

CURRICULUM VITAE

August 5, 2019

NAME: Harlan F. Weisman, M.D.

CURRENT POSITIONS: Managing Director,
And-One Consulting, LLC

Executive Chairman
3DBio Corp

Board of Directors
ControlRad Systems, Inc.

Board of Directors
Caelum Biosciences

Board of Directors
TFF Pharmaceuticals

Founder
Flame Biosciences

Operating Partner
CRG, LP

Venture Advisor
Israel Biotech Fund

Board of Directors
Center for Discovery and Innovation, Hackensack Meridian Health

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New Hope PA 18938
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EDUCATION:

1971-1975 University of Maryland
College Park, Maryland
B.A. (with High Honors)

1975-1979 University of Maryland School of Medicine
Baltimore, Maryland
M.D., *Cum Laude*

1979-1982 Residency in Internal Medicine
Mount Sinai Hospital
New York, New York

1982-1984 Fellowship in Cardiovascular Disease
Johns Hopkins Hospital
Baltimore, Maryland

PRIOR POSITIONS AND APPOINTMENTS:

2010-2016 Board of Governors
Patient-Centered Outcomes Research Institute (PCORI)

2013 Chairman & CEO
Coronado Biosciences, Inc

2005 – 2012 Chief Science and Technology Officer
Medical Devices & Diagnostics, Johnson & Johnson

2004-2005 Company Group Chairman, Research & Development,
Pharmaceuticals, Johnson & Johnson

2002-2004 President, Johnson & Johnson Pharmaceutical Research and
Development, L.L.C.

2001-2002 Executive Vice President, Research & Development Pharmaceuticals
and President, Research & Development, Centocor

1999-2001 Senior Vice President, Research & Development
Centocor, Inc.

1999-2001 Board of Directors
Neuron Therapeutics, Inc.

1996-1999 Vice President, Clinical Research
Centocor, Inc.

1994-1996 Vice President of Clinical Research
for Cardiology and Immunology
Centocor, Inc.

1993-1994 Senior Director, Cardiology
Centocor, Inc.

1990-1996 ReoPro Project Team Chairperson
Centocor, Inc.

1990-1992 Director, Cardiology
Centocor, Inc.

1985-1990	Assistant Professor of Medicine Johns Hopkins University
1985-1990	Consultant Cardiologist Cardiology Consultation Service Johns Hopkins Hospital
1984-1990	Investigator Peter Belfer Laboratory for Myocardial Research Johns Hopkins Medical Institutions
1984-1990	Laboratory Director Experimental Cardiac Pathology Core Laboratory Cardiology Division Johns Hopkins Medical Institutions
1986-1990	Attending Physician Francis Scott Key Medical Center Baltimore, Maryland
1985-1990	Guest Researcher Gerontology Research Center National Institute on Aging National Institutes of Health
1984-1985	Assistant in Medicine Johns Hopkins University

COMMITTEES:

JOHNSON & JOHNSON (INTERNAL)

Chairman, Worldwide Research & Development Council—2006-2012

Group Operating Committee - Medical Devices & Diagnostics—2005 to 2012

Board of Directors, Johnson & Johnson Development Corporation (JJDC)—2006 to 2012

Chairman, MD&D Research & Development Council

Betalogics (Redscript Ventures) Scientific Advisory Board

Cell Therapy Board—2007 to 2012

Board of Directors Selective Nerve Stimulation (Johnson & Johnson Ventures)—2007 to 2009

Pharmaceuticals Group Operating Committee—2001 to 2005

Chairman, New Product Development Committee (J&J Pharmaceutical)—2001 to 2005

Chairman, Johnson & Johnson Pharmaceutical Research & Development Management Board—2001 to 2005

Johnson & Johnson Pharmaceutical Research & Development Committee—2002 to 2005

Chairman, Centocor Research & Development Management Committee—1999 to 2005

Centocor Executive Committee—1999 to 2002

J&J Pharmaceuticals Integrated Development Committee—2001 to 2005

Council of Research Directors (CORD)—2001 to 2005

Drug Evaluation Executive Committee—2001 to 2005

Drug Commitment Committee (DCC)—1999 to 2000

EXTERNAL to J&J

Johns Hopkins University School of Medicine
Institute for Basic Biomedical Sciences Advisory Council (2003-present)

Memorial Sloan Kettering Cancer Center, Technology Development Fund External Review Committee (2015-present)

BioMotiv Advisory Board (2012 to present)

Teva Pharmaceutical Industries, Ltd.
Therapeutic Advisory Board (October 2016-2017)

Patient-Centered Outcomes Research Institute (PCORI)
Board of Governors (September 2010 to September 2016)

University of Pennsylvania – Center for Bioethics
External Advisory Board (2009-2012)

Board of Directors, Fraunhofer USA (March 2008-2012)

Institute of Medicine Roundtable on Evidence Based Medicine (2006-2010)

Chief Technology Officer Advisory Board, Research

And Technology Executive Council of the Corporate
Executive Board (2007-2012)

MEDICAL LICENSES:

New Jersey, License #25MA07675900
New York, License #143738-1
Maryland, License #D27971
Pennsylvania, License #MD-041616-L
Arizona, License #45580

CERTIFICATION:

National Board of Medical Examiners, July 1, 1980
American Board of Internal Medicine, September 15, 1982
American Board of Internal Medicine
-- Cardiovascular Diseases, November 20, 1985

HONORS & AWARDS:

1972 Phi Eta Sigma (National Freshman Honorary Society)
1973 Pi Mu Epsilon (Mathematics)
1975 Phi Beta Kappa
1975 Phi Kappa Phi
1975 Certificate of Scholarship, Annual Honors Convocation,
University of Maryland, College Park
1976 Dean's Summer Research Fellowship,
University of Maryland School of Medicine
1979 Alpha Omega Alpha
1979 Leonard Hummel Memorial Award for Excellence in
Internal Medicine, University of Maryland School of Medicine
1987-1989 Clinician-Scientist Research Career Development Award
Johns Hopkins Medical Institutions
1989-1990 Samuel J. Katcef Memorial Fellow
American Heart Association, Maryland Affiliate
1991 Who's Who in Health and Medical Services
1991 Who's Who of Rising Young Americans
1992 Who's Who in the East
1997 Who's Who in America
2007 Distinguished Alumnus of the Year for the College of Arts and
Humanities University of Maryland
2012 Recognition Award for Medical Device Innovation, Rutgers
University & the University of Medicine and Dentistry of NJ

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

American College of Cardiology (Fellow)
American College of Chest Physicians (Fellow)
American Heart Association (Fellow)
American College of Physicians

REVIEWS, EDITORIALS, LETTERS AND BOOK CHAPTERS:

1. Weisman HF, Bulkley BH: Pathophysiology of atherosclerotic heart disease. *Cardiology Clinics* 2(4): 555-569, 1984
2. Weisman HF: How to Write and Publish in the Medical Sciences. Edward J. Huth. Philadelphia: ISI Press, 1982 (Book Review). *Technical Communications* 31:30-31, 1984
3. Weisman HF, Healy B: Myocardial infarct expansion, infarct extension, and reinfarction: Pathophysiologic concepts. *Prog Cardiovasc Dis* 30(2):73-110, 1987
4. Levine JH, Spear JF, Kadish AH, Weisman HF, Merillat JC, Moore EN: Cellular electrophysiology of electrical discharges. In: Catheter Ablation of Cardiac Arrhythmias, Melvin M. Scheinman ed. Martinus Nijhoff Publishing, Boston, pp 37-50, 1988
5. Weisman HF, Weisfeldt ML: Toward an understanding of the molecular basis of cardiomyopathies (editorial). *J Am Coll Cardiol* 10:1135-1138, 1987
6. Becker LC, Ambrosio G, Manissi J, Weisman HF: The no-reflow phenomenon: A misnomer? In: Analysis and Simulation of the Cardiac System—Ischemia. Samuel Sideman and Rafael Bayer eds. CRC Press Inc., Boca Raton, p 289, 1989
7. Weisman HF: Pericardial Compressive Syndromes. The Johns Hopkins Medical Grand Rounds 14 (Program 3): 14-15, 1988
8. Weisman HF: The voltage sensitive calcium channel in the heart. *Heart Failure* 3:248-258, 1988
9. Wagner JA, Sax FL, Weisman HF, Porterfield J, McIntosh C, Weisfeldt ML, Snyder SH, Epstein SE: Calcium-antagonist receptors in atrial tissue of patients with hypertrophic cardiomyopathy. Letter to the editor. *N Engl J Med* 321:686-687, 1989
10. Weisman HF: Cholesterol - Why bother? (Invited review) *Preventive Cardiology reports* 3:3-5, 1989
11. Ellis SG, Bates ER, Schaible T, Weisman HF, Pitt B, Topol EJ: Prospects for the use of antagonists to the platelet glycoprotein IIb/IIIa receptor to prevent post-angioplasty restenosis and thrombosis. *J Am Coll Cardiol* 17(6 Suppl B):89B-95B, 1991
12. Collier BS, Scudder LE, Beer J, Gold HK, Folts JD, Cavagnaro J, Jordan R, Wagner C, Iuliucci J, Knight D, Ghrayeb J, Smith C, Weisman HF, Berger H: Monoclonal antibodies to platelet glycoprotein IIb/IIIa as antithrombotic agents. *Annals New York Academy of Sciences* 614:193-213, 1991
13. Zweier JL, Kuppusamy P, Shandelya SML, Thompson-Gorman S, Weisman HF, Fearon DT, Weisfeldt ML: Electron paramagnetic resonance measurements of free radical generation in

- isolated cells and whole tissues. In: Molecular Basis of Oxidative Damage by Leukocytes, CRC Press Inc., Boca Raton, pp 181-201, 1992.
14. Weisman HF: The role of calcium channel abnormalities in syrian hamster cardiomyopathy. *Clin Immunol Immunopathol* 68:170-174, 1993
 15. Manspeaker HP, Weisman HF, Schaible TF: Cardiovascular applications: Current status of immunoscintigraphy in the detection of myocardial necrosis using antimyosin (R11D10) and deep venous thrombosis using antifibrin (T2G1s). *Semin Nucl Med* 23(2):133-147, 1993
 16. Collier BS, Anderson KA, Weisman HF: Inhibitors of platelets aggregation: GPIIb/IIIa antagonists. In: Heart Disease. A textbook of cardiovascular medicine, Update 4, Eugene Braunwald ed. W.B. Sanders Company, Philadelphia, pp 1-10, 1995.
 17. Collier BS, Anderson K, Weisman HF: New antiplatelet agents: Platelet GPIIb/IIIa antagonists. *Thromb Haemost* 74: 302-308, 1995
 18. Weisman HF, Schaible TF, Jordan RE, Cabot CF, Anderson KM: Anti-platelet monoclonal antibodies for the prevention of arterial thrombosis: Experience with ReoPro, a monoclonal antibody directed against the platelet GPIIb/IIIa receptor. *Biochem Soc Trans* 23(4):1051-1057, 1995
 19. Jordan RE, Wagner CL, Mascelli MA, Treacy G, Nedelman MA, Woody JN, Weisman HF, Collier BS: Preclinical development of c7E3 Fab; a mouse/human chimeric monoclonal antibody fragment that inhibits platelet function by blockade of GPIIb/IIIa receptors with observations of the immunogenicity of c7E3 fab in humans. In: Adhesion Receptors as Therapeutic Targets, CRC Press Inc., Boca Raton, pp 281-305, 1996
 20. Weisman HF: Clinical Development of ReoPro. *The Journal of Outcomes Management*: 6-10, 1996
 21. Collier BS, Anderson KM, Weisman HF. The anti-GPIIb-IIIa agents: fundamental and clinical aspects. *Haemostasis* 26 Suppl 4:285-293, 1996
 22. Weisman HF: ReoPro Clinical Development: Future Directions and Therapeutic Approaches. *J Invas Cardiol* 8:51B-61B, 1996.
 23. Weisman HF: Myocardial Reperfusion Injury: The case against shadow boxing (editorial). *Journal of Thrombosis and Thrombolysis*, 4:133-135, 1997
 24. Jordan RE, Mascelli MA, Nakada M, Weisman HF: The pharmacology and clinical development of abciximab (c7E3 Fab): A monoclonal antibody inhibitor of GPIIb/IIIa and $\alpha_v\beta_3$. In: New Therapeutic Agents in Thrombosis and Thrombolysis, Marcel Dekker, Inc., New York, NY, 1997
 25. Simoons M, Weisman HF, Jordan R: Abciximab Chapter, *Therapeutic Drugs 2nd Ed*, ed. Colin Dollery, October 1997

26. Anderson HV, Jordan RE, Weisman, HF: Concept and Clinical Application of Platelet Glycoprotein IIb/IIIa Inhibition with Abciximab (c7E3 Fab; ReoPro) for the Prevention of Acute Ischemic Syndromes. *Clin Appl Thromb Hemost* 3:256-266 1997
27. Weisman HF: ReoPro Clinical Development: A Case Study. In: Rehm/Reed Biotechnology Series, Vol 5, 1998
28. Jakubowski, J., Jordan, R.E., Weisman, H.F. Current Antiplatelet Therapy. In: Handbook of Experimental Pharmacology. Springer-Verlag, New York, 1998
29. Anderson KM, Bala MV, Weisman HF. Economics and cost-effectiveness in evaluating the value of cardiovascular therapies. An industry perspective on health economics studies. *Am Heart J* 137:S129-S132 1999
30. LeClerc J, Mascelli MA, Weisman HF. Platelet glycoprotein IIb/IIIa antagonists in ischemic cerebrovascular disease. *Coronary Artery Disease*, 10:575-579, 1999.
31. Farrell, CF, Barnathan, ES, Weisman HF: The Evolution of ReoPro® Clinical Development. In: Novel Therapeutic Proteins: Selected Case Studies, Wiley-VCH, Weinheim, Germany, pp 323-346, 2001.
32. Weisman, H., Farup, C., Thomas, A., Juhn, P., Buto, K.: Broader Post-Marketing Surveillance for Insights on Risk and Effectiveness, 128. The Learning Healthcare System: Workshop Summary, Institute of Medicine of the National Academies. The National Academies Press, Washington, D.C., 2007.
33. Weisman, H.: Convergence and Innovation. In: The 2009 Pfeiffer Annual Leadership Development, David Dotlich, Peter Cairo, Stephen Rhinesmith, and Ron Meeks, Delta Organization & Leadership LLC, eds. Pfeiffer Publishing, San Francisco, pp 179-187, 2009.
34. Weisman, Harlan F: Stakeholder Perspectives on Value: Perspectives from Manufacturers. In: Value in Health Care: Accounting for Cost, Quality, Safety, Outcomes, and Innovation. Institute of Medicine (US) Roundtable on Value & Science-Driven Health Care; Yong PL, Olsen LA, McGinnis JM, editors. Washington (DC): National Academies Press (US), 2010.
35. Weisman HF: Companies Don't Innovate —People Do: Creating a Culture of Innovation to Drive Business Results. In: Driving Business Value with Innovative Leadership Strategies: Chief Executive Officers on Building Company Success by Fostering a Creative and Collaborative Company Culture (Inside the Minds Series). Aspatore (Thompson Reuters), Eagan, MN, 2014

PEER REVIEW ARTICLES:

1. Weisman HF, Bush DE, Mannisi JA, Bulkley BH: Global cardiac remodeling after acute myocardial infarction: A study in the rat model. *J Am Coll Cardiol* 5(6): 1355-1362, 1985
2. Wagner JA, Reynolds IJ, Weisman HF, Dudeck P, Weisfeldt ML, Snyder SH: Calcium antagonist receptors in cardiomyopathic hamster: Selective increase in heart, muscle, brain. *Science* 232(4749): 515-518, 1986
3. Levine JH, Spear JF, Weisman HF, Kadish AH, Prood C, Siu CO, Moore EN: The cellular electrophysiologic changes induced by high-energy electrical ablation in canine myocardium. *Circulation* 73(4): 818-829, 1986
4. Ambrosio G, Becker LC, Hutchins GM, Weisman HF, Weisfeldt ML: Reduction in experimental infarct size by recombinant human superoxide dismutase: Insights into the pathophysiology of reperfusion injury. *Circulation* 74(6): 1424-1433, 1986
5. Levine JH, Moore EN, Weisman HF, Kadish AH, Becker LC, Spear JF: Depression of action potential characteristics and a decreased space constant are present in postischemic, reperfused myocardium. *J Clin Invest* 79(1): 107-116, 1987
6. Kusuoka H, Porterfield JK, Weisman HF, Weisfeldt ML, Marban E: Pathophysiology and pathogenesis of stunned myocardium: Depressed Ca^{2+} -activation of contraction as a consequence of reperfusion-induced cellular calcium overload in ferret hearts. *J Clin Invest* 79(3): 950-961, 1987
7. Mannisi JA, Weisman HF, Bush DE, Dudeck P, Healy B: Steroid administration after myocardial infarction promotes early infarct expansion: A study in the rat. *J Clin Invest* 79(5):1431-1439, 1987
8. Hausheer FH, Josephson RA, Grochow LB, Weissman D, Brinker JA, Weisman HF: Intracardiac sarcoma diagnosed by left ventricular endomyocardial biopsy. *Chest* 92(1): 177-179, 1987
9. Levine JH, Merillat JC, Stern M, Weisman HF, Kadish AH, Moore EN, Spear JF, Fonger J, Guarnieri T: The cellular electrophysiologic changes induced by ablation: Comparison between argon laser photoablation and high-energy electrical ablation. *Circulation* 76(1): 217-225, 1987
10. Ambrosio G, Jacobus WE, Bergman CA, Weisman HF, Becker LC: Preserved high energy phosphate metabolic reserve in globally "stunned" hearts despite reduction of basal ATP content and contractility. *J Mol Cell Cardiol* 19(10): 953-964, 1987

11. Josephson RA, Singer I, Levine JH, Maughan L, Pyeritz RE, Gott VL, Weisman HF, Brinker J: Systolic expansion of the aortic root: An echocardiographic and angiographic sign of aortic composite graft dehiscence. *Cathet Cardiovasc Diagn* 14(2): 105-107, 1988
12. Kitakaze M, Weisman HF, Marban E: Contractile dysfunction and ATP depletion after transient calcium overload in perfused ferret hearts. *Circulation* 77(3): 685-695, 1988
13. Weisman HF, Bush DE, Mannisi JA, Weisfeldt ML, Healy B: Cellular mechanisms of myocardial infarct expansion. *Circulation* 78(1): 186-201, 1988
14. Gordon GB, Bush DE, Weisman HF: Reduction of atherosclerosis by administration of dehydroepiandrosterone: A study in the hypercholesterolemic New Zealand white rabbit with aortic intimal injury. *J Clin Invest* 82(2): 712-720, 1988
15. Levine JH, Moore EN, Kadish AH, Weisman HF, Balke CW, Hanich RF, Spear JF: Mechanisms of depressed conduction from long-term amiodarone therapy in canine myocardium. *Circulation* 78(3): 684-691, 1988
16. Nolan SE, Mannisi JA, Bush DE, Healy B, Weisman HF: Increased afterload aggravates infarct expansion after acute myocardial infarction. *J Am Coll Cardiol* 12(5): 1318-1325, 1988
17. Calkins H, Maughan WL, Weisman HF, Sugiura S, Sagawa K, Levine JH: Effect of acute volume load on refractoriness and arrhythmia development in isolated, chronically infarcted canine hearts. *Circulation* 79(3): 687-697, 1989
18. Wagner JA, Weisman HF, Snowman AM, Reynolds IJ, Weisfeldt ML, Snyder SH: Alterations in calcium antagonist receptors and sodium-calcium exchange in cardiomyopathic hamster tissues. *Circ Res* 65(1): 205-214, 1989
19. Wagner JA, Sax FL, Weisman HF, Porterfield J, McIntosh C, Weisfeldt ML, Snyder SH, Epstein SE: Calcium-antagonist receptors in the atrial tissue of patients with hypertrophic cardiomyopathy. *N Engl J Med* 320(12): 755-761, 1989
20. Stern MD, Weisman HF, Renlund DG, Gerstenblith G, Hano O, Lakatta EG: Laser backscatter studies of intracellular Ca²⁺ oscillations in the isolated hearts. *Am J Physiol* 257 (2 Pt 2) (Heart Circ Physiol 26): H665-H673, 1989
21. Ambrosio G, Weisman HF, Mannisi JA, Becker LC: Progressive impairment of regional myocardial perfusion after initial restoration of postischemic blood flow. *Circulation* 80(6): 1846-1861, 1989
22. Zuckerman BD, Weisman HF, Yim FC: Arterial hemodynamics in a rabbit model of atherosclerosis. *Am J Physiol* (Heart Circ Physiol) 257(3 Pt 2): H891-H897, 1989
23. Litt MR, Jeremy RW, Weisman HF, Winkelstein JA, Becker LC: Neutrophil depletion limited to reperfusion reduces myocardial infarct size after 90 minutes of ischemia: Evidence for neutrophil-mediated reperfusion injury. *Circulation* 80(6): 1816-1827, 1989

24. Kadish AH, Weisman HF, Veltri EP, Epstein AE, Slepian MJ, Levine JH: Paradoxical effects of exercise on the QT interval in patients with polymorphic ventricular tachycardia receiving type IA antiarrhythmic agents. *Circulation* 81(1): 14-19, 1990
25. Feldman AM, Tena RG, Kessler PD, Weisman HF, Schulman SP, Blumenthal RS, Jackson DG, Van Dop C: Diminished beta-adrenergic receptor responsiveness and cardiac dilation in hearts of myopathic Syrian hamsters (B10 53.58) are associated with a functional abnormality of the G stimulatory protein. *Circulation* 81(4): 1341-1352, 1990
26. Wagner JA, Weisman HF, Levine JH, Snowman AM, Snyder SH: Differential effects of amiodarone and desethylamiodarone on calcium antagonist receptors. *J Cardiovasc Pharmacol* 15(3): 501-507, 1990
27. Weisman HF, Bartow T, Leppo MK, Marsh HC, Jr., Carson GR, Concino MF, Boyle MP, Roux KH, Weisfeldt ML, Fearon DT: Soluble human complement receptor type 1: *In vivo* inhibitor of complement suppressing post-ischemic myocardial inflammation and necrosis. *Science* 249(4965): 146-151, 1990
28. Herrington DM, Gordon GB, Achuff SC, Trejo JF, Weisman HF, Kwiterovich PO Jr., Pearson TA: Plasma dehydroepiandrosterone and dehydroepiandrosterone sulfate in patients undergoing diagnostic coronary angiography. *J Am Coll Cardiol* 16(6):862-870, 1990 (NOTE: corrected and republished with original paging, article originally printed in *J Am Coll Cardiol* 16(4): 862-870, 1990)
29. Weisman HF, Bartow T, Leppo MK, Boyle MP, Marsh HC, Carson GR, Roux KH, Weisfeldt ML, Fearon DT: Recombinant soluble CR1 suppresses complement activation, inflammation and necrosis associated with reperfusion of ischemic myocardium. *Trans Assoc Am Physicians* 103: 64-72, 1990
30. Takeda K, LaFrance ND, Weisman HF, Wagner HN Jr., Becker LC: Comparison of indium 111 antimyosin antibody and technetium 99m pyrophosphate localization in reperfused and nonreperfused myocardial infarction. *J Am Coll Cardiol* 17(2): 519-526, 1991
31. Anderson HV, Revana M, Rosales O, Brannigan L, Stuart Y, Weisman H, Willerson J: Intravenous administration of monoclonal antibody to the platelet GPIIb/IIIa receptor to treat abrupt closure during coronary angioplasty. *Amer J Cardiol* 69:1373-1376, 1992
32. Miller DD, Rivera FJ, Garcia OJ, Palmaz JC, Berger HJ, Weisman HF: Imaging of vascular injury with 99m tc-labeled monoclonal antiplatelet antibody S12: Preliminary experience in human percutaneous transluminal angioplasty. *Circulation* 85(4): 1354-1363, 1992
33. Rodriguez EK, Hunter WC, Royce MJ, Leppo MK, Douglas AS, Weisman HF: A method to reconstruct myocardial sarcomere lengths and orientations at transmural sites in beating canine hearts. *Am J Physiol* 263(1 Pt 2) (Heart Circ Physiol 32): H293-H306, 1992
34. Kasper E, Ventura C, Weisman H, Capogrossi: Effect of a kappa opioid agonist in cardiomyopathic hamster ventricular myocytes: *Life Sci* 50: 2029-35, 1992.

35. Nedelman MA, Shealy DJ, Boutin R, Brunt E, Seasholtz JI, Allen IE, McCartney JE, Warren FD, Opperman H, Pang RHL, Berger HJ, Weisman HF: Rapid infarct imaging with a technetium-99m labeled antimyosin recombinant single-chain FV: Evaluation in a canine model of acute myocardial infarction. *J Nucl Med* 34: 234-241, 1993
36. Ellis SG, Tchong JE, Navetta FI, Muller DW, Weisman HF, Smith C, Anderson KM, Califf RM, Topol EJ: Safety and antiplatelet effect of murine monoclonal antibody 7E3 Fab directed against platelet glycoprotein IIb/IIIa in patients undergoing elective coronary angioplasty. *Coron Artery Dis* 4(2): 167-175, 1993
37. Kleiman NS, Ohman ME, Califf RM, George BS, Kereiakes D, Aguirre FV, Weisman HF, Schaible TF, Topol EJ: Profound inhibition of platelet aggregation with monoclonal antibody 7E3 Fab following thrombolytic therapy: Results of the TAMI-8 pilot study. *J Am Coll Cardiol* 22(2): 381-389, 1993
38. Boyle MP, Weisman HF: Limitation of infarct expansion and ventricular remodeling by late reperfusion: Study of time course and mechanism in a rat model. *Circulation* 88(6): 2872-2883, 1993
39. Kohmura C, Gold HK, Yasuda T, Holt R, Nedelman M, Guerrero JL, Weisman HF, Collen D: A chimeric murine/human antibody Fab fragment directed against the platelet GPIIb/IIIa receptor enhances and sustains arterial thrombolysis with recombinant tissue-type plasminogen activator in baboons. *Arterioscler Thromb* 13(12): 1837-1842, 1993
40. Simoons ML, Jan de Boer M, van den Brand M JBM, van Miltenburg AJM, Hoorntje JCA, Heyndrickx GR, van der Wieken LR, De Bono D, Rutsch W, Schaible TF, Weisman HF, Klootwijk P, Nijssen KM, Stibbe J, de Feyter PJ: Randomized trial of a IIb/IIIa platelet receptor blocker in refractory unstable angina. *Circulation* 89: 596-603, 1994
41. Anderson HV, Kirkeeide RL, Krishnaswami A, Weigelt LA, Revana M, Weisman HF, Willerson JT: Cyclic flow variations after coronary angioplasty in humans: Clinical and angiographic characteristics and elimination with 7E3 monoclonal antiplatelet antibody. *J Am Coll Cardiol* 23(5): 1031-1037, 1994
42. Topol EJ, Callif RM, Weisman HF, Ellis SG, Tchong JE, Worley S, Ivanhoe R, George BS, Fintel D, Weston M, Sigmon K, Anderson KM, Lee KL, Willerson JT, the EPIC Investigators: Randomised trial of coronary intervention with antibody against platelet IIb/IIIa integrin for reduction of clinical restenosis: Results at six months. *Lancet* 343(8902): 881-886, 1994
43. The EPIC Investigators: Use of a monoclonal antibody directed against the platelet glycoprotein IIb/IIIa receptor in high-risk coronary angioplasty. *N Engl J Med* 330: 956-61, 1994
44. Rote WE, Nedelman MA, Mu D-X, Manley PJ, Weisman H, Cunningham MR, Lucchesi BR: Chimeric 7E3 prevents carotid thrombosis in cynomolgus monkeys. *Stroke* 25: 1223-1233, 1994

45. Tcheng JE, Ellis SG, George BS, Kereiakes DJ, Kleiman NS, Talley JD, Wang AL, Weisman HF, Califf RM, Topol EJ: Pharmacodynamics of chimeric glycoprotein IIb/IIIa integrin antiplatelet antibody Fab 7E3 in high risk coronary angioplasty. *Circulation* 90(4): 1757-1764, 1994
46. Moliterno DJ, Califf RM, Aguirre FV, Anderson K, Sigmon KN, Weisman HF, Topol EJ: Effect of platelet glycoprotein IIb/IIIa integrin blockade on activated clotting time during percutaneous transluminal coronary angioplasty or direct coronary atherectomy (The EPIC Trial). Evaluation of c7E3 fab in the prevention of ischemic complications trial. *Am J Cardiol* 75(8): 559-562, 1995
47. Aversano T, Zhoe W, Nedelman M, Nakada M, Weisman H: A chimeric IgG4 monoclonal antibody directed against CD18 reduces infarct size in a primate model of myocardial ischemia and reperfusion. *J Am Coll Cardiol* 25: 781-788, 1995
48. Aguirre FV, Topol EJ, Ferguson JJ, Anderson K, Blankenship JC, Heuser RR, Sigmon K, Taylor M, Gottlieb R, Hanovich G, Rosenberg M, Donohue TJ, Weisman HF, Califf RM for the EPIC Investigators: Bleeding complications with the chimeric antibody to platelet glycoprotein IIb/IIIa in patients undergoing percutaneous coronary intervention. *Circulation* 91: 2882-2890, 1995
49. Bhattacharya S, Jordan R, Machin S, Senior R, Mackie I, Smith CR, Schaible TF, Weisman HF, Lahiri A: Blockade of the human platelet GPIIb/IIIa receptor by a murine monoclonal antibody Fab fragment (7E3): Potent dose-dependent inhibition of platelet function. *Cardiovasc Drugs Ther* 9: 665-675, 1995
50. Kleiman NS, Raizner AE, Jordan R, Wang AL, Norton D, Mace KF, Joshi A, Collier BS, Weisman HF: Differential inhibition of platelet aggregation induced by adenosine diphosphate or a thrombin receptor-activating peptide in patients treated with bolus chimeric 7E3 fab: Implications for inhibition of the internal pool of GPIIb/IIIa receptors. *J Am Coll Cardiol* 26: 1665-1671, 1995
51. Knight DM, Wagner C, Jordan R, McAleer MF, DeRita R, Fass, DN, Collier BS, Weisman HF, Ghrayeb J: The immunogenicity of the 7E3 murine monoclonal fab antibody fragment variable region is dramatically reduced in humans by substitution of human for murine constant regions. *Mol Immunol* 32: 1271-1281, 1995
52. Collier BS, Anderson KM, Weisman HF: The anti-GPIIb/IIIa agents: Fundamental and clinical aspects. *Haemostasis* 26 (Suppl 4): 285-293, 1996
53. Lefkovits, J, Ivanhoe RJ, Califf RM, Bergelson BA, Anderson KM, Stoner GL, Weisman HF, Topol EJ for the EPIC Investigators: Effects of platelet glycoprotein IIb/IIIa receptor blockade by a chimeric monoclonal antibody (abciximab) on Acute and six-month outcomes after percutaneous transluminal coronary angioplasty for acute myocardial infarction. *Am J Cardiol* 77: 1045-1051, 1996
54. Wagner CL, Mascelli MA, Neblock DS, Weisman HF, Collier BS, Jordan RE: Analysis of GPIIb/IIIa receptor number by quantification of 7E3 binding to human platelets. *Blood* 88: 907: 907-914, 1996

55. Aguirre FV, Topol EJ, Anderson KM, Kleiman NS, Weisman HF, FitzPatrick SE, Califf RM: Clinical benefit within patient subgroups receiving c7E3 Fab (abciximab) during percutaneous coronary revascularization: Subgroup analysis from the EPIC trial, *J Invas Cardiol* 8: 21B-29B, 1996
56. Lefkovits J, Blankenship JC, Anderson KM, Stoner GL, Talley JD, Worley SJ, Weisman HF, Califf RM, Topol EJ: Increased risk of non Q-wave myocardial infarction after directional atherectomy is platelet-dependent: Evidence from the EPIC trial. Evaluation of c7E3 for the prevention of ischemic complications. *J Am Coll Cardiol* 28: 849-855, 1996
57. Lincoff AM, Tcheng JE, Califf RM, Bass T, Popma J, Teirstein PS, Kleiman NS, Hattel LJ, Anderson HV, Ferguson JJ, Cabot CF, Anderson KM, Berdan LG, Musco MH, Weisman HF, Topol EJ for the PROLOG Investigators: Standard versus low-dose weight-adjusted heparin in patients treated with the platelet glycoprotein IIb/IIIa receptor antibody fragment abciximab (c7E3 Fab) during percutaneous coronary revascularization. *Am J Cardiol* 79: 286-291, 1997
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