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:	Pilot and Feasibility Study of Hematopoietic Stem Cell Gene Transfer to Utilize Platelet-Derived Factor VIII for Hemophilia A: Transduction process development
Source:	NIH-NHLBI-RSA-Growing Gene & Cell Therapy (GGACT) Cooperative Project Support Consortium
Role:	Project PI (U01 TR0018414, Williams et a., PI) Goal: Receive advisory assistance from Gene Therapy Cooperative to Advance Gene Therapy for Hemophilia A with Platelet FVIII to first in human phase I clinical trial
PI:	Williams et a.
Dates:	05/2017 - 06/2021

Title:	Core Clinical Centers for the Blood and Marrow Transplant Clinical Trials Network
Source:	NIH-NHLBI RFA-HL-17-018 (1UG1HL138641-01 (Hari, P, PI)
Role:	Key Personnel (Project Director for Platelet FVIII Gene Therapy for Hem A)
PI:	Hari, P
Dates:	07/2017 - 06/2022

Title:	A Phase I Clinical Trial Testing Feasibility of Hematopoietic Stem Cell Gene Therapy Using Platelet Factor VIII to Safely Improve Hemostasis for Severe Hemophilia A with Inhibitory Antibodies to FVIII (Scored in Top 5%)
Source:	NIH-NHLBI 1 R01 HL142791-01 A1
Role:	Co-PI
Dates:	04/2019 - 03/2024

Title:	RCL Testing by the National Gene Vector Biorepository
Source:	NIH-NHLBI Contract 75N92019D00018
Role:	Co-PI
Dates:	10/2019 - 12/2023

Non-Peer Review

Title:	Glanzmann Thrombasthenia Research 2020
Source:	Children’s Research Institute/Children’s Hospital of WI
Role:	Principal Investigator
PI:	David Wilcox, PhD

Dates: 01/2020 - 12/2020

Pending

Non-Peer Review

Title: Glanzmann Thrombasthenia Research 2021
Source: Children's Research Institute/Children's Hospital of WI
Role: Principal Investigator
PI: David Wilcox, PhD
Dates: 01/01/2021 - 12/31/2021

Prior

Peer Review

Title: Cell & Molecular Biology of the Human Platelet Fibrinogen Receptor
Source: American Heart Association - Wisconsin Affiliate
Role: Predoctoral Fellowship (90% effort)
Dates: 07/01/1992 - 06/30/1993
Direct Funds: $20,000

Title: Cell & Molecular Biology of the Human Platelet Fibrinogen Receptor
Source: American Heart Association - Wisconsin Affiliate
Role: Predoctoral Fellowship (90% effort)
Dates: 07/01/1993 - 06/30/1994
Direct Funds: $20,000

Title: Platelet-Specific Expression of a Functional Human Fibrinogen Receptor
Source: American Heart Association - North Carolina Affiliate
Role: Postdoctoral Fellowship (%100 effort)
Dates: 07/01/1995 - 06/30/1997
Direct Funds: $60,000

Title: Molecular and Cellular Mechanisms in Transfusion Medicine
Source: NIH NHLB HL44612-15
Role: Collaborator, Program Project Grant (10% effort)
Dates: 05/01/2000 - 04/30/2005
Direct Funds: $32,000

Title: Therapeutic Expression of a Platelet-Specific Integrin
Source: Medical College of Wisconsin New Faculty Grant
Role: Principle Investigator (50% effort)
Dates: 05/25/2001 - 04/30/2002
Direct Funds: $12,500

Title: Therapeutic Expression of a Platelet-

	Specific Integrin
Source:	American Heart Association - Northland Affiliate
Role:	Principal Investigator, Beginning Grant-in-Aid (50% effort)
Dates:	07/01/2001 - 06/30/2003
Direct Funds:	$80,000 (Funding Relinquished 4/1/02, Due to Overlap with NIH Grant)
Title:	Lineage-Specific Gene Expression
Source:	Children's Hospital Foundation
Role:	Principal Investigator (50% effort)
Dates:	07/01/2001 - 06/30/2003
Direct Funds:	$66,000
Title:	Therapeutic Expression of a Platelet-Specific Integrin (Years 1-5)
Source:	NIH NHLB R01-068138
Role:	Principal Investigator (50% effort)
Dates:	04/01/2002 - 06/30/2007
Direct Funds:	$700,000 ($250,000/year In-No-Cost-Extension)
Title:	Structure and Function of TSP1 in Acute Lung Injury
Source:	NIH NHLB R01-071618
Role:	Collaborator (10% effort)
Dates:	11/01/2004 - 10/31/2008
Direct Funds:	$32,000 (Funding Relinquished 11/01/04, PI Relocated to University of Colorado)
Title:	Molecular and Cellular Mechanisms in Transfusion Medicine
Source:	NIH NHLB HL44612-15
Role:	Collaborator, Program Project Grant (5% effort)
Dates:	12/01/2005 - 11/30/2010
Direct Funds:	$16,000
Title:	Platelet-Specific Gene Therapy and its Potential for Correcting Hemophilia
Source:	American Heart Association - Greater Midwest Affiliate
Role:	Grant-in-Aid (20% effort)
Dates:	07/01/2007 - 06/30/2009
Direct Funds:	$132,000
Title:	Therapeutic Expression of a Platelet-Specific Integrin
Source:	NIH NHLB R01-068138
Role:	Principal Investigator (40% effort)
Dates:	07/01/2007 - 06/30/2012
Direct Funds:	$1,385,587
Title:	Translating Pre-Clinical Platelet-Targeted Treatment Protocols Suitable

	for use inHuman Gene Therapy Clinical Trials
Source:	NIH NHLB 00085/Wilcox
Role:	Principal Investigator
Dates:	02/14/2014 - 01/14/2015
Direct Funds:	$150,000
Title:	Platelet-Targeted Gene Therapy for Hemophilia A
Source:	NIH-NHLBI-RSA Gene Therapy Resource Program RFA 1253
Role:	Principal Investigator (0% effort)
Dates:	07/01/2014 - 06/30/2015
Direct Funds:	$70,000
Title:	Platelet-Targeted Gene Therapy for Hemophilia A
Source:	NIH-NHLBI-RSA Gene Therapy Resource Program RFA 1253 (Renewal)
Role:	Principal Investigator
Dates:	04/07/2016 - 06/30/2017
Direct Funds:	$260,000 (Indiana University Vector Production)

Non-Peer Review

Title:	Glanzmann Thrombasthenia Research
Source:	Glanzmann's Research Foundation
Role:	Principal Investigator
Dates:	07/01/2001 - 06/30/2011
Direct Funds:	$189,000 ($10,000/year)
Title:	Glanzmann Thrombasthenia and Hemophilia A Human and Animal Research
Source:	Children's Research Institute (Private Donor work Specific for Wilcox Lab)
Role:	Principal Investigator
Dates:	2008 - 2015
Direct Funds:	$1,800,000 ($350,000/year)
Title:	Glanzmann Thrombasthenia Research
Source:	Cure Glanzmann's Foundation
Role:	Principal Investigator
Dates:	07/01/2010 - 06/30/2011
Direct Funds:	$4,410 ($1000/year)
Title:	Lineage Specific Gene Expression
Source:	MACC Fund
Role:	Principal Investigator
Dates:	07/01/2010 - 06/30/2012
Direct Funds:	$832,159 ($81,184.69/year)
Source:	Children's Research Institute
Dates:	2015 - Present
Direct Funds:	$638,806
Source:	Children's Research Institute

Dates:	2016
Direct Funds:	$726,282

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

National

Invited Presentation An amino acid substitution within the fourth calcium-binding region of GPIIb results in degradation of the integrin GPIIb-IIIa and type I glanzmann thrombasthenia, Annual Meeting of the American Heart Association., 1992

Invited Presentation Glanzmann thrombasthenia resulting from a single amino acid substitution flanking the fibrinogen ?-chain dodecapeptide-binding domain on GPIIb, Annual Meeting of the American Society of Hematology., 1993

Invited Presentation Of mice and men: detection of a functional murine ?IIb?3 heterodimer complex on the surface of megakaryocytes derived from retrovirus transduced bone marrow cells from ?3-knockout mice, Annual Meeting of the American Society of Hematology., 1998

Invited Presentation Use of ?IIb Promoter in Retroviral Constructs, Gordon Research Conference on Hemostasis, Plymouth, NH, 07/2000

Invited Presentation, Targeting Gene Therapy for Inherited Hematological Disorders and The Molecular Basis for Gene Therapy Using Hematopoietic Stem Cells, BMS Seminar/Goodwin Lecturer, Auburn University, AL, 04/2002

Invited Presentation EM localization and agonist-induced release of human FVIII from megakaryocytes transduced with a FVIII transgene, 45th Annual Meeting of the American Society of Hematology, San Diego, CA, 12/2003

Invited Presentation Therapeutic expression of a platelet-specific integrin alphaIIbbeta3, Annual Meeting of the American Society for Gene Therapy., 2003

Invited Scientific Review, NIH Hemostasis and Thrombosis Study Section, 2004

Invited Discussion Leader, Gordon Research Conference on Cell Biology of Megakaryocytes and Platelets, Santa Barbara, CA, 03/2005

Invited Presentation, Therapeutic expression of ?IIb?3 in murine and canine models of Glanzmann thrombasthenia Subcommittee Meeting on Platelets, Annual Meeting of the American Society of Hematology, Atlanta, GA, 12/2005

Invited Presentation Thereapeutic expression of a platelet-specific integrin restores hemostasis in dogs with glanzmann thrombasthenia, Annual Meeting of the American Society of Gene Therapy, Seattle, WA, 06/2007

Invited Presentaion Gene Therapy for Inherited Platelet Bleeding Disorders, Department of Biological Sciences Colloquim Series, University of Wisconsin-Milwaukee, 02/2008

Invited Presentation Hematopoietic Stem Cell Gene Therapy for Inherited Platelet Bleeding Disorders, Cincinnati Children’s Hospital Medical Center, 03/2008

Invited Presentation Targeting Therapeutic Agents to Platelets, Novo Nordisk Corporation, East Brunswick, New Jersey, 04/2008

Invited Presentation Gene Therapy for Platelets Disorders, Platelets 2008 International Symposium, Woods Hole, Massachusetts, 10/2008

Invited Presentation Department of Medicine, Rockefeller University, 11/2008

Invited Presentation Special Symposium for Thrombosis & Hemostasis, American Society of Hematology Annual Meeting, San Francisco, CA, 12/2008

Invited Presentation US House of Representatives, Congressman Gingrey R-Georgia and Deputy Director NHLBI-NIH, Dr. Susan Shurdin, 06/2009

Invited Presentation, MACC Fund Scientific Symposium, Wisconsin Institute for Medical Research, 12/2009

Invited Presentation Division of Hematology, 2010-2011 Seminars at The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, 01/2011

Invited Presentation Best Abstract in Basic Research, American Society for Bone Marrrow Transplant, Honolulu, HI, 02/2011

Invited Presentation Seminar, Auburn University, Auburn, AL, 03/2011

Invited Presentation Seminar, Transfusion Medicine Grand Rounds at the Brigham and Women's Hospital and Children’s Hospital Boston, Boston, Massachusetts, 11/2011

Invited Presentation Seminar, Indiana University School of Medicine, Indiana, 12/2011

Invited Participant, NHF's 11th Workshop on New Technologies and Gene Transfer for Hemophilia,

Philadelphia, PA, 03/2012
Invited Presentation Emory University School of Medicine, Atlanta, GA, 11/2012
Invited Participant, XXIVth Annual Hemophilia Research Update, Baxter, Washington DC, 03/2014
Invited Presentation, National Hemophilia Foundation's 12th Workshop on New Technologies and Gene Transfer for Hemophilia Georgetown University, Washington DC, 10/2014
Invited Presentation Gene Therapy for Inherited Bleeding Disorders: From Bench to Bedside, Baxter/Baxalta HealthCare, Deerfield, IL, 07/2015
Invited Presentation, National Hemophilia Foundation's 13th Workshop on New Technologies and Gene Transfer for Hemophilia Georgetown University, Washington DC, 10/2016
Invited Presentation, American Society for Gene and Cell Therapy on Hematopoietic Stem Cell Gene Therapy For Hemophilia A with Platelet Derived FVIII Pleightlet, Growing in Gene and Cell Therapy Committee, Chicago, IL, 05/2018
Invited Session Moderator Men's Issues with GT, Glanzmann Thrombasthenia Symposium, Austin, TX, 04/2019
Invited Presentation Future of GT Research, Glanzmann Thrombasthenia Symposium, Austin, TX, 04/2019
Invited Presentation, American Society for Gene and Cell Therapy on Hematopoietic Stem Cell Gene Therapy For Hemophilia A with Platelet Derived FVIII Pleightlet, Growing in Gene and Cell Therapy Committee, Washington DC, 05/2019
Invited Presentation, National Hemophilia Foundation's 15th Workshop on New Technologies and Gene Transfer for Hemophilia, Georgetown University, Washington DC, 09/2019
Invited Presentation, National Hemophilia Foundation's 71th Annual Bleeding Disorders Conference 'Medical Pre-con' Curative Options for GT-, Anaheim, CA, 10/2019
Invited Presentation, Hematopoietic Stem Cell Gene Therapy for Inherited Bleeding Disorders, Cincinnati Children's Hospital Medical Center, 11/2019
Invited Presentation: Pilot and Feasibility Study of Hematopoietic Stem Cell Gene Transfer to Utilize Platelet-Derived Factor VIII for Hemophilia, American Society for Gene and Cellular Therapy 23rd Annual Meeting, 05/2020
Invited Presentation Platelet-Targeted Gene Therapy for Hemophilia A, American Society for Gene and Cellular Therapy 23rd Annual Meeting, 05/2020
Invited Presentation Platelet-Targeted Gene Therapy for Hemophilia A, Gene Therapy for Blood Disorders 2rd Annual Meeting, 03/2021

International

Organizing Committee, International Symposium on Gene Therapy for Hemophilia, Chapel Hill, NC, 09/1997
Invited Presentation, Expression of a functional murine ?IIb-human ?3 heterodimer complex on the surface of megakaryocytes derived from ?3-knockout mice, Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis, Washington DC, 1999
Invited Presentation, Transgene expression targeted in canine megakaryocytes as a model for gene therapy of lineage-specific disorders, Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis, Paris France., 2001
Consultant European Network on Inherited Diseases of Platelet Production and Function, 2002
Invited Presentation, Lineage-Specific Correction of a hemorrhagic disorder affecting platelets: gene therapy for glanzmann thrombasthenia, Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis, Birmingham UK., 2003
Invited Session Chair, Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis, Birmingham UK., 2003
Invited Presentation Gene therapy for Inherited Platelet Disorders, Telethon Institute of Genetics and Medicine, Naples, Italy, 04/2004
Invited Plenary Presentation Gene therapy for Inherited Platelet Disorders, European Science Foundation Exploratory Workshop: Applying new technologies to the study of inherited disorders of megakaryocytes and platelets, Naples, Italy, 04/2004
Invited Presentation for Meet the Expert Session, Use of Hematopoietic Stem Cells (From Mice Dogs and Humans) for Preclinical Gene Therapy Studies, Annual Conference of the Haematology Society of Australia and New Zealand, Hobart, Tasmania, 10/2006
Invited Presentation, Gene therapy for inherited platelet bleeding disorders, Annual Conference of the Haematology Society of Australia and New Zealand, Hobart Tasmania, 10/2006

Invited Presentation, Targeting Coagulation Factor VIII to platelets for gene therapy of Hemophilia A, Annual Conference of the Haematology Society of Australia and New Zealand, Hobart Tasmania, 10/2006

Invited Presentation Platelet-targeted gene therapy for inherited bleeding disorders, AIM International Meeting for Recent Advances in Hemostasis, Kumamoto, Japan, 05/2007

Invited Presentation, Platelet-targeted gene therapy for inherited bleeding disorders, Osaka University Graduate School of Medicine, Osaka, Japan, 05/2007

Invited Presentation Correction of haemorrhagic disorders affecting platelets: gene therapy restores hemostasis within a canine model for glanzmann thrombasthenia, Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis, Geneva, Switzerland, 07/2007

Invited Presentation Recombinant human HPA-1A antibodies for treatment of feto-maternal allo-immune thrombocytopenia (FMAIT): proof of principle in an in vivo murine model, Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis, Geneva, Switzerland, 07/2007

Invited Presentation, Hematopoietic stem cell gene therapy for inherited platelet bleeding disorders, University of Crete, Heraklion, Crete, Greece, 09/2007

Invited Presentation, Hematopoietic stem cell gene therapy for inherited platelet bleeding disorders, IVth Congress on Stem Cell Gene Therapy, Thessaloniki, Halkidiki, Greece, 09/2007

Invited Presentation Hematopoietic stem cell gene therapy for inherited platelet bleeding disorders, Katholieke University of Leuven, , Leuven, Belgium, 05/2009

Invited Dissertation Committee, Defense of Lisebeth DeWaele, Katholieke University of Leuven, Leuven, Belgium, 05/2009

Invited Presentation The First Affiliated Hospital of Nanjing Medical University, Nanjing, Jiangsu Province, P.R. China, 11/2010

Invited Presentation Platelets and Cancer, Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis, Toronto, Canada, 06/2015

Invited Session Chair Platelet Disorders, Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis, Toronto, Canada, 06/2015

Invited Abstract Reviewer Platelet Disorders, Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis, Toronto, Canada, 06/2015

Invited Presentation Platelets as vehicles for drug delivery, Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis SSC, Montpellier, France, 05/2016

Invited Presentation Hematopoietic Stem Cell Gene Therapy For Hemophilia A with Platelet FVIII, CSL Behring Corporation, International Webinar Presentation, 02/2017

Invited Presentation, A Novel F153S ITGB3 Mutation Found in a Glanzmann Thrombasthenic Patient Reveals a Structural Clasp that Modulates Integrin Activation, (Oral Communication) J Thromb Haemost,13 (Suppl): a: Semi-Annual Meeting of the International Society for Thrombosis and Haemostasis SSC, Mo, Australia, 07/2019

Invited Webinar Presentation, Glanzmann Thrombasthenia Symposium (Sponsored by Novo Nordisk), Manchester UK, 10/2019

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

National

Wilcox DA, Wautier JL, Pidard D, Newman PJ, An amino acid substitution within the fourth calcium-binding region of GPIIb results in degradation of the integrin GPIIb-IIIa and type I glanzmann thrombasthenia, Annual Meeting of the American Heart Association, 1992

Wilcox DA, Gill J, Newman PJ, Glanzmann thrombasthenia resulting from a single amino acid substitution flanking the fibrinogen ?-chain dodecapeptide-binding domain on GPIIb, American Society of Hematology (ASH) Annual Meeting, 12/1993

Wilcox DA, Hodivala-Dilke KM, Hynes RO, White GC II, Of mice and men: detection of a functional murine ?IIb?3 heterodimer complex on the surface of megakaryocytes derived from retrovirus transduced bone marrow cells from ?3-knockout mice, American Society of Hematology (ASH) Annual Meeting, 12/1998

Use of ?IIb Promoter in Retroviral Constructs, Gordon Research Conference on Hemostasis, Plymouth, NH, 07/2000

Wilcox DA, Hodivala-Dilke KM, Johnson BD, Hynes RO,White GC II, Therapeutic expression of a platelet-specific integrin, ?IIb?3, American Society for Gene Therapy Annual Meeting, 2003

Wilcox DA, Fang J, Jensen ES, Du LM, Boudreaux MK, Thereapeutic expression of a platelet-specific integrin restores hemostasis in dogs with glanzmann thrombasthenia, American Society of Gene Therapy Annual Meeting, Seattle, WA, 06/2007

Wilcox DA, Shi Q, Nurden P, Haberichter SL, Rosenberg JB, Johnson BD, Nurden AT, White GC II, Montgomery RR, EM localization and agonist-induced release of human FVIII from megakaryocytes transduced with a FVIII transgene, American Society of Hematology Annual Meeting, San Diego, CA, 12/2009

Du LM, Franck HWG, Merricks EP, Nurded P, Jensen ES, Haberichter SL, Hawkins TB, Jacobi PM, Fang J, Koukouritaki SB, Nurden AT, Shi Q, Montgomery RR, Wilcox DA, Gene therapy targeting synthesis of coagulation factor viii in platelets reduces bleeding in canine hemophilia a, Best Abstract in Basic Research at the American Society for Bone Marrow Transplant Annual Meeting, Hawaii, 02/2011

COMMITTEE SERVICE:

Medical College of Wisconsin

2000 - 2001 Member, Search Committee for Candidates for Medical College of Wisconsin Faculty in Hematopoietic Stem Cell Gene Therapy, Medical College of Wisconsin

2000 - 2001 Member, Search Committee Candidates for Medical College of Wisconsin/Blood Research Institute Joint Recruitment for Faculty in Stem Cell Biology, Medical College of Wisconsin

2002 - Present Member, Fellowship Selection Committee, Hematology/Oncology/BMT, Pediatrics, Medical College of Wisconsin

2003 - Present Member, Research /Mentorship Committee for Qizhen Shi, MD, PhD (Hematology/Oncology Research Fellow who has received three national grants), Medical College of Wisconsin

2004 - Present Member, Research Task Force Committee, Pediatrics, Medical College of Wisconsin

2004 - 2006 Voting Member, Institutional Animal Care and Use Committee (IACUC), Medical College of Wisconsin

2006 Member, Scientific Review Committee, Children's Hospital Foundation, Medical College of Wisconsin

2006 - Present Chairman, Advisory Board for the Lentivirus Core Facility, Medical College of Wisconsin

2006 - Present Chairman, Advisory Board for the MCW Lentivirus Core Facility, Medical College of Wisconsin

2006 Member, MCW & Blood Research Institute Search for Stem Cell Biology Faculty, Medical College of Wisconsin

2006 Co-Chairman During Summer, Institutional Animal Care and Use Committee (IACUC), Medical College of Wisconsin

2007 - 2011 Member, Biosafety Committee, Medical College of Wisconsin

2007 Member, Insitutional Animal Care and Use Committee (IACUC) Committee to ?-test the online protocol for Animal Research, Medical College of Wisconsin

2007 - 2016 Reviewer, MCW Institutional Biosafety Committee and Joint Safety Committee, Medical College of Wisconsin

2012 - 2016 Co-Chairman, MCW Institutional Biosafety Committee and Joint Safety Committee, Medical College of Wisconsin

2012 - 2014 Member, Committee for Design of IBC Safety Module for MCW Ebridge, Medical College of Wisconsin

2015 Invited Attendee, The Leadership for Social Inclusion (NCBI) workshop, Medical College of Wisconsin

2015 - Present Appointed Member, MCW Dual Use in Research of Concern Committee, Medical College of Wisconsin

2018 - 2019 Member, Department of Pediatrics Intern Selection Committee, Medical College of Wisconsin

2018 - 2021 Appointed, Scientific Review Committee: Non-Cancer Human Gene Transfer, Medical College of Wisconsin

2019 Member, Department of Pediatrics-Dr. Lane's Basic Research Committee, Medical College of Wisconsin

2020 Member, Honors Thesis Review Committee, Medical Student Summer Research Program (MSSRP) (01/06/20) Daniel Keesler/ Dr Flood Student, Medical College of Wisconsin

Hospital

2000 - 2001 Member, Scientific Review Committee, Children's Hospital Foundation
2006 Member, Scientific Review Committee, Children's Hospital Foundation

MEDICAL COLLEGE TEACHING ACTIVITIES:

Community/Lay Public

05/2012 - 07/2012 Mentor, Summer Undergraduate Student, Kelsey Gardetto, U of Iowa
07/2012 - 08/2012 Mentor, Summer Undergraduate Student, Lisa Friedman, Virginia
06/2013 - 08/2013 Mentor, Summer High School Student, Rachel Gardetto, Wisconsin
07/2014 - 08/2014 Mentor, Summer High School Student, Rachel Gardetto, Wisconsin
07/2014 - 08/2014 Mentor, Summer High School Student, Haley Slater, Wisconsin
07/2015 - 08/2015 Mentor, Summer High School Student, Haley Slater, Wisconsin
05/2016 - 08/2016 Mentor, Summer High School Student, Haley Slater, Wisconsin
06/2018 - 08/2018 Mentor, Summer High School Student, Elisabeth Wong, Wisconsin
06/2019 - 08/2019 Mentor, Summer High School Student, Elizabeth Wong, Wisconsin

Continuing Medical Education

1999 Department of Pediatrics, Seminar on Megakaryocyte-Targeted Gene Therapy for Inherited Hematological Disorders
2000 Department of Biochemistry, Signal and Gene Expression Group, Seminar on Gene Therapy for Platelet Disorders
2001 Department of Biochemistry, Signal and Gene Expression Group, Seminar on Gene Therapy for Platelet Disorders
2002 Biomedical Resource Center, Research Training Seminar
2003 Blood Research Institute, Seminar on Targeting Gene Therapy to Specific Hematopoietic Lineages
2003 Department of Pediatrics, Seminar on Targeting Gene Therapy to Specific Hematopoietic Lineages
2005 Department of Biochemistry, Signal and Gene Expression Group, Seminar on Gene Therapy for Inherited Bleeding Disorders
2006 Department of Physiology, Seminar on Gene Therapy for Inherited Bleeding Disorders
2006 Department of Pediatrics, Seminar on Gene Therapy for Inherited Bleeding Disorders
2006 Hematology/Oncology Medical Fellows Lecture Series, Platelet Disorders
2007 Hematology/Oncology Medical Fellows Lecture Series, Platelet Disorders
10/2008 Blood Research Institute, Presentation to Scientific Review Committee
12/2008 MACC Fund, Presentation to Scientific Review Committee
2008 Children's Research Institute Noon Academic Conference, Seminar on Hematopoietic Stem Cell Gene Therapy for Inherited Bleeding Disorders
2008 Pediatric Hematology/Oncology Medical Fellows Lecture Series, Platelet Disorders
2008 Invited Presentation, Children's Hospital President Council Meeting, 2002 PIR Award Lineage Specific Gene Expression
2008 Children's Research Institute, Seminar on Gene Therapy for Inherited Bleeding Disorders
10/2011 Blood Research Institute, Presentation to Scientific Review Committee
01/2014 Invited Service for Interview, Association for the Accreditation of Human Research Protections Programs, or AAHRPP for MCW site visit
10/2014 Blood Research Institute, Presentation to Scientific Review Committee
01/2015 Children's Research Institute, Seminar on Gene Therapy for Inherited Bleeding Disorders
05/2017 Blood Research Institute, Presentation Milwaukee Thrombosis & Hemostasis
08/2017 Presentation, Pediatric Hematology, Oncology, and BMT Research Retreat
10/2018 Invited Presentation, Blood Center of Wisconsin Scientific Review Board
10/2018 Presentation for Intern Research Day, Dept Pediatrics, MCW
11/2018 Invited Presentation, Carroll University, Gene Therapy for Bleeding Disorders
03/2019 Children's Research Institute, Seminar on Gene Therapy for Inherited Bleeding Disorders From Bench to Bedside
07/2020 IACUC Essentials Invited Speaker: Gene Therapy for Canine Glanzmann Thrombasthenia

EXTRAMURAL TEACHING:

Continuing Medical Education

02/2008 University of Wisconsin-Milwaukee, IDepartment of Biological Sciences Colloquim Series Presenation - Gene Therapy for Inherited Platelet Bleeding Disorders

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Postdoctoral Students

Runqui Jiang, Medical College of Wisconsin, 03/01/2009 - 09/29/2009 Invited Foreign Dissertation Advisor

Yoshinori Nishijima, Medical College of Wisconsin, 04/25/2011 - Present Mentor for Postdoctoral Fellow

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

High School Students

High School Summer Student, Medcial College of Wisconsin, 07/07/2010 - 08/23/2010 Mentor

Postdoctoral Students

Lisebeth DeWaele, Katholieke University of Leuven, Belgium, 05/06/2009 Invited Dissertation Committee Defense

Ming Yao, China, 01/2011 - 06/2013 Invited Foreign Dissertation Advisor

PROGRAMMATIC DEVELOPMENTS:

Research Programs

2011 Co-inventor, Methods and Compositions for Enhancing Cell Adhesion Properties; U.S. Patent Application No. 11/118,712; International No. PCT/US2005/015120

COMMUNITY SERVICE ACTIVITIES:

2002 - 2008 Invited Presentation, Annual Fund Raiser for Glanzmann Thrombasthenia Research, Augusta, GA

2014 Invited Ambassador of MCW, Chili's MACC Golf Outing for Cancer & Blood Disorders

2015 Invited Ambassador of MCW, Chili's MACC Golf Outing for Cancer & Blood Disorders

2017 Invited Ambassador of MCW, Chili's MACC Golf Outing for Cancer & Blood Disorders

2018 Invited Ambassador of MCW, Chili's MACC Golf Outing for Cancer & Blood Disorders

2019 Invited Ambassador of MCW, Chili's MACC Golf Outing for Cancer & Blood Disorders

PATENT APPLICATIONS:

10/24/2012 Co-inventor, Platelet Targeted Treatment. U.S. Provisional Patent Application No. 61/717,951; filed October 24, 2012

10/24/2013 Co-inventor, Platelet Targeted Treatment. International Patent Application No. PCTIUS20 13/066651 filed October 24, 2013

2015 Co-inventor, Platelet Targeted Treatment. U.S. Provisional Patent Application No. 61/717,951; Int'l Patent Application No.: PCT/US2013/066651filed April 24, 2015

2016 South African Patent Application No.: 2015/02945 awarded on Sept 07, 2016 Based on PCT/US2013/066651 Filed: 24-Oct-2013 Entitled: Platelet Targeted Treatment Our Ref: WILCO-32935/ZA-1/PCT

2018 Korean Patent Application No.: 10-2015-7012821 Awarded Based on PCT/US2013/066651 Filed: 24-Oct-2013 Patent No.: 10-1819803 Issued: 11-Jan-2018 Entitled: Platelet Targeted Treatment

2018 U.S. Patent Application No.: 14/437,45 U.S. National Entry Of Pct/Us2013/066651 Int'l Filing Date: 24-Oct-2013 entitle: Platelet Targeted Treatment: 9,982,034 Issued 29-May-2018

2019 Israel Application No.: 238417 Based on PCT/US2013/066651 Filed 24-Oct-2013

2019 U.S. Patent Application No.: 15/689,875 U.S. National Entry Of Pct/Us2013/066651 Int'l Filing Date: 24-Oct-2013 entitle: Platelet Targeted Treatment: 10,294,291 Issued 21-May-2019

2020 Canadian Patent Application No.: 2888982 entitled: Platelet Targeted Treatment: Issued 21-July-2020

PATENT AWARDS:

05/10/2011 Co-inventor, Methods and Compositions for Enhancing Cell Adhesion Properties. Awarded May 10, 2011 U.S. Patent No. 7,939,326

2020 Brazil Patent Approved Octobber 2020

2020 European Patent Accepted October 2020

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2. **Wilcox DA**, Wautier JL, Pidard D, Newman PJ. A single amino acid substitution flanking the fourth calcium binding domain of alpha IIb prevents maturation of the alpha IIb beta 3 integrin complex. J Biol Chem. 1994 Feb 11;269(6):4450-7.
3. **Wilcox DA**, Paddock CM, Lyman S, Gill JC, Newman PJ. Glanzmann thrombasthenia resulting from a single amino acid substitution between the second and third calcium-binding domains of GPIIb. Role of the GPIIb amino terminus in integrin subunit association. J Clin Invest. 1995 Apr;95(4):1553-60. PMCID: PMC295643
4. **Wilcox DA**, Olsen JC, Ishizawa L, Griffith M, White GC 2nd. Integrin alphaIIb promoter-targeted expression of gene products in megakaryocytes derived from retrovirus-transduced human hematopoietic cells. Proc Natl Acad Sci U S A. 1999 Aug 17;96(17):9654-9. PMCID: PMC22265
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6. **Wilcox DA**, Olsen JC, Ishizawa L, Bray PF, French DL, Steeber DA, Bell WR, Griffith M, White GC 2nd. Megakaryocyte-targeted synthesis of the integrin beta(3)-subunit results in the phenotypic correction of Glanzmann thrombasthenia. Blood. 2000 Jun 15;95(12):3645-51.
7. Shi Q, **Wilcox DA**, Fahs SA, Kroner PA, Montgomery RR. Expression of human factor VIII under control of the platelet-specific alphaIIb promoter in megakaryocytic cell line as well as storage together with VWF. Mol Genet Metab. 2003 May;79(1):25-33.
8. **Wilcox DA**, White GC 2nd. Gene therapy for platelet disorders: studies with Glanzmann's thrombasthenia. J Thromb Haemost. 2003 Nov;1(11):2300-11.
9. Yarovoi HV, Kufrin D, Eslin DE, Thornton MA, Haberichter SL, Shi Q, Zhu H, Camire R, Fakharzadeh SS, Kowalska MA, **Wilcox DA**, Sachais BS, Montgomery RR, Poncz M. Factor VIII ectopically expressed in platelets: efficacy in hemophilia A treatment. Blood. 2003 Dec 01;102(12):4006-13.
10. **Wilcox DA**, Shi Q, Nurden P, Haberichter SL, Rosenberg JB, Johnson BD, Nurden AT, White GC 2nd, Montgomery RR. Induction of megakaryocytes to synthesize and store a releasable pool of human factor VIII. J Thromb Haemost. 2003 Dec;1(12):2477-89.
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Books, Chapters, and Reviews

1. Wilcox, D. A., White II, G.C. Gene therapy for platelet disorders. In: Platelets. A.D. Michelson (ed.), Academic Press, San Diego, Chapter 61: 927-37, 2002.
2. Wilcox, D.A. White II, G.C. Gene therapy for platelet disorders: studies with glanzmann's thrombasthenia. Journal of Thrombosis and Haemostasis. 1: 2300-2311, 2003.
3. Wilcox, D. A., White II, G.C: Gene therapy for platelet disorders. In: Platelets. Second Edition, A.D. Michelson (ed.), Academic Press, San Diego, Chapter 71: 1313-1325, 2007.
4. Wilcox, D.A. Gene therapy for platelet disorders. In: Platelets. Third Edition, A.D. Michelson(ed.), Academic Press, San Diego, Chapter 64:1313-1327,2013.
5. Nurden, A.T., Wilcox, D.A. White ll, G.C. Glanzmann thrombasthenia: state of the art and future directions.Seminars Thrombosis and Haemostasis Journal 39:642-655, 2013.

Abstracts

1. **Wilcox DA**, Sieber-Blum M. Monoclonal antibody, B-1A11, to a cell surface epitope recognizes a subpopulation of early neural crest cells. Society for Neuroscience Abstracts. 1989;15 a:352.3
2. **Wilcox DA**, Wautier JL, Pidard D, Newman PJ. An amino acid substitution within the fourth calcium-binding region of GPIIb results in degradation of the integrin GPIIb-IIIa and type I glanzmann thrombasthenia. Circulation. 1992;86 a:2713
3. Valentin N, **Wilcox DA**, Newman PJ. Disruption of the GPIIIa cys5-cys435 disulfide bonded-loop: effects on

the PlA1 epitope and GPIIb-IIIa complex formation. Blood. 1993;82 a:826
4. Wilcox, D. A., Gill, J., and Newman, P. J. Glanzmann thrombasthenia resulting from a single amino acid substitution flanking the fibrinogen gamma-chain dodecapeptide-binding domain on GPIIb, Blood. 82 a:824, 1993.
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6. Wilcox, D. A., Olsen, J. C., Ishizawa, L., Bray, P.F., French, D.L., Bell, W.R., Griffith, M., and White II, G.C. Phenotypic correction of Glanzmann's thrombasthenia following megakaryocyte-targeted synthesis of the integrin ?3-subunit, Blood. 90 a:1236, 1997.
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19. Wilcox, D.A., Hodivala-Dilke, K.M., Johnson, B.D., Hynes, R.O., and White II , G.C. Lineage-Specific Correction of a hemorrhagic disorder affecting platelets: gene therapy for glanzmann thrombasthenia, Journal of Thrombosis and Haemostasis. 1 a:130, 2003.
20. Yarovoi, H., Kufrin, D., Eslin, D.E., Zhu, H., Camire, R. Wilcox, D., Montgomery, R.R., Kowalska, M.A., Poncz, M. A transgenic mouse model demonstrates the efficacy of factor FVIII ectopically expressed in platelets for Haemophilia A treatment. Journal of Thrombosis and Haemostasis. 1 a:131, 2003.
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bernard soulier syndrome, Blood. 102 a:1029, 2003.
24. Patel, M., Wilcox D.A.., Giddings, A.M., McKay, T.R., Olsen, J.C. Modification of HEK 293 Cell Integrin Expression Profile Allows Convenient Large-Scale Roller Bottle Production of Lentiviral Vectors, Molecular Therapy. 9 a:81, 2004.
25. Du, L.M., Wilcox, D.A. Gene Therapy for Platelet Disorders: Targeting Transgene Expression in Canine Platelets, Molecular Therapy. 9 a:919, 2004.
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