

Andrew S. Weyrich, PhD

- 2014 Keystone Symposium on New Frontiers in the Discovery and Treatment of Thrombosis, Keynote Speaker, Keystone, CO
- 2014 Platelets 2014, Ma'ale Hachamisha, Israel
- 2014 Thrombosis and Hemostasis Summit of North America, Chicago, IL
- 2014 University of Kentucky Cardiovascular Seminar Series, Lexington, KY
- 2014 UNC Symposium on Hemostasis, Chapel Hill, NC
- 2014 Washington University Center for Translational Therapies in Thrombosis, St. Louis, MO
- 2014 Midwest Platelet Conference, Chicago, IL
- 2014 Distinguished Lecturer in Immunology, Cincinnati Children's Hospital, OH
- 2014 AABB Annual Meeting, Philadelphia, PA
- 2014 43rd Annual Philadelphia Workshop in Hemostasis, Thrombosis, and Atherosclerosis Keynote Speaker, Temple University, Philadelphia, PA
- 2014 American Society of Hematology Annual Meeting, San Francisco, CA
- 2015 Northwestern University Grand Rounds, Chicago, IL
- 2015 University of Michigan Frontiers in Science Seminar Series, Ann Arbor, MI,
- 2015 Plenary Speaker, XXV Congress of the ISTH, Toronto, Canada,
- 2015 Grand Rounds, Northwestern University, Chicago, IL
- 2015 State-of-the-Art Lecture, Congress of the International Society on Thrombosis and Haemostasis, Toronto, Canada
- 2015 23rd IUBMB Congress, Foz do Iguaçu, Brazil
- 2015 Seminars in Clinical Research, Rockefeller University, New York, NY
- 2016 Oklahoma Medical Research Foundation, Oklahoma City, OK
- 2016 Seminar Chair and Lecturer, 60th Annual Meeting of the GTH, Münster, Germany
- 2016 NHLBI LncRNA Workshop, Bethesda, MD
- 2016 Scientific Advisory Board (SAB) Meeting and Advisory Board Meeting, Rochester, NY
- 2016 NHLBI, NIH Basic & Clinical RFA Grantee Meeting, Bethesda, MD
- 2016 TRC/THD Annual 2016 Face to Face Meeting, Rockville, MD
- 2017 GRC, Cell Biology of Megakaryocytes and Platelets, Keynote Presenter, Renaissance Tuscany II Ciocco, Italy
- 2018 Keenan Research Centre, Toronto, Canada
- 2018 Blood Center of Wisconsin, Milwaukee, WI
- 2019 NHLBI Biomedicine Lecture, Bethesda, MD
- 2020 Keynote Address, Pittsburgh Hematology Research Symposium, Pittsburgh, PA

Peer Review Activities: Regular participation in peer-review activities, including:

Foundations and Federal Agencies:

- 1998-2001 Research and Development Committee, V.A., University of Utah
- 2002-2005 American Heart Association, Western Affiliate

Andrew S. Weyrich, PhD

2005-2006 Oklahoma Center for the Advancement of Science and Technology
2003-2007 American Heart Association, National
2005-2008 Canadian Institute of Health Research
2002-present National Institutes of Health, Ad-Hoc
2009-2014 National Institutes of Health, Thrombosis and Hemostasis Study Section,
member
2014-2017 National Institutes of Health, NHLBI T32 Study Section,
member
2018-present National Institutes of Health, NHLBI Advisory Council, member

Journals:

Associate Editor:

Blood Advances (current)

Section Editor:

Thrombosis and Haemostasis (past)

Editorial Board:

Blood

Referee:

Arteriosclerosis, Thrombosis, and Vascular Biology

Blood

Cell Host & Microbe

Circulation

Circulation Research

Journal of Cell Biology

Journal of Clinical Investigation

Journal of Experimental Medicine

Journal of Immunology

Journal of Pharmacology and Experimental Therapeutics

Journal of Thrombosis and Hemostasis

Nature

Nature Communications

Nature Genetics

Nature Medicine

Nature Structural and Molecular Biology

Proceedings of the National Academy of Sciences, USA

Science

Science Translation and Medicine

Others

Andrew S. Weyrich, PhD

IX. RESEARCH GRANTS

Current:

- 07/01/2014 to 06/30/2026 2T35HL007744-21A1 (A.S. Weyrich, Co-PI)
NIH/NHLBI
Short-Term Institutional Research Training Grant
(Parent T35)
- 07/01/1994 to 6/30/2022 T32HL007576 (A.S. Weyrich, Co-PI)
NIH/NHLBI
"Training in Cardiovascular Research"
(Parent T32)
- 07/01/2018 – 06/30/2022 1R01 HL142804 (A.S. Weyrich, Co-PI)
NIH/NHLBI
"Translational Control of Megakaryocyte and Platelet
Function in Sepsis"
- 07/01/2018 – 06/30/2023 1R61/R33 HL141783 (A.S. Weyrich, Co-PI)
NIH/NHLBI
"OPA1: An Estrogen-Mediated Modulator of Platelet
Hyperactivation"
- 01/01/2019 – 12/31/2025 1R35 HL12568306 (A.S. Weyrich, PI)
NIH/NHLBI
"Translational Control of Megakaryocyte and Platelet
Gene Expression in Disease"

Past:

- 1991-1993 NHBLI/NRSA (A.S. Weyrich, PI)
"Adhesion Molecules in Ischemia-Reperfusion"
- 1996-1997 AHA/GIA (A.S. Weyrich, PI)
"Platelet Regulation of Monokine Synthesis"
- 1996-1997 PCMC (A.S. Weyrich, PI)
"Developmental Expression of Endothelial Cell Adhesion Molecules"
- 1997-2001 R29 HL56713 (A.S. Weyrich, PI)
NIH/NHLBI
"Platelet Regulation of Monokine Synthesis"
- 2000-2001 Pfizer (A.S. Weyrich, PI)
"Regulation of Interleukin-1 β Formation by Platelets"

Andrew S. Weyrich, PhD

- 2001-2014 R01 HL066277 (A.S. Weyrich, PI)
NIH/NHLBI
"Translational Events in Platelets"
- 2003-2007 AHA 034015N (A.S. Weyrich, PI)
AHA/EIA
"Novel Functions of p38 MAP Kinase in Platelets"
- 2004-2014 1R01 HL075507 (A.S. Weyrich, Co-Inv)
NIH/NHLBI
"Translational Control of Rapid Endothelial Responses"
- 2006-2008 UofU Catalyst Program (A.S. Weyrich, PI)
"New Pathways to Coagulation in Thrombosis and Inflammatory Diseases"
- 2009-2011 1R01HL090870 (A.S. Weyrich, PI)
NIH/NHLBI
"Novel Thrombotic and Inflammatory Activities of Platelets in Sepsis"
- 2009-2011 R21 HL091283 (A.S. Weyrich, PI)
NIH/NHLBI
"Reverse Transcriptase Activity in Megakaryocytes and Platelets"
- 2007-2012 R01 HL092746 (A.S. Weyrich, PI)
NIH/NIA & NHLBI
"Novel Thrombotic and Inflammatory Mechanisms of Venous Thromboembolism in the Elderly"
- 2008-2012 R01 HL091754 (A.S. Weyrich, PI)
NIH/NHLBI
"Novel Activities of Platelets in Acute Lung Injury"
- 2009-2012 RC1 HL1000121 (A.S. Weyrich, Co-PI)
"New Pathways in Thrombosis and Inflammation Mediated by Semaphorin-Plexin Signaling"
- 2012-2018 U54 HL112311-05 (A.S. Weyrich, PI)
"Reprogrammed Platelets: Effectors of Thrombosis in Metabolic Syndromes"
- 2014-2019 R01 AG048022 (A.S. Weyrich, Co-Inv)
"Platelet Immune Responses in Aging and Influenza"
- 2014-2019 R01 HL126547 (A.S. Weyrich, Co-PI)
"The Effects of ART on Platelets and HIV-Associated Thrombosis"

Andrew S. Weyrich, PhD

Mentored:

- 2000-2001 American Heart Association Western Affiliate, Post-doctoral Fellowship,
Mentor for Stephan Lindemann
- 2004-2006 Deutsche Forschungsgemeinschaft Award, Post-doctoral Fellowship,
Mentor for Hansjorg Schwertz
- 2006-2008 American Heart Association Western Affiliate, Post-doctoral Fellowship,
Mentor for Hansjorg Schwertz
- 2007-2009 National Heart, Lung, and Blood Institute (K12), Center for
Clinical & Translational Science,
Co-mentor for Matthew Rondina
- 2009-2010 German Cardiac Society, Post-doctoral Fellowship,
Mentor for Bjorn Kraemer
- 2006-2010 Flight Attendant Medical Research Fellowship,
Co-mentor for Mark Martinez
- 2006-2011 National Heart, Lung, and Blood Institute (K08),
Co-mentor for Christian Yost
- 2009-2011 American Heart Association Western Affiliate, Beginning
Grant-in-Aid,
Mentor for Hansjorg Schwertz
- 2011-2012 Primary Children's Medical Center Foundation, Early
Career Development Award, Mentor for Heather Major
- 2011-2013 Deutsche Forschungsgemeinschaft Award, Post-doctoral Fellowship,
Mentor for Sebastian Schubert
- 2011-2013 American Heart Association Western Affiliate, Post-doctoral Fellowship,
Mentor for Robert Campbell
- 2009-2014 National Heart, Lung, and Blood Institute (K23 HL092161),
Co-mentor for Matthew Rondina
- 2012-2018 National Institute of General Medical Sciences (K01),
Mentor for Jesse Rowley
- 2019-2020 National Heart, Lung, and Blood Institute (SRP-2019-01)
PRIDE Mentor for Donald Lynch

X. ORIGINAL PEER-REVIEWED PUBLICATIONS

Manuscripts:

1. Berry MJ, Robergs RA, **Weyrich AS**, Puntteney PJ. Ventilatory responses of trained and untrained subjects during running and walking. *Int J Sports Med* 9:325-329, 1988.
2. Berry MJ, **Weyrich AS**, Robergs RA, Krause KM, Ingalls CP. Ratings of perceived exertion in individuals with varying fitness levels during running and walking. *Eur J Appl Physiol* 58:494-499, 1989.
3. **Weyrich AS**, Messier SP, Ruhmann BS, Berry MJ. The influence of bat composition, grip firmness and impact location on post-impact ball dynamics. *Med Sci Sport Exercise* 21:199-205, 1989.
4. Berry MJ, Puntteney PJ, **Weyrich AS**, Robergs RA. Stride frequency as a determinant of the ventilatory threshold. *J Hum Movement Studies* 19:129-142, 1990.
5. Berry MJ, Stoneman JV, **Weyrich AS**, Burney B. Dissociation of the ventilatory and lactate thresholds following caffeine ingestion. *Med Sci Sport and Exercise* 23:463-469, 1991.
6. Santamore WP, **Weyrich AS**, Iskandrian AS. Coronary artery spasm revisited. *Coronary Artery Disease* 2:259-266, 1991.
7. Solis GA, Kutcher MA, **Weyrich AS**, Santamore WP. Albumin prevents platelet deposition following angioplasty. *J Inv Cardiol* 3:265-271, 1991.
8. Ma XL, **Weyrich AS**, Krantz S, Lefer AM. Mechanisms of the cardioprotective actions of WEB-2170, beapafant, a platelet activating factor antagonist, in myocardial ischemia and reperfusion. *J Pharmacol Exp Therap* 260:1229-1236, 1992.
9. **Weyrich AS**, Ma XL, Lefer AM. The role of L-arginine in ameliorating reperfusion injury after myocardial ischemia in the cat. *Circulation* 86:279-288, 1992.
10. **Weyrich AS**, Rejeski WJ, Brubaker PH, Parks JS. The effects of anabolic steroids on lipids and eicosanoids in cynomolgus monkeys. *Medicine and Science in Sport and Exercise* 24:333-338, 1992.
11. **Weyrich AS**, Solis GA, Li KS, Tulenko TN, Santamore WP. Platelet amplification of vasospasm. *Am J Physiol* 263:H349-H358, 1992.
12. Carey C, Siegfried MR, Ma XL, **Weyrich AS**, Lefer AM. Antishock and endothelial protective actions of an NO donor in mesenteric ischemia and reperfusion. *Circulatory Shock* 38:209-216, 1992.

13. Lefer AM, Ma XL, **Weyrich AS**, Scalia R. Mechanisms of the cardioprotective effect of transforming growth factor- β_1 in feline myocardial ischemia and reperfusion. *Proc Nat'l Acad Sci USA* 90:1018-1022, 1993. PMID: PMC45802.
14. Ma XL, **Weyrich AS**, Lefer DJ, Lefer AM. Diminished basal NO release after myocardial ischemia and reperfusion promotes neutrophil adherence to coronary endothelium. *Circ Res* 72:403-412, 1993.
15. **Weyrich AS**, Ma XY, Lefer DJ, Albertine KH, Lefer AM. In vivo neutralization of P-selectin protects feline heart and endothelium in myocardial ischemia and reperfusion injury. *J Clin Invest* 91:2620-2629, 1993. PMID: PMC443326.
16. Ma XL, **Weyrich AS**, Lefer DJ, Buerke M, Albertine KH, Kishimoto TK, Lefer AM. Monoclonal antibody to L-selectin attenuates neutrophil accumulation and protects ischemic reperfused cat myocardium. *Circulation* 88:649-658, 1993.
17. Buerke M, **Weyrich AS**, Lefer AM. Isolated cardiac myocytes are sensitized by hypoxia-reoxygenation to neutrophil-released mediators. *Am J Physiol* 266:H128-H136, 1994.
18. Lefer AM, **Weyrich AS**, Buerke M. Role of selectins, a new family of adhesion molecules, in ischemia-reperfusion injury. *Cardiovasc Res* 28:289-294, 1994.
19. Buerke M, **Weyrich AS**, Zheng Z, Gaeta FC, Forrest MJ, Lefer AM. Sialyl Lewis^x-containing oligosaccharide attenuates myocardial reperfusion in cats. *J Clin Invest* 93:1140-1148, 1994. PMID: PMC294061.
20. Albertine KH, **Weyrich AS**, Ma, XL, Lefer DJ, Becker LC, Lefer AM. Quantification of neutrophil migration following myocardial ischemia and reperfusion in cats and dogs. *J Leuk Biol* 55:557-566, 1994.
21. Buerke M, **Weyrich AS**, Murohara T, Queen C, Klingbeil CK, Co MS, Lefer AM. Humanized mAb DREG-200 directed against I-selectin protects in feline myocardial reperfusion injury. *J Pharm ExpTherap* 271:134-142, 1994.
22. **Weyrich AS**, Ma XL, Buerke M, Murohara T, Armstead VE, Lefer AM, Nicolas JM, Thomas AP, Lefer DJ, Vinten-Johansen J. Physiologic concentrations of nitric oxide do not elicit an acute negative inotropic effect in unstimulated cardiac muscle. *Circ Res* 75:692-700, 1994.
23. **Weyrich AS**, Buerke M, Albertine KA, Lefer AM. Time course of coronary vascular endothelial adhesion molecule expression during reperfusion of ischemic feline myocardium. *Journal of Leukocyte Biology* 57:45-55, 1995.

24. **Weyrich AS**, McIntyre TM, McEver RP, Prescott SM, Zimmerman GA. Monocyte tethering by P-selectin regulates monocyte chemotactic protein-1 and tumor necrosis factor- α secretion: signal integration and NF- κ B translocation. *J Clin Invest* 95:2297-2303, 1995. PMID: PMC295843.
25. **Weyrich AS**, Elstad MR, McEver RP, McIntyre TM, Moore KL, Morrissey JH, Prescott SM, Zimmerman GA. Activated platelets signal chemokine synthesis by human monocytes. *J Clin Invest* 97:1525-1534, 1996. PMID: PMC507213.
26. Lehr HA, **Weyrich AS**, Saetzler RK, Jurek A, Arfors KE, Zimmerman GA, Prescott SM, McIntyre TM. Vitamin C blocks inflammatory platelet-activating factor mimetics created by cigarette smoking. *J Clin Invest* 99:2358-2364, 1997. PMID: PMC508074.
27. Modur V, Feldhaus MJ, **Weyrich AS**, Jicha DL, Prescott SM, Zimmerman GA, McIntyre TM. Oncostatin M is a proinflammatory mediator: In vivo effects correlate with endothelial cell expression of inflammatory cytokines and adhesion molecules. *J Clin Invest* 100:158-168, 1997. PMID: PMC508176.
28. Hidari KI, **Weyrich AS**, Zimmerman GA, McEver RP. Engagement of PSGL-1 enhances tyrosine phosphorylation and activates MAP kinases in human neutrophils. *J Biol Chem* 272:28750-28756, 1997.
29. **Weyrich AS**, Dixon DA, Pabla R, Elstad MR, McIntyre TM, Prescott SM, Zimmerman GA. Signal-dependent translation of a regulatory protein, Bcl-3, in activated human platelets. *PNAS* 95:5556-5561, 1998. PMID: PMC20416.
30. Kessel JM, Hayflick J, **Weyrich AS**, Hoffman PA, Gallatin M, McIntyre TM, Prescott SM, Zimmerman GA. Coengagement of ICAM-3 and Fc receptors induces chemokine secretion and spreading by myeloid leukocytes. *J Immunol* 160:5579-5587, 1998.
31. Pabla R, **Weyrich AS**, Dixon DA, Bray PF, McIntyre TM, Prescott SM, Zimmerman GA. Integrin-dependent control of translation: Engagement of integrin $\alpha_{IIb}\beta_3$ regulates synthesis of proteins in activated human platelets. *J Cell Biol* 144:175-184, 1999. PMID: PMC2148114.
32. Kraiss LW, **Weyrich AS**, Alto NM, Dixon DA, Ennis TM, Modur V, McIntyre TM, Prescott SM, Zimmerman GA. Fluid flow activates a regulator of translation p70/p85 S6 kinase, in human endothelial cells. *American Journal of Physiology* 278:H1537-H1544, 2000.
33. Mahoney TS, **Weyrich AS**, Dixon DA, McIntyre TM, Prescott SM, Zimmerman GA. Cell adhesion regulates gene expression at translational checkpoints: tethering of human monocytes to P-selectin signals translation of urokinase plasminogen activator receptor (uPAR). *PNAS* 98: 10284-10289, 2001. PMID: PMC56953.

Andrew S. Weyrich, PhD

34. Lindemann S, Tolley ND, Eyre JR, Kraiss LW, Mahoney TM, **Weyrich AS**. Integrins regulate the intracellular distribution of eIF4E in platelets: a checkpoint for translational control. *J Biol Chem* 276:33947-33951, 2001. PMID: 11431478.
35. Lindemann S, Tolley ND, Dixon DA, McIntyre TM, Prescott SM, Zimmerman GA, **Weyrich AS**. Activated Platelets Mediate Inflammatory Signaling by Regulated Interleukin-1 β Synthesis. *J Cell Biol* 154: 485-490, 2001. PMCID: PMC2196422.
36. Galt SW, Lindemann S, Medd D, Allen LL, Kraiss LW, Harris ES, Prescott SM, McIntyre TM, **Weyrich AS**, Zimmerman GA. Differential regulation of matrix metalloproteinase-9 by monocytes adherent to collagen and platelets. *Circ Res* 89:509-516, 2001.
37. Feldhaus MJ, **Weyrich AS**, Zimmerman GA, McIntyre TM. Ceramide generation in situ alters leukocyte cytoskeletal organization and beta 2-integrin function and causes complete degranulation. *J Biol Chem* 277(6):4285-4293, 2002.
38. Galt SW, Lindemann S, Allen L, Medd DJ, Falk JM, McIntyre TM, Prescott SM, Kraiss LW, Zimmerman GA, **Weyrich AS**. Outside-in signals delivered by MMP-1 regulate platelet function. *Circ Res* 90:1093-99, 2002.
39. Kraiss LW, Alto NM, Dixon DA, McIntyre TM, **Weyrich AS**, Zimmerman GA. Fluid flow regulates E-selectin protein levels in human endothelial cells by inhibiting translation. *J Vasc Surg* 37:161-8, 2003.
40. Watanabe J, Marathe GK, Neilsen PO, **Weyrich AS**, Harrison KA, Murphy RC, Zimmerman GA, McIntyre TM. Endotoxins stimulate neutrophil adhesion followed by synthesis and release of PAF in microparticles. *J Biol Chem* 278:33161-68, 2003.
41. Lindemann SW, Yost CC, Denis MM, McIntyre TM, **Weyrich AS**, Zimmerman GA. Neutrophils alter the inflammatory milieu by signal-dependent translation of constitutive messenger RNAs. *Proc Natl Acad Sci USA* 101:7076-81, 2004. PMCID: PMC406468.
42. Yost CC, Denis MM, Lindemann S, Rubner FJ, Marathe GK, Buerke M, McIntyre TM, **Weyrich AS**, Zimmerman GA. Activated polymorphonuclear leukocytes rapidly synthesize retinoic acid receptor- α : a mechanism for translational control of transcriptional events. *J Exp Med* 200:671-80, 2004. PMCID: PMC2212748.
43. Jiang H, **Weyrich AS**, Zimmerman GA, McIntyre TM. Endothelial cell confluence regulates cyclooxygenase-2 and prostaglandin E2 production that modulate motility. *J Biol Chem* 279:55905-55913, 2004.
44. **Weyrich AS**, Denis MM, Kuhlmann-Eyre JR, Spencer ED, Dixon DA, Marathe GK, McIntyre TM, Zimmerman GA, Prescott SM. Dipyridamole selectively inhibits inflammatory gene expression in platelet-monocyte aggregates. *Circulation* 111:633-42, 2005.

45. Denis MM, Tolley ND, Bunting M, Schwertz H, Jiang H, Lindemann S, Yost CC, Rubner FJ, Albertine KH, Swoboda KJ, Fratto CM, Tolley E, Kraiss LW, McIntyre TM, Zimmerman GA, **Weyrich AS**. Escaping the nuclear confines: signal-dependent pre-mRNA splicing in anucleate platelets. *Cell* 122:379-391, 2005.
46. Dixon DA, Tolley ND, Bemis-Standoli K, Martinez ML, **Weyrich AS**, Morrow JD, Prescott SM, Zimmerman GA. Expression of cyclooxygenase-2 (COX-2) in platelet-monocyte interactions occurs via combinational regulation involving adhesion and cytokine signaling. *J Clin Invest* 116:2727-2738, 2006. PMID: PMC1570372.
47. Zimmerman ES, Sherman MP, Blackett JL, Neidleman JA, Kreis C, Mundt P, Williams SA, Warmerdam M, Kahn J, Hecht FM, Grant RM, de Noronha CM, **Weyrich AS**, Greene WC, Planelles V. HIV-1 Vpr induces DNA replication stress *in vitro* and *in vivo*. *J Virol* 80(21):10407-10418, 2006. PMID: PMC1641771.
48. Schwertz H, Tolley ND, Foulks JM, Denis MM, Risenmay BW, Buerke M, Tilley RE, Rondina MT, Harris EM, Kraiss LW, Mackman N, Zimmerman GA, **Weyrich AS**. Signal-dependent splicing of tissue factor pre-mRNA modulates the thrombogenicity of human platelets. *J Exp Med* 203:2433-2440, 2006. PMID: PMC2118136.
49. Buerke M, Guckenbiehl M, Schwertz H, Buerke U, Hilker M, Platsch H, Richert J, Bomm S, Zimmerman GA, Lindemann S, Mueller-Warden U, Werdan K, Darius H, **Weyrich AS**. Intramural delivery of Sirolimus prevents vascular remodeling following balloon injury. *Biochem Biophys Acta* 1774(1):5-15, 2007. PMID: PMC2275912.
50. **Weyrich AS**, Denis MM, Schwertz H, Tolley ND, Foulks J, Spencer E, Kraiss LW, Albertine KH, McIntyre TM, Zimmerman GA. mTOR-dependent synthesis of Bcl-3 controls the retraction of fibrin clots by activated human platelets. *Blood* 109:1975-1983, 2007. PMID: PMC1801071.
51. Chen J, Yang L, Foulks JM, **Weyrich AS**, Marathe GK, McIntyre TM. Intracellular PAF catabolism by PAF acetylhydrolase counteracts continual PAF synthesis. *J Lipid Res* 48(11):2365-76, 2007.
52. Brant-Zawadzki PB, Schmid DI, Jiang H, **Weyrich AS**, Zimmerman GA, Kraiss LW. Translational control in endothelial cells. *J Vasc Surg* 45 Suppl A:A8-14, 2007. PMID: PMC1939822.
53. Miyazaki Y, Bunting M, Stafforini DM, Harris ES, McIntyre TM, Prescott SM, Frutuoso VS, Amendoeira FC, de Oliveira Nascimento D, Vieira-de-Abreu A, **Weyrich AS**, Castro-Faria-Neto HC, Zimmerman GA. Integrin $\alpha_D\beta_2$ is dynamically expressed by inflamed macrophages and alters the natural history of lethal systemic infections. *J Immunol* 180(1):590-600, 2008. PMID: PMC2275910.

54. Foulks JM, **Weyrich AS**, Zimmerman GA, McIntyre TM. A yeast PAF acetylhydrolase ortholog suppresses oxidative death. *Free Radic Biol Med* 45:434-442, 2008. PMCID: PMC2603548.
55. Yost CC, Cody MJ, Harris ES, Thornton NL, McInturff AM, Martinez ML, Chandler NB, Rodesch CK, Albertine KH, Petti CA, **Weyrich AS**, Zimmerman GA. Impaired neutrophil extracellular trap (NET) formation: A novel innate immune deficiency of human neonates. *Blood* 113:6419-27, 2009. PMCID: PMC2710935.
56. Foulks JM, Marathe GK, Michetti N, Stafforini DM, Zimmerman GA, McIntyre TM, **Weyrich AS**. PAF-acetylhydrolase expressed during megakaryocyte differentiation inactivates PAF-like lipids. *Blood* 113:6699-706, 2009. PMCID: PMC2710923.
57. Schwertz H, Köster S, Kahr WH, Michetti N, Kraemer BF, Weitz DA, Blaylock RC, Kraiss LW, Greinacher A, Zimmerman GA, and **Weyrich AS**. Anucleate platelets generate progeny. *Blood* 115:3801-9, 2010. PMCID: PMC2865870.
58. Pawlinski R, Wang JG, Owens AP 3rd, Williams J, Antoniak S, Tencati M, Luther T, Rowley JW, Low EN, **Weyrich AS**, Mackman N. Hematopoietic and nonhematopoietic cell tissue factor activates the coagulation cascade in endotoxemic mice. *Blood* 116(5):806-814, 2010. PMCID: PMC2918334.
59. Schubert S, Schwertz H, **Weyrich AS**, Franks ZG, Lindemann S, Otto M, Behr H, Loppnow H, Schlitt A, Russ M, Presek P, Werdan K, Buerke M. *Staphylococcus aureus* α -toxin triggers the synthesis of B-cell lymphoma 3 by human platelets. *Toxins* 3:120-133, 2011. PMCID: PMC3202813.
60. Rondina MT, Schwertz H, Harris ES, Kraemer BF, Campbell RA, Mackman N, Grissom CK, **Weyrich AS**, Zimmerman GA. The septic milieu triggers expression of spliced tissue factor mRNA in human platelets. *J Thromb Haemost* 9:748-758, 2011. PMCID: PMC3071458.
61. Rowley JW, Oler A, Tolley ND, Hunter B, Low EN, Nix DA, Yost CC, Zimmerman GA, **Weyrich AS**. Genome wide RNA-seq analysis of human and mouse platelet transcriptomes. *Blood*, 118(14):e101-11, 2011. PMCID: PMC3193274.
62. Cecchetti L, Tolley ND, Michetti N, Bury L, **Weyrich AS**, Gesele P. Megakaryocytes differentially sort mRNAs for matrix metalloproteinases and their inhibitors into platelets: a mechanism for regulating synthetic events. *Blood*, 118(7): 1903-11, 2011. PMCID: PMC3158719.

63. Kahr WHA, Hinckley J, Li L, Schwertz H, Christensen H, Rowley JW, Pluthero FG, Urban D, Fabbro S, Nixon B, Gadzinski R, Storck M, Wang K, Ryu G-Y, Jobe SM, Schutte BC, Moseley J, Loughran NB, Parkinson J, **Weyrich AS**, Di Paola J. Mutations in *NBEAL2*, encoding a BEACH protein, cause gray platelet syndrome. *Nature Genetics*, 43(8):738-40, 2011. NIHMSID: 595414.
64. Kraemer BF, Campbell RA, Schwertz H, Cody MJ, Franks Z, Tolley ND, Kahr WHA, Lindemann S, Seizer P, Yost CC, Zimmerman GA, **Weyrich AS**. Novel anti-bacterial activities of β -defensin 1 in human platelets: Suppression of pathogen growth and signaling of neutrophil extracellular traps. *PLoS Pathogens*, 7(11):e1002355, 2011. PMID: PMC3213094.
65. Bosque A, Famiglietti M, **Weyrich AS**, Goulston C, Planelles V. Homeostatic proliferation fails to efficiently reactivate HIV-1 latently infected central memory CD4+ T cells. *PLoS Pathog*, 7(10):e1002288, 2011. PMID: PMC3188522.
66. Harris ES, Smith TL, Springett GM, **Weyrich AS**, Zimmerman GA. Leukocyte adhesion deficiency-I variant syndrome (LAD-Iv, LAD-III): Molecular characterization of the defect in an index family. *Am J Hematol*, 87(3):311-3, 2011. PMID: PMC3564639.
67. Jiang H, Schwertz H, Schmid DI, Jones BB, Kriesel J, Martinez ML, **Weyrich AS**, Zimmerman GA, Kraiss LW. Different mechanisms preserve translation of programmed cell death 8 and JunB in virus-infected endothelial cells. *Arterioscler Throm Vasc Biol*, 32(4):997-1004, 2012. PMID: PMC3310396.
68. Rondina MT, Grissom CK, Men S, Harris ES, Schwertz H, Zimmerman GA, **Weyrich AS**. Whole blood flow cytometry measurements of in vivo platelet activation in critically-ill patients are influenced by variability in blood sampling techniques. *Thromb Res*, 129(6):729-35, 2012. PMID: PMC3323728.
69. Rondina MT, Brewster B, Grissom CK, Zimmerman GA, Kastendieck DH, Harris ES, **Weyrich AS**. In Vivo Platelet Activation in Critically-Ill Patients with Primary H1N1 Influenza. *Chest*, 141(6):1490-95, 2012. PMID: PMC3367488.
70. Jones CF, Campbell RA, Franks Z, Gibson CC, Thiagarajan G, Vieira-de-Abreu A, Sukavaneshvar S, Mohammad SF, Li DY, Ghandehari H, **Weyrich AS**, Brooks BD, Grainger DW. Cationic PAMAM dendrimers disrupt key platelet functions. *Mol Pharm*, 9(6):1599-611, 2012. PMID: PMC3532938.
71. Thon JN, Peters CG, Machlus KR, Aslam R, Rowley J, Macleod H, Devine MT, Fuchs TA, **Weyrich AS**, Semple JW, Flaumenhaft R, Italiano JE Jr. T granules in human platelets function in TLR9 organization and signaling. *J Cell Biol* 198(4):561-74, 2012. PMID: PMC3514030.

72. Jones CF, Campbell RA, Brooks AE, Assemi S, Tadjiki S, Thiagarajan G, Mulcock C, **Weyrich AS**, Brooks BD, Ghandehari H, Grainger DW. Cationic PAMAM dendrimers aggressively initiate blood clot formation. *ACS Nano*, 6(11):9900-10, 2012. PMID: PMC3532938.
73. Kraemer BF, Campbell RA, Schwertz H, Franks ZG, Vieira de Abreu A, Grundler K, Kile BT, Dhakal BK, Rondina MT, Kahr WH, Mulvey MA, Blaylock RC, Zimmerman GA, **Weyrich AS**. Bacteria differentially induce degradation of Bcl-xL, a survival protein, by human platelets. *Blood* 120(25):5014-20, 2012. PMID: PMC3525025.
74. Franks Z, Campbell RA, Vieira de Abreu A, Holloway JT, Marvin JE, Kraemer BF, Zimmerman GA, **Weyrich AS**, Rondina MT. Methicillin-resistant Staphylococcus aureus-induced thrombo-inflammatory response is reduced with timely antibiotic administration. *Thromb Haemost* 109(4):684-95, 2013. PMID: PMC3668560.
75. Schmid DI, Schwertz H, Jiang H, Campbell RA, **Weyrich AS**, McIntyre TM, Zimmerman GA, Kraiss LW. Translational control of JunB, an AP-1 transcription factor, in activated human endothelial cells. *J Cell Biochem* 114(7):1519-28, 2013. PMID: PMC3999827.
76. Kahr WH, Lo RW, Li L, Pluthero FG, Christensen H, Ni R, Vaezzadeh N, Hawkins CE, **Weyrich AS**, Di Paola J, Landolt-Marticorena C, Gross PL. Abnormal megakaryocyte development and platelet function in Nbeal2^{-/-} mice. *Blood* 122(19): 3349-58, 2013. PMID: PMC3953091.
77. Holly SP, Chang JW, Li W, Niessen S, Phillips RM, Piatt R, Black JL, Smith MC, Boulaftali Y, **Weyrich AS**, Bergmeier W, Cravatt BF, Parise LV. Chemoproteomic discovery of AADACL1 as a regulator of human platelet activation. *Chem Biol* 20(9): 1125-34, 2013. PMID: PMC3948353.
78. Hottz ED, Lopes JF, Freitas C, Valls-de-Souza R, Oliveira MF, Bozza MT, Da Poian AT, **Weyrich AS**, Zimmerman GA, Bozza FA, Bozza PT. Platelets mediate increased endothelium permeability in dengue through NLRP3-inflammasome activation. *Blood* 122(20): 3405-14, 2013. PMID: PMC3829114.
79. Chen K, Coonrod EM, Kumanovics A, Franks ZF, Durtschi JD, Margraf RL, Wu W, Heikal NM, Augustine NH, Ridge PG, Hill HR, Jorde LB, **Weyrich AS**, Zimmerman GA, Gundlapalli AV, Bohnsack JF, Voelkerding KV. Germline mutations in NFKB2 implicate the noncanonical NF- κ B pathway in the pathogenesis of common variable immunodeficiency. *Am J Hum Genet* 93(5): 812-24, 2013. PMID: PMC3824125.
80. Hottz ED, Oliveira MF, Nunes PC, Nogueira RM, Valls-de-Souza R, Da Poian AT, **Weyrich AS**, Zimmerman GA, Bozza PT, Bozza FA. Dengue induces platelet activation, mitochondrial dysfunction and cell death through mechanisms that involve DC-SIGN and caspases. *J Thromb Haemost* 11(5): 951-62, 2013. PMID: PMC3971842.

81. Major HD, Campbell RA, Silver RM, Branch DW, **Weyrich AS**. Synthesis of sFlt-1 by platelet-monocyte aggregates contributes to the pathogenesis of preeclampsia. *Am J Obstet Gynecol* pii: S0002-9378(14)00037-4, 2014. PMID: PMC4041388.
82. Hottz ED, Medeiros-de-Moraes IM, Vieira-de-Abreu A, de Assis EF, Vals-de-Souza R, Castro-Faria-Neto HC, **Weyrich AS**, Zimmerman GA, Bozza FA, Bozza PT. Platelet activation and apoptosis modulate monocyte inflammatory responses in dengue. *J Immunol* 193(4):1864-72, 2014. PMID: PMC4137323.
83. Madden JL, Drakos SG, Stehlik J, McKeller SH, Rondina MT, **Weyrich AS**, Selzman CH. Baseline red blood cell osmotic fragility does not predict the degree of post-LVAD hemolysis. *ASAIO J* 60(5):524-8, 2014. PMID: PMC4240532.
84. Shi DS, Smith MC, Campbell RA, Zimmerman PW, Franks ZB, Kraemer BF, Machlus KR, Ling J, Kamba P, Schwertz H, Rowley JW, Miles RR, Liu ZJ, Sola-Visner M, Italiano JE Jr, Christensen H, Kahr WH, Li DY, **Weyrich AS**. Proteasome function is required for platelet production. *J Clin Invest* 124(9):3757-66, 2014. PMID: PMC4151230.
85. Miyazaki Y, Vieira-de-Abreu A, Harris ES, Shah AM, **Weyrich AS**, Castro-Faria-Neto HC, Zimmerman GA. Integrin $\alpha_D\beta_2$ (CD11d/CD18) is Expressed by Human Circulating and Tissue Myeloid Leukocytes and Mediates Inflammatory Signaling. *PLoS One* 9(11):e112770, 2014. PMID: PMC4240710.
86. Rondina MT, Carlisle M, Fraughton T, Brown SM, Miller RR 3rd, Harris ES, **Weyrich AS**, Zimmerman GA, Supiano MA, Grissom CK. Platelet-monocyte aggregate formation and mortality risk in older patients with severe sepsis and septic shock. *J Gerontol A Biol Sci Med Sci* 70(2): 225-31, 2015. PMID:24917177.
87. Stefanini L, Paul DS, Robledo RF, Chan ER, Getz TM, Campbell RA, Kechele DO, Casari C, Piatt R, Caron KM, Mackman N, **Weyrich AS**, Parrott MC, Boulaftali Y, Adams MD, Peters LL, Bergmeier W. RASA 3 is a critical inhibitor of RAP1-dependent platelet activation. *J Clin Invest*. 125(4):1419-1432, 2015. PMID: PMC4396462.
88. Noetzli L, Lo RW, Lee-Sherick AB, Callaghan M, Noris P, Savoia A, Rajpurkar M, Jones K, Gowan K, Balduini CL, Pecci A, Gnan C, De Rocco D, Doubek M, Li L, Lu L, Leung R, Landolt-Marticorena C, Hunger S, Heller P, Gutierrez-Hartmann A, Xiayuan L, Pluthero FG, Rowley JW, **Weyrich AS**, Kahr WH, Porter CC, Di Paola J. Germline mutations in ETV6 are associated with thrombocytopenia, red cell macrocytosis and predisposition to lymphoblastic leukemia. *Nat Genet* 47(5):535-538, 2015. PMID: PMC4631613.
89. Kaplan D, Casper TC, Elliott CG, Men S, Pendleton RC, Kraiss LW, **Weyrich AS**, Grissom CK, Zimmerman GA, Rondina MT. VTE incident and risk factors in patients with severe sepsis and septic shock. *Chest*, 148(5):1224-30, 2015. PMID: PMC4631038.

90. Staddon JH, Smock KJ, Schiffman JD, Fluchel MN, Engel ME, **Weyrich AS**, Campbell RA. Pegasparaginase treatment alters thrombin generation by modulating the protein C and S system in acute lymphoblastic leukaemia/lymphoma. *Blood, Coagul Fibrinolysis* 26(7):840-3, 2015. PMID: 26196196.
91. Araújo CV, Campbell C, Gonçalves-de-Albuquerque CF, Molinaro R, Cody MJ, Yost CC, Bozza PT, Zimmerman GA, **Weyrich AS**, Castro-Faria-Neto HC, Silva AR. A Ppar γ Agonist Enhances Bacterial Clearance Through Neutrophil Extracellular Trap Formation and Improves Survival in Sepsis. *Shock*, 45(4):393-403, 2016. PMID: PMC4792770.
92. Machlus KR, Wu SK, Stumpo DJ, Soussou TS, Paul DS, Campbell RA, Kalwa H, Michel T, Bergmeier W, **Weyrich AS**, Blackshear PJ, Hartwig JH, Italiano JE Jr. Synthesis and dephosphorylation of MARCKS in the late stages of megakaryocyte maturation drive proplatelet formation. *Blood*, 127(11):1468-80, 2016. PMID: PMC4797023.
93. Rowley JW, Chappaz S, Corduan A, Chong MMW, Campbell RA, Khoury A, Manne BK, Wurtzel JGT, Michael JV, Goldfinger LE, Mumaw MM, Nieman MT, Kile BT, Provost P, **Weyrich AS**. Dicer1 mediated miRNA processing shapes the mRNA profile and function of murine platelets. *Blood*, 127(14):1743-51, 2016. PMID: PMC4825412.
94. Rondina MT, Freitag M, Pluthero FG, Kahr WHA, Rowley JW, Kraiss LW, Franks Z, Zimmerman GA, **Weyrich AS**, Schwertz H. Non-genomic activities of retinoic acid receptor alpha control actin cytoskeletal events in human platelets. *J Thromb Haemost*, 14(5):1082-94, 2016. PMID 26848712.
95. Shih L, Kaplan D, Kraiss LW, Casper TC, Pendleton RC, Peters CL, Supiano MA, Zimmerman GA, **Weyrich AS**, Rondina MT. Platelet-Monocyte Aggregates and C-Reactive Protein are Associated with VTE in Older Surgical Patients. *Sci Rep*. 6:27478, 2016. PMID 27270163.
96. Yost CC, Schwertz H, Cody MJ, Wallace JA, Campbell RA, Vieira-de-Abreu A, Araujo CV, Schubert S, Harris ES, Rowley JW, Rondina MT, Fulcher JM, Koenig CL, **Weyrich AS**, Zimmerman GA. Neonatal NET-inhibitory factor and related peptides inhibit neutrophil extracellular trap formation. *J Clin Invest*. 126(10):3783-3798, 2016. PMID: 27599294
97. Nance D, Campbell RA, Rowley JW, Downie JM, Jorde LB, Kahr WH, Mereby SA, Tolley ND, Zimmerman GA, **Weyrich AS**, Rondina MT. Combined variants in factor VIII and prostaglandin synthase-1 amplify hemorrhage severity across three generations of descendants. *J Thromb Haemost*. 14(11):2230-2240, 2016. PMID: PMC5501291.

98. Kapur R, Kim M, Aslam R, McVey MJ, Tabuchi A, Luo A, Liu J, Li Y, Shanmugabhavanathan S, Speck ER, Sufferey A, Yousef G, Shang H, Rondina MT, **Weyrich AS**, Porcelijn L, Kuebler WM, Slutsky AS, Semple JW. T regulatory cells and dendritic cells protect against transfusion-related acute lung injury via IL-10. *Blood* 129(18):2557-2569, 2017. PMID: PMC5418638.
99. Michael JV, Wurtzel JGT, Mao GF, Rao AK, Kolpakov MA, Sabri A, Hoffman NE, Fajan S, Tomar D, Madesh M, Nieman MT, Yu J, Edelstein LC, Rowley JW, **Weyrich AS**, Goldfinger LE. Platelet microparticles infiltrating solid tumors transfer miRNAs that suppress tumor growth. *Blood* 130(5):567-580, 2017. PMID: PMC5542851.
100. Fidler TP, Middleton EA, Rowley JW, Boudreau LH, Campbell RA, Souvenir R, Funari T, Tessandier N, Boilard E, **Weyrich AS**, Abel ED. Glucose Transporter 3 Potentiates Degranulation and is Required for Platelet Activation. *Arterioscler Thromb Vasc Biol.* 37(9):1628-1639, 2017. PMID: PMC5570649.
101. Fidler TP, Rowley JW, Araujo C, Boudreau LH, Marti A, Souvenir R, Dale K, Boilard E, **Weyrich AS**, Abel ED. Superoxide Dismutase 2 is Dispensable for Platelet Function. *Thromb Haemost.* 117(10):1859-1867, 2017. PMID 28771279.
102. Campbell RA, Vieira-de-Abreu A, Rowley JW, Franks ZG, Manne BK, Rondina MT, Kraiss LW, Majersik JJ, Zimmerman GA, **Weyrich AS**. Clots are Potent Triggers of Inflammatory Cell Gene Expression: Indications for Timely Fibrinolysis. *Arterioscler Thromb Vasc Biol.* 37(10):1819-1827, 2017. PMID: 28775073.
103. Fidler TP, Campbell RA, Funari T, Denne N, Balderas AE, Middleton EA, Chaudhuri D, **Weyrich AS**, Abel ED. Deletion of GLUT1 and GLUT3 Reveals Multiple roles for Glucose Metabolism in Platelet and Megakaryocyte Function. *Cell Rep.* 20(4):881-894, 2017. PMID: 28746873.
104. Paul DS, Casari C, Wu C, Piatt R, Pasala S, Campbell RA, Poe KO, Ghalloussi D, Lee RH, Rotty JD, Cooley BC, Machlus KR, Italiano JE Jr, **Weyrich AS**, Bear JE, Bergmeier W. Deletion of the Arp2/3 complex in megakaryocytes leads to microthrombocytopenia in mice. *Blood Adv.* 1(18):1398-1408, 2017. PMID: 29104956.
105. Schwertz H, Rowley JW, Zimmerman GA, **Weyrich AS**, Rondina MT. Retinoic acid receptor- α regulates synthetic events in human platelets. *J Thromb Haemost.* 15(12):2408-2418, 2017. PMID: 28981191.
106. Schwertz H, Rowley JW, Shumann GG, Thorack U, Campbell RA, Manne BK, Zimmerman GA, **Weyrich AS**, Rondina MT. Endogenous LINE-1 (Long Interspersed Nuclear Element-1) reverse transcriptase activity in platelets controls translational events through RNA-DNA Hybrids. *Arterioscler Thromb Vasc Biol.* 38(4):801-815, 2018. PMID: 29301786.

107. Campbell RA, Franks Z, Bhatnagar A, Rowley JW, Manne BK, Supiano MA, Schwertz H, **Weyrich AS**, Rondina MT. Granzyme A in human platelets regulates the synthesis of proinflammatory cytokines by monocytes in aging. *J Immunol.* 200(1):2408-2418, 2018. PMID: 29167233.
108. Manne BK, Munzer P, Badolia R, Allgaier BW, Campbell RA, Middleton E, **Weyrich AS**, Kunapuli SP, Borst O, Rondina MT. PDK1 governs thromboxane generation and thrombosis in platelets by regulating activation of Raf1 in the MAPK pathway. *J Thromb Haemost.* 16(6):1211-1225, 2018. PMID: 29575487.
109. Mesquita EC, Hottz ED, Amancia RT, Carneiro AB, Palhinha L, Coelho LE, Grinsztejn B, Zimmerman GA, Rondina MT, **Weyrich AS**, Bozza PT, Bozza FA. Persistent platelet activation and apoptosis in virologically suppressed HIV-infected individuals. *Sci Rep* 8(1):14999, 2018. PMID: 30301959.
110. Denis HL, Lamontagne-Proulx J, St-Amour I, Mason SL, Rowley JW, Cloutier N, Tremblay ME, Vincent AT, Goul PV, Chouinard S, **Weyrich AS**, Rondina MT, Barker RA, Boilard E, Cicchetti F. Platelet abnormalities in Huntington's disease. *J Neurol Neurosurg Psychiatry* 90(3):272-283, 2019. PMID:30567722.
111. Basak I, Bhatlekar S, Manne BK, Stoller M, Hugo S, Kong X, Ma L, Rondina MT, **Weyrich AS**, Edelstein LC, Bray PF. miR-15a-5p regulates expression of multiple proteins in the megakaryocyte GPVI signaling pathway. *J Thromb Haemost* 17(3):511-524, 2019. MPID:30632265.
112. Campbell RA, Schwertz H, Hottz ED, Rowley JW, Manne BK, Washington AV, Hunter-Mellado R, Tolley ND, Christensen M, Eustes AS, Montenont E, Bhatlekar S, Ventrone CH, Kirkpatrick BD, Pierce KK, Whitehead SS, Diehl SA, Bray PF, Zimmerman GA, Kosaka Y, Bozza PT, Bozza FA, **Weyrich AS**, Rondina MT. Human megakaryocytes possess intrinsic antiviral immunity through regulated induction of IFITM3. *Blood* 133(19):2013-2026, 2019. PMID:30723081.
113. Fidler TP, Marti A, Gerth K, Middleton EA, Campbell RA, Rondina MT, **Weyrich AS**, Abel ED. Glucose metabolism is required for platelet hyperactivation in a murine model of Type 1 diabetes. *Diabetes* 68(5):932-938, 2019. PMID:30765335.
114. Middleton EA, Rowley JW, Campbell RA, Grissom CK, Brown SM, Beesley SJ, Schwertz H, Kosaka Y, Manne BK, Krauel K, Tolley ND, Eustes AS, Guo L, Paine R 3rd, Harris ES, Zimmerman GA, **Weyrich AS**, Rondina MT. Sepsis alters the transcriptional and translational landscape of human and murine platelets. *Blood* 134(12):911-923, 2019. PMID:31366617.

Andrew S. Weyrich, PhD

115. Azevedo-Quintanilha IG, Vieira-de-Abreu A, Ferreira AC, Reis PA, Silva TI, Nascimento DO, Campbell RA, Estado V, **Weyrich AS**, Bozza PT, Zimmerman GA, Castro-Faria-Neto HC. Integrin α Db2 influences cerebral edema, leukocyte accumulation and neurologic outcomes in experimental severe malaria. *PLoS One*. 2019 14(12):e0224610, 2019. PMID: 31869339.
116. Bhatlekar S, Basak I, Edelstein LC, Campbell RA, Lindsey CR, Italiano JE Jr, **Weyrich AS**, Rowley JW, Rondina MT, Sola-Visner M, Bray PF. Anti-apoptotic BCL2L2 increase megakaryocyte proplatelet formation in cultures of human cord blood. *Haematologica* 104(10):2075-2083, 2019. PMID:30733267.
117. Manne BK, Denorme F, Middleton EA, Portier I, Rowley JW, Stubben C, Petrey AC, Tolley ND, Guo L, Cody M, **Weyrich AS**, Yost CC, Rondina MT, Campbell RA. Platelet gene expression and function in patients with COVID-19. *Blood* 2020 Sep 10; 136(11): 1317–1329. PMCID: PMC7483430.
118. Rondina MT, Voora D, Simon LM, Schwertz H, Harper JF, Lee O, Bhatlekar SC, Li Q, Eustes AS, Montenont E, Campbell RA, Tolley ND, Kosaka Y, **Weyrich AS**, Bray PF, Rowley JW. Longitudinal RNA-Seq analysis of the repeatability of gene expression and splicing in human platelets identifies a platelet SELP splice QTL. *Circ Res* 126(4):501-516, 2020. PMID: 31852401.
119. Manne BK, Bhatlekar S, Middleton EA, **Weyrich AS**, Borst O, Rondina MT. Phosphoinositide-dependent kinase 1 regulates signal dependent translation in megakaryocytes and platelets. *J Thromb Haemost* 18(5):1183-1196, 2020. PMID: 31997536.
120. de Azevedo-Quintanilha IG, Medeiros-de-Moraes IM, Ferreira AC, Reis PA, Vieira-de-Abreu A, Campbell RA, **Weyrich AS**, Bozza PT, Zimmerman GA, Castro-Faria-Neto HC. Haem oxygenase protects against thrombocytopaenia and malaria-associated lung injury. *Malar J* 19(1):234, 2020. PMID: 32611348.
121. Middleton EA, He XY, Denorme F, Campbell RA, Ng D, Salvatore SP, Mostyka M, Baxter-Stoltzfus A, Borczuk AC, Loda M, Cody MJ, Manne BK, Portier I, Harris ES, Petrey AC, Beswick EJ, Caulin AF, Iovino A, Abegglen LM, **Weyrich AS**, Rondina MT, Egeblad M, Schiffman JD, Yost CC. Neutrophil extracellular traps contribute to immunothrombosis in COVID-19 acute respiratory distress syndrome. *Blood* 136(10):1169-1179, 2020. PMID: 32597954.
122. Bhatlekar S, Manne BK, Basak I, Edelstein LC, Tugolukova E, Stoller ML, Cody MJ, Morley SC, Nagalla S, **Weyrich AS**, Rowley JW, O'Connell RM, Rondina MT, Campbell RA, Bray PF. miR-125a-5p regulates megakaryocyte proplatelet formation via the actin bundling protein L-plastin. *Blood* 136(15):1760-1772, 2020. PMID: 32844999.

Andrew S. Weyrich, PhD

123. Sumanth MS, Jacob SP, Abhilasha KV, Manne BK, Basrur V, Lehoux S, Campbell RA, Yost CC, McIntyre TM, Cummings RD, **Weyrich AS**, Rondina MT, Marathe GK. Different glycoforms of alpha-1-acid glycoprotein contribute to its functional alternations in platelets and neutrophils. *J Leukoc Biol* 2020. Online ahead of print. PMID: 33070381.
124. Gomes Granja M, Pires Alves L, Leardini-Tristao M, Saul E, Coelho Bortoni L, Maciel de Moraes F, Camila Ferreira E, Tavares de Moraes BP, Zerboni da Silva V, Ferreira Ribeiro A, Ribeiro Silva A, goncalves-de-Albuquerque CF, Bambini-Junior V, Weyrich AS, Rondina MT, Zimmerman GA, Castro-Faria-Neto HC. Inflammatory, synaptic, motor, and behavioral alterations induced by gestational sepsis on the offspring at different stages of life. *J Neuroinflammation* 2021. Online ahead of print.
125. Eustes AS, Campbell RA, Middleton EA, Tolley ND, Manne BK, Montenont E, Rowley JW, Krauel K, Blair A, Guo L, Kosaka Y, Medeiros-de-Moraes IM, Lacerda M, Hottz ED, Castro Faria Neto HC, Zimmerman GA, **Weyrich AS**, Petry A, Rondina MT. Heparanase expression and activity are increased in platelets during clinical sepsis. *J Thromb Haem* 2021. Online ahead of print.

Book Chapters, Commentaries and Reviews:

1. **Weyrich AS**, Herb RA, Berry MJ. The influence of diet and exercise on lipoproteins. *N C Med J* 23:10-13, 1987.
2. Lefer AM, Ma XL, **Weyrich AS**, Lefer DJ. Endothelial dysfunction and neutrophil adherence as critical events in the development of reperfusion injury. In: *Inflammatory Disease Therapy: Preclinical and Clinical Developments*. Bonney et al, ed. *Agents and Actions Suppl* 41:127-135, 1993.
3. Zimmerman GA, Elstad MR, Lorant DE, McIntyre TM, Prescott SM, Topham MK, **Weyrich AS**, Whatley RE. Platelet-activating factor (PAF): Signaling and adhesion in cell-cell interactions. In: *Platelet-Activating Factor and Related Lipid Mediators 2. Roles in Health and Disease*. Nigam S, Kunkel G, Prescott SM, Vargaftig BB, eds. *Advances in Experimental Medicine and Biology* Vol. 416, pp 297-304, 1997.
4. **Weyrich AS**, Zimmerman GA. Selectins. *Encyclopedia of Molecular Medicine* Vol. 5, pp. 2876-2880, 2002.
5. **Weyrich AS**, Prescott SM, Zimmerman GA. Platelets, Inflammatory Chemokines, and Restenosis: Complex Signaling in the Vascular Play Book. *Circulation* 106(12):1433-5, 2002.

6. Zimmerman GA, Dixon DA, McIntyre TM, Prescott SM, **Weyrich AS**. Molecular Mechanisms of Juxtacrine Cell Signaling in Microvascular Responses and Inflammation. Schmid-Schonbein GW, Granger DN, eds. *Molecular Basis for Microcirculatory Disorders* pp. 203-217, 2003.
7. McIntyre TM, Prescott SM, **Weyrich AS**, Zimmerman GA. Cell-cell interactions: leukocyte-endothelial interactions. *Curr Opin Hematol* 10:150-158, 2003.
8. **Weyrich AS**, Lindemann S, Zimmerman GA. The evolving role of platelets in inflammation. *J Thromb Haemost* 1:1897-905, 2003.
9. **Weyrich AS**, Zimmerman GA. Evaluating the relevance of the platelet transcriptome. *Blood* 102:4, 2003.
10. **Weyrich AS**, Lindemann S, Tolley ND, Kraiss LW, Dixon DA, Mahoney TM, Prescott SP, McIntyre TM, Zimmerman GA. Change in protein phenotype without a nucleus: translational control in platelets. *Seminars in Thrombosis and Hemostasis* 30:491-8, 2004.
11. **Weyrich AS**, Zimmerman GA. Propelling the platelet proteome. *Blood* 103:1979, 2004.
12. **Weyrich AS**, Zimmerman GA. Platelets: signaling cells in the immune continuum. *Trends in Immunology* 25:489-495, 2004.
13. Lindemann SW, **Weyrich AS**, Zimmerman GA. Signaling to translational control pathways: diversity in gene regulation in inflammatory and vascular cells. *Trends Cardiovasc Med* 15:9-17, 2005.
14. Lindemann S, McIntyre TM, Prescott SM, Zimmerman GA, **Weyrich AS**. Expanding the functional repertoire of platelets in thrombosis and inflammation: signal-dependent protein synthesis. Fitzgerald DJ, Quinn MJ, eds. *Platelet Function: Assessment, Diagnosis and Treatment*, series *Contemporary Cardiology* pp. 149-174, 2005.
15. Prescott SM, **Weyrich AS**, Zimmerman GA. Classification of venous thromboembolism (VTE). The Clot is hot: inflammation, myeloid leukocytes, and venous thromboembolism. *J Thromb Haemost* 3:2571-2573, 2005.
16. **Weyrich AS**, Kraiss LW, Prescott SM, Zimmerman GA. New roles for an old drug: inhibition of gene expression by dipyridamole in platelet-leukocyte aggregates. *Trends in Cardiovascular Medicine* 16:75-80, 2006.
17. **Weyrich AS**, Cipollone F, Mezzetti A, Zimmerman GA. Platelets in atherothrombosis: New and evolving roles. *Current Pharmaceutical Design* 13:1685-1691, 2007.
18. **Weyrich AS**, Schwertz H, Mackman N. Platelet tissue factor comes of age. *Blood* 109(12):5069-5070, 2007.

19. Schwertz H, **Weyrich AS**, Zimmerman GA. Interacoes entre plaquetas, leucocitos e endotelium na resposta inflamatoria sistematica e na sepse. (Cellular interactions of platelets, leukocytes and endothelium in systemic inflammatory responses and sepsis) in Sepse: Da Bancada à Beira Do Leto. Caire de Castro Faria Neto H, David CM, eds, Revinter Press, Rio de Janeiro, P. 107-120, 2007.
20. **Weyrich AS**, Kraiss LW, Zimmerman GA. Trading places: mRNA transfer between cells. *Blood* 110(7):2219, 2008.
21. Zimmerman GA, **Weyrich AS**. Signal-dependent protein synthesis by activated platelets: New pathways to altered phenotype and function. *Arterioscler Thromb Vasc Biol* 28:s17-s24, 2008. PMID: PMC2594008.
22. Bozza FA, Shah AM, **Weyrich AS**, Zimmerman GA. Amicus or adversary: platelets in lung biology, acute injury, and inflammation. *Am J Respir Cell Mol Biol* 40:123-134, 2009. PMID: PMC2633137.
23. **Weyrich AS**, Schwertz H, Kraiss LW, Zimmerman GA. Protein synthesis by platelets: historical and new perspectives. *J Thromb Haemost* 7:241-246, 2009. PMID: PMC3027201.
24. **Weyrich AS**, Skalbrin EJ, Kraiss LW. Targeting the inflammatory response in secondary stroke prevention: a role for combining aspirin and extended-release dipyridamole. *Am J Ther* 16:164-170, 2009.
25. **Weyrich AS**, Zimmerman GA. Comparative genomics: fishing nets hemostatic catch. *Blood* 113:4479-80, 2009.
26. Schwertz H, Zimmerman GA, **Weyrich AS**. Fibrinogen selects selectins. *Blood* 114: 234, 2009.
27. Smyth SS, McEver RP, **Weyrich AS**, Morrell CN, Hoffman MR, Arepally GM, French PA, Dauerman HL, Becker RC. Platelet functions beyond haemostasis. *J Thromb Haemost* Nov; 7(11):1759-66, 2009.
28. Rowley JW, **Weyrich AS**, Campbell RA. TGFBIp: more than meets the eye? *Blood* Dec 10; 114(25):5113-4, 2009.
29. Michetti N, **Weyrich AS**, Zimmerman GA. Platelet-leukocyte interactions in inflammation and thrombosis. *US Hematology* 2:24-27, 2009.
30. Yost CC, **Weyrich AS**, Zimmerman GA. The platelet activating factor (PAF) signaling cascade in systemic inflammatory responses. *Biochimie* 92:692-697, 2010. PMID: PMC2878918.
31. Zimmerman GA, **Weyrich AS**. Arsonists in rheumatoid arthritis. *Science* 327:528-529, 2010. PMID: PMC4130562.

Andrew S. Weyrich, PhD

32. Harris ES, Rondina MT, Schwertz H, **Weyrich AS**, Zimmerman GA. Pathogenesis of sepsis and sepsis-induced acute lung injury. AMK Choi, ed. In *Acute Respiratory Distress Syndrome, Second Edition*, Informa Healthcare, New York, pp. 369-419, 2010.
33. Franks ZG, Campbell RA, **Weyrich AS**, Rondina MT. Platelet-leukocyte interactions link inflammatory and thromboembolic events in ischemic stroke. *Ann N Y Acad Sci* 1207:11-17, 2010 (NIHMS281813). PMID: PMC3245960.
34. Schwertz H, **Weyrich AS**. Platelet precursors display bipolar behavior. *J Cell Biol* 191:699-700, 2010. PMID: PMC2983059.
35. Smith TL, **Weyrich AS**. Platelets as central mediators of systemic inflammatory responses. *Thromb Res* 127:391-394, 2011. PMID: PMC3081926
36. Campbell RA, Tolley ND, Schwertz H, **Weyrich AS**. Platelet protein synthesis and translational control. *Current Proteomics* 8:200-207, 2011. (PMID 22130706).
37. Hottz E, Tolley ND, Zimmerman GA, **Weyrich AS**, Bozza FA. Platelets in Dengue Infection. *Drug Discovery Today: Disease Mechanism* 8(1-2):e33-38, 2011.
38. Schwertz H, Rowley JW, Tolley ND, Campbell RA, **Weyrich AS**. Assessing protein synthesis by platelets. *Methods Mol Biol*, 788:141-53, 2012.
39. Vieira-de-Abreu A, Campbell RA, **Weyrich AS**, Zimmerman GA. Platelets: Versatile effector cells in hemostasis, inflammation, and the immune continuum. *Semin Immunopathol*, 34:5-30, 2012.
40. Rowley JW, Schwertz H, **Weyrich AS**. Platelet mRNA: The meaning behind the message. *Curr Opin Hematol*, 19(5): 385-91, 2012. PMID: PMC3670814
41. Rondina MT, **Weyrich AS**. Targeting phosphodiesterases in anti-platelet therapy. *Handb Exp Pharmacol* 210:225-38, 2012. PMID: PMC3682780.
42. Smith MC, Schwertz H, Zimmerman GA, **Weyrich AS**. The Platelet Proteome. AD Michelson, ed. In *Platelets, Third Edition*, Elsevier, London, pp. 103-116, 2013.
43. Kraemer BF, **Weyrich AS**. Polyubiquitinated protein depots in platelets and megakaryocytes from patients with ANKRD26-RT. *Thromb Haemost* 109(2): 180, 2013. PMID: PMC3992827.
44. Rowley JW, **Weyrich AS**. Coordinate expression of transcripts and proteins in platelets. *Blood* 121(26): 5255-56, 2013. PMID: PMC3695368.
45. Vieira-de-Abreu A, Rondina MT, **Weyrich AS**, Zimmerman GA. The Role of Platelets in Disease: Inflammation. AD Michelson, ed. In *Platelets, Third Edition*, Elsevier, London, pp. 733-766, 2013.

Andrew S. Weyrich, PhD

46. Harris ES, **Weyrich AS**, Zimmerman GA. Lessons from rare maladies: leukocyte adhesion deficiency syndromes. *Current Opinion in Hematology*, 20(1):16-25, 2013. PMID: PMC3564641.
47. Chen K, Rondina MT, **Weyrich AS**. A sticky story for signal transducer and activator of transcription 3 in platelets. *Circulation*, 127(4):421-3, 2013. PMID: PMC3682783.
48. **Weyrich AS**, Zimmerman GA. Platelets in lung biology. *Annu Rev Physiol* 75:569-91, 2013. PMID: PMC3670819.
49. Rondina MT, **Weyrich AS**, Zimmerman GA. Platelets as cellular effectors of inflammation in vascular diseases. *Circulation Research* 112(11):1506-19, 2013. PMID: PMC3738064.
50. Rondina MT, **Weyrich AS**, Zimmerman GA. Reply to Schattner. *Circulation Research* 113(9):e93, 2013. PMID: PMC4005355.
51. Kraemer BF, **Weyrich AS**, Lindemann S. Protein degradation system in platelets. *Thromb Haemost* 110(5): 920-4, 2013. PMID: PMC3971729.
52. Schubert S, **Weyrich AS**, Rowley JW. A tour through the transcriptional landscape of platelets. *Blood* 124(4):493-502, 2014. PMID: PMC4110657.
53. **Weyrich AS**. Platelets: more than a sack of glue. *Hematology Am Soc Hematol Educ Program* (1):400-403, 2014. PMID: 25696885.
54. Rondina MT, **Weyrich AS**. Regulation of the genetic code in megakaryocytes and platelets. *J Thromb Haemost Suppl* 1:S26-32, 2015. PMID: PMC4498409.
55. Rondina MT, **Weyrich AS**. Dengue virus pirates human platelets. *Blood* 126(3):286-287, 2015. PMID: PMC4504944.
56. Manne BK, **Weyrich AS**. Deubiquitinases Modulate Rapid Functional Responses in Platelets. *Arterioscler Thromb Vasc Biol* 35(12):2489-90, 2015. PMC: 26607357.
57. Rondina MT, **Weyrich AS**. Arf6 arbitrates fibrinogen endocytosis. *Blood*. 127(11):1383-4, 2016. PMID 26989188.
58. Rowley JW, **Weyrich AS**. Ribosomes in platelets protect the messenger. *Blood*. 129(17):2343-2345, 2017. PMID: 28450575.
59. Rowley JW, **Weyrich AS**, Bray PF. The Platelet Transcriptome in Health and Disease. AD Michelson, ed. In *Platelets, Fourth Edition*, Elsevier, London, pp. 139-153, 2019.