

# CURRICULUM VITAE

**José Aron López**

**PLACE OF BIRTH** Peñasco, New Mexico

## EDUCATION

1977 B.S., Chemistry, *Summa Cum Laude*, New Mexico Institute of Mining and Technology  
1981 M.D., *Summa Cum Laude*, University of New Mexico, Albuquerque, NM

## EMPLOYMENT AND EXPERIENCE

1981–1982 Internship, Internal Medicine, University of Washington, Seattle, WA  
1982–1984 Residency, Internal Medicine, University of Washington, Seattle, WA  
1984–1986 Clinical and Research Fellowship, Hematology/Oncology, University of Washington, Seattle, WA  
1986–1989 Senior Fellow, Department of Biochemistry, University of Washington, Seattle, WA  
1989–1994 Scientist I, Gladstone Institute of Cardiovascular Disease, San Francisco, CA  
1989–1994 Assistant Professor of Medicine in Residence, University of California, San Francisco  
1989–1994 Attending Physician, San Francisco General Hospital, San Francisco, CA  
1994–1996 Assistant Professor of Medicine, Baylor College of Medicine, Houston, TX  
1994–2006 Staff Physician, Veterans Affairs Medical Center, Houston, TX  
1996–2001 Associate Professor of Medicine, Baylor College of Medicine, Houston, TX  
1997–2006 Associate Professor of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX  
1999–2001 Adjunct Assoc. Professor, Institute of Bioengineering, Rice University, Houston, TX  
1999–2006 Adjunct Associate Professor, Program in Cardiovascular Sciences, Baylor College of Medicine, Houston, TX  
2000–2006 Scientific Director, Thrombosis Research Section, Baylor College of Medicine  
2001–2006 Professor of Medicine, Baylor College of Medicine, Houston, TX  
2001–2006 Professor of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX  
2001–2006 Adjunct Professor, Bioengineering, Rice University, Houston, TX  
2004–2006 Vice-Chair of Medicine for Research, Baylor College of Medicine, Houston, TX  
2006–2012 Executive Vice-President for Research, Puget Sound Blood Center, Seattle, WA  
2006– Professor of Medicine and Biochemistry, University of Washington, Seattle, WA  
2012–2015 Chief Scientific Officer, Puget Sound Blood Center, Seattle, WA  
2014– Adjunct Professor, Mechanical Engineering, University of Washington, Seattle, WA  
2015–2016 Chief Scientific Officer, Bloodworks Northwest, Seattle, WA (Institutional name change)  
2015– Adjunct Professor, Department of Pathology, University of Washington, Seattle, WA  
2016– Full Member, Bloodworks Research Institute, Seattle, WA  
2020– Chief Scientific Officer, Bloodworks Northwest, Seattle, WA

## HONORS AND AWARDS

1975–1977	Tech Scholar (academic achievement), New Mexico Institute of Mining and Technology
1977	Morris F. Stubbs Award to top Chemistry Graduate, New Mexico Institute of Mining and Technology
1978	Lange Medical Publications Award, (top two first-year medical students), University of New Mexico Medical School
1980	Holden Scholarship, for academic achievement, University of New Mexico, School of Medicine
1978–1981	National Medical Fellowships Scholarship, for academic achievement
1981	Alpha Omega Alpha Medical Honor Society
1981	Henry J. Kaiser Foundation Merit Award, (50 outstanding U.S. minority medical students)
1986–1989	Minority Medical Faculty Development Fellowship, The Robert Wood Johnson Foundation
1987	Young Investigator Award, XIth International Congress on Thrombosis and Hemostasis, Brussels
1994	Chao Scholar, Baylor College of Medicine
1996–2001	Established Investigator, American Heart Association
1996	Elected, American Society for Clinical Investigation
1998	NIH-sponsored US-Australia Scientific Exchange Program, 1 <sup>st</sup> American visiting scientist, Baker Medical Research Institute, Melbourne
1997 & 1998	Commendation for Excellence in Research, Baylor College of Medicine
1999–2004	Associate Editor, <i>Circulation</i>
2001	Fellow of the American Heart Association and the Council on Arteriosclerosis, Thrombosis, and Vascular Biology
2002	Elected Vice-Chairman, Gordon Conference on Hemostasis, Chairman for meeting in 2006
2005	Investigator Recognition Award as part of the 12th Biennial Awards for Contributions to Hemostasis at the XXth Congress of the International Society on Thrombosis and Hemostasis in Sydney, Australia
2006	Chairman, Gordon Conference on Hemostasis
2010	Elected, Association of American Physicians
2011	Dr. Alvin J. Thompson Award for Distinguished Scientists in Biomedicine, Northwest Association for Biomedical Research
2012–2013	Co-Chairperson, American Society of Hematology 2013 Annual Meeting Scientific Program
2013	Elected Vice-Chairman, 2015 FASEB Science Research Conference on Proteases in Hemostasis and Vascular Biology, Chairman for meeting in 2016
2014	Distinguished Alumni Achievement Award, New Mexico Institute of Mining and Technology Alumni Association
2014–	Elected Member, International Society of Thrombosis and Haemostasis Council Class 2020
2014	Distinguished Scientist Award, Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
2018	American Society for Hematology Award for Leadership in Promoting Diversity

## INVITED TALKS

- 1987 Gordon Conference on Hemostasis, Andover, New Hampshire  
1987 Dept. of Hematology, University Hospital, Utrecht, The Netherlands  
1987 Theodor Kocher Research Institute, Berne, Switzerland  
1987 Blood Center of Southeastern Wisconsin, Milwaukee, WI  
1988 VIIIth National Conference on Thrombosis and Hemostasis, American Heart Association  
1989 Symposium on Human Platelet and Vascular Biology, Stanford University, Palo Alto, CA  
1990 Hematology/Oncology Grand Rounds, University of California, San Francisco  
1991 Hematology/Oncology Grand Rounds, Stanford University, Palo Alto, CA  
1991 First Annual Genentech Bay Area Cardiovascular Disease Symposium  
1991 San Francisco General Hospital Program in Molecular and Cellular Medicine Lecture Series  
1991 Medical Grand Rounds, University of California, San Francisco  
1992 Laboratory Medicine Grand Rounds, University of California, San Francisco  
1992 Program in Biological Sciences, University of Calgary, Calgary, Alberta, Canada  
1992 Amgen, Thousand Oaks, California  
1993 Department of Pharmacology, University of Utah  
1993 Robert Wood Johnson Minority Medical Faculty Development Program, Annual Meeting  
1995 The Blood Research Institute, Milwaukee, WI  
1995 Cardeza Foundation for Hematologic Research, Thomas Jefferson University  
1995 Scripps Research Institute, Vascular Biology Research Group  
1995 SPORE, Prostate Cancer, Baylor College of Medicine  
1995 Servicio Hemoterapia y Hemostasia, Facultad de Medicina, Universidad de Barcelona, Barcelona, Spain.  
1996 Program in Molecular Medicine, University of Calgary, Alberta, Canada  
1996 VIth International Symposium on Factor VIII and von Willebrand factor, Bari, Italy  
1996 Lecture series, COR Therapeutics, South San Francisco, CA  
1996 Biochemistry Seminar Series, University of Vermont, Burlington, VT  
1997 Baker Medical Research Institute Symposium, "Atherosclerosis and the Vessel Wall", Melbourne, Vic., Australia  
1997 22<sup>nd</sup> Lorne International Conference on Protein Structure and Function, Lorne, Vic., Australia  
1997 Department of Haematology, University of New South Wales, Sydney, NSW, Australia  
1997 Sol Sherry Center for Thrombosis, Temple University, Philadelphia, PA  
1997 Subcommittee on Platelets, American Society of Hematology Annual Meeting  
1998 Department of Biochemistry, University of Washington, Seattle, WA  
1998 Cardeza Foundation for Hematologic Research, Philadelphia, PA  
1998 Gordon Research Conference on Vascular Biology, Plymouth, NH  
1998 Hematology Society of Australia and New Zealand, Invited International Speaker, Sydney, Australia  
1998 Hansen Center for Cancer Research, Adelaide, Australia  
1999 Tulane University School of Medicine, Special Seminar  
1999 The Blood Research Institute, Blood Center of Southeastern Wisconsin  
1999 Royal College of Surgeons, Dublin, Ireland; Visiting Professor  
1999 Special Lecture, University of New Mexico School of Medicine  
1999 Servicio Hemoterapia y Hemostasia, Facultad de Medicina, Universidad de Barcelona, Barcelona, Spain.  
1999 Centro de Investigaciones Biologicas, Madrid, Spain  
2000 Gladstone Institute for Cardiovascular Diseases, 20<sup>th</sup> Anniversary Celebration, San Francisco, CA  
2000 University of Pennsylvania, Philadelphia, PA

2000 Mount Sinai School of Medicine, New York, NY

2000 Plenary Speaker, Chinese Society of Hematology, Annual Meeting, Dalian, China

2001 Cardiology Grand Rounds, Vanderbilt University School of Medicine, Nashville, TN

2001 Invited Speaker, International Society of Thrombosis and Haemostasis, Paris, France

2001 Invited Speaker, Advances in Cardiovascular Medicine Symposium, La Salle University, Mexico City, Mexico

2001 Research Seminar, Sol Sherry Thrombosis Research Center, Temple University, Philadelphia, PA

2001 Invited Seminar, Zymogenetics Corp., Seattle, WA

2001 Invited Speaker, Subcommittee on Platelets, American Society of Hematology Annual Meeting

2001 Invited Seminar, Cor Therapeutics, South San Francisco, CA

2002 Invited Speaker, ASH Update in Hemostasis and Thrombosis, Newport, CA

2002 Invited Speaker, Arteriosclerosis, Thrombosis and Vascular Biology meeting, Salt Lake City, Utah

2002 Seminar Series, Cardiovascular Sciences Program, Baylor College of Medicine

2002 Invited Seminar, University of Texas Health Center, Tyler Texas

2002 Invited Speaker, Transfusion 2002, Cambridge, England

2002 Invited Speaker, Gordon Conference on Hemostasis and Thrombosis, Colby College, Maine

2002 Invited Speaker, International Society of Thrombosis and Hemostasis Scientific and Standardization Meeting, Boston, MA

2002 Invited Speaker, Rockefeller University Program in Vascular Biology

2002 Invited Speaker, Department of Medicine, University of Texas, Southwestern Medical School, Dallas, TX

2002 Invited Speaker, Biology of Inflammation Seminar Series, Baylor College of Medicine

2003 Internal Medicine Grand Rounds, Baylor College of Medicine

2003 Invited Speaker, Annual Scientific Conference, Diagnostic Grifols, Barcelona, Spain

2003 Invited Speaker, Servicio Hemoterapia y Hemostasia, Hospital Clinic, Barcelona, Spain

2003 Invited Speaker, International Society on Thrombosis and Haemostasis Scientific and Standardization Meeting, Birmingham, England

2003 Invited Speaker, Special Symposium, "Von Willebrand Factor: the new treatment paradigm", International Society on Thrombosis and Haemostasis, Birmingham, England

2003 Invited Speaker, Carolina Cardiovascular Biology Seminar Series, University of North Carolina, Chapel Hill, NC

2003 Invited Speaker, Sol Sherry Center for Thrombosis and Hemostasis, Temple University, Philadelphia, PA

2003 Invited Speaker, Committee on Hemostasis, "The Biology of von Willebrand Factor," American Society of Hematology Annual Meeting

2003 Invited to introduce Plenary Session talk, American Society of Hematology Annual Meeting

2004 Invited Speaker, 2<sup>nd</sup> Symposium on Hemostasis, with Special Focus on FVIIa-TF and Platelets, Seattle, WA

2005 Invited Speaker, Hemostasis/Thrombosis Seminar Series, University of Michigan, Ann Arbor, MI

2005 Invited Speaker, Hematology Division, National Heart, Lung, and Blood Institute, Bethesda, MD

2005 Invited Speaker, Hematology Grand Rounds, Medical College of Georgia, Augusta, GA

2005 Invited Speaker, Hematology Grand Rounds, University of Washington, Seattle, WA

2005 Research Seminar, Puget Sound Blood Center, Seattle, WA

2005 Invited Speaker, Fifth Bari International Conference on Hemophilia and Allied Disorders, von Willebrand Factor and Platelet Glycoproteins, Vieste del Gargano, Italy

2005 Invited Speaker, FASEB Summer Research Conference, Saxton River, VT

- 2005 Invited Speaker, State-of-the-Art Lecture, International Society on Thrombosis and Haemostasis XXth Congress, Sydney, Australia
- 2005 Invited Speaker, Texas Children's Cancer Center and Hematology Service Research Seminar Series, Houston, TX
- 2005 Invited Speaker, Department of Pharmacology Lecture Series, University of Illinois at Chicago, Chicago, IL
- 2005 Invited Speaker, Cardiovascular Research Seminar Series, Brigham & Women's Hospital, Boston, MA
- 2006 Invited Speaker, Bioengineering Seminar Series, Georgia Institute of Technology, Atlanta, GA
- 2006 Invited Speaker, Platelets 2006 Symposium, Ma'ale Ha'chamisha, Israel
- 2006 Invited Speaker, 19<sup>th</sup> International Congress on Thrombosis, Tel Aviv, Israel
- 2006 Invited Speaker, Thrombosis Quorum 2006, Madrid, Spain
- 2006 Invited Speaker, Pathology Seminar Series, Oregon Health and Science University
- 2006 Invited Speaker, Coagulation Update Symposium, Anchorage, AK
- 2006 Invited Speaker, 32<sup>nd</sup> Annual Congress of the Turkish Society of Haematology, Antalya, Turkey
- 2007 Invited Speaker, Centre for Blood Research, Vancouver, BC
- 2007 Invited Speaker, Novo Nordisk, New Brunswick, NJ
- 2008 Chairman of Medicine Grand Rounds, University of Washington, Seattle, WA
- 2008 Invited Speaker, Gordon Research Conference on Hemostasis, Waterville Valley, ME
- 2008 Invited Speaker, Vasculata 2008, University of Washington, Seattle, WA
- 2008 Invited Speaker, 2008 Venous Thromboembolism: from Bench to Bedside, University of North Carolina at Chapel Hill, NC
- 2008 Invited Speaker, AABB annual meeting, Montreal, Canada
- 2009 Keynote Speaker, 38<sup>th</sup> Annual Philadelphia Workshop on Hemostasis, Thrombosis and Atherosclerosis, University of Pennsylvania, Philadelphia, PA
- 2009 Invited Speaker, International Society of Thrombosis and Haemostasis XXII<sup>nd</sup> Congress, Boston, MA
- 2009 Invited Speaker, American Heart Association Scientific Sessions 2009, Orlando, FL
- 2009 Invited Speaker, American Society of Hematology annual meeting, New Orleans, LA
- 2010 Invited Speaker, University of North Texas, Denton, TX
- 2010 Invited Speaker, University of Washington Medicine Grand Rounds, Seattle, WA
- 2010 Invited Speaker, 2010 NIEHS-EPA Symposium on Air Pollution and Cardiovascular Disease, Seattle, WA
- 2010 Invited Speaker, Richard and Karen DeGowin Lecture in Hematology, University of Iowa, Iowa City, IA
- 2010 Invited Speaker, University of Delaware, Newark, DE
- 2011 Invited Speaker, University of North Carolina, Chapel Hill, NC
- 2011 Invited Speaker, Arteriosclerosis, Thrombosis and Vascular Biology 2011 Scientific Sessions, Chicago, IL
- 2011 Invited Speaker, Centre for Blood Research, Vancouver, Canada
- 2011 Invited Speaker, University of Kentucky, Lexington, KY
- 2011 Invited Speaker, UW Breakfast Club, University of Washington, Seattle, WA
- 2011 Invited Speaker, Cardiology Grand Rounds, University of Washington, Seattle, WA
- 2011 Invited Speaker, Laboratory Medicine Grand Rounds, University of Washington, Seattle, WA
- 2012 Invited Speaker, Medical Scientist Training Program, University of Washington, Seattle, WA
- 2012 Invited Speaker, Oregon Health and Science University, Portland, OR
- 2012 Invited Speaker, Bayer Healthcare, San Francisco, CA
- 2012 Invited Speaker, Department of Pharmacology, University of Illinois at Chicago

- 2012 Invited Speaker, AABB Annual Meeting, Boston, MA
- 2012 Invited Speaker, SACNAS National Conference, Seattle, WA
- 2012 Invited Speaker, LIV National Meeting of the Spanish Society of Hematology and Hemotherapy and XXVIII National Congress of the Spanish Society of Thrombosis and Haemostasis, Salamanca, Spain
- 2012 Invited Speaker, the Earl Davie Symposium, Centre for Blood Research, Vancouver, BC
- 2012 Keynote Speaker – Minority Medical Student Award Program, 54<sup>th</sup> annual meeting of the American Society of Hematology, Atlanta, GA
- 2013 Keynote Speaker, Gordon Research Conference on the Cell Biology of Megakaryocytes and Platelets, Galveston, TX
- 2013 Invited Speaker, Pathology Grand Rounds, Case Western Reserve University, Cleveland, OH
- 2013 Invited Speaker, FASEB Science Research Conference on Proteases in Hemostasis and Vascular Biology, Nassau, Bahamas
- 2013 Invited Speaker, Biorheology SSC sessions, International Society of Thrombosis and Haemostasis XXIV<sup>th</sup> Congress, Amsterdam, the Netherlands
- 2013 Invited Speaker, International Society of Thrombosis and Haemostasis XXIV<sup>th</sup> Congress, Amsterdam, the Netherlands
- 2013 Invited Speaker, Hematology Grand Rounds, Brigham and Women’s Hospital, Boston, MA
- 2013 Invited Speaker, 55<sup>th</sup> annual meeting of the American Society of Hematology, New Orleans, LA. Presented “Best of ASH”.
- 2014 Invited Speaker, Hematology Grand Rounds, Boston Children’s Hospital, Boston, MA
- 2014 Invited Speaker, Angiogenesis 2014, Amsterdam, the Netherlands
- 2014 Invited Speaker, American Society for Apheresis, San Francisco, CA
- 2014 Invited Speaker, Thrombosis and Hemostasis Summit 2014, Chicago, IL
- 2014 Invited Speaker, Aster Lecture, Blood Center of Wisconsin, Milwaukee, WI
- 2014 Invited Speaker, International Society of Thrombosis and Haemostasis SSC Meeting, Milwaukee, WI
- 2014 Invited Speaker, 7<sup>th</sup> World Congress of Biomechanics, Boston, MA
- 2014 Invited Speaker, Gordon Conference on Hemostasis, Waterville Valley, NH
- 2014 Invited Speaker, 4<sup>th</sup> Aland Island Meeting, Havsvidden, Aland Islands, Finland
- 2014 Invited Speaker, NIH Workshop, Small Vessels, Big Health Problems, Bethesda, MD
- 2014 Invited Speaker, Sol Sherry Thrombosis Research Center, Temple University, Philadelphia, PA
- 2014 Invited Speaker, Landsteiner Lecture, Sanquin Blood Supply Foundation, Amsterdam, the Netherlands
- 2014 Invited Speaker, the Rembrandt Lecture Series, Leiden University Medical Center, Leiden, the Netherlands
- 2014 Invited Speaker, Utrecht University Medical Center, Utrecht, the Netherlands
- 2015 Invited Speaker, Wintrobe Endowed Lecture, University of Utah, Salt Lake City, UT
- 2015 Invited Speaker, Thrombosis and Hemostasis Seminar Series, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2016 Invited Speaker, Grand Rounds, St. Louis University, St. Louis, MO
- 2016 Invited Speaker, von Willebrand Factor Session I, International Society of Thrombosis and Haemostasis SSC Meeting, Montpellier, France
- 2016 Keynote Speaker, Hemostasis Gordon Research Seminar, Stowe, VT
- 2016 Invited Speaker, 42<sup>nd</sup> Turkish Society of Hematology Meeting and 11<sup>th</sup> Balkan Day of Hematology, Antalya, Turkey
- 2016 Invited Speaker, 8<sup>th</sup> Symposium on Hemostasis, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2016 Invited Speaker, Thombosis Section, 19<sup>th</sup> International Vascular Biology Meeting, Boston, MA

- 2016 Keynote Speaker, 45th Annual Philadelphia Workshop on Hemostasis, Thrombosis and Atherosclerosis, University of Pennsylvania, Philadelphia, PA
- 2017 Invited Speaker, Irish Centre for Vascular Biology Launch, Royal College of Surgeons in Ireland, Dublin, IE
- 2017 Invited Speaker, University of Puerto Rico, Rio Piedras, San Juan, PR
- 2017 Invited Speaker, Bench Bedside Research Seminar, Oregon Health Sciences University, Portland, OR
- 2017 Invited Speaker, BIC International Conference, Rome, Italy
- 2017 Invited Speaker, Research Seminar, University of Perugia, Perugia, Italy
- 2018 Invited Speaker, Research Seminar, Department of Biochemistry & Molecular Biology, Louisiana State University, New Orleans, LA
- 2018 Invited Speaker, 9<sup>th</sup> Symposium on Hemostasis, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2018 Invited Speaker, FASEB Science Research Conference on Functional Disulfide Bonds in Health and Disease, Leesburg, VA
- 2018 Invited Speaker, Hemostasis Gordon Research Conference: Defining the Interactions Between Blood, Cells, and Vessels in Hemostasis and Disease, Waterville Valley, NH
- 2018 Invited Speaker,
- 2018 Invited Speaker, Frontiers in Cardiovascular Science Seminar, University of Michigan, Ann Arbor, MI
- 2018 Invited Speaker, Hematology/Oncology Pediatrics Seminar, Boston Children's Hospital, Boston, MA
- 2019 Invited Speaker, Pathology Grand Rounds, the University of Alabama at Birmingham, Birmingham, AL
- 2019 Invited Speaker, Research Forum, Oklahoma Medical Research Foundation, Oklahoma City, OK
- 2019 Invited Speaker, Bioverativ VWF/VWD Symposium, Boston, MA
- 2019 Invited Speaker, International Society of Thrombosis and Haemostasis 2019 Congress, State-of-the-Art Session, Melbourne, Australia
- 2019 Invited Speaker, VA Program on Thrombosis and Inflammation – New Paradigms and Therapeutic Implications for Veterans, Houston, TX
- 2019 Invited Speaker, Joint BIC and Inhibitors International Conference 2019, Genoa, Italy
- 2019 Invited Speaker, AFLAC Research Seminar, Emory University, Atlanta, GA
- 2020 Invited Speaker, ISTH 2020 Virtual Congress
- 2020 Invited Speaker, Chinese Society of Hematology Congress 2020
- 2020 Invited Speaker, Science in Medicine Lecture, University of Washington, Seattle, WA
- 2021 Invited Speaker, SLUSeminars Breakfast Club, University of Washington, Seattle, WA
- 2021 Invited Speaker, Hematology Grand Rounds, University of Washington, Seattle, WA
- 2021 Invited Speaker, Earl Davie Symposium, Department of Biochemistry, University of Washington, Seattle, WA
- 2021 Invited Speaker, Hematology Grand Rounds, Washington University in St. Louis, St. Louis, MO
- 2021 Invited Speaker, Ed Conway Symposium, University of British Columbia, Centre for Blood Research, Vancouver, Canada
- 2023 Invited Speaker, Cardio Vacular Research Center, University of Virginia

## **BOARD CERTIFICATION**

- 1984 Diplomat, American Board of Internal Medicine
- 1986 Subspecialty-Hematology

## **LICENSURE TO PRACTICE**

1981–Present Washington License #20279

## MEMBERSHIP IN ORGANIZATIONS

Alpha Omega Alpha Medical Honor Society  
American Association for the Advancement of Science  
American College of Physicians  
American Federation for Clinical Research  
Fellow, American Heart Association Council on Arteriosclerosis, Thrombosis and Vascular Biology  
Thrombosis Council, American Heart Association  
American Society of Clinical Investigation  
American Society of Hematology  
Association of American Physicians  
European Society of Haematology  
International Society of Thrombosis and Haemostasis  
New York Academy of Sciences  
North American Society on Thrombosis and Hemostasis  
Society for Advancement of Chicanos and Native Americans in Science  
Society for Experimental Biology and Medicine

## SPECIAL RESPONSIBILITIES

1976–1977 President, American Chemical Society Chapter, New Mexico Institute of Mining and Technology  
1978–1980 President, La RAMA (Chicano Medical Association), University of New Mexico  
1978–1980 Member, Medical School Admissions Committee, University of New Mexico  
1990–1994 Member, Gladstone Institute of Cardiovascular Disease Seminar Committee  
1990–1994 Coordinator, Gladstone Institute of Cardiovascular Disease Journal Club  
1992–1994 Head, Gladstone Institutes Molecular Biology Core  
1993–1996 Grant-in-Aid Application Reviewer, Thrombosis Council Study Section, American Heart Association  
1994 Abstract Review, American Society of Hematology Annual Meeting, Vascular Biology  
1995, 1997 Thesis Reviewer, Monash University, Melbourne, AU  
1996 Abstract Review, American Heart Association, Scientific Sessions  
1995–1997 Biosafety Committee, Houston VA Medical Center  
1997–2001 NIH Study Section, Hematology I  
1997–2000 Study Section, American Heart Association, Texas Affiliate  
1997 Thesis Reviewer, University of Sydney, Sydney, NSW, AU  
1997–2000 Basic Science Subcommittee, Houston VA Medical Center  
1998–2002 Subcommittee on Platelets, American Society of Hematology  
1998–1999 Search Committee for Chief, Section of Thrombosis, Baylor College of Medicine  
1999–2003 Vascular Biology Study Section, American Heart Association, National Chapter  
2001 Abstract Review, International Society on Thrombosis and Haemostasis  
2001 Fellow of the American Heart Association  
2002 Special Emphasis Study Section Member, “Obesity and Cardiovascular Disease”  
National Institutes of Health  
2002–2006 Committee on Hemostasis, American Society of Hematology  
2002 Abstract Review, American Society of Hematology Annual Meeting  
2003–2005 Co-Chairman, Scientific Subcommittee on Platelet Physiology, International Society of Thrombosis and Haemostasis  
2003–2010 Co-Chairman, American Society of Hematology Minority Recruitment Initiative



2003–2008 American Society of Hematology, ASH Scholars Study Section  
2003–2005 Oklahoma Center for the Advancement of Science and Technology-OCAST Study Section

2003 Abstract Review, American Heart Association Annual Meeting  
2003 Ad Hoc Grant Review, National Heart, Lung and Blood Institute  
2003 Grant Review, National Heart Foundation of Australia

2003–2008 American Society of Hematology, Committee on Government Affairs  
2005–2006 Vice Chair of the Baylor College of Medicine Institutional Diversity Council  
2005 Scientific Reviewer, NINR Postdoctoral Fellowship Applications  
2006–2008 Biosafety Committee, Puget Sound Blood Center  
2006–2012 Graduate Medical Education Committee, Puget Sound Blood Center  
2006 Grant Review, Health Research Board  
2006 NHLBI Strategic Planning Process, Working Group: Diagnosis and Treatment of Thrombotic Disorders

2007 Grant Review, Academy of Medicine, Engineering and Science of Texas  
2007– Grant Review, American Society of Hematology, Ad-Hoc Minority Committee  
2007 Grant Review, American Heart Association National Affiliate  
2007 Clinical Investigator and Research Scientist Career Development Awards Review Committee

2007 Special Emphasis Panel, Mentored Clinical Scientist Development Award, Independent Scientist Award and NHLBI Career Transition Award  
2007 Chairperson, The VWF-GPIIb Axis, XXIst Congress of the International Society on Thrombosis and Haemostasis

2007 NHLBI Special Review Committee, POI Project Review  
2007 Member, Thrombosis Study Group, American Heart Association  
2007–2009 Board Member, Northwest Association of Biomedical Research  
2007 Editor, Platelets in Hematologic and Cardiovascular Disorders: A Clinical Handbook  
2007 External Reviewer, University of British Columbia Centre for Blood Research  
2008 Grant Review, Leukemia Texas  
2008– Member, American Society of Hematology Grassroots Network  
2008 Member, Scientific Program Committee for the 2009 ISTH Congress  
2008– Media Expert – American Society of Hematology  
2009 Grant Review, National Blood Foundation  
2009 Chair, NHLBI Working Group Meeting on Platelet-WBC Interaction Post Transfusion, Bethesda, MD

2009 Member, Distinguished Editorial Panel – Challenge Grant Review  
2009 Member, Platelet Disorders-Bleeding Subcommittee, State of the Science Symposium in Transfusion Medicine and Hemostasis/Thrombosis

2009–2014 Member, Hemostasis and Thrombosis Study Section, NIH  
2009 Member, NHLBI Sickle Cell Disease – Inflammation, Thrombosis, and Vascular Injury Working Group

2009– Member, University of Washington Committee on Minority Faculty Affairs  
2010 Canadian Blood Services Research & Development Program Performance Review  
2010 Member, Hematology and Cardiovascular-Respiratory Science Distinguished Editorial Panel, NIH

2010–2016 Member, Cardiovascular Pathology Training Grant Steering Committee, University of Washington

2010–2013 Member, Advisory Board, Gamma Therapeutics  
2010 Moderator, Platelet Activation and Biochemistry Session, 52<sup>nd</sup> American Society of Hematology annual meeting

2011–2013 Member, Advisory Board, Northwest Association for Biomedical Research, Science Education Partnership grant, *Collaborations to Understand Research and Ethics (CURE)*

2011– Member, Arteriosclerosis, Thrombosis and Vascular Biology Spring Program Committee

2011– Member, Arteriosclerosis, Thrombosis and Vascular Biology Nominating Committee

2011 Co-Chairperson, Symposium Session, Structure and Function of ADAMTS-13 and von Willebrand Factor, XXIIIrd Congress of the International Society on Thrombosis and Haemostasis

2011–2015 Member, Alliance of Blood Operators (ABO) Research and Development Group

2011– Member, Executive Committee, Medical Scientist Training Program, University of Washington, Seattle, WA

2012–2013 Co-Chairperson, American Society of Hematology 2013 Annual Meeting Scientific Program

2012–2017 Member, Program Committee, Thrombosis and Hemostasis Summit of North America

2012–2017 Board Member, North American Society on Thrombosis and Hemostasis

2012 Discussion Leader, Gordon Conference on Hemostasis

2013 Member, American Society of Hematology Bridge Funding Study Section

2013–2014 Chair, Hemostasis/Thrombosis Study Section, National Heart, Lung, and Blood Institute, NIH

2013–2017 Member, Nominating Committee, North American Society on Thrombosis and Hemostasis

2013–2016 Member, Sickle Cell Disease Advisory Committee (SCDAC), National Heart, Lung, and Blood Institute, NIH

2013 Moderator, Special Symposium: Redox in Hematology, 55<sup>th</sup> annual meeting of the American Society of Hematology, New Orleans, LA

2014– Associate Editor, Blood Journal

2014 Chair, Hemostasis and Thrombosis Study Section, NIH

2014– Member, American Society of Hematology Scientific Committee on Platelets

2014– Advisory Board Member, University of Washington IMSD (Initiative for Maximizing Student Diversity)

2014 Chair/Organizer of the Regulation of Coagulation Session, Thrombosis and Hemostasis Summit 2014

2014– Member, International Society of Thrombosis and Haemostasis Council Class 2020

2014–2016 Member, International Society of Thrombosis and Haemostasis Finance Committee

2014– Member, International Society of Thrombosis and Haemostasis Lectures & Awards Committee

2015–2016 Member, International Advisory Committee, 24<sup>th</sup> Biennial International Congress on Thrombosis

2015– Member, International Scientific Program Committee, 19<sup>th</sup> International Vascular Biology Meeting

2015–2016 Member, Scientific Advisory Committee, New York Blood Center

2015– Member, Molecular Medicine Program Translational Advisory Committee

2015– Member, Editorial Board, Seminars in Thrombosis and Hemostasis

2015–2017 Chair, NASTH Summer Fellowship Committee

2015 Chair, NIH Special Emphasis Panel for the Review of Small Business Hematology SBIR application

2016 Chair, Session V, Coagulation Vessel Wall Interactions, 8<sup>th</sup> Symposium on Hemostasis, Chapel Hill, NC

- 2016 Moderator, Education Session II, Endothelial Cells and its Disorder: Vascular Biology, International Society of Thrombosis and Haemostasis SSC Meeting, Montpellier, France
- 2016– Member, International Society of Thrombosis and Haemostasis US Government Affairs Task Force
- 2016 Discussion Leader, Inflammation and Hemostasis Session, Gordon Research Conference on Hemostasis, Stowe, VT
- 2016–2018 Seminar Speaker Selection Committee, Bloodworks Northwest Research Institute
- 2016–2018 Appointments and Promotions Committee, Bloodworks Northwest Research Institute
- 2017– Member, Center for Scientific Review Advisory Council, National Institutes of Health
- 2018– Faculty, ASH Ambassador Program
- 2018 Member, *Blood* Editor-In-Chief Search Committee
- 2019 Co-Chair, VWF Biology Session, International Society of Thrombosis and Haemostasis, 2019 Congress, Melbourne, Australia
- 2019 Moderator, Scientific Session on Pathophysiology of Thrombosis: Prothrombotic Mechanisms and Assessment, American Society of Hematology Annual Meeting and Exposition, Orlando, FL
- 2019 Panelist, Junior Faculty Career Development Session, Looking for an Academic Job and Show Me the Money: Negotiating Your Salary and Benefits, American Society of Hematology Annual Meeting and Exposition, Orlando, FL
- 2020– Member, ASH Ambassador program
- 2020– Member, Seattle Foundation Grant Review Panel
- 2020 Member, NIH CSR Committee on Evaluating Peer Review
- 2020 Member, Beutler Award Review Subcommittee, American Society of Hematology
- 2020– Member, Bristol Meyers Squibb Foundation, Diverse Clinical Investigator Career Development Program (DCICDP) National Advisory Committee
- 2020– Scientific Co-Theme Leader of the Subcommittee on Vascular Biology for the XXX Congress of the International Society on Thrombosis and Haemostasis
- 2021 Member, Working Group 6, National Hemophilia Foundation’s State of the Science Research Summit
- 2021– Member, NIH Clinical Center's Board of Scientific Counselors
- 2021– Member, ASH Publications Committee
- 2022– Member, Cleveland Kidney, Urologic and Hematologic Training Network (KUH-TN), Case Western Reserve University
- 2023 Eexpert Reviewer, Chicago Biomedical Consortium (CBC).

*Editorial Boards:*

American Journal of Blood Research  
 Blood, Associate Editor, 2014-  
 Circulation, Associate Editor, 1999-2004  
 Journal of Thrombosis and Haemostasis  
 Research and Practice in Thrombosis and Haemostasis  
 Thrombosis  
 Thrombosis and Hemostasis  
 UpToDate  
 Seminars in Thrombosis and Hemostasis

*Journal Manuscript Review:*

American Journal of Pathology

Analytical Biochemistry: Methods in the Biological Sciences  
Arteriosclerosis, Thrombosis, and Vascular Biology  
Biochemistry  
Blood  
Blood Coagulation and Fibrinolysis  
Cell  
Circulation  
Experimental Haematology  
Journal of Biological Chemistry  
Journal of Clinical Investigation  
Journal of Experimental Medicine  
Journal of Laboratory and Clinical Medicine  
Journal of Thrombosis and Haemostasis  
Leukemia  
Nanomedicine  
Nature Structural Biology  
New England Journal of Medicine  
Proceedings of the National Academy of Science  
Science  
Thrombosis and Haemostasis  
Thrombosis Research

*Reviewer, Other Publications:*

Hematology 2010  
Kyoto International Society of Thrombosis and Haemostasis, State-of-the-Art Book

*NIH Program Project site visit teams:*

May 1990      Scripps Clinic and Research Foundation, La Jolla, CA  
May 1991      Cardeza Foundation and Temple University, Philadelphia, PA

*Ad-hoc Grant Reviewer:*

Austrian Science Fund  
Canadian Red Cross  
Fonds voor Wetenschappelijk Onderzoek-Vlaanderen, Belgian Funding Agency  
Landsteiner Foundation for Blood Transfusion Research  
Leukemia Texas  
National Blood Foundation  
North Atlantic Treaty Organization  
Qatar National Research Fund  
Swiss National Science Foundation

## **TEACHING DUTIES**

1989–1994      Organizer, Gladstone Institute of Cardiovascular Disease Journal Club  
Participant, UCSF Hematology/Oncology Journal Club and Grand Rounds  
1992–1994      Instructor, Introduction to Clinical Medicine, Hematology course, UCSF  
1992–1994      Lecturer, Gladstone Institute's Science for Administrators lecture series  
1995–1996      Pathophysiology Course, Baylor College of Medicine  
1995–2006      Internal Medicine Grand Rounds, Houston VA Medical Center  
1997–2006      Lecturer, Department of Molecular and Human Genetics, Baylor College of Medicine  
2000–2006      Lecturer, Graduate Course, Cardiovascular Sciences, Baylor College of Medicine

2003–2006 Lecturer, Medical School, Baylor College of Medicine, Second year course on Hematology

2006– Hematology Grand Rounds, University of Washington

2006– Hematology/Thrombosis Course, Puget Sound Blood Center

2009– HuBio 552 Course, University of Washington

2009 Chairman’s Rounds, University of Washington Department of Medicine

2010 Faculty, Comprehensive Board Review in Hematology and Medical Oncology, Houston, TX

2011– Molecular Medicine Course - Winter Quarter, University of Washington

2012–2013 Biochemistry 533A, University of Washington

2014 Lecturer at Diversity Café, Spring Quarter meeting of the Latino Medical Student Association, University of Washington

2014 Landsteiner Masterclass, Sanquin Blood Supply Foundation, Amsterdam, the Netherlands

2014 Masterclass, Department of Thrombosis and Hemostasis, Leiden University Medical Center, Leiden, the Netherlands

2014 Scientific Writing, Sessions 1-3, Puget Sound Blood Center, Seattle, WA

2017 Lecturer, Topics class on Platelets in Immunology and Inflammation, University of Puerto Rico, Rio Piedras, San Juan, PR

2019 Masterclass, International Society of Thrombosis and Haemostasis, 2019 Congress, Melbourne, Australia

2022 Faculty, 2022 Translational Research Training in Hematology Spring Course, Paris, France

## GRANT SUPPORT

1986–1991 Robert Wood Johnson Foundation, Minority Medical Faculty Development Award. Total award \$280,000.

1989–1994 NIH P01HL41633, *Lipoprotein Structure/Function in Cholesterol Metabolism*, Core C Leader. Total award for Core C \$699,144.

1990–1995 Clinical Investigator Career Development Award, NIH K08HL02463 *Structure and Function of the Platelet GP Ib-IX Complex*. Total award \$313,200.

1992–1997 NIH FIRST Award, NIH R29HL46416, *Structure and Function of the GP Ib-IX Complex*, Principal Investigator. Total award \$950,000

1993–1995 American Heart Association (California Affiliate) Grant-in-Aid Award, *Interaction between platelet GP Ib-IX and Fc $\gamma$ RII*. Principal Investigator. Total award \$300,000.

1996–2001 Established Investigatorship, American Heart Association, *Molecular Genetics of Human Platelet Glycoproteins*. Principal Investigator. Total award \$230,000

1996–1999 Grant-in-Aid, American Heart Association, National Chapter. Principal Investigator. Total award \$132,000

1997–2001 NIH, R01HL54218-01, *Molecular Genetics of Human Platelet Glycoproteins*, Principal Investigator. Total award \$912,762

2000–2005 NIH, R01 HL64796, *Platelet Interactions with Endothelium and Leukocytes*, Principal Investigator. Total award \$1,881,250.

2000–2005 NIH, R01 HL65205 *Adhesion Receptor Polymorphisms: Functional Studies and Clinical Consequences*. Total award \$1,693,125.

2001–2006 NIH, P50 HL65967, NIH Specialized Center in Hemostatic and Thrombotic Disease, *Platelets, Shear Stress, and Arterial Thrombosis*, Principal Investigator, Annual direct cost: \$917,945, Total award, direct costs \$4,589,725.

2004-2007 Leukemia and Lymphoma Society, *Macrophage-derived prothrombotic microparticles and thrombosis in myeloproliferative diseases*. Principal Investigator. Total award \$390,000.

2006-2009	NIH, R01 HL082808 (subcontract), <i>Structure and Function of Platelet Glycoprotein Ib-IX-V Complex</i> , Total award \$264,920.
2006-2017	NIH, 1K12 HL087165-11, <i>Career Development in Clinical Hematology Research</i> , Co-Principal Investigator. Annual award \$369,666.
2009-2014	NIH, IR01 HL091153-01, <i>Regulation of von Willebrand Factor Reactivity</i> , Principal Investigator. Total direct costs \$1,000,000.
2010-2011	Ignition Award, Institute of Translational Health Sciences, <i>N-acetylcysteine: A Potential Treatment for Thrombotic Thrombocytopenic Purpura</i> . Total award \$50,000.
2010-2015	NIH, IR01 HL106074-05 (subcontract), <i>Regulation of von Willebrand Factor-Platelet Binding by Interdomain Interactions</i> . Annual direct costs \$151,400.
2012-2021	NIH, IR01 HL112633-07, <i>von Willebrand Factor in Sickle Cell Disease Pathophysiology</i> . Annual direct costs \$400,536.
2013-2018	NIH, IR01 HL117639-05, <i>Biosynthetic and Functional Consequences of von Willebrand Disease Mutations</i> . Annual direct costs \$361,690.
2015-2017	NIH, IR21HL129526-02 (subcontract) <i>Endothelial Activation and Microangiopathy in HIV-Related Cardiovascular Disease</i> . Co-Principal Investigator. Annual direct costs \$91,242.
2015-2017	NIH, IR34HL128798-02 <i>A Pilot Study of N-acetylcysteine in Sickle Cell Disease Vaso-occlusive Crisis</i> . Co-investigator. Annual direct costs \$51,702.
2015-2017	NIH/CFAR R24AG044325-02 (subcontract) <i>Endothelial Activation and Microangiopathy in HIV-Related Stroke</i> . Co-investigator. Total costs \$25,000.
2015-2020	NIH/NHLBI IR01 HL125957-04 <i>Molecular Biology of VWF Adhesive Activity and Disease Association</i> . Co-investigator. Annual direct costs \$11,875.
2017-2020	NIH/NHLBI IR01HL137991-04 <i>The Biology of VWF Self-Association</i> . Role: Co-investigator. Annual direct costs: \$103,168.
2019-2026	NIH/NHLBI IR35HL145262-03 <i>Molecular and Translational Studies in Hematologic Disorders</i> . Principal Investigator. Annual direct costs: \$621,522.
2019-2023	NIH/NHLBI 2R01 HL078610-16 <i>Molecular Imaging of Platelets and Oxidative Stress in Atherosclerosis</i> . Co-investigator. Annual direct costs \$90,800.
2020-2021	Andy Hill Care Fund 2021-CVD-01 <i>Development of Single Chain Variable Fragment to Block SARV-CoV-2 Infection</i> . MPI. Annual direct costs \$100,000.
2020-2025	NIH/NHLBI R01HL153072-02 <i>Role of TRPM8 in Cold-stored Platelet Transfusions</i> . Co-investigator. Annual direct costs \$74,842.
2020-2025	NIH/NHLBI IR61HL154250-02 <i>3D Models of the Blood-Brain Barrier for Studying Trauma-Induced Cerebral and Systemic Injuries</i> . Co-Investigator. Annual direct costs \$12,817.
2021-2026	NIH/NHLBI IR01HL158606-01 <i>Role of Mitochondria in SLE and its Cardiovascular Complications</i> . Co-Investigator. Annual direct costs \$25,000.
2022-2027	NIH/NHLBI (R01HL165422) <i>Advanced Imaging for Emerging Concepts in Aortic Stenosis Pathobiology</i> . Co-Investigator. Annual direct costs \$86,222

## PATENTS

U.S. Patent 8,637,268B2: "Determination of von Willebrand factor cleavage by ADAMTS13", January 28, 2014

U.S. Patent 9,599,613B2: "Photonic Blood Typing", March 21, 2017

## PUBLICATIONS

1. **López, J.A.**, Chung, D.W., Fujikawa, K., Hagen, F.S., Papayannopoulou, T., and Roth, G.J. (1987) Cloning of the  $\alpha$ -chain of human platelet glycoprotein Ib: A transmembrane protein with homology to leucine-rich  $\alpha_2$ -glycoprotein. *Proc. Natl. Acad. Sci. USA* 84(16):5615-19.
2. Singer, J.W., Charbord, P., Keating, A., Nemunaitis, J., Raugi, G., Wight, T.N., **López, J.A.**, Roth, G.J., Dow, L.W., and Fialkow, P.J. (1987) Simian virus 40-transformed adherent cells from human long-term marrow cultures: Cloned cell lines produce cells with stromal and hematopoietic characteristics. *Blood* 70(2):464-74.
3. **López, J.A.**, Chung, D.W., Fujikawa, K., Hagen, F.S., Davie, E.W., and Roth, G.J. (1988) The  $\alpha$  and  $\beta$ -chains of human platelet glycoprotein Ib are both transmembrane proteins containing a leucine-rich amino acid sequence. *Proc. Natl. Acad. Sci. USA* 85(7):2135-39.
4. **López, J.A.**, Ludwig, E., and McCarthy, B.J. (1992) Polymorphism of human glycoprotein Ib $\alpha$  results from a variable number of tandem repeats of a 13-amino acid sequence in the mucin-like macroglycopeptide region: Structure/function implications. *J. Biol. Chem.* 267:10055-61.
5. Kaushansky, K., **López, J.A.**, and Brown, C.B. (1992) Role of carbohydrate modification in the production and secretion of human granulocyte macrophage colony-stimulating factor in genetically engineered and normal mesenchymal cells. *Biochemistry* 31(6):1881-86.
6. **López, J.A.**, Leung, B., Reynolds, C.C., Li, C.Q., and Fox, J.E.B. (1992) Efficient plasma membrane expression of a functional platelet glycoprotein Ib-IX complex requires the presence of its three subunits. *J. Biol. Chem.* 267(18):12851-59.
7. **López, J.A.** (1994) The platelet glycoprotein Ib-IX complex. *Blood Coagul. Fibrinol.* 5:97-19.
8. **López, J.A.**, Weisman, S., Sih, T., Li, C.Q., and Sanan, D.A. (1994) Association of GP Ib with actin-binding protein does not require GP IX. *Blood Coagul. Fibrinol.* 5(4):479-86.
9. **López, J.A.**, Weisman, S., Sanan, D.A., Sih, T., Chambers, M., and Li, C.Q. (1994) Glycoprotein (GP) Ib $\beta$  is the critical subunit linking GP Ib $\alpha$  and GP IX in the GP Ib-IX complex. Analysis of partial complexes. *J. Biol. Chem.* 269(38):23716-21.
10. Dong, J.-f., Li, C.Q., and **López, J.A.** (1994) Tyrosine sulfation of the GP Ib-IX complex. Identification of sulfated residues and effect on ligand binding. *Biochemistry* 33(46):13946-53.
11. Chambers, M., Weisman, S., Li, C.Q., and **López, J.A.** (1995) Mapping of antibodies to CD42a and CD42b in transfected cell lines expressing the GP Ib-IX complex. *Leukocyte Typing V, White Cell Differentiation Antigens.* (Schlossman, S., et al., ed.) Oxford University Press 2:1343-45.
12. **López, J.A.**, Li, C.Q., Chambers, M., and Weisman, S. (1995) The CD42 antibody SZ1, which blocks a site on the GP Ib-IX complex recognized by drug-dependent antibodies, binds to a conformation-dependent epitope on GP IX. *Leukocyte Typing V, White Cell Differentiation Antigens.* (Schlossman, S., et al., ed.) Oxford University Press 2:1341-43.
13. **López, J.A.**, Li, C.Q., Weisman, S., and Chambers, M. (1995) The glycoprotein Ib-IX complex-specific monoclonal antibody SZ1 binds to a conformation-sensitive epitope on glycoprotein IX. Implications for the target antigen of quinine/quinidine-dependent autoantibodies. *Blood* 85(5):1254-58.
14. Li, C.Q., Dong, J.-f., Lanza, F., Sanan, D.A., Sae-Tung, G., and **López, J.A.** (1995) Expression of platelet glycoprotein (GP) V in heterologous cells and evidence for its association with GP Ib $\alpha$  in forming a GP Ib-IX-V complex on the cell surface. *J. Biol. Chem.* 270(27):16302-07.

15. Dong, J.-f., Hyun, W., and **López, J.A.** (1995) Aggregation of mammalian cells expressing the platelet glycoprotein (GP) Ib-IX complex and the requirement for tyrosine sulfation of GP Ib $\alpha$ . *Blood* 86:4175–83.
16. Sae-Tung, G., Dong, J.F., and **López, J.A.** (1996) Biosynthetic defect in platelet glycoprotein (GP) IX mutants associated with Bernard-Soulier syndrome. *Blood* 87(4):1361-67.
17. Andrews, R.K., Kroll, M.K., Ward, C.M., Scarborough, R.M., **López, J.A.**, and Berndt, M.C. (1996) Binding of a novel 50-kilodalton alboaggregin from *Trimeresurus albolabris* and related viper venom proteins to the platelet membrane glycoprotein Ib-IX-V complex. Effect on platelet aggregation and glycoprotein Ib-mediated platelet activation. *Biochemistry* 35(38):12629–39.
18. Kunishima, S., **López, J.A.**, Kobayashi, S., Imai, N., Kamiya, T., Saito H., and Naoe, T. (1997) Missense mutations of the glycoprotein (GP) Ib $\beta$  gene impairing the GPIb $\alpha$ / $\beta$  disulfide linkage in a family with giant platelet disorder. *Blood* 89(7):2402–12.
19. Andrews, R.K., **López, J.A.**, and Berndt, M.C. (1997) Molecular mechanisms of platelet adhesion and activation. *Int J. Biochem Cell Biol* 29(1):91–105.
20. Dong, J.-f., Sae-Tung F., and **López, J.A.** (1997) Role of glycoprotein V in the formation of the platelet high-affinity thrombin-binding site. *Blood* 89(12):4355–63.
21. Bradford, H.N., De La Cadena, R.A., Kunapuli, S.P., Dong, J.F., **López, J.A.**, and Colman, R.W. (1997) Human kininogens regulate thrombin binding to platelets through the glycoprotein Ib-IX complex. *Blood* 90(4):1508-15.
22. **López, J.A.** and Dong, J.-f. (1997) Structure and function of the platelet glycoprotein Ib-IX-V complex. *Curr Opin Hematol* 4(5):323–29.
23. Afsharkharghan, V. and **López, J.A.** (1997) Bernard-Soulier syndrome caused by a dinucleotide deletion and reading frameshift in the region encoding the glycoprotein Ib $\alpha$  transmembrane domain. *Blood* 90(7):2634–43.
24. Dong, J.-f., Li, C.Q., Hyun, W., Sae-Tung, G., Afshar-Kharghan V., and **López, J.A.** (1997) The cytoplasmic domain of glycoprotein (GP) Ib $\alpha$  constrains the lateral diffusion of the GP Ib-IX complex and modulates von Willebrand factor binding. *Biochemistry* 36(41):12421–27.
25. Sullam, P.M., Hyun, W.C., Szöllösi, J, Dong, J.-f., Foss, W.M., and **López, J.A.** (1998) Physical proximity and functional interplay of the glycoprotein Ib-IX-V complex and the Fc receptor Fc $\gamma$ RIIA on the platelet plasma membrane. *J. Biol. Chem.* 273(9):5331–36.
26. **López, J.A.**, Andrews, R.K., Afshar-Kharghan, V. and Berndt, M.C. (1998) Bernard-Soulier syndrome. *Blood* 91(12):4397–418.
27. Burgess, J. K., **López, J.A.**, Berndt, M.C., Gaudry, L.E., Dawes, I., Chesterman, C.N., Chong, B.H. (1998) Quinine-dependent antibodies bind a restricted set of epitopes on the glycoprotein Ib-IX complex: characterization of the epitopes. *Blood* 92(7):2366-73.
28. Fredrickson, B. J., Dong, J.-f., McIntire, L.V., and **López, J.A.** (1998) Shear-dependent rolling on von Willebrand factor of mammalian cells expressing the platelet glycoprotein Ib-IX-V complex. *Blood* 92(10):3684-93.
29. Dong, J.-f., Gao, S., and **López, J.A.** (1998) Synthesis, assembly and intracellular transport of the platelet glycoprotein Ib-IX-V complex. *J. Biol. Chem.* 273(47):31449–54.
30. Tan, L., Kowalska, M.A., Romo, G.M., **López, J.A.**, Darzynkiewicz, Z., and Niewiarowski, S. (1999) Identification and characterization of endothelial glycoprotein Ib using viper venom proteins modulating cell adhesion. *Blood* 93(8):2605–16.



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32. Andrews, R.K., Shen, Y., Gardiner, E.E., Dong, J.-f., **López, J.A.**, and Berndt, M.C. (1999) The glycoprotein Ib-IX-V complex in platelet adhesion and signaling. *Thromb. Haemostas.* 82(2):357-64.
33. Romo, G.M., Dong, J.-F., Schade, A., Kansas, G.S., McIntire, L.V., Berndt, M.C., and **López, J.A.** (1999) The glycoprotein Ib-IX-V complex is a platelet counter-receptor for P-selectin. *J. Exp. Med.* 190:803–13.
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35. Shen, Y., Romo, G.M., Dong, J.F., Schade, A.J., McIntire, L.V., Dermot, K., Whisstock, J.C., Berndt, M.C., **López, J.A.**, and Andrews, R.A. (2000) Requirement of leucine-rich repeats of GP Ib $\alpha$  for shear-dependent and static binding of von Willebrand factor to the platelet membrane GP Ib-IX-V complex. *Blood* 95(3):903-10.
36. Afshar-Kharghan, V., Gineys, G., Schade, A.J., Sun, L., McIntire, L.V., Dong, J.-F., and **López, J.A.** (2000) Necessity of conserved asparagine residues in the leucine-rich repeats of glycoprotein Ib $\alpha$  for proper conformation and function of the ligand-binding region. *Biochemistry* 39(12): 3384-91.
37. Burgess, J.K., **López, J.A.**, Gaudry, L.E., and Chong, B.H. (2000) Rifampicin-dependent antibodies bind a similar or identical epitope to glycoprotein IX-specific quinine-dependent antibodies. *Blood* 95(6):1988–92.
38. **López, J.A.** and Afshar-Kharghan, V. (2000) The glycoprotein Ib $\alpha$  Kozak polymorphism may, or may not, be a risk factor for coronary artery disease. (letter) *Blood* 95(6):2183.
39. Simon, D.I., Xu, H., Chen, Z., Ballantyne, C.M., Zhang, L., Berndt, M.C., **López, J.A.** (2000) Platelet glycoprotein Ib $\alpha$  is a counter-receptor for the leukocyte integrin Mac-1 (CD11b/CD18). *J. Exp. Med.* 192(2):193–204.
40. Dong, J.F., Schade, A.J., Romo, G.M., Andrews, R.K., Gao, S., McIntire, LV., **López, J.A.** (2000) Novel gain-of-function mutations of platelet glycoprotein (GP) Ib $\alpha$  by valine mutagenesis in the Cys<sup>209</sup>-Cys<sup>248</sup> disulfide loop. Functional analysis under static and dynamic conditions. *J. Biol. Chem.* 275(36):27663–70.
41. Afshar-Kharghan, V., Craig, F.E., and **López, J.A.** (2000) Bernard-Soulier syndrome in a patient doubly heterozygous for two frameshift mutations in the glycoprotein Ib $\alpha$  gene. *Br. J. Haem.* 110(4):919–24.
42. Dong J.-f., Li C.Q., Schade A.J., Fredrickson B.J., Sun L., McIntire L.V., **López J.A.** (2000) Mutation in the leucine-rich repeat of platelet glycoprotein Ib $\alpha$  results in defects in its interaction with immobilized von Willebrand factor under flow. *Chin Med J (Engl)*. 113(8):693–8.
43. Zhang, B.M., Kohli, V., Adachi, R., **López, J.A.**, Udden, M. M., and Sullivan, R. (2001) Calmodulin binding to the C-terminus of the small-conductance CA<sup>2+</sup>-activated K<sup>+</sup> channel hSK1 is affected by alternative splicing. *Biochemistry* 40:3189–94.
44. Dong J.F., Berndt M.C., Schade A., McIntire L.V., Andrews R.K., **López J.A.** (2001) Ristocetin-dependent, but not botrocetin-dependent, binding of von Willebrand factor to the platelet glycoprotein Ib-IX-V complex correlates with shear-dependent interactions. *Blood* 97:162–68.
45. Merten, M., Dong, J.-F., **López, J.A.**, and Thiagarajan, P. (2001) Cholesterol sulfate: A new adhesive molecule for platelets. *Circulation* 103:2032–34.

46. Afshar-Kharghan, V., Diz-Küçükaya, R., Ludwig, E.H., Marian, A.J. and **López, J.A.** (2001) Human polymorphism of P-selectin glycoprotein ligand-I due to variable numbers of tandem decameric repeats in the mucin-like region. *Blood* 97(10):3306–07.
47. Li, C.Q., Ye, P., Cao, Z., Wang, H., Lu, L., Nicastro, P., Wood, E., Robert, J.J., Ouwehand, W.H., Hill, F., **López, J.A.**, and Wardell, M.R. (2001) Expression of the amino-terminal domain of platelet glycoprotein Ib $\alpha$ : exploitation of a calmodulin tag for determination of its functional activity. *Protein Expr. Purif.* 22:200–10.
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49. Cauwenberghs, N., Vanhoorelbeke, K., Vauterin, S., Westra, D.F., Romo, G.M., Huizinga, E.G., **López, J.A.**, Berndt, M.C., Harsfalvi, J. and Deckmyn, H. (2001) Epitope mapping of inhibitory antibodies against platelet glycoprotein Ib $\alpha$  reveals interaction between the leucine-rich repeat N-terminal and C-terminal flanking domains of glycoprotein Ib $\alpha$ . *Blood* 98:652–60.
50. Dong J.-F., Schade, A.J., Gao, S., McIntire, L.V., **López, J.A.** (2001) Tyrosine sulfation of glycoprotein (GP) Ib $\alpha$ : Role of electrostatic interactions in von Willebrand factor binding. *J. Biol. Chem.* 276:16690–94.
51. Meisel, C., Afshar-Kharghan, V., Cascorbi, I., Laule, M., Stangl, V., Felix, S., Baumann, G., **López, J.A.**, Roots, I., and Stangl, K. (2001) Role of Kozak sequence polymorphism of platelet glycoprotein Ib $\alpha$  as a risk factor for coronary artery disease and catheter interventions. *J. Amer. Coll. Card.* 38(4):1023–27
52. Shen, Y., Dong, J.-F., Romo, G.M., Arceneaux, W., Aprico, A., Gardiner, E.E., **López, J.A.**, Berndt, M.C., Andrews, R.K. (2002) Functional analysis of the C-terminal flanking sequence of platelet GPIb $\alpha$  using canine–human chimeras. *Blood* 99(1):145–50.
53. Baglia, F.A., Badellino, K.O., Li, C.Q., **López, J. A.**, and Walsh, P.N. (2002) Factor XI binding to the platelet glycoprotein Ib-IX-V complex promotes factor XI activation by thrombin. *J. Biol. Chem.* 277(3):1662–68.
54. Whisstock, J.C., Shen, Y., **López, J.A.**, Andrews, R.K., Berndt, M.C. (2002) Molecular modeling of the seven tandem leucine-rich repeats within the ligand-binding region of platelet glycoprotein Ib $\alpha$ . *Thromb. Haemost.* 87:329–33.
55. Arya M., **López J.A.**, Romo G.M., Dong J.F., McIntire L.V., Moake J.L., and Anvari B. (2002) Measurement of the binding forces between von Willebrand factor and variants of platelet glycoprotein Ib $\alpha$  using optical tweezers. *Lasers in Surg. and Med.* 30:306–12.
56. Arya, M., Anvari, B., Romo, G.M., Cruz, M.A., Dong, J.-F., McIntire, L.V., Moake, J.L., and **López, J.A.** (2002) Ultra-large multimers of von Willebrand factor form spontaneous high-strength bonds with the platelet GP Ib-IX complex: Studies using optical tweezers. *Blood* 99(11):3971–77.
57. Tait, A.S., Dong, J.F., **López, J.A.**, Dawes, I.W., Chong, B.H. (2002) Site-directed mutagenesis of platelet glycoprotein Ib $\alpha$  demonstrating residues involved in the sulphation of tyrosine 276, 278, and 279. *Blood* 99(12):4422-27.
58. Garner, S.F., Campbell, K., Metcalfe, P., Keidan, J., Dong, J.-F., **López, J.A.**, and Ouwehand, W.H. (2002) GPV autoimmunity in gold-induced thrombocytopenia. *Blood* 100:344-46.
59. Musher, D., Goldsmith, E., Dunbar, S., Tilney, G., Darouiche, R., Yu, Q., **López, J.A.**, Dong, J.F. (2002) The association between hypercoagulable states or hyperreactive platelets and bacterial colonization of intravenous catheters. *J. Infect. Dis.* 186(6):769-73.

60. Li, C.Q., Dong, J.F., and **López, J.A.** (2002) The mucin-like macroglycopeptide region of glycoprotein Ib $\alpha$  is required for cell adhesion to immobilized von Willebrand factor under flow but not for static binding. *Thromb. Haemost.* 88(4):673–77.
61. Zhang, J., Bergeron, A.L., Yu, Q., Sun, C., McIntire, L.V., **López, J.A.**, Dong, J.F. (2002) Platelet aggregation and activation under complex patterns of shear stress. *Thromb. Haemost.* 88(5):817–21.
62. Shrimpton, C.N., Borthakur, G., Larrucea, S., Cruz, M.A., Dong, J.F. and **López, J.A.** (2002) Localization of the adhesion receptor glycoprotein Ib-IX-V complex to lipid rafts is required for platelet adhesion and activation, *J. Exp. Med.* 196(8):1057–66.
63. Dong, J.F., Moake, J.L., Nolasco, L., Bernardo, A., Arceneaux, W., Shrimpton, C.N., Schade, A.J., McIntire, L.V., Fujikawa, K., and **López, J.A.** (2002) ADAMTS-13 rapidly cleaves newly secreted ultra-large von Willebrand factor multimers on the endothelial surface under flowing conditions. *Blood* 100(12):4033–39.
64. Schade, A.J., Arya, M., Gao, S. Diz-Küçükkaya, R., Anvari, B., McIntire, L.V., **López, J.A.** and Dong, J.F. (2003) Cytoplasmic truncation of GP Ib $\alpha$  weakens its interaction with von Willebrand factor and impairs cell adhesion. *Biochemistry* 42(7):2245–51.
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