

**UNIVERSITY OF MIAMI
CURRICULUM VITAE**

I. PERSONAL

07/13/2009

Name: Omaida C. Velázquez, M.D., F.A.C.S.

Current Academic Rank: Associate Professor with Tenure
University of Miami, Miller School of Medicine
David Kimmelman Endowed Chair in Vascular and Endovascular Surgery
Department of Surgery, Division of Vascular Surgery
Miami, FL

Secondary Appointment: Adjunct Associate Professor with Tenure
University of Pennsylvania, School of Medicine
Philadelphia, PA

Citizenship: U.S.A.
Visa Type: N/A

II. HIGHER EDUCATION

11. Institutional

Hospital of the University of Pennsylvania, Philadelphia, PA
Vascular Surgery Fellow (July, 1998 - June, 1999)

University of Pennsylvania, Harrison Department of Surgical Research, Philadelphia, PA
Post-doctoral Research Fellow (July, 1994 - June, 1996)

12. Non-institutional

Hospital of the University of Pennsylvania, Philadelphia, PA
Department of Surgery:
General Surgery Internship (July, 1991- June, 1992)
General Surgery Residency (July, 1992 - June, 1994 and July, 1996 - June, 1998)

Stevens Institute of Technology, BS: May 1987
University of Medicine and Dentistry of New Jersey: New Jersey Medical School
MD: May 1991

13. Certification, Licensures:

Florida Medical Licensure – ME- 100087 (2007)

Certificate of completed training on Gore Tag Thoracic Aortic Endograft (2007)

Certificate of completed training on Excimer LASER Atherectomy (2005)

Certificate of completed training on RX ACCULINK Carotid Stenting System and Embolic Protection System (2005)

Certificate of completed training on Zenith Aortic Endografts (2004)
Certificate of completed training on AneuRx Aortic Endografts (2002)
Certificate of completed training on Ancure Aortic Endografts (2001)
American Board of Surgery- Vascular Surgery, Certificate-101088 (2000)
American Board of Surgery- General Surgery, Certificate-43960 (1999)
Pennsylvania Medical Licensure – MD 054213L (1994)
Diplomate, National Board of Medical Examiners, Certificate-397334 (1992)

III. EXPERIENCE:

14. Academic (July to June calendar years for all dates below):

2008-present	David Kimmelman Endowed Chair in Vascular and Endovascular Surgery University of Miami, Miller School of Medicine, Miami, FL
2007-present	Adjunct Associate Professor of Surgery, University of Pennsylvania, School of Medicine, Philadelphia, PA
2007-present	Associate Professor of Surgery, Tenure tract University of Miami, Miller School of Medicine, Miami, FL
2007	Associate Professor of Surgery, Tenure tract University of Pennsylvania School of Medicine, Philadelphia, PA
2001-2007	Adjunct Assistant Professor Wistar Institute, Philadelphia, PA
1999-2007	Assistant Professor of Surgery University of Pennsylvania School of Medicine, Philadelphia, PA
1999-2001	Visiting Scientist Wistar Institute, Philadelphia, PA
1997-99	Instructor in General Surgery University of Pennsylvania School of Medicine, Philadelphia, PA
1992-96	Assistant Instructor in General Surgery University of Pennsylvania School of Medicine, Philadelphia, PA

15. Hospital and Administrative Appointments: (July to June calendar years for all dates below):

- 2008-present Member, Cardiovascular Committee
University of Miami Hospital
- 2008-present Member, UMMG Leadership Council
- 2008-present Member, Carotid Artery Stenting Oversight Committee
University of Miami Hospital
- 2008-present Member, Planning Committee
Continuing Medical Education Department
University of Miami School of Medicine
- 2008- present Member, Committee on Appointments and Promotions
Department of Surgery
University of Miami School of Medicine
- 2008- Present Member, Medical Advisory Board
Center of Excellence for Laparoscopic and Minimally Invasive Surgery
University of Miami School of Medicine
- 2008- Present Advisory Board of Women in Academic Medicine and Leadership
University of Miami School of Medicine
- 2008- Present Member, Cardiovascular Committee
University of Miami Hospital
- 2007 Member, Chairman of Dermatology Search Committee
University of Miami School of Medicine
- 2007- Present Member, UM/ Sylvester Comprehensive Cancer Center
Molecular Therapeutics and Developmental Therapeutics Program
Miami, FL
- 2007- Present Attending Surgeon, University of Miami Hospital
Miami, FL
- 2007- Present Attending Surgeon, Jackson Memorial Hospital,
Miami, FL
- 2007- Present Director, Vascular Laboratory
University of Miami Hospital
Miami, FL
- 2007- Present Chief, Division of Vascular and Endovascular Surgery
University of Miami Hospital
Miami, FL
- 2007 Director, Vascular Biology Research Laboratory
University of Pennsylvania School of Medicine, Philadelphia, PA

2002-2007	Vascular Division Educational Coordinator University of Pennsylvania School of Medicine, Philadelphia, PA
2001-2007	Attending Surgeon, The Children's Hospital of Philadelphia, Philadelphia, PA
2001-2003	Attending Surgeon, Philadelphia Veterans Administration Medical Center, Philadelphia, PA
1999-2007	Attending Surgeon, Presbyterian Medical Center, Philadelphia, PA
1999-2007	Attending Surgeon, Hospital of the University of Pennsylvania, Philadelphia, PA
1997-98	Grand Rounds Lecture Series Coordinator, Department of General Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA

16. Non-Academic: N/A

17. Military: N/A

IV. PUBLICATIONS:

18. Books and monographs published:

1. **Velazquez OC.** "Disorders of the Abdominal Aorta and Major Branches" In Mattei P (ed) Fundamentals in Pediatric Surgery 2nd Edition. Springer, Chapter 111 (in press).
2. Bauer SM and **Velazquez OC.** "Wound Healing." In: Atluri P, Karakousis GC, Porrett PM and Kaiser LR. (Eds.) The Surgical Review, 2nd Ed. Lippincott, Williams and Wilkins, 102-110, 2006.
3. Milner R and **Velázquez OC.** "Mesenteric Ischemia and Vascular Intestinal Disorders" Requisites series: Gastroenterology, Vol 2 Small and Large Intestine, Eds: Anil K. Rustgi, Gary Loichtenstein and Garry Wu. Mosby , Chapter 11, 2004.
4. Karmacharya JJ, **Velázquez OC**, Baum R, Carpenter JP. Magnetic resonance angiography. Chap. 7 in: Ascher E, Hollier L, Strandness D, Towne J, Calligaro K, Kent K, Moneta G, Pearce W, Ricotta J. (Eds.): Haimovici's Vascular Surgery, Principles and Techniques, Fifth Edition. New York: Blackwell Publishers, 103-116, 2004
5. **Velazquez OC**, Baum RA, Fairman RM. "The IMA as a principal source of backflow endoleaks: Incidence and Management." In: Veith FJ, Baum RA (Eds.) Endoleaks and Endotension: Current Consensus on Their Nature and Significance. New York: Marcel Dekker, 221-235, 2002.
6. Fairman RM, **Velazquez OC**, Baum RA. "Diagnosis and Treatment of Intraoperative Endoleaks: When is the Operation Really Over? In: Veith FJ, Baum RA (Eds.): Endoleaks and Endotension: Current Consensus on Their Nature and Significance. New York: Marcel Dekker 199-210, 2002.

7. **Velázquez OC**, Baum RA, Carpenter JP, Golden MA, Birnbaum B, Cohen M, Pyeron AM, Barker CF, Criado FJ, Fairman RM: “Relationship between preoperative patency of the IMA and subsequent occurrence of Type II endoleak in patients undergoing endovascular repair of abdominal aortic aneurysms”. In: Osborn AG, Groskin SA, Dalinka MK, Ros P, Young LW, Oestreich A, Maynard CD, Birdwell RL, Smirniotopoulos JG (Eds.) Year Book of Diagnostic Radiology, Mosby-Year Book, 2001, 264.
8. **Velazquez OC**, Baum RA, Carpenter JP. “Magnetic Resonance Imaging/Magnetic Resonance Angiography (MRI/MRA).” In Ahn SS and Moore WS(Eds.) Endovascular Surgery, 3rd Edition, W. B. Saunders, 125-133, 2001.
9. **Velazquez, OC** and Callans LS: “Surgical Oncology in the Management of Lymphomas” In: Bland KI, Daly JM, and Karakousis Surgical Oncology: Contemporary Principles and Practice, McGraw-Hill Professional, 1103-1112, 2001.
10. **Velázquez OC**, Baum RA, Carpenter JP: “Magnetic Resonance Imaging and Angiography.” In: Rutherford RB, ed. Vascular Surgery 5th edition. Philadelphia: WB Saunders. Chapter 15, 269-285, 2000.
11. Fairman RM, **Velázquez OC**, Mohler E, Baum RA. “Endovascular repair of abdominal aortic aneurysms.” ACC Current Journal Review by the American College of Cardiology. Elsevier Science Inc. Nov/Dec 2000.
12. **Velázquez OC**, Baum RA, Carpenter JP: “Magnetic resonance angiography in peripheral vascular disease.” Seminars in Interven Radiology 15(2):149-162, 1998.
13. **Velázquez OC**, Lederer HM, Rombeau JL: “Butyrate and the colonocyte. Production, absorption, metabolism, and therapeutic implications.” Advances in Experimental Medicine & Biology Springer Publishing 123-34, 1997.
14. **Velázquez OC**, Rombeau JL: “Butyrate. Potential role in colon cancer prevention and treatment.” [Review] Advances in Experimental Medicine & Biology Springer Publishing 169-81, 1997.
15. **Velázquez OC**, Lederer HM, Rombeau JL (1997): “Butyrate and the colonocyte: Production, absorption, metabolism, and therapeutic implications.” In: Kritchevsky D and Bonfield C, eds., Dietary Fiber in Health and Disease, Plenum Press, Vol. 427 , 123-134, 1997.
16. **Velázquez OC** and Rombeau JL: “Butyrate: Potential role in colon cancer prevention and treatment.” In: Kritchevsky D and Bonfield C, eds., Dietary Fiber in Health and Disease, Plenum Press, Vol. 427 , 169-181, 1997.

19. Juried or Refereed Journal Articles or Exhibitions:

1. Shirodkar S, Bird V, **Velazquez O**, Ciancio G. Novel Management of Complicated Renal Artery Aneurysm: Laparoscopic Nephrectomy and Ex-Vivo Repair with Heeterotopic Autotransplant. *J of Endourology* (Submitted) 2009

2. Liu ZJ, **Velazquez OC**. Trafficking and Differentiation of Mesenchymal Stem Cells. *J Cell Biochem* 2009, 106(6):984-91
3. **Velazquez OC**, Liu Z. Angiogenesis in Wound Healing: The Role of Oxygen. *WHS Yearbook – Oxygen* 2009 (in press).
4. Zhuge Y, **Velazquez OC**. Complex Aortic Reconstruction in Children. *Vascular Surgery – a Manual for Survival. 34th Annual Northwestern Vascular Symposium*, 2009 (in press).
5. Estrada EJ, Valacchi F, Nicora E, Brieva S, Esteve C, Echevarria L, Froud T, Bernetti K, Messinger-Cayetano S, **Velazquez O**, Alejandro R, Ricordi C. Combined treatment of intrapancreatic autologous bone marrow stem cells and hyperbaric oxygen in type 2 diabetes mellitus. *Cell Transplantation*, 2008. (published)
6. Westvik TS, Fitzgerald TN, Muto A, Maloney SP, Pimiento JM, Fancher TT, Magri D, Westvik HH, Nishibe T, **Velazquez OC**, Dardik A. Limb ischemia after iliac ligation in aged mice stimulates angiogenesis without arteriogenesis. *Journal of Vascular Surgery*. (published)
7. Milovanova TN, Bhopale VM, Sorokina EM, Moore JS, Hunt TK, Hauer-Jensen M, **Velazquez OC**, and Thom SR. Hyperbaric Oxygen stimulates vasculogenic stem cell growth and differentiation in vivo. *Journal of Applied Physiology* (published)
8. Sethna CB, Kaplan BS, Cahill AM, **Velazquez OC**, and Meyers KE. Idiopathic mid-aortic syndrome in children. *Pediatr Nephrol* 23: 1135-1142, 2008.
9. Nedeau AE, Bauer RJ, Gallagher K, Chen H, Liu ZJ, and **Velazquez OC**. A CXCL5- and bFGF-dependent effect of PDGF-B-activated fibroblasts in promoting trafficking and differentiation of bone marrow-derived mesenchymal stem cells. *Exp Cell Res* 314: 2176-2186, 2008.
10. Milovanova TN, Bhopale VM, Sorokina EM, Moore JS, Hunt TK, Hauer-Jensen M, **Velazquez OC**, and Thom SR. Lactate stimulates vasculogenic stem cells via the thioredoxin system and engages an autocrine activation loop involving hypoxia-inducible factor 1. *Mol Cell Biol* 28, 6248-6261, 2008.
11. Liu ZJ and **Velazquez OC**. Hyperoxia, endothelial progenitor cell mobilization, and diabetic wound healing. *Antioxid Redox Signal* 10: 1869-1882, 2008.
12. Kaye AJ, Slemper AE, Chang B, Mattei P, Fairman R, and **Velazquez OC**. Complex vascular reconstruction of abdominal aorta and its branches in the pediatric population. *J Pediatr Surg* 43: 1082-1088, 2008.
13. Schermerhorn M, Zwolak R, **Velazquez O**, Makaroun M, Fairman R and Cronenwett. Ultrasound Screening for Abdominal Aortic Aneurysm in Medicare Beneficiaries. *Ann Vasc Surgery* 22:16-24, 2007.
14. Gallagher KA, Liu ZJ, Xiao M, Chen H, Goldstein LJ, Buerk DG, Nedeau A, Thom S R and **Velazquez OC**. Diabetic impairments in NO-mediated endothelial progenitor cell mobilization and homing are reversed by hyperoxia and SDF-1 alpha. *J Clin Invest* 117: 1249-1259, 2007.

15. **Velazquez OC.** Angiogenesis and vasculogenesis: inducing the growth of new blood vessels and wound healing by stimulation of bone marrow-derived progenitor cell mobilization and homing. *J Vasc Surg* 45 Suppl A, A39-47, 2007.
16. Woo EY, Karmacharya J, **Velazquez OC**, Carpenter JP, Skelltt CL, Fairman RM. Differential effects of carotid artery stenting versus carotid endarterectomy on external carotid artery patency. *J Endovasc Ther.* 14(2):208-13, 2007.
17. Gallagher KA, Goldstein LJ, Buerk DG, Nedeau A, Xiao M, Chen H, Thom SR, Liu ZJ, **Velazquez OC.** Diabetic Impairments in NO-mediated Endothelial Progenitor-Cell Mobilization and Homing are reversed by Hyperoxia and SDF-1 α . *J. Clinical Investigation.* 117:1249–1259, 2007.
18. Gallagher KA, Goldstein LJ, Thom SR, **Velazquez OC.** Hyperbaric Oxygen and Bone Marrow-Derived Endothelial cells in Diabetic Wound Healing. *Vascular,* 14(6):328-37, 2006.
19. Skelly CL, Gallagher K, Fairman RM, Carpenter JP, **Velazquez OC**, Parmer SS, Woo EY. Risk Factors for Restenosis after Carotid Artery Angioplasty and Stenting. *J Vasc Surg* 44(5):1010-5, 2006.
20. Parmer SS, Fairman RM, Karmacharya JJ Carpenter JP, **Velazquez OC**, Woo EY. A Comparison of Renal Function between Open and Endovascular Aneurysm Repair in Patients with Baseline Chronic Renal Insufficiency. *J Vasc. Surg.* 44:706-11, 2006.
21. Woo EY, Bavaria J, Pochettino A, Woo YJ, **Velazquez OC**, Carpenter JC, Fairman RM, Cheung AT, Gleason T. Techniques for Preserving Vertebral Artery Perfusion during Thoracic Aortic Stent Grafting Requiring Aortic Arch Landing. *Vasc & Endovasc Surg.* 40(5) 367-373, 2006.
22. Liu ZJ, Xiao M, Balint K, Soma A, Pinnix CC, Capobianco AJ, **Velazquez OC**, Herlyn M. Inhibition of endothelial cell proliferation by Notch1 signaling is mediated by repressing MAPK and PI3K/Akt pathways and requires MAML1. *FASEB J.* 20(70):1009-11, 2006.
23. Parmer SS, Carpenter JP, Fairman RM, **Velazquez OC**, Mitchell ME. Femoral Neuropathy Following Retroperitoneal Hemorrhage: Case Series and Review of the Literature. *Annals of Vasc. Surg,* 20(4):536-40, 2006.
24. Goldstein LJ, Gallagher KA, Bauer SM, Bauer RJ, Baireddy V, Buerk DG, Thom SR, **Velazquez OC.** Progenitor Cell Release into Circulation is Triggered by Hyperoxia-Induced Increases in Bone Marrow Nitric Oxide. *Stem Cell.* 24: 2309-2318, 2006. (published online www.StemCells.com June 22, 2006; DOI: 10.1634/stemcells.2006-0010.0
25. Thom, SR, Bhopale VM, **Velázquez OC**, Goldstein LJ, Thom LH, Buerk DG. Stem Cell Mobilization by Hyperbaric Oxygen. *Am J Physiol Heart Circ.* 290(4):H1378-86, 2006.
26. Moise M, **Velazquez OC**, Fairman RM, Golden MA, Mitchell ME, Carpenter JC. Barriers to Endovascular Aortic Aneurysm Repair: Past Experience and Implications for Future Device Development. *Vasc Endovasc Surg* 40(3):197-203, 2006.

27. Szeto WY, Fairman RM, Acker MA, Skelly CL, Augoustides JG, McGarvey M, Woo EY, **Velazquez OC**: Emergency endovascular deployment of stent graft in the ascending aorta for contained rupture of innominate artery pseudoaneurysm in a pediatric patient. *Ann Thorac Surg.* 81(5):1872-5, 2006.
28. Jones CE, Wolf RL, Detre JA, Das B, Saha PK, Wang J, Zhang Y, Song HK, Wright AL, Mohler ER, Fairman RM, Zager EL, **Velazquez OC**, Golden MA, Aronow HD, Wehrli FW. Characterization of hemispheric cerebral blood flow before and after carotid endarterectomy using unilateral arterial spin labeling. *NMR Biomed* 19:198-208, 2006.
29. Karmacharya JJ, Parmer S, Antezana JN, Fairman RM, Woo EY, **Velazquez OC**, Golden MA, Carpenter JC. Outcomes of Accessory Renal Artery Occlusion During Endovascular Aneurysm Repair. *J Vasc Surg*, 43(1): 9-13, 2006.
30. Bauer SM, Goldstein LJ, Bauer RJ, Chen H, Putt M, **Velazquez OC**. The Bone Marrow-derived Endothelial Progenitor Cell Response is Impaired in Delayed Wound Healing from Ischemia. *J Vasc. Surg* 43(1):134-41, 2006.
31. Woo E, Fairman RM, **Velazquez OC**, Golden MA, Karmacharya JJ, Carpenter JP: Endovascular Therapy of Symptomatic Inominate-Subclavian Arterial Occlusive Disease. *Vasc Endovascular Surg.* 40(1):27-33, 2006.
32. Goldstein L, Chen H, Bauer RJ, Bauer SM, **Velazquez OC**: Normal Human Fibroblasts Enable Melanoma Cells to Induce Angiogenesis in Type I Collagen. *Surgery* 138(3), 439-449, 2005.
33. Wolf RL, Wehrli SL, Popescu AM, Woo JH, Song HK, Wright AC, Mohler III ER, Harding JD, Zager EL, Fairman RM, Golden MA, **Velazquez OC**, Carpenter JP, Wehrli FW. Mineral volume and morphology in carotid plaque specimens using high resolution MRI and CT. *Arterioscler Thromb Vasc Biol* 25(8): 1729-35, 2005.
34. Reis LJ, Barton TD, Pochettino A, **Velazquez OC**, McGarvey M, Milas B, Reboli A, Schuster MG. Successful Treatment of Aspergillus Prosthetic Valve Endocarditis with Oral Voriconazole. *Clin Infect Dis* 41(5): 752-3, 2005.
35. Bauer SM, Bauer RJ, **Velazquez OC**. Angiogenesis, Vasculogenesis and Induction of Healing in Chronic Wounds. *Vasc Endovasc Surg* 39(4): 293-306, 2005.
36. Stavropoulos SW, Kim H, Clark TW, Fairman RM, **Velazquez OC**, Carpenter JP. Embolization of Type 2 Endoleaks after Endovascular Repair of Abdominal Aortic Aneurysms with Use of Cyanoacrylate with or without Coils. *J. Vasc. Interv. Radiol* 16(6): 857-61, 2005.
37. Stavropoulos W, Clark T, Fairman R, Carpenter J, **Velazquez OC**, Litt H, Baum R. Use of CT Angiography to classify endoleaks after endovascular repair of abdominal aortic aneurysms. *J. Vasc. Interv. Radiol* 16(5): 663-667, 2005.
38. Bauer SM, Bauer RJ, **Velazquez OC**. VEGF-C promotes vasculogenesis, angiogenesis, collagen constriction in three-dimensional collagen gels. *J. Vasc Surg*, 41(4): 699-707, 2005.

39. **Velazquez OC**, Woo, EY, Carpenter, JP, Golden M, Barker, CF, Fairman RM. Decreased use of iliac extensions and reduced graft junctions with software-assisted centerline measurements in selection of endograft components for endovascular aneurysm repair. *J. Vasc. Surg.* 40: 222-227, 2004.
40. Fairman RM, **Velazquez OC**, Carpenter, JP, Woo, EY, Baum, RA, Golden MA, Criado, F. Midterm pivotal results of the Talent Low Profile System for repair of abdominal aortic aneurysm: analysis of complicated versus uncomplicated aortic necks. *J. Vasc. Surg* 40(6):1074-1082, 2004.
41. Lombardi J, Fairman RM, Golden MA, Carpenter, JP, Barker, CF, McBride A, and **Velazquez OC**. The utility of commercially available endografts in the treatment of contained ruptured aortic aneurysms and unfavorable endovascular anatomy. *J. Vasc. Surg* 40 (1):154-60, 2004.
42. **Velázquez OC** and Herlyn M. The vascular phenotype of melanoma metastasis. *Clinical and Experimental Metastasis* 20(3): 229-35, 2003.
43. Liu ZJ, Souma A, Snyder R, Fairman RM, Herlyn M, **Velazquez OC**. VEGF-A and $\alpha_v\beta_3$ synergistically rescue angiogenesis via N-Ras and PI3K signaling in human microvascular endothelial cells. *FASEB J* 17 (13): 1931-33, 2003.
44. Liu ZJ, Souma A, Snyder R, Fairman RM, Herlyn M, **Velazquez OC**. VEGF-A and $\alpha_v\beta_3$ synergistically rescue angiogenesis via N-Ras and PI3K signaling in human microvascular endothelial cells. *FASEB J*, express article Full text published on line, <http://www.fasebj.org>, 10.1096/fj.02-1171fje. August 15, 2003.
45. Milner R, Golden MA, **Velazquez OC**, Fairman RM. A New Endovascular Approach to Treatment of Acute Iliac Limb Occlusions of Bifurcated Aortic Stent Grafts With An Exoskeleton. *J Vasc Surg* 37:1329-31, 2003.
46. Gruss CJ, Satyamoorthy K, Berking C, Lininger J, Nesbit M, Schaidler H, Liu ZJ, Oka M, Hsu M, Shirakawa T, Li G, Bogenrieder T, Carmeliet P, El-Diery WS, Eck SL, Rao JS, Baker AH, Bennett J, Crombleholme TM, **Velazquez OC**, Karmacharya J, Margolis DJ, Wilson JM, Detmar M, Skobe Mihaela, Robbins PD, Johnson C, Buck C, Herlyn M. Stroma formation and angiogenesis of growth factors, cytokines, and proteolytic enzymes in human skin grafted to SCID mice. *J Invest Dermatol*, 120 (4): 683-92, 2003.
47. Liu ZJ, Shirakawa T, Li Y, Souma A, Oka M, Fairman RM, **Velazquez OC**, and Herlyn M. Regulation of Notch1/Dll4 genes by VEGF in endothelial cells: implications in modulating vasculogenesis/angiogenesis. *Mol Cell Biol* 23: 14-25, 2003.
48. Fairman RM, Baum RA, Carpenter JP, Deaton DH, Makaroun MS, **Velazquez OC**. Limb interventions in patients undergoing treatment with an unsupported bifurcated aortic endograft system: A review of the Phase II EVT Investigators. *J. Vasc. Surg*, 36: 118-126, 2002.
49. Carpenter JP, Baum RA, Barker CF, Golden MA, **Velázquez OC**, Mitchell ME, Fairman RM. Durability of benefits of endovascular versus conventional AAA repair. *J Vasc Surg*, 35: 222-228, 2002.

50. **Velázquez OC**, Snyder R, Zhao-Jun Liu, Fairman R, Herlyn M. Fibroblast-dependent differentiation of human microvascular endothelial cells into capillary-like, three-dimensional networks. *FASEB J*, 16: 1316-1318, 2002.
51. Fairman RM, Larson R, Baum RA, Carpenter JP, Golden MA, Barker CF, **Velázquez OC**. Potential impact of therapeutic warfarin treatment on type II endoleaks and sac shrinkage rates on midterm follow-up examination. *J Vasc Surg*, 35: 679-85, 2002.
52. **Velázquez OC**, Snyder R, Liu ZJ, Fairman RM, Herlyn M. Fibroblast-dependent differentiation of human microvascular endothelial cells into capillary-like 3-dimensional networks. *FASEB J Express*, Full text published on line, <http://www.fasebj.org>, 10.1096/fj.01-1011fje, 2002.
53. Baum RA, Carpenter JP, Golden M, **Velázquez OC**, Clark TWI, Stavropoulos WS, Cope C, Fairman RM. Treatment of type II endoleaks after endovascular repair of abdominal aortic aneurysms: Comparison of transarterial and translumbar techniques. *J Vasc Surg* 35:23-9, 2002.
54. Carpenter JP, Baum RA, Barker CF, Golden MA, **Velázquez OC**, Mitchell ME, Fairman RM. Impact of exclusion criteria on patient selection for endovascular AAA repair. *J Vasc Surg*, 34:1050-4, 2001.
55. Milner R, Bavaria JE, Baum RA, Carpenter JP, **Velázquez OC**, Brinster D, Fairman RM. Thoracic aortic stent grafts *Semin Roentgenol* 36:340-50, 2001.
56. Carpenter JP, Baum RA, Barker CF, Golden MA, **Velázquez OC**, Mitchell ME, Fairman RM. Endovascular AAA repair in patients with renal insufficiency: strategies for reducing adverse renal events. *Cardiovascular Surgery*, 9: 6:559-564, 2001.
57. Fairman RM, **Velázquez OC**, Baum RA, Carpenter JP, Golden MA, Neschis D, Pyeron AM, Barker CF: Endovascular repair of aortic aneurysms: Critical events and adjunctive procedures. *J Vasc Surg* 33:1226-32, 2001.
58. Carpenter JP, Neschis D, Fairman RM, Barker CF, Golden MA, **Velázquez OC**, Mitchell ME, Baum RA: Failure of endovascular AAA graft limbs. *J Vasc Surg*, 33:296-303, 2001.
59. Baum RA, Carpenter JP, Cope C, Golden MA, **Velázquez OC**, Neschis DG, Mitchell ME, Barker CF, Fairman RM: Aneurysm sac pressure measurements after endovascular repair of abdominal aortic aneurysms. *J Vasc Surg* 33 (1):32-41, 2001.
60. **Velázquez OC**, Larson RA, Milner R, Baum RA, Carpenter JP, Golden MA, Mitchell ME, Barker CF, Pyeron A, Fairman RM: Gender-related Differences in Infrarenal Aortic Aneurysm Morphologic Features: Issues Relevant to Ancure and Talent Endografts. *J Vasc Surg* 33:S77-84, 2001.
61. Neschis D, **Velázquez OC**, Baum RA, Roberts D, Carpenter JP, Golden MA, Mitchell ME, Barker CF, Pyeron AM, Fairman RM: The role of magnetic resonance angiography for endovascular endoprosthesis design. *J Vasc Surg* 33:488-94, 2001.

62. Baum RA, Carpenter JP, Golden MA, **Velázquez OC**, Mitchell ME, Soulen MC, Barker CF, Fairman RM: Limb kinking in supported and unsupported aortic stent grafts. *J Vasc & Interven Radiol* 11(9) 1165-72, 2000.
63. Criado FJ, Wilson EP, **Velázquez OC**, Carpenter JP, Barker C, Wellons E, Adul-Khoudoud O, Fairman RM: Safety of coil embolization of the internal iliac artery in endovascular grafting of abdominal aortic aneurysms. *J Vasc Surg*, 32: 684-8, 2000.
64. **Velázquez OC**, Baum RA, Carpenter JP, Golden MA, Birnbaum B, Cohen M, Pyeron AM, Barker CF, Criado FJ, Fairman RM: Relationship between preoperative patency of the IMA and subsequent occurrence of Type II endoleak in patients undergoing endovascular repair of abdominal aortic aneurysms. *J Vasc Surg*, 32:777-788, 2000.
65. Baum RA, Carpenter JP, Tuite CM, **Velázquez OC**, Soulen MC, Barker CF, Golden MA, Pyeron AM, Fairman RM: Diagnosis and treatment of inferior mesenteric artery associated with endoleaks after endovascular repair of abdominal aortic aneurysms. *Radiology* 215(2):409-413, May 2000.
66. **Velázquez OC**, Bavaria JE, Pochettino A, Carpenter JP: Emergency repair of thoracoabdominal aortic aneurysm with immediate presentation. *J Vasc Surg* 30(6):996-1003, Dec. 1999.
67. **Velázquez OC**, Carpenter JP, Baum RA, Barker CF, Golden M, Criado F, Pyeron A, Fairman RM: Perigraft air, fever, and leukocytosis after endovascular repair of abdominal aortic aneurysms. *Amer J Surg* 178(3):185-189, Sept. 1999.
68. **Velázquez OC**, Baum RA, Carpenter JP: Magnetic resonance angiography of lower-extremity arterial disease. *Surg Clin North Am* 78(4): 519-37, 1998.
69. **Velázquez OC**, Seto RW, Choi J, Zhou D, Breen F, Jabbar A, and Rombeau JL: Butyrate inhibits deoxycholate-induced increase in colon mucosal DNA, in vivo. *Dis of the Colon & Rectum* 40(11):1368-1375, Nov. 1997.
70. **Velázquez OC**, Seto RW, Bain AM, Fisher J, and Rombeau JL: Deoxycholate inhibits in vivo butyrate-mediated BrDU labeling of the colonic crypt. *J Surg Research* 69(2):344-348, May 1997.
71. **Velázquez OC**, Jabbar A, DeMatteo RP, Rombeau JL: Butyrate inhibits hepatic tumor growth in vivo, in a murine model of colorectal carcinoma metastatic to the liver. *Surgery* 120(2):440-448, Aug. 1996. (Work presented at the main program of the 57th annual meeting of the Society of University Surgeons).
72. **Velázquez OC**, Zhou D, Seto RW, Jabbar A, Choi J, Lederer HM, Rombeau JL: In vivo crypt surface hyperproliferation is decreased by butyrate and increased by deoxycholate in normal rat colon: Associated in vivo effects on c-Fos and c-Jun expression. *J Paren Ent Nutr* 20(4):243-250, July/Aug. 1996.
73. **Velázquez OC**, Lederer HM and Rombeau JL: Butyrate and the Colonocyte: Implications for neoplasia. *Digestive Diseases & Sci* 41(4):727-739, April 1996.

74. **Velázquez OC**, Seto RW, and Rombeau JL: The scientific rationale and clinical application of short-chain fatty acids and medium-chain triacylglycerols. *Proc of the Nutrition Soc* 55(1B):49-78, March 1996.
75. Lea MA, Luke A, Hu J, and **Velázquez OC**: Action of carbamoylating agents on the uptake of metabolites in hepatomas and liver. *Biochem Pharmacol* 36(17):2775-2781, Sept. 1, 1987.
76. Lea MA, Luke A, Martinson C, and **Velázquez OC**: Effects of cyanate on assay of proteins by the Bradford Procedure. *Ann NY Acad Sci* 463:109-111, 1986.
77. Lea MA, Luke A, Martinson C, and **Velázquez OC**: Influence of carbamoylation on some analytical properties of basic polypeptides. *International J of Peptide & Protein Res* 27(3):251-260, March 1986.
78. Lea MA, Luke A, **Velázquez OC**, Carpenter L, Martinson CF, and Hill HZ: Effects of sodium cyanate in mice bearing B16 melanoma. *Cancer Chemother & Pharmacol* 17(3):231-235, 1986.

Exhibitions/Abstracts:

1. Yeh DD, Velazquez O, Schulman C, Pringle I, Knight E. Suboptimal Medical Management in Vascular Patients. Presented at the Society for Vascular Surgery Annual meeting held at the Colorado Convention Center, Denver, CO, June 11-14, 2009
2. Liu Z, Tian R, Li Y, An W, Habib B, Velazquez OC. E-selectin mediates endothelial progenitor cell homing in response to Stromal derived factor-1 α . To be presented at the Society of Vascular Surgery Research Initiatives Vascular Disease Conference in Washington, DC, April 28 – May 1, 2009
3. Liu Z, Tian R, Li Y, An W, Habib B, Velazquez OC. E-selectin Mediates Endothelial Progenitor Cell Homing in Response to Stromal Derived Factor-1 α . To be presented at the Arteriosclerosis, Thrombosis and Vascular Biology Conference in Washington DC, April 29, 2009
4. Zhuge Z, Liu Z, Pincus D, Elliott S, Velazquez OC. Effect of Estrogen on Diabetic Wound Healing is Mediated Through Increasing the Function, but not the number of Bone Marrow Derived Endothelial Progenitor Cells. To be presented at the Arteriosclerosis, Thrombosis and Vascular Biology Conference in Washington DC, April 29, 2009
5. Zhuge Z, Liu Z, Pincus D, Elliott S, Velazquez OC. The Number and Function of Bone Marrow Mesenchymal Stem Cells (MSCs) are Increased by Topical Estrogen to Cutaneous Wounds in Diabetic Mice. To be presented at the Arteriosclerosis, Thrombosis and Vascular Biology Conference in Washington DC, April 29, 2009
6. Yeh DD, Velazquez OC, Pringle I, Knight E, Schulman C. Suboptimal Medical Management in Vascular Patients. To be presented at the Florida Vascular Society Meeting, Orlando, FL, April 23 – 26, 2009

7. Liu Z, Xiao M, Waters J, Velazquez OC. A Novel Approach in Regulating Neovascularization: Targeting Stromal Fibroblasts by Modulation of Notch1 Signaling. To be presented at the 4th Annual Academic Surgical Congress, Fort Myers, February 2009.
8. Westvik TS, Fitzgerald TN, Muto A, Maloney SP, Pimiento JM, Fancher TT, Magri D, Westvik HH, Nishibe T, Velazquez OC, Dardik A. Limb Ischemia after Iliac Ligation in Aged Mice Stimulates Angiogenesis without Arteriogenesis. Presented at the American Vascular Association (AVA) Resident Research Prize Paper at the 62nd Annual Meeting of the Society for Vascular Surgery, San Diego, CA, August 2008.
9. Nedeau AE, Gallagher KA, Velazquez OC. Injection of the anti-angiogenic, hemopexin-like fragment (PEX2) of matrix metalloproteinase-2 (MMP-2) induces delayed wound healing. Presented at the American College of Surgery 94th Annual Clinical Congress, San Francisco, CA, October 2008.
10. Jackson BM, English SJ, Fairman RM, Karmacharya J, Velazquez OC, Carpenter JP, and Woo EY. Carotid Artery Stenting: Identification of Risk Factors for Poor Outcomes. Presented at the Delaware Valley Vascular Society 30th Annual Meeting, Philadelphia PA, April 2008.
11. Jackson BM, English SJ, Fairman RM, Wang GJ, Velazquez OC, Carpenter JP, Woo EY. Subintimal Recanalization of Occlusive Femoropopliteal Lesions. Society of Clinical Vascular Surgery 36th Annual Symposium. Las Vegas, NV, March 2008.
12. Gallagher KA, Goldstein LJ, Nedeau AE, Chen H, Liu ZJ, Xiao M, Velazquez OC. Decreased Numbers of SDF-1A-Expressing Cells in Peripheral Wounds of Diabetic Mice. Presented at the Eastern Vascular Society Meeting, Washington DC, September 28-30, 2006.
13. Gallagher KA, Goldstein LJ, Nedeau AE, Buerk DG, Liu ZJ, Velazquez OC. The Essential Role of eNOS for Hyperoxia-Induced Endothelial Progenitor Cell Mobilization from Bone Marrow into Circulation. Presented at the New England Society for Vascular Surgery Meeting, Boston MA, September 22-24, 2006.
14. Nedeau AE, Bauer RJ, Chen H, Gallagher K, Velazquez OC. Bone Marrow Progenitor Cells of Mesenchymal Lineage are Recruited Preferentially Over Endothelial Lineage Into Type I Collagen by Platelet Derived Growth Factor-B-Activated Fibroblasts. Presented at the Society for Vascular Surgery Meeting, June 1-3, 2006, Philadelphia, PA.
15. Velazquez OC, Mattei P, Fairman RM. Current Strategies to Treat Anomalies of the Aorta and its Branches in Children. Presented at the 34th Annual Symposium of the Society for Clinical Vascular Surgery, March 8-11, 2006, Las Vegas, NV.
16. Skelly CS, Gallagher K, Fairman RM, Carpenter JP, Velazquez OC, Golden MA, Parmer SS, Woo EY. Increased Rate of Restenosis Following Carotid Artery Angioplasty and Stenting in Patients With Prior Neck Radiation. Presented at the 34th Annual Symposium of the Society for Clinical Vascular Surgery, March 8-11, 2006, Las Vegas, NV.
17. Parmer SS, Helm D, Fairman RF, Carpenter JC, Velazquez OC, Karmacharya JJ, Woo EY. A Comparison of Renal Function between Open and Endovascular Aneurysm Repair in Patients with Baseline Chronic Renal Insufficiency. Presented at the 34th Annual Symposium of the Society for Clinical Vascular Surgery, March 8-11, 2006, Las Vegas, NV.

18. Jackson BM, Bavaria JE, Fairman RM, Golden MA, Velazquez OC, Woo EY, Carpenter JC. Anatomic Exclusion From Endovascular Repair of TAAA. Presented at the 34th Annual Symposium of the Society for Clinical Vascular Surgery, March 8-11, 2006, Las Vegas, NV.
19. Gallagher KA, Goldstein L, Buerk D, Thom S, Nedeau A, Velazquez OC. Mobilization of Endothelial Progenitor Cells is Induced in Diabetic Mice by Hyperoxia. Presented at the first Annual Academic Surgical Congress, February 7-11, 2006, San Diego, CA.
20. Gallagher, KA, Goldstein L, Buerk DG, Nedeau, AE, Velazquez OC. Mobilization of Endothelial Progenitor Cells is induced in Diabetic Mice by Hyperoxia. Society of University Surgeons, February 2006.
21. Gallagher KA, Goldstein L, Buerk DG, Nedeau AE, Chen H, Velazquez OC. Diabetes Induces Impaired Endothelial Progenitor Cell Mobilization that is Significantly Reversed Under Hypoxic Conditions. Philadelphia Surgical Society, February 2006.
22. Nedeau AE, Bauer RJ, Chen H, Gallagher KA, Velazquez OC. Enhanced Recruitment of Bone Marrow Progenitor Cells into Collagen by PDGF-B Activated Fibroblasts. Philadelphia Surgical Society, February 2006.
23. Goldstein LJ, Bauer SM, Buerk D, Velazquez OC. Hyperbaric Oxygen Enhances Healing in Ischemic Hindlimb Wounds. Presented at the Annual Meeting of Society for Vascular Surgery June 16-19, 2005, Chicago, IL.
24. Jackson BM, Skelly CL, Carpenter JP, Woo EY, Velazquez OC, Golden MA, Deaton DH, Fairman RM. 3-D Modeling Identifies Gender Differences Relevant to Endovascular Repair in TAA and AAA. Presented at the Annual Meeting of Society for Vascular Surgery June 16-19, 2005, Chicago, IL.
25. Stavropoulos WS, Bavaria JE, Fairman RM, Golden MA, Pochettino A, Velazquez OC, Woo EY, Carpenter JC. Endoleaks After Endovascular Repair of Thoracic Aortic Aneurysms. Presented at the Nineteenth Annual Meeting of the Eastern Vascular Society, May 5-7, 2005.
26. Karmacharya JJ, Antezena J, Fairman RM, Woo E, Velazquez OC, Golden MA, Carpenter JC. Results of Accessory Renal Artery Occlusion During EVAR. Presented at the Nineteenth Annual Meeting of the Eastern Vascular Society, May 5-7, 2005.
27. Woo EY, Fairman RM, Velazquez OC, Golden MA, Karmacharya JJ, Carpenter JC. Endovascular Therapy as First-Line Management of Symptomatic High-Grade Inominate-Subclavian Artery Lesions. Presented at the 33rd Annual Symposium, Society for Clinical Vascular Surgery, March 9-12 2005, Coral Gables, Florida.
28. Goldstein L, Bauer SM, Buerk D, Velazquez OC. Hyperbaric Oxygen Enhances Healing in Ischemic Hind Limb Wounds. Presented at Society of University Surgeons Annual meeting, Nashville, TN
29. Goldstein L, Bauer SM, Buerk D, Velazquez OC. Hyperbaric Oxygen Enhances Healing in Ischemic Hind Limb Wounds. Presented at the Philadelphia Academy of Surgery's Annual

- Resident Paper Competition, (This paper won the competition) February 7, 2005 Philadelphia, PA.
30. Bauer SM, Liu Z, Herling M, Velazquez O.C. VEGF-C enhances fibroblast dependent EPC migration. New England Society of Vascular Surgery Annual Meeting, September 17, 2004.
 31. Bauer SM, Goldstein LJ, Baireddy V, Bauer RJ, Velazquez OC. Role of bone marrow derived precursor cells in wound healing. American College of Surgeons Forum. October, 2004.
 32. Fairman RM, Velazquez OC, Carpenter, JP, Woo, EY, Baum, RA, Golden MA, Criado, F. (For Talent LPS Phase II Investigators). The Talent abdominal aortic aneurysm (AAA) low-profile system (SVS): Analysis of complicated versus uncomplicated aortic necks. (oral presentation at SCVS, 2004, CA)
 33. Velazquez OC, Stavropoulos, W, Chow, K, Carpenter, JP, Golden, MA, Lombardi, J, Barker CF, Fairman, RM. Dilatation of Proximal Aortic Neck after Endovascular Treatment of AAA. (oral presentation at ISCVS, 2004, Maui, Hawaii).
 34. Lombardi J, Fairman RM, Golden MA, Carpenter, JP, Barker, CF, McBride A, and Velazquez OC. The utility of commercially available endografts in the treatment of contained ruptured aortic aneurysms and unfavorable endovascular anatomy. (Oral Presentation at ISCVS, 2004, Maui, Hawaii).
 35. Moise M, Velazquez OC, Fairman RM, Golden MA, Mitchell ME, Carpenter JC. Barriers to EVAR: Past Experience and Implications for Future Development. Presented at the 18th Annual Meeting of the Eastern Vascular Society, April 29-May 2, 2004, Philadelphia, PA.
 36. Fairman RM, Velazquez OC, Greenberg RK, Chuter TA. Factors Predictive of Early or Late Aneurysm Sac Size Change Following Endovascular Repair. Presented at the 18th Annual Meeting of the Eastern Vascular Society, April 29-May 2, 2004, Philadelphia, PA.
 37. Invited Discussant at the Eastern Vascular Society Annual Meeting, May, 2003, NY. "Evidence for Telomerase Reactivation in VSMCs Exposed to Hyperglycemic and Hyperhomocysteinemic Conditions." Ascher E, Hingorani A, Kallakuri S, Schutzer R, Hou A, Yorkovich W, Markevich N, Salles-Cunha S, Jacobs T, and Kucherina A. (Discussion published in the Journal Of Vascular Surgery)
 38. Velazquez OC, Woo, EY, Carpenter, JP, Golden M, Barker, CF, Fairman RM. Reduced Graft Junctions with MMS Software-Assisted Centerline Measurements for Abdominal Aortic endograft design. JVS, 2003 (oral presentation at SVS, 2003, Toronto, Ontario, Canada)
 39. Soma A, Snyder R, Liu ZJ, Shirakawa T, Ziober BL, Fairman RM, Herlyn M, and Velazquez OC. VEGF and $\alpha V\beta 3$ integrin-induced vascular network formation of microvascular endothelial cells is N-Ras- and P13-K-dependent. AACR National Annual Meeting, 2003. (poster).
 40. Cheung AT, Levy WJ, Velazquez OC, Fairman RM. The safety and efficacy of a human polymerized hemoglobin solution (Poly-SFH-P) combined with acute normovolemic hemodilution (ANH) in elective infrarenal abdominal aortic aneurysm (AAA) repair. Anesthesiology; 96: A249, 2002.

41. Lombardi J, Fairman RM, Golden M, Carpenter, JP, Mitchell M, McBride A, and Velazquez OC. The utility of commercially available endografts in the treatment of contained ruptured infrarenal aortic aneurysms. Delaware Valley Vascular Society Annual Meeting, Phila., PA 2002.
42. Liu ZJ, Shirakawa T, Li Y, Velazquez OC, Herlyn M. Regulation of notch/ligand genes by vascular endothelial growth factor in human endothelial cells, AACR National Meeting, 2002.
43. Velázquez OC, Snyder R, Zhao-Jun Liu, Fairman R, Herlyn M. Over expression of α_2 and β_3 integrin subunits enhances fibroblast-induced capillary-like differentiation of microvascular endothelial cells. Society of Vascular Surgeons (SVS) Annual Meeting, June 2001.
44. Velázquez OC, Snyder R, Zhao-Jun Liu, Fairman R, Herlyn M. A new model of Human non-neoplastic angiogenesis using vascularized biologic matrices and microvascular endothelial cells. Eastern Vascular Society (EVS) Annual Meeting, May 2001.
45. Fairman R, Baum RA, Velázquez OC, Deaton DW, Makaroun MS. Limb interventions in bifurcated EGS patients: A review of the phase II EVT trial. Society for Clinical Vascular Surgery (SCVS) Annual Meeting, April 2001.
46. Zhao-Jun Liu, Velázquez OC, Shirakawa T, Snyder R, Herlyn M. Differential gene expression of endothelial cells stimulated with VEGF during formation of microvascular-like network in 3-dimensional matrices. American Association for Cancer Research (AACR) Annual Meeting, April 2001.
47. Velázquez OC, Snyder R, Zhao-Jun Liu, Fairman R, Herlyn M. Fibroblasts induce differentiation of human microvascular endothelial cell monolayers into capillary-like, three-dimensional networks. Lifeline Foundation Annual Meeting, March 2001. (This work received the von Liebig Foundation Award for Excellence in Vascular Surgical Research).
48. Velázquez OC, Nesbit M, Bennett J, Fairman R, Herlyn M. Adenovirus-mediated release of 17.8 Kda bFGF by human cells induces angiogenesis in vivo. Society of Vascular Surgeons (SVS) Annual Meeting, June 2000.
49. Velázquez OC, Larson R, Baum RA, Carpenter J, Golden M, Mitchell M, Barker CF, Pyeron A, Fairman R. Gender-specific anatomic issues relevant to aortic endografting. Society of Vascular Surgeons (SVS) Annual Meeting, June 2000.
50. Neschis D, Velázquez OC, Baum RA, Carpenter J, Golden M, Mitchell M, Barker CF, Pyeron A, Fairman R. The role of magnetic resonance angiography (MRA) for endovascular endoprosthesis design. Accepted for oral presentation and invited manuscript, Eastern Vascular Society (EVS) Annual Meeting, May 2000.
51. Hunt J, Mohler E, Mitchell M, Carpenter J, Golden M, Scoll B, Wolfe M, Neschis D, Velázquez OC, Cusack A, Fairman R. Bone formation and neovascularization in carotid plaques: A clinicopathologic correlation study. Accepted for oral presentation and invited manuscript, Eastern Vascular Society (EVS) Annual Meeting, May 2000.
52. Fairman RM, Baum RA, Soulen MC, Velázquez OC, Golden MA, Barker CF, Carpenter JP, Criado FJ. Hypogastric embolization: Outcomes after unilateral and bilateral procedures.

- International Endovascular Symposium 10th meeting proceedings, Conference Organization & Management, Pymble, Australia,, Dec 2000.
53. Baum RA, Carpenter JP, Velázquez OC, Barker CF, Golden MA, Cope C, Fairman RM. Sac pressures, endoleak and endotension: Where do we stand now? International Endovascular Symposium, 10th meeting proceedings, Conference Organization & Management, Pymble, Australia, Dec 2000.
 54. Fairman RM, Velázquez OC, Carpenter JP, Baum RA, Golden MA, Pyeron A, Barker CF. The complicated aortic neck is not a contraindication to successful endovascular repair. Accepted for oral presentation; finalist in the Allastair Karmody Essay Award Competition. Society for Cardiovascular surgery (SCVS), 1999.
 55. Velázquez OC, Bavaria JP, Carpenter JP. Emergent repair of thoracoabdominal aortic aneurysms. Eastern Vascular Society (EVS), 1999.
 56. Velázquez OC, Carpenter JP, Baum RA, Barker CF, Golden MA, Pyeron A, Fairman RM. Endovascular repair of aortic aneurysms: Critical events and adjunct procedures. Society for Vascular Surgery (SVS), 1999.
 57. Velázquez OC, Carpenter JP, Baum RA, Barker CF, Golden MA, Birnbaum B, Pyeron A, Fairman RM. The endovascular management of the short infrarenal neck in aortic aneurysms: suprarenal fixation and acute renal effects. Society for Vascular Surgery (SVS) & Eastern Vascular Society (EVS), 1999.
 58. Velázquez OC, Carpenter JP, Baum RA, Golden MA, Birnbaum B, Cohn M, Pyeron A, Barker CF, Fairman RM. Clinical significance of inferior mesenteric artery (IMA) patency in endovascular repair of infrarenal aortic aneurysms: type II endoleaks and postoperative colon ischemia. Society for Vascular Surgery (SVS) & Eastern Vascular Society (EVS), 1999.
 59. Fairman RM, Velázquez OC, Carpenter JP, Baum RA, Golden MA, Pyeron A, Barker CF. The complicated aortic neck is not a contraindication to successful endovascular repair. Accepted for oral presentation; finalist in the Allastair Karmody Essay Award Competition. Society for Cardiovascular surgery (SCVS), 1999.
 60. Velázquez OC, Bavaria JP, Carpenter JP. Emergent repair of thoracoabdominal aortic aneurysms. Eastern Vascular Society (EVS), 1999.
 61. Velázquez OC, Carpenter JP, Baum RA, Barker CF, Golden MA, Pyeron A, Fairman RM. Endovascular repair of aortic aneurysms: Critical events and adjunct procedures. Society for Vascular Surgery (SVS), 1999.
 62. Velázquez OC, Carpenter JP, Baum RA, Barker CF, Golden MA, Birnbaum B, Pyeron A, Fairman RM. The endovascular management of the short infrarenal neck in aortic aneurysms: suprarenal fixation and acute renal effects. Society for Vascular Surgery (SVS) & Eastern Vascular Society (EVS), 1999.
 63. Velázquez OC, Carpenter JP, Baum RA, Golden MA, Birnbaum B, Cohn M, Pyeron A, Barker CF, Fairman RM. Clinical significance of inferior mesenteric artery (ima) patency in

- endovascular repair of infrarenal aortic aneurysms: type II endoleaks and postoperative colon ischemia. Society for Vascular Surgery (SVS) & Eastern Vascular Society (EVS), 1999.
64. Velázquez OC, Fairman RM. Limb growth retardation with external iliac artery occlusion: vascular and pediatric surgical aspects. Delaware Valley Vascular Society (DVVS), Philadelphia, PA, 1998.
 65. Velázquez OC, Golden MA: Recurrent hematemesis with ruptured splenic artery aneurysms. Society Clinical Vascular Surgery (SCVS), 1998.
 66. Velázquez OC, Bagley L, Mirza N, Hurst RW, Golden MA: Carotid artery dissection and pseudoaneurysm from blunt trauma: successful treatment with percutaneous wall stent. Society Clinical Vascular Surgery (SCVS), 1998.
 67. Velázquez OC, Carpenter JP, Baum RA, Barker CF, Pyeron A, Fairman RM: Perigraft air, fever and leukocytosis after endovascular repair of abdominal aortic aneurysms: early post implantation findings not associated with infection. Society Clinical Vascular Surgery (SCVS), 1998. (Selected as a finalist for the Peter B. Samuels Award Competition).
 68. Velázquez OC, Fairman, RM: Limb growth retardation with external iliac artery occlusion: vascular and pediatric surgical aspects. Delaware Valley Vascular Society (DVVS), 1998.
 69. Park JO, Velázquez OC, Zhou ED, Rombeau JL: Continuous butyrate infusion into the hepatic artery inhibits growth of colorectal hepatic metastases in a murine model. Surgical Forum, 1997.
 70. Deoxycholate inhibits butyrate-mediated crypt base proliferation in rat colonic mucosa, in vivo. The Association for Academic Surgery Annual Meeting, Chicago, IL. Nov 1996
 71. Butyrate inhibits deoxycholate-induced increase in colon mucosal DNA, in vivo. Tripartite Meeting, London, England. July 1996.
 72. Butyrate inhibits deoxycholate-induced increase in colon mucosal DNA, in vivo. American Society of Colorectal Surgeons, Seattle, WA. June 1996
 73. Butyrate inhibits hepatic tumor growth in a murine model of metastatic colorectal cancer. The Philadelphia Academy of Surgery Residents Research Award Program, Philadelphia, PA. May 1996.
 74. Butyrate inhibits hepatic tumor growth in a murine model of metastatic colorectal cancer. The Society of University Surgeons, Washington DC. Feb 1996.
 75. In vivo crypt surface hyperproliferation is decreased by butyrate and increased by deoxycholate in normal rat colon. American Society for Parenteral and Enteral Nutrition, Washington, DC. Jan 1996.
 76. Butyrate and deoxycholate modulate premalignant hyperproliferation in rat colonic mucosa in vivo. Digestive Diseases Week/American Gastroenterology Association, San Diego, CA. May 1995

20. Other works, publications and abstracts:

Alternative Media:

“El estrés excesivo puede crear una lesión súbita en la aorta” Interview on Efectos Secundarios- Radio Caracol December 5, 2007.

“Why Wounds are Slow to Heal in Diabetics” Science Daily May 6, 2007.

“Cardiovascular Disease Doesn’t Stop at the Heart” Penn Medicine Media Event for “Legs for Life” screening event- Sept 18, 2006.

“Advances in surgically treating peripheral arterial disease.” Interviewed by Jen Boyett. Story ran 21 times in a one-week period on CNN Headline News regionally in June 2006.

“Lower extremity peripheral arterial disease.” Interviewed by Norman Swan. ABC Radio National and the Australian National Radio: Health News – February 21, 2006.

“For vascular surgeon, life is literally in her hands.” A week long series on "Good Hands." by Cheryl Squadrito Moskovitz. The South Jersey Courier-Post - Tuesday, June 3, 2003.

“Classroom Close Up 1997-8- Show #7.” PBS program sponsored by the NJ Education Association.

“Dreams Count.” PBS program sponsored by the National Council of Teachers of Mathematics. March 24, 1995.

Contributions to Peer-Reviewed Clinical Research Publications, Participation Cited but not by Authorship:

Invited Reviewer/Discussant at American College of Surgeons 94th Clinical Congress-Vascular Surgery Forum: San Francisco, CA. Paper: “Heme oxygenase upregulation contributes to microvascular acclimatization to chronic hypoxia” by Alfred Casillan MD, PhD.

Invited Reviewer/Discussant at the New England Society for Vascular Surgery Meeting, 2006. Paper: Evidence of a sustained inflammatory response in a murine model of type 2 diabetes following unilateral hind-limb ischemia/reperfusion injury. By: Marvin D. Atkins, et al. (Harvard University)

Invited Reviewer/Discussant at the Society for Vascular Surgery Meeting, 2004. Paper: Poly(adenosine diphosphate ribose) polymerase inhibition modulates spinal cord dysfunction after thoracoabdominal aortic ischemia-reperfusion. By: Casey, P. J., et. al. (Harvard University)

Invited Reviewer/Discussant at the Eastern Vascular Society Annual Meeting, 2003. Paper: “Evidence for Telomerase Reactivation in VSMCs Exposed to Hyperglycemic and Hyperhomocysteinemic Conditions.” By: Ascher E, Hingorani A, et. al. (UCSF)

21. Other works accepted for publications:

Velazquez OC. Commentary: Unblinded pilot study of autologous transplantation of bone marrow mononuclear cells in patients with thromboangiitis obliterans. *Perspectives in Vascular Surgery and Endovascular Therapy* 20:100-102, 2008.

V. PROFESSIONAL:

22. Funded Research Performed:

CURRENT GRANT SUPPORT

<u>Name of Grant</u>	<u>Period of Award</u>	<u>Grant Category</u>	<u>Role in Grant*</u>	<u>Funding Source</u>	<u>Current Annual Direct Cost</u>
Recruiting activated endothelial progenitor cells to wounds by hyperoxia & SDF-1a	11/01/08-11/31/12	R01	PI	NIH 1R01GM081570-01A1	\$190,800
Bone Marrow-Derived Fibroblasts in Skin Wound Healing	03/15/06-02/28/11	R01	PI	NIH 1 R01 DK 071084-01	\$200,000
AAV-SDF-1alpha activated BMD Fibroblasts for Diabetic Wound Healing	9-1-08-8-31-10	UM-IG	PI	WHCC	\$80,000

PAST GRANT SUPPORT

<u>Name of Grant</u>	<u>Period of Award</u>	<u>Grant Category</u>	<u>Role in Grant*</u>	<u>Funding Source</u>	<u>Current Annual Direct Cost</u>
FDG-PET Imaging in Complicated Diabetic Foot	12/01/02-11/30/07	R01	Co-Inv.	NIH 1 R01 DK063579-01	\$280,900
Bone Marrow-Derived Endothelial Cells in Ischemic Wound Healing	04/01/03-03/31/08	FG	PI	NIH K01 HL 073145-03	\$105,000
PEX2 Inhibition of Angiogenesis in Ischemic Wounds	07/19/05-07/18/07	TG	Co-PI, Mentor	NIH NRSA, F32	\$50,000
An Investigation of the TALENT Endoluminal Spring Stent-Graft System for the Treatment of Aortic Aneurysms in High-Risk Patients	05/01/00-06/30/02	CT	Co-Inv.	World Medical Manufacturing Corp. (44069-00-00)	PI is Ronald Fairman, MD
Study of the Cook Endovascular Zenith AAA Endovascular Graft	06/07/00-06/30/02	IG	Co-Inv.	Cook, Inc.	PI is Ronald Fairman, MD
Screening for Aortic Aneurysms (HUP)	10/01/01-09/30/02	CT	Co-PI	NIH	Co-PI Ronald Fairman, MD
Carotid Revascularization, Endarterectomy vs. Stent Trial (CREST)	11/09/01-11/08/04	CT	Co-Inv.	UMDNJ -NJMS	Co-Pi's Ronald Fairman, MD, and Michael Golden, MD
A Prospective, Non-Randomized Multi-Center Single Aim Clinical Trial to Assess the Safety and Efficacy of the Acculink Carotid Stent System in the Treatment of High Risk Surgical Patients and Nonsurgical Patients with Lesions in the Internal Carotid Artery	11/21/01-11/11/04	CT	Co-Inv.	Guidant, Inc./Advanced Cardiovascular Systems	PI is Ronald Fairman, MD

PENDING GRANT SUPPORT

<u>Name of Grant</u>	<u>Period of Award</u>	<u>Grant Category</u>	<u>Role in Grant*</u>	<u>Funding Source</u>	<u>Additional Comments*</u>
Stem Cell Mobilization in human wound healing	08/01/08-07/31/12	PP	Co-PI	NIH	PI is Steve Thom, MD (revised and to be resubmitted)

Notch Signaling in Endothelial Progenitor Cell Differentiation and Expansion	06/01/08-06/31/12	R01	Co-PI	NIH	PI is Zhao-JunLiu, MD (revised and to be resubmitted)
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CLINICAL RESEARCH STUDIES

1. Cabana: A carotid stenting. Boston Scientific surveillance program carotid wall stent wire easy embolic protection system. Sponsor: Boston Scientific (Institution PI, 2009)
2. Eprost # 20080425 – Collection of data from Vascular surgery patients and future samplings of tissue and blood at the University of Miami and Jackson Memorial Hospitals – (Institution PI, 2009)
3. A Clinical Evaluation of the GORE TAG Thoracic Endoprosthesis in the primary treatment of descending thoracic aneurysms. Sponsor: W.L. Gore (Institution PI, 2008)
4. PARTNER Trial. Edwards Lifesciences –multicenter trail (Institution Sub-Investigator, 2008)
5. Use of TRC Autologous Bone Marrow Cells in Patients with Peripheral Arterial Disease to Treat Critical Limb Ischemia Aastrom Biosciences, Inc. - Phase I trial (Institution PI, 2008)
6. The Embolic Protection with reverse flow (EMPIRE) Study of the Gore Neuro Protection System in Carotid Stenting subjects at high risk of carotid endarterectomy. Sponsor: W.L. Gore (Institution PI, 2007)
7. MultiGene Vascular Systems (MGVS) Ltd. Cell/gene therapy in Fem-Pop grafts – multicenter Phase I trial (Institution PI, 2007)
8. LeMaitre AUI Aortic Stent-graft for AAA Endovascular Repair - multicenter Phase II Trial (Institution PI, 2007)
9. MultiGene Vascular Systems (MGVS) Ltd. Cell/gene therapy – multicenter Phase I trial (Institution CO-PI, 2007)
10. CAPTURE (Carotid RX ACCULINK/ACCUNET Post-Approval Trial to Uncover Unanticipated or Rare Events), Guidant. (Co-Investigator, 2004)
11. Zenith TX2 Thoracic TAA Endovascular Graft Clinical Trial (Co-Investigator, 2004)
12. Evaluation of Potential Gene Expression in Markers for Atherosclerosis in Patients undergoing Carotid Endarterectomy and Healthy Subjects. (Protocol Amendment #2 dated 12/15/03)
13. CREST (Carotid Stent Trial) (Co-Investigator), 2003.
14. Valor Thoracic Stent Graft Trial (Co-PI), 2003.
15. TERAMED AAA Stent Graft System Clinical Investigation. (Co-PI), Cordis, 2003.
16. US Screening for Abdominal Aortic Aneurysms (Co-PI for U. of Penn. In Multicenter Study), 2002.

17. A Phase III Trial of the Ex-Vivo Treatment with CGT003 of Peripheral Vein Grafts in Patients undergoing Peripheral Bypass Graft Procedures. Co-Investigator, Corgentech, Inc, 2002.
18. Evaluation of the Enhanced TALENT LPS Stent Graft System for the treatment of Abdominal Aortic Aneurysms – Phase II, Co-Investigator, 2002.
19. A Clinical Phase II Investigation of the Endologix Bifurcated PowerLink System for Endoluminal Repair of Abdominal Aortic and Aortic-Iliac Aneurysm, Co-Investigator, 2000.
20. An Investigation of the TALENT LPS Endoluminal Stent Graft System for the treatment of Thoracic Aortic Aneurysms in Patients who are Candidates for Standard Surgical Intervention (Low Risk Study), Co-Investigator, 2000.
21. A Phase I Investigation of the IMPRA Endoluminal Stent-Graft System for the Treatment of Sub-Renal Abdominal Aortic Aneurysm, Co-Investigator, 2000.
22. A Phase II Investigation of the Baxter Life Path Endoluminal Stent-Graft System for the Treatment of Sub-Renal Abdominal Aortic Aneurysm, Co-Investigator, 2000.
23. An Investigation of the TALENT Endoluminal Spring Stent-Graft System for the Treatment of Sub-Renal Abdominal Aortic Aneurysm in Patients who are Candidates for Standard Surgical Intervention (Low-Risk Stock Device Study), Co-Investigator, 1999.
24. A Phase I Investigation of the TALENT Endoluminal Spring Stent-Graft System for the Treatment of Thoracic Aortic Aneurysms in Patients who are not Candidates for Standard Surgical Intervention (World Medical Manufacturing Corporation), Co-Investigator, 1999.
25. A Phase I Evaluation of the Safety and Effectiveness of the Cordis Bilateral AAA Device Compared to Open Surgical Repair for the Treatment of Abdominal Aortic Aneurysm, Co-Investigator, 1999.
26. A Phase II Investigation of the Zenith AAA Endovascular Graft for Treatment of Infra-Renal Abdominal Aortic Aneurysm (Cook Incorporated), Co-Investigator, 1999.
27. A Phase II Investigation of The TALENT LPS, A Low Profile Endoluminal Stent-Graft System for the Treatment of Sub-Renal Abdominal Aortic Aneurysms in Patients who are Candidates for Standard Surgical Intervention – Low Risk Protocol (World Medical Manufacturing Corporation), Co-Investigator, 1999.
28. Use of the TALENT Endoluminal Spring Graft Stent-Graft System in High Surgical Risk Patients with Abdominal Aneurysm – Emergency/Compassionate Use Protocol (World Medical Manufacturing Corporation), Co-Investigator, 1999.
29. A Phase III Clinical Study of the Safety and Efficacy of EVT Ancure Tube and Bifurcated Systems, Co-Investigator, 1999.
30. A Phase II Clinical Study of the Aortoiliac EGS System as Compared to the Standard Surgical Procedure in the Treatment of Abdominal Aortic Aneurysms (#9602), Co-Investigator, 1999.

31. A Phase II Investigation of the TALENT Endoluminal Spring Stent-Graft System for the Treatment of Sub-Renal Abdominal Aortic Aneurysm in Patients who are Candidates for Standard Surgical Intervention, Co-Investigator, 1999.
32. A Phase II Investigation of the TALENT Endoluminal Spring Stent-Graft System for the Treatment of Sub-renal Abdominal Aortic Aneurysm in Patients who are Not Candidates for Standard Surgical Intervention, Co-Investigator, 1999.

23. Editorial Responsibilities:

Editorial Boards:

2008-present	Member, Editorial Board, <i>Advances in Skin and Wound Care</i>
2008-present	Member, Editorial Board, <i>Journal of Surgical Research</i>
2008-present	Co-Section Editor, <i>WHS Yearbook "Oxygen:"</i> Co-editor, Dr. Gayle Gordillo; Editor, Dr. Chandan K. Sen

Peer Reviewer for Journals

June 2006- July 2009	Peer Review Panel for <i>Advances in Skin & Wound Care</i> Journal
October 2008 – November, 2008	Reviewer: <i>Journal, Physiological Genomics</i>

Ad Hoc External Peer Reviewer for Journals:

2009-pres	"Differentiation" <i>Journal of the Int. Society of Differentiation</i>
2009-pres	<i>Bioscience and Bioengineering</i>
2009-pres	<i>Cellular Biochemistry</i>
2009-pres	<i>Differentiation</i>
2008-pres	<i>Annals of Vascular Surgery</i>
2008-pres	<i>Physiological Genomics</i>
2007-pres.	<i>Cell Proliferation</i>
2007-pres	<i>Molecular Medicine</i>
2007-pres	<i>Journal of Vascular Research</i>
2006-pres.	<i>Surgery</i>
2006-pres.	<i>Journal of Endovascular Therapy</i>
2006-pres.	<i>Cardiovascular Research Today</i>
2006-pres.	<i>Circulation</i>
2005-pres.	<i>Archives of Medical Research</i>
2004-pres.	<i>Advances in Skin & Wound Care</i>
2004-pres.	<i>FASEB J</i>
2003-pres.	<i>Diabetes</i>
2001-pres.	<i>The Annals of Thoracic Surgery</i>
2001-pres.	<i>Journal of Vascular Surgery</i> Distinguished Reviewer (2007)

2000-pres. In Vitro
1998-pres. Clinical Cancer Research
1996-pres. Journal of Enteral and Parenteral Nutrition
1996-pres. International Journal of Cancer

Member on Grant Study Sections:

200 – pres. Grant Reviewer on RFA OD-09-003 Challenge Grants Panel # 23. Identifier: 2009/10 ZRG1 SB1B-V (58) R. Mtg. date: 07/20/09

2008 – pres. Howard Hughes Medical Institute (HHMI) Research Training Fellowship for Medical Students Study Section

2007 – pres. National Institutes of Health (NIH): Bioengineering, Technology and Surgical Sciences Study Section (BTSS)

Ad Hoc Member on Grant Study Sections:

2009 “Challenge Grant Review” Panel # 23

2009 “Boston Area Diabetes Endocrinology Research Center Pilot and Feasibility Grants”

2008 National Institute of Health (NIH): Special Emphasis Panel- Tumor Stem Cells in Cancer Biology, Prevention, and Therapy

2008 Pennsylvania Commonwealth Grant - Regeneration of the skin.
PI: David J. Margolis, MD, PhD – University of Pennsylvania

2006 National Institutes of Health (NIH): Bioengineering, Technology and Surgical Sciences Study Section (BTSS)

2006 Congressionally Directed Medical Research Program (CDMRP) Peer Reviewed Medical Research Program (PRMRP) Diabetes Treatment & Devices Panel.

2006 National Institutes of Health (NIH): Center for Scientific Emphasis Panel, Center for Scientific Review ZRGI SBIB-N (50), Bioengineering Research Partnerships

2005 American Diabetes Association (ADA) Oversight Committees:

Judge for Research Forums:

2008 34th Annual Eastern-Atlantic Student Research Forum

24. Professional and Honorary Organizations:

Alpha Omega Alpha Honor Medical Society
American Association for the Advancement of Science
American Association for Vascular Surgery
American College of Surgeons, Fellow
American Medical Association
American Society of Angiology, Fellow
American Surgical Association Foundation
Association for Academic Surgery (AAS)
-Education Committee Chair – (2006)
-Program Committee Member – (2005-08)
-Institutional Representative – (2005-07; 2007-09)
-Vascular Research Session Moderator – (2006)
-Program Sub-committee reviewer- best manuscript by a new member – (2008)
Association of Women Surgeons
Delaware Valley Vascular Society
Florida Medical Association
International Academy of Clinical and Applied Thrombosis/Hemostasis
International Society of Surgery
International Society for Vascular Surgery (ISVS)
- ISVS Institutional Representative (2005 – present)
John Morgan Society
New Jersey Medical School Alumni Association
New York Academy of Science
Philadelphia Academy of Surgery
Sigma Xi Scientific Research Society
Society for Clinical Vascular Surgery
Society of University Surgeons
Society of University Surgeons – Rep. to the National Assn. of Biomedical Research
- Committee on Surgical Education, member (2006-present)
-Round Table Focused Group Discussions (2003-present)
Society for Vascular Surgery
-Recruitment Task Force Committee Member (2006-07)
-Women’s Issues Committee Member (2006-present)
- Diversity Committee Member (2008 – present)
-Distinguished Fellow (2008- present)
Florida Vascular Society (2008 – present)
American Society for Clinical Investigators (ASCI) (2009 inductee)

25. Honors and Awards:

2009	Inducted as a member of the American Society for Clinical Investigation (ASCI)
2008	Society for Vascular Surgery - Distinguished Fellows Status
2007	Peer Reviewer of the Year Award Advances in Skin & Wound Care
2006-07	Who's Who in Science and Engineering

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- 2006 Outstanding Scientists of the 21st Century
- 2005-06 Who's Who in the World
- 2004-05 Who's Who in Medicine and Healthcare
- 2003 Joel J. Roslyn Faculty Research Award –
2-year Association for Academic Surgery sponsored grant
(\$35000/ year) on Vasculogenesis
- 2001 Von Liebig Foundation Award for Excellence in Vascular Surgical
Research
- 2000 The University of Pennsylvania Nominee to the W. W. Smith Charitable Trust
for Cardiovascular Diseases Research
- 1997 Jonathan E. Rhoads Research Award
- 1997 Surgery Department recognition for '97 ABSITE score- 94th percentile
1997 New Jersey Education Association Awards for Excellence- Medicine
- 1996 Surgery Department recognition for '96 ABSITE score- 98th percentile
- 1996 The Philadelphia Academy of Surgery Residents Research Award
- 1996 Harry M. Vars Research Award, American Society for Parenteral and
Enteral Nutrition
- 1995 Surgery Department recognition for '95 ABSITE score- 98th percentile
1995 New Jersey Business and Professional Women Young Careerist Award
- 1991 Valedictorian of UMDNJ-New Jersey Medical School
- 1991 Association for Academic Surgery Surgical Student Research Award
- 1991 Dr. Gertrude Ash Memorial Award (New Jersey Medical Women's
Association) -- for student with highest grade point average
- 1991 Dean's Achievement Award for academic excellence
1991 Faculty Organization Award
- 1991 Janet M. Glasgow Memorial Award (American Medical Women's
Association, Inc.) -- for student with highest grade point average
- 1991 Drs. Milton and Rose Prystowsky Award -- for excellence in patient care
- 1991 William McLean Undergraduate Programs in Technology and
Medicine Alumni Research Honor Award
- 1990 Alpha Omega Alpha Honor Medical Society
- 1990 Sigma Xi Scientific Research Society

1990	Merck Manual Award for highest grade in Internal Medicine
1990	William F. Grupe Foundation, Inc. Scholarship for the Advancement of Medical Education
1989	Krans-Henle Memorial Fund Scholarship
1988	Lange Book Award -- for highest grade in Pathology
1988	William F. Grupe Foundation, Inc. Scholarship for the Advancement of Medical Education
1987	John C. Sheehan Research Achievement Award
1987	Joseph Priestly Chemistry Achievement Award

26. Post-Doctoral Fellowships:

Post-Doctoral Research Fellow (1994-6): University of Pennsylvania – Dr. John Rombeau

27. Other Professional Activities:

Invited Extramural Lectures:

June 2009	Presenter: “Suboptimal Medical Management in Vascular Patients” - Society of Vascular Surgery Annual meeting, Denver, CO
June 2009	Presenter: ADA 69 th Scientific Sessions “Endothelial Progenitor Cells and Wound Healing” New Orleans, LA
March 2009	Presenter, VII Sao Paulo Meeting of Vascular and Endovascular Surgery, “Carotid Stenosis, CEA vs. CAS” Sao Paulo, Brazil
March 2009	Presenter, VII Sao Paulo Meeting of Vascular and Endovascular Surgery, “Endovascular Therapies for Critical Limb Ischemia, Outcome and Complications” Sao Paulo, Brazil
March 2009	Presenter, VII Sao Paulo Meeting of Vascular and Endovascular Surgery, “Cellular Therapies for Critical Limb Ischemia” Sao Paulo, Brazil
February 2009	Presenter, Keystone Symposia on Molecular and Cellular Biology, “ <i>Complications of Diabetes and Obesity</i> ” Vancouver, British Columbia, Canada
February 2009	Presenter: “The Glass Ceiling: Does it still exist for women and minorities in Academic Surgery?” Society of University Surgeons meeting, Ft. Myers, FL

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- January 2009 Grand Rounds Lecture: “Endothelial Progenitor Cell Mobilization and Homing and their Role in Diabetic Wound Healing” Department of Surgery, SUNY Upstate Medical University College of Medicine, Syracuse, NY
- December 2008 Presenter: “EPCs” - Wound Healing: Science & Industry, St. Thomas, Virgin Islands
- November 2008 Grand Rounds Lecture: “Carotid Disease” Department of Surgery, University of Miami Miller School of Medicine, Miami, FL
- October 2008 Tips for Writing a Successful Grant. 19th Annual Fundamentals of Surgical Research Course. Association for Academic Surgery. San Francisco, CA.
- October 2008 Choosing the Right Job and Negotiating for Academic Success: Negotiating/ Maintaining Balance Between Clinical and Research Activities. 4th Annual Career Development Course. Association for Academic Surgery. San Francisco, CA.
- October 2008 Role of Bone Marrow progenitor cells and hyperbaric oxygen in diabetic wound healing. South Florida Society of Vascular Surgery Annual Meeting. Islamorada, FL.
- April 2008 Supplemental Oxygen Therapy. The Symposium on Advanced Wound Care and Wound Healing Society Meeting. San Diego, CA.
- October 2007 Identifying Critical Limb Ischemia in Patients with Wounds. 22nd Annual Clinical Symposium on Advances in Skin & Wound Care. Nashville, TN.
- June 2007 Bone Marrow-Derived Endothelial Progenitor Cells: A New Therapeutic Target for Postnatal Angiogenesis, Vasculogenesis, and Wound Healing. 12th Annual Mayo-Luther Forum on Hematopoietic and Stem Cells. Mayo Clinic, Rochester, MN
- June 2006 Angiogenesis, Vasculogenesis, and Wound Healing. Yale University, New Haven, CT.
- May 2006 Endothelial Progenitor Cells Mobilized into Circulation by Hyperbaric Oxygen: Distinct Mobilization and Homing Mechanisms Wound Healing Society Scottsdale, AZ
- June, 2004 Dilatation of Proximal Aortic Neck after Endovascular Treatment of AAA International Society Cardiovascular Surgery, Maui, Hawaii.
- Nov. 2004 The Role of Bone Marrow-derived Endothelial Cells in Vasculogenesis, Association for Academic Surgery, Houston, TX
- Feb. 2001 Preoperative Imaging and Evaluation: Planning Vascular Access for Aortic Stent Grafts. Endovascular Techniques and Strategies Conference, Vail, CO

Invited Regional Lectures:

- May 2006 Surgeon Scientists: Their Inspiration and Mentors
National Honor Society, Honors Gala, Keynote Speaker
Union Hill High School, Union City, N.J.
- May 2005 The Importance of Mentors. National Honor Society, Honors Gala, Keynote
Speaker Union Hill High School, Union City, N.J.
- July 2005 Surgeon Scientists: Their Inspiration and Mentors. Guest Speaker at UMDNJ-
New Jersey Medical School SMART Biomedical Research Program
- Nov. 2004 Bone Marrow-derived Cells in Angiogenesis, Vasculogenesis, and Wound
Healing, 161st Meeting & 100th Anniversary of the Society of Clinical Surgery,
University of Pennsylvania Department of Surgery, Philadelphia, PA
- Jan. 2001 Aortic Stent-Grafts. Grand Rounds, Mercy Catholic Medical
Center, Mercy Fitzgerald Hospital, Darby, PA
- April 2001 Patient Selection for Endovascular Repair of Abdominal Aortic
Aneurysms. Vascular Fellows Symposium, Philadelphia, PA
- May 2001 Early Mentors. National Honor Society, Honors Gala, Keynote Speaker, Union
Hill High School, Union City, N.J.
- Feb. 2000 Aortic Endografting. Grand Rounds, Saint Francis Medical
Center, Jersey City, NJ
- March 2000 Endovascular Repair of Aneurysms. Grand Rounds, Chestnut Hill
Hospital, Philadelphia, PA

Invited University of Pennsylvania Lectures:

- November 2007 Critical Limb Ischemia: Educational Conference for General Surgery
Residents
Penn General Surgery Update, Philadelphia, PA
- May 2006 Bone Marrow-derived Endothelial Progenitor Cells: Are they needed for
wound healing? Can they be safely mobilized?
Wistar Institute, Philadelphia, PA
- May 2006 Advances in Limb Salvage for Critical Limb Ischemia
Penn Annual Prosthetics Course, Philadelphia, PA
- May 2006 New Devices for EVAR
Penn General Surgery Update, Philadelphia, PA
- May 2006 Management of Critical Limb Ischemia
Penn General Surgery Update, Philadelphia, PA

- May 2005 New Endovascular Treatment Options for Lower Extremity Peripheral Arterial Disease Penn General Surgery Update Wyndham Hotel, Philadelphia, PA
- Oct. 2005 Endothelial Progenitor Cells derived from the Bone Marrow: Their Role in Wound Healing. University of Pennsylvania Medical School, Philadelphia, PA
- Oct. 2004 "The Tools" Platforms & Disposables, Penn Update on Percutaneous Carotid and Brachiocephalic Interventions, Marriott Hotel, Philadelphia, PA
- Sept. 2002 Fibroblast-dependent Differentiation of Human Microvascular Endothelial Cells into Capillary-like 3-Dimensional Networks, Scientific Symposium in recognition of Dr. Clyde F. Barker, Biomedical Research building, Philadelphia, PA
- May 2002 Endothelial-Stromal Cell Communication. Neurosurgery Grand Rounds, HUP, Philadelphia, PA
- June 2002 Endothelial-Stromal Cell Communication in Melanoma Metastases, Wistar Institute, Melanoma Series, Philadelphia, PA
- June 2002 In Vitro Models to Study Endothelial Cell Biology in Melanoma, Wistar Institute, Melanoma Series, Philadelphia, PA
- March 2000 Lower Extremity Amputations: Surgical and Rehabilitation Aspect Annual Prosthetic Course, Department of Rehabilitation Medicine, University of Pennsylvania Medical Center, Philadelphia, PA
- March 2000 Current Status of Endovascular Repair of Abdominal Aortic Aneurysms. Surgical Grand Rounds, University of Pennsylvania Medical Center, Philadelphia, PA
- Oct. 2000 Vascular Access For Aortic Stent Graft Placement. 8th Annual Interventional Radiology and Vascular Imaging Conference University of Pennsylvania Medical Center, Philadelphia, PA

Invited University of Miami Lectures:

- October 2008 Carotid Artery Stenting versus Carotid Endarterectomy: Latest Clinical Data Surgical Grand Rounds University of Miami School of Medicine
- July 2008 Updates on EPC, Mobilization and Homing Mechanisms UM Sylvester Comprehensive Cancer Center Miami, FL

- June 2008 Updates on Endovascular Abdominal Aortic Aneurysm Treatments
Surgical Grand Rounds
University of Miami School of Medicine
- April 2008 Advances in Minimally Invasive Techniques for the Treatment for Critical
Limb Ischemia
Peripheral Vascular Case Presentations
Miami International Revascularization Summit
Miami, FL
- January 2008 Endovascular Advances to Treat Critical Limb Ischemia
University of Miami Cardiovascular Center Lecture Series
Miami, FL
- December 2007 Future Therapies of Peripheral Arterial Disease
Cardiovascular Disease Forum Interdisciplinary Conference
Miami, FL

International Invited Lectures:

- April 2009 Carotid Stenosis, CEA vs. CAS.
VII Sao Paulo Meeting of Vascular and Endovascular Surgery
Sao Paulo, Brazil
- April 2009 Endovascular therapies for critical limb ischemia, outcome and complications.
VII Sao Paulo Meeting of Vascular and Endovascular Surgery
Sao Paulo, Brazil
- April 2009 Cellular therapies for critical limb ischemia.
VII Sao Paulo Meeting of Vascular and Endovascular Surgery
Sao Paulo, Brazil
- February 2009 Diabetes and Altered Vascular Repair Responses
Keystone Symposia: Complications of Diabetes and Obesity
Vancouver, British Columbia
- December 2008 Endothelial Progenitor Cells
9th Annual Wound Healing: Science and Industry
St Thomas, Virgin Islands

Peer Reviewed Podium Abstract Presentations:

- March 2008 Subintimal Recanalization of Occlusive Femoropopliteal Lesion.
SCVS 36th Annual Symposium on Vascular Surgery, Las Vegas, NV
- March 2006 Current Strategies to Treat Anomalies of the Aorta and its Branches
In Children

	Society for Clinical Vascular Surgery (SCVS) Annual Meeting, Las Vegas, NV
December 2005	Advances in Critical Limb Ischemia Philadelphia, PA
March 2003	Reduced Graft Junctions with MMS Software-Assisted Centerline Measurements for Abdominal Aortic endograft design. Annual Meeting of Society for Vascular Surgery, Anaheim, CA
June 2001	Overexpression of α_2 and β_3 integrin subunits enhances fibroblast-induced capillary-like differentiation of microvascular endothelial cells. Society of Vascular Surgeons (SVS) Annual Meeting, Toronto, Ontario, Canada
March 2001	Fibroblasts induce differentiation of human microvascular endothelial cell monolayers into capillary-like, three-dimensional networks. Lifeline Foundation Annual Meeting, Bethesda, MD

Organizing Roles in Scientific Meetings:

2008	3 rd Annual Academic Surgical Congress- Moderator
2006/07	Academic Surgical Congress – Research Session Moderator
2006/07	Academic Surgical Congress ‘Best Paper’ Competition - Decision Panel Member
2006/07	Clinical Symposium on Advances in Skin & Wound Care – Planning Panel Member
2005/06	Academic Surgical Congress – Educational Forum Program for the AAS
2005-Present	Association for Academic Surgery – Education Committee Chair
2004	Society of University Surgeons Annual Meeting – Round Table Discussion on Angiogenesis

Patents:

“E-Selectin Alone or in Combination with SDF-1 For Enhancing Wound Healing”

Inventors:

OC Velázquez and Zhao-Jun Liu

Provisional Patent Application filed April 21, 2009 (61/171,271)

“Effect of Estrogen on Diabetic Wound Healing is Mediated Through Increasing the Function but not the Number of Bone Marrow-Derived Endothelial Progenitor Cells” – Inventors: Z. Ying, ZJ Liu, DJ Pincus, MC Cheung, S. Elliot, **OC Velázquez**.

Provisional Patent Application filed May 2009

“Pancreatic Islet Cells Composition and Methods”- Inventors: A. Naji, N. Noorchashm, M. Yu, C. Liu, H. Noorchasm, and **OC Velázquez**.

Provisional Patent Application filed April 10, 2007 (P-9689-USP (201672))

“SDF-1A and HBO2 for treatment of diabetic ulcerations “, Inventors: **OC Velázquez** and Katherine Gallagher

Provisional Patent Application filed March 22, 2007 (P-9680-USP (201621))

“Regulation of human skin healing”, Inventors: M. Herlyn, C. Berking, K. Satyamoorthy and **OC Velázquez**.

Application # 00486.00001; Filed October 11, 2000

VI. TEACHING:

28. Teaching Awards Received:

2003 University of Pennsylvania Center of Excellence Faculty Scholar Award

2002 University of Pennsylvania Center of Excellence Faculty Scholar Award

29. Teaching Specialization

Major Teaching and Clinical Responsibilities at the University of Pennsylvania and Affiliated Hospitals:

1. Periodic Grand Rounds and Surgical Conference presentations
 2. Periodic General Surgery Clinical Teaching Rounds
 3. Periodic Vascular Surgery Clinical Teaching Rounds
 4. Clinical Faculty on the General Surgery and Vascular Surgery– Teaching medical students, surgical residents and fellows, in the operating room, on patient rounds, and by lectures.
 5. Research Mentor for CHAMP high school students through the Center of Excellence on Minority Health, University of Pennsylvania Medical Center.
 6. Faculty for Doctoring I & II course for first and second year, U. of Pennsylvania Medical School
 7. Faculty for Mock Oral Boards, University of Pennsylvania Medical Center.
 8. BE400 Course Mentor
- 2005-pres. Faculty instructor for Excimer Atherectomy Laser.
- 2000-pres. Faculty instructor for Medtronic/World Medical Program for Certification of the Technical Field Support Staff--- for the Talent aortic endograft
- 2000-pres. Faculty instructor for Guidant/EVT for physician training course on the Ancure aortic endograft

30. Thesis and Dissertation Advising/ Post-doctoral student supervision:

1987 Bachelor of Science with High Honors and Thesis
Thesis Title: Sodium Cyanate as a Potential Chemotherapeutic Agent in Cancer Treatment.

VII. SERVICE:

31. University Committee and Administrative Responsibilities:

Research Administrative Responsibilities:

2007-present Principal Investigator

UM Vascular Research Laboratories
RMSB, First floor
Division of Vascular & Endovascular Surgery

Academic Committees at the University of Pennsylvania and Affiliated Hospitals:

2006-2007 Member, UPHS Electronic Medical Record (EMR) Multi-Disciplinary Operations Committee

2002-2007 Member, Clinical Evaluation and Grading Committee, Hospital of the University of Pennsylvania, Philadelphia, PA

2001-2007 Billing Oversight Committee

2001-2007 Resident Selection Committee

1999-2001 Member, Faculty Committee on Reimbursement Communications
Hospital of the University of Pennsylvania, Philadelphia, PA

Academic Committees at the University of Miami and Affiliated Hospitals:

2008- Present Member, Cardiovascular Committee
University of Miami Hospital

2008- Present Advisory Board of Women in Academic Medicine and Leadership
University of Miami School of Medicine

2008- Present Member, Medical Advisory Board
Center of Excellence for Laproscopic and Minimally Invasive Surgery
University of Miami School of Medicine

2008- present Member, Committee on Appointments and Promotions
Department of Surgery
University of Miami School of Medicine

2008-present Member, Planning Committee

Continuing Medical Education Department
University of Miami School of Medicine

- 2008-present Member, Carotid Artery Stenting Oversight Committee
University of Miami Hospital
- 2007 Member, Chairman of Dermatology Search Committee
University of Miami School of Medicine

32. Community Activities:

- 2008 South Florida Health Foundation Grant- Community Vascular Screening Program
- 2007-Present Director, Community Free Ultrasound Vascular Screening Program, Miami, Fl.
- 2007 Betty & Norman Levy Foundation Grant – Community Vascular Screening Program
- 2000 Participated in American College of Surgeons "Young Surgical
Investigators" Conference
- 1997 Guest Speaker at New York Academy of Science- Annual High School
Science Fair- Brooklyn, NY
- 1995 Guest Speaker at National Honor Society Induction Ceremony, Union Hill
High School, Union City, NJ
- 1990 Guest speaker at The Annual Undergraduate Biosciences Research Colloquium,
Stevens Institute of Technology, Hoboken, NJ
- 1987-90 Instructor for the Catechists of Christian Doctrine Program, Saint Augustine R.C.
Church, Union City, NJ
- 1987-89 Founder and President - New Jersey Medical School Christian Medical Society,
UMDNJ, Newark, NJ
- 1987-89 Instructor for the Spanish for the Health Care Provider program. UMDNJ Newark, NJ