

CURRICULUM VITAE

Julio C Palmaz

GENERAL INFORMATION

PERSONAL DATA:

Date of Preparation: 11/12/2012

Address: The University of Texas Health Science Center
Radiology Department
7703 Floyd Curl Drive, MS7800
San Antonio, TX 78229-3900

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EDUCATION:

<u>Year</u>	<u>Degree</u>	<u>Discipline</u>	<u>Institution/Location</u>
1971	M.D.	Radiology	Faculty of Medicine of the National University of La Plata, La Plata, Argentina
1964	B.S.		National College of the University of La Plata, La Plata, Argentina

TRAINING:

Internship

<u>Year</u>	<u>Discipline</u>	<u>Institution/Location</u>
1971-1974	Radiology and Angiography	Rawson Hospital/San Martin Hospital, Buenos Aires/La Plata, Argentina
1969-1971		Faculty of Medicine of the National University of La Plata, La Plata, Argentina

Residency

<u>Year</u>	<u>Discipline</u>	<u>Institution/Location</u>
1977-1980	Diagnostic Radiology	UC Davis at Martinez VA Medical Center, Martinez, CA

ACADEMIC APPOINTMENTS:

01/2006 - Present	Professor and Ashbel Smith Professorship	University of Texas Health Science Center at San Antonio, Department of Radiology, San Antonio, TX
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07/1994 - 12/2005	Chair Endowment S.R. Reuter Professor of Radiology	University of Texas Health Science Center San Antonio, Department of Radiology, San Antonio, TX
09/1989 - Present	Full Professor	University of Texas Health Science Center at San Antonio, Department of Radiology, San Antonio, TX
09/1986 - 08/1989	Associate Professor with Tenure	University of Texas Health Science Center at San Antonio, Department of Radiology, San Antonio, TX
10/1983 - 08/1986	Associate Professor/Clinical	University of Texas Health Science Center at San Antonio, Department of Radiology, San Antonio, TX
01/1981 - 09/1983	Assistant Professor	University of California at Davis, Department of Radiology, Davis, CA
02/1975 - 06/1977	Assistant Professor	University of La Plata, Department of Radiology, La Plata, AR
01/1974 - 01/1975	Instructor	University of La Plata, Department of Radiology, La Plata, AR

NON-ACADEMIC APPOINTMENTS:

07/1999 - 12/2005	Chief of Cardiovascular Research	University of Texas Health Science Center at San Antonio, San Antonio, TX
01/1986 - 06/1999	Director, Cardiovascular Fellowship Program/Research	University of Texas Health Science Center at San Antonio, San Antonio, TX
10/1983 - 06/1999	Chief Angiography and Special Procedures	University of Texas Health Science Center at San Antonio, San Antonio, TX
12/1980 - 09/1983	Head, Angio/Specials	Martinez VA Medical Center, Martinez, CA
02/1975 - 06/1977	Chief, Angiography	San Martin University Hospital, University of La Plata, La Plata, AR
01/1974 - 01/1975	Staff Angiographer	San Martin University Hospital, University of La Plata, La Plata, AR

CERTIFICATION AND LICENSURE:

Certification

<u>Description/Agency</u>	<u>Status</u>	<u>Date Acquired</u>	<u>Number</u>	<u>Expiration</u>
Medicine - CAQ Cardiovascular and Interventional Radiology	Certified	11/1994	n/a	11/2004

Medicine/ Radiology - Diagnostic Radiology	Certified	06/1981	n/a	n/a
VQE		01/1978	n/a	n/a
FLEX		01/1978	n/a	n/a
ECFMG		01/1976	n/a	n/a

License to Practice

<u>Description/Agency</u>	<u>Status</u>	<u>Date Acquired</u>	<u>Number</u>	<u>Expiration</u>
Medicine - Texas State Board		11/1983	G6984	11/2010
Medicine - California State Board		01/1978	A33324	n/a

HONORS AND AWARDS:

02/22/13 National Academy of Inventors Charter Fellow, Induction Ceremony February 22, 2013.

The Selection Committee has chosen members "who have demonstrated a highly prolific spirit of Innovation in creating or facilitating outstanding inventions that have made a tangible impact on Quality of life, economic development, and the welfare of society."

11/2010 Landmark Innovations Award in Interventional Cardiovascular Medicine: Presented at the annual Pulse of the City Gala, New York City, NY. Celebrating the achievements of visionary individuals whose innovative spirit and creative talent have transformed interventional cardiovascular medicine, touching the lives of countless individuals suffering from heart disease and improving patient care around the world.

03/2010 Leaders in Innovation Award: Society of Interventional Radiology (SIR) 35th Scientific meeting, Tampa FLA. March 16th, 2010. This award is intended to recognize and promote innovation within interventional radiology, continuing IR's historical innovative development that has revolutionized medicine over the last 40 years. It acknowledges those individuals who have conceptualized and implemented an idea that has had an advantageous impact on the practice of interventional radiology.

03/2007 2007 Society of Interventional Radiology (SIR) Gold Medal: The SIR's Gold Medal is awarded to a member who has helped ensure the future of interventional radiology by advancing the quality of medicine and patient care. Dr. Palmaz is honored for his invention of the Palmaz-Schatz stent, the first commercially available coronary stent approved for use in 1994.

02/2007 Inaugural Chancellor's Entrepreneurship and Innovation Award, U. of TX Syst: The award was presented at the University of Texas System's first Research & Technology Transfer Showcase in Austin, TX, and featured the most recent inventions created by researchers and scientists from among all 15 UT institutions. Dr. Palmaz was recognized for his outstanding accomplishment in research and innovation for creating the first intravascular stent.

11/2006 Medical Innovation Exhibit at Bob Bullock Texas State History Museum: On-going, long-term exhibit to bestow honor for invention of the Palmaz Stent. Displayed are artifacts, medical devices, text and computer graphics to describe development of the device and its impact on Texas and beyond.

11/2006 BioMed SA Inaugural J. Palmaz Prize: Innovation in Healthcare & Biosciences: Honor bestowed as inventor of the Palmaz Stent, first commercially successful intravascular stent, which gained a U.S. patent in 1988. The Palmaz Stent revolutionized cardiac care and was recognized as one of the "Ten Patents that Changed the World" published in IP Worldwide magazine.

- 10/2006 Phoenix Annual Innovator Award: The Phoenix Awards are presented for outstanding achievement in the medical device and diagnostic industry to individuals and companies selected by industry CEOs.
- 05/2006 Inductee, National Inventors Hall of Fame Foundation: Recognition for inventing the first commercially-successfully intravascular stent, the Palmaz Stent. His stent revolutionized cardiac care, with more than one million people undergoing coronary artery stenting annually to repair clogged arteries.
- 01/2006 Ashbel Smith Professorship: The professorship is named for Ashbel Smith, M.D., pioneering Texas physician who was the first chairman of The University of Texas Board of Regents (1881-1886). This appointment recognizes Dr. Palmaz as a great physician-scientist in the Department of Radiology at the UTHSCSA, and whose invention of the world's first stent has revolutionized cardiology and peripheral vascular medicine.
- 06/2005 Distinguished Scientist of the American Heart Association: This title recognizes the recipient's seminal research work that has importantly advanced the understanding and management of cardiovascular disease or stroke. Selection Committee criteria were novelty, significance, and impact of recipient's research and stature in the field. Title is awarded solely on the basis of scientific contributions.
- 04/2005 Fourth Annual Concepts in Contemporary Cardiology Career Achievement Award: CCC, Houston, TX
- 11/2004 San Antonio Science and Technology Hall of Fame Induction: Inaugural Year Inductee. Stars of Innovation Gala, San Antonio, TX
- 10/2004 Annual Excellence in Surface Science Award: Established by the Surfaces in Biomaterials Foundation to honor outstanding researchers for significant contributions to the field of surface science. Surfaces in Biomaterials Foundation Annual Workshop and Scientific Symposium. Baltimore, MD
- 11/2003 Title Honoris Causa "Maestro de la Cardiologia Intervencionista Argentina": Colegio Argentino de Cardioangiologos Intervencionistas
- 01/2003 Presidential Distinguished Scholar Award: University of Texas Health Science Center at San Antonio
- 01/2003 ISET Innovator Award: Miami, FLA
- 01/2002 ISES Honor Award for Excellence.: International Society of Endovascular Specialists. Phoenix, Arizona
- 11/2001 Cardiovascular Horizons Achievement Award: Cardiovascular Institute of the South / U of Louisiana, Lafayette / University of Texas Health Science Center, San Antonio
- 03/2001 17th Dotter Memorial Lecturer: Society of Cardiovascular, Interventional Radiology
- 01/2001 Extraordinary Professor, University of La Plata: Buenos Aires, Argentina
- 06/2000 Bel Air Lecturer: International Society of Endovascular Specialists Annual Meeting. Bordeaux, France.
- 05/2000 Honorary Corresponding Membership to the German Roentgen Ray Society: Annual Meeting, Wiesbaden
- 02/2000 AHA Gala of Gold Honoree 2000: American Heart Association
- 10/1999 Ramon y Cajal Lecturer: Spanish American Medical Society of New York
- 09/1999 TCT Achievement Award: Transcatheter Cardiovascular Therapeutics Meeting, Washington DC

05/1998 Tenth Series- Judkins Founder's Lecture: Society for Cardiac Angiography and Intervention, Montreal.

01/1998 Charles Tegmeyer Memorial Lecture: Miami Beach, FL

12/1997 Andreas Gruntzig Ethica Award: Best Inventor: Thoraxcenter, Rotterdam

10/1997 Ray C Fish Award for Scientific Achievement in Cardiovascular Disease: Texas Heart Institute

06/1997 Outstanding Texas Inventor: State Bar of Texas

11/1994 Charles T Dotter Memorial Lecture: American Heart Association

TEACHING

OTHER TEACHING:

Group Instruction

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
10/1983 - 06/1999	Clinical Laboratory Instruction <i>Operating Room Instruction for Medical Students, Residents and Postgraduate Fellows, 48 hours/month</i>	University of Texas Health Science Center at San Antonio	

RESEARCH

EXPERTISE:

Cardiovascular Research

PUBLICATIONS: (indicates Peer Reviewed)**

Abstract

- * 1. SPRAGUE EA, Palmaz JC, Fuss C. Atomic force microscopy: A potentially useful tool to characterize vascular stent surfaces 2001. p. S108. (JVIR, Suppl.; vol. 12).
2. Fuss C, Palmaz JC, SPRAGUE EA. PDMS on stent surfaces: Biological significance 2001. p. S84. (JVIR, Suppl.; vol. 12).
- * 3. Susanto I, Anzueto AR, Levine SM, Peters JI, Bukowski D, Cronin T, Palmaz JC, Calhoon JH, Bryan CL. Bronchial complications in single lung (SLT) transplant recipients 1994 Feb. p. 152S. (Chest; vol. 106, no. 2).
4. SPRAGUE EA, Luo J, Palmaz JC. Relative Migration of Cultured Human Aortic

- Endothelial Cells on to Vascular Stent Material Under Static and High Shear Stress Flow Conditions 1994. p. 591-597. (Circulation).
5. SPRAGUE EA, Villarreal Acosta Y, Bailey SR, Palmaz JC. In vitro model to compare endothelialization of vascular prosthetic materials 1993 Jan. p. 1-197. (Circulation; vol. 88, no. 4).
 6. De Gregorio MA, Encarnacion CE, Rivera FJ, Moss J, Lutz J, Laborde JC, Palmaz JC. Palmaz Stent in the Treatment of Renal Artery Stenosis. 1992. p. 28. (Cardiovasc and Interventional Radiology; vol. 15, no. 5).
 7. Holahan PK, SPRAGUE EA, Eagan PA, Smith ST, Meltz ML, Palmaz JC. Alterations in Cell Cycle and LDL Receptor Function in Endothelial Cells after Heat Treatment 1990. p. 853a. (Arteriosclerosis; vol. 10).
 - * 8. Miller DD, Boulet A, Garcia O, Heyl B, Straw J, CHAUDHURI T, Palmaz J, McEver R, Daddona P, Neblock D, Pak K, Berger HJ. Technetium-99m Monoclonal S-12 Antibody Imaging of In Vivo Platelet Activation after Balloon Arterial Injury In An Experimental Atherosclerotic Model 1989. (J Nucl Med; vol. 30, no. 787).
 9. PALMAZ JC, Schatz RA, Richter G, et al. Intraluminal Stenting of Iliac Artery Stenosis: Preliminary Report of a Multicenter Trial 1988. p. 445. (Circulation; vol. 78, no. SII).
 - * 10. PALMAZ JC, Garcia O, Kopp DT, Schatz RA, Tio FO, Ciaravino V. Balloon Expandable Intraluminal Stents: Effect of Anticoagulation on Thrombus Formation 1987. p. 45. (Circulation; vol. 76, no. SIV).
 11. PALMAZ JC, Sibbitt RR, Reuter SR. Experimental Experience with the Palmaz Intraluminal Stent (Abst.) 1987. p. 144. (Ann Rad.; vol. 30).

Book Chapter

1. Palmaz JC, Sprague E.. Development of the Johnson and Johnson Interventional Systems Palmaz and Palmaz-Schatz Stent; Importance of stent geometry, the stent-host interface, and manufacturing processes on stent thrombosis and restenosis In: Textbook of Coronary Stenting. Philadelphia, PA: Elsevier Inc. Edited by Cardiovascular Research Foundation, Gregg W. Stone, MD and Martin B. Leon, M; 2006.
2. Palmaz JC. Influence of stent design on clinical outcome In: Palmaz JC. Minimally invasive therapy and allied technologies. 2002. p. 179 - 183.
3. Palmaz JC. Polymeric vascular graft materials In: Stent-Grafts. Current Clinical Practice. NY: Thieme. Dolmatch B, Blum U editors; 2000.
4. Palmaz JC, Simon C, Sprague EA. Basic principles of vascular prosthetics In: Peripheral Vascular Interventions. SCVIR Syllabus. Society of Cardiovascular and Interventional Radiology. Darcy MD, LaBerge JM (eds); 2000.

5. Palmaz JC. Transluminal Therapy of Abdominal Aortic Aneurysms In: Cardiovascular Interventions. New York: Churchill, Livingstone. Sigwart V, Bertrand M, Serrys PW (eds.); 1996.
6. Palmaz JC. Intravascular Stents: Biomechanics, Physical Properties and Healing and the Experimental Basis of TIPS: Lessons from the Laboratory with the Palmaz Stent In: TIPS, Transjugular Intrahepatic Portocaval Shunts. New York: Igaku-Shoin. Conn HO, Palmaz JC, Rosch J, Rosle M (eds.); 1996.
7. Palmaz JC. Use of the Palmaz Stent in Stenting of the Iliac Arteries In: The Ischemic Extremity. Advances in Treatment. Norwalk, CT: Appleton and Lange. Yao JST, Pearce WH (ed.); 1995.
8. Palmaz JC. Basic Interactions of the Prosthetic-blood Interface In: Stents. State of the Art and Future Developments. Morin Heights, Canada: Polyscience Publications, Inc. Liermann DD (ed); 1995.
9. Palmaz JC. Intraluminal Stents: General Principles In: Peripheral Vascular Interventions. SCVIR Syllabus. Society of Cardiovascular and Interventional Radiology. Darcy MD, LaBerge JM (eds.); 1994.
10. Palmaz JC. Uses of Balloon Expandable Stents in Combination with PTFE In: Vascular and Endovascular Surgical Techniques. WB Saunders. Greenhalgh RM (ed.); 1994. p. 37 - 42.
11. PALMAZ JC, Encarnacion CE, Rivera FJ. Intravascular Stents In: Advances in Vascular Surgery. New York, NY: Mosby. Whittemore AD, Bendyk DF, Cronenvett JL, Hertzner NR, White R (eds.); 1993. p. 107 - 135.
12. Palmaz JC. Intravascular Stents: Experimental Observations and Anatomopathological Correlates In: Percutaneous Revascularization Techniques. Thieme Medical Publishers. Maynard-Moliner M, Castaneda-Zuniga WR, Joffre F, Ollikofer CL (eds.); 1993. p. 286 - 289.
13. Palmaz JC. Interventional Vascular Procedure In: Current Practice of Surgery. Churchill Livingstone. Levine DA, Copeland EM, Howard RJ, Superman HJ, Warshaw AL eds.; 1993. p. 3 - 22.
14. Palmaz JC. Interficial Relationships and Future Design Considerations In: Clinical Use of the Palmaz-Schatz Introcoronary Stent. Futura Publishing. Herrmann HC, Hirshfeld JW (eds.); 1993. p. 183 - 191.
15. Palmaz JC. Transjugular, Intrahepatic Portosystemic Stent Shunt in Patients with Life-threatening Haemorrhage In: Emergency Vascular Surgery. WB Saunders. Greenhalgh RM, Hollier LH (eds.); 1992. p. 55 - 65.
16. Palmaz JC. Transjugular Intrahepatic Portosystemic Stent Shunt In: Bailliere's Clinical Gastroenterology-Interventional Radiology of the Abdomen. Bailliere's Tindall. Adam A, Allison DJ (eds.); 1992. p. 409 - 419.
17. Palmaz JC. Intravascular Stents. In: Stents II. Schnetztor-Verlag. Kollath HJ and Liesmann D (eds.); 1992. p. 162 - 173.

18. Palmaz JC. Overview of Intravascular Stents In: Peripheral Vascular Imaging and Intervention. Mosby Year Book. Kim D and Orron D (eds.); 1992. p. 508
19. Palmaz JC. Balloon expandable Stent Technical Considerations and Anatomopathological Correlates In: Interventional Radiology. Williams and Wilkins. Castaneda-Zuniga W and Tadauearthy SM (eds.); 1992. p. 553 - 556.
20. Miller DD, Rivera RJ, Garcia OJ, Palmaz JC, Bergre HJ, Weisman HF. Imaging of Vascular Injury with Tc-99m labeled Monoclonal Antiplatelet Antibody S-12. Preliminary Experience in human Percutaneous Transluminal Angioplasty In: **Missing Book Title**. 1992. p. 1363
21. Palmaz JC, Rivera FJ, Encarnacion C, Lutz J, Moss J. Transjugular Intrahepatic Portosystemic Stent Shunt in Patients with Life-threatening Hemorrhage. In: Greenhalgh RM and Hollier LH, ed. Emergency Vascular Surgery. W.B. Saunders; 1992.
22. Palmaz JC. The Intravascular Stent: A Concept in Evolution In: Stent Implantationen und Vaskuläre MR-Diagnostik. Springer-Verlag. Friedmann C, Gross-Fengels W and Noufang KFR (eds.); 1991. p. 93 - 99.
23. Palmaz JC. Current Experience with the Intravascular Balloon-expandable Stent in the Peripheral Circulation In: The Maintenance of Arterial Reconstruction. WB Saunders. Greenhalgh RM, Hollier LH (eds.); 1991. p. 243 - 256.
24. Palmaz JC. Intravascular Stents.. In: Interventional Radiology. Uflacker R , Wholey M (ed.). McGraw Hill; 1991. p. 462 - 466.
25. Palmaz JC. Balloon Expandable Stents for Iliac Artery Stenosis and Occlusions In: Current Practice of Interventional Radiology. BC Decker. Kadir S (ed.); 1991.
26. Miller DD, Boulet AJ, Tio FO, Garcia OJ, Guy DM, McEver RP, Palmaz JC. In Vivo Technetium-99m S12 Antibody Imaging of Platelet Alpha-Granules in Rabbit Endothelial Neointimal Proliferation After Angioplasty In: **Missing Book Title**. 1991. p. 224 - 236.
27. Palmaz JC, Encarnacion GC, Garcia OJ, Schatz RA, Rivera RJ, Laborde JC, Dougherty SP. Aortic Bifurcation Stenosis: Treatment with Intravascular Stents In: **Missing Book Title**. 1991. p. 319 - 323.
28. Palmaz JC, Garcia OJ, Schatz RA, Rees CR, Roeren T, Richter GM, Noeldge G, Gardiner GA JR, Becker GJ, Walker EC. Placement of Balloon-expandable Intraluminal Stents in Iliac Arteries: First 171 Procedures In: **Missing Book Title**. 1990. p. 969 - 970.
29. Noeldge G, Richter GM, Sigersterrer V, Garcia OJ, Palmaz JC. Animal Experimental studies on the effect of flow restriction on the Thrombogenicity of the Palmaz Stent Using Indium-marked Thrombocytes. In: **Missing Book Title**. 1990.
30. Lancaster JL, Palmaz JC, Garcia O, Kopp DT, Tio F.O., Ciaravino V, Schatz RA, Rees C, Alvarado R, Borchert RD,. Ballon-expandable Intraarterial Stents: Effect of

Antithrombotic Medication on Thrombus Formation In: Ballon-expandable Intraarterial Stents: Effect of Antithrombotic Medication on Thrombus Formation. Springer-Verlag; 1989.

31. Palmaz JC. Effect of Antithrombotic Medication In: Balloon Expandable Intraarterial Stents. Springer Verlag. E. Zeitler ed.; 1989. p. 170 - 178.
32. Palmaz JC, Garcia OJ, Kopp DT, Schatz RA, Tio FO, Rees CR, Alvarado R, Lancaster JL, Borchert RD, Ciaravino V. Balloon-expandable Intra-arterial Stents: Effect of Anticoagulation on Thrombus Formation In: **Missing Book Title**. Berlin Heidelberg: Springer Verlag; 1989.
33. Rees CR, Palmaz JC, Garcia OJ, Roeren T, Richter G, Gardiner G, Schwarten D, Schatz R, Root H, Rogers W. Angioplasty and Stenting of Completely Occluded Iliac Arteries In: **Missing Book Title**. 1989. p. 953 - 959.
34. Alvarado R, Palmaz JC, Garcia OJ, Tio F, Rees Cr. Evaluation of Polymer-coated Balloon expandable Stents in Bile Ducts In: **Missing Book Title**. 1989. p. 975 - 978.
35. Palmaz JC, Tio FO, Schatz RA, Alvarado R, Rees CR, Garcia OJ. Early Endothelialization of Baloon-expandable Experimental Observations In: **Missing Book Title**. 1988. p. 1 - 6.
36. Rees CR, Palmaz JC, Garcia OJ, Alvarado R. An Evaluation of the Physiologic Effects of Radiographic Contrast Material Injection into the Pulmonary Artery Pulmonary Hypertension Model In: **Missing Book Title**. 1988. p. 184 - 189.
37. Schatx RA, Palmaz JC, Tio FO, Garcia FO, Garcia OJ, Reuter SR. Balloon-expandable Intracoronary Stents in the Adult Dog In: **Missing Book Title**. 1987. p. 450 - 457.
38. Palmaz JC, Koop D, Hayashi H, Schatz RA, Hunter G, Tio FO, Garcia OJ, Alvarado R, Rees C, Thomas SC. Experimental Balloon-expandable Intraluminal Stenting of Normal and Abnormal Renal Arteries In: **Missing Book Title**. 1987. p. 705 - 708.
39. Palmaz JC, Schatz, RA. Development of the Johnson and Johnson Interventional Systems Palmaz and Palmaz-Schatz Stent In: **Missing Book Title**.

Book/Monograph

1. Palmaz J. TIPS. Transjugular Intrahepatic Portosystemic Shunt New York-Tokyo: Igaku Schoin. Conn HO, Palmaz JC, Rosch J, Rossle M (eds); 1996.

Editorial

1. Palmaz JC. Bring that pioneering spirit back! A 25-year perspective on the vascular stent. Cardiovasc Intervent Radiol 2007 Nov;30(6):1095-1098.
2. PALMAZ JC, Sprague EA. Guest Editorial Commentary J. Long Term Effects Med Impl 2000;10:2
3. Palmaz JC. Carotid Stenting: We have Gone Too Far Endovascular Forum 1997 May
4. Palmaz JC, Waltman AC. Dieulafoy disease: a real entity? Radiology 1990 Mar;174(3 Pt):942-942.

Journal Article

1. Palmaz JC. Stewart R Reuter. In Memoriam. JVIR 2012;23:1537-1538
2. Palmaz JC. The Mullins Lecture. The Intravascular stent and the future of device technology. Cath Cardiovasc Intervent 2012;80:713-716.
- * 3. Sprague EA, Palmaz JC. A model system to assess key vascular responses to biomaterials. J Endovasc Ther 2005 Oct;12(5):594-604.
- * 4. Palmaz JC. Intravascular stents in the last and the next 10 years. J Endovasc Ther 2004 Dec;11 Su:200-206.
- * 5. C. E. Banas, C. P. Mullens, A. G. Sammons, J. N. Steinmetz, J. Taber, C. T. Boyle, Marton D, Bailey SR, Sprague EA, Palmaz JC. "New Design Opportunities in the Medical Device Industry Using NiTi Thin Film Technology" SMST-2003 2004:651
6. Palmaz JC, Bailey S, Marton D, Sprague E. Influence of stent design and material composition on procedure outcome. J Vasc Surg 2002 Nov;36(5):1031-1039.
- * 7. Palmaz JC. The 2001 Charles T. Dotter lecture: understanding vascular devices at the molecular level is the key to progress. J Vasc Interv Radiol 2001 Jul;12(7):789-794.
- * 8. Fuss C, Palmaz JC, Sprague EA. Fibrinogen: structure, function, and surface interactions. J Vasc Interv Radiol 2001 Jun;12(6):677-682.
- * 9. Hamuro M, Palmaz JC, Sprague EA, Fuss C, Luo J. Influence of stent edge angle on endothelialization in an in vitro model. J Vasc Interv Radiol 2001 May;12(5):607-611.
- * 10. Chopra S, Dodd GD, Chintapalli KN, Rhim H, Encarnacion CE, Palmaz JC, Esola CC, Ghiatas AA. Transjugular intrahepatic portosystemic shunt: accuracy of helical CT angiography in the detection of shunt abnormalities. Radiology 2000 Apr;215(1):115-122.
- * 11. Sprague EA, Luo J, Palmaz JC. Endothelial cell migration onto metal stent surfaces under static and flow conditions. J Long Term Eff Med Implants 2000;10(1-2):97-110.

- * 12. Richter GM, Palmaz JC, Noeldge G, Tio F. Blood flow and thrombus formation determine the development of stent neointima. J Long Term Eff Med Implants 2000;10(1-2):69-77.
- * 13. Simon C, Palmaz JC, Sprague EA. Influence of topography on endothelialization of stents: clues for new designs. J Long Term Eff Med Implants 2000;10(1-2):143-151.
- * 14. Simon C, Palmaz JC, Sprague EA. Protein interactions with endovascular prosthetic surfaces. J Long Term Eff Med Implants 2000;10(1-2):127-141.
- * 15. Sprague EA, Palmaz JC, Simon C, Watson A. Electrostatic forces on the surface of metals as measured by atomic force microscopy. J Long Term Eff Med Implants 2000;10(1-2):111-125.
- * 16. Benson AE, Palmaz JC, Tio FO, Sprague EA, Encarnacion CE, Josephs SC. Polytetrafluoroethylene-encapsulated stent-grafts: use in experimental abdominal aortic aneurysm. J Vasc Interv Radiol 1999 May;10(5):605-612.
- * 17. Richter GM, Palmaz JC, Noeldge G, Tio F. Relationship between blood flow, thrombus, and neointima in stents. J Vasc Interv Radiol 1999 May;10(5):598-604.
- * 18. Palmaz JC, Benson A, Sprague EA. Influence of surface topography on endothelialization of intravascular metallic material. J Vasc Interv Radiol 1999 Apr;10(4):439-444.
- * 19. Palmaz JC. The current status of vascular intervention in ischemic nephropathy. J Vasc Interv Radiol 1998;9(4):539-543.
- * 20. Palmaz JC. Review of polymeric graft materials for endovascular applications. J Vasc Interv Radiol 1998;9(1 Pt):7-13.
- * 21. Palmaz JC. Biopolymers for Cardiovascular Use Seminars in Interventional Radiology 1998;15:13-19.
- * 22. Chopra S, Ghiatas AA, Encarnacion CE, Esola CC, Chintapalli KN, Palmaz JC, Dodd GD. Transjugular intrahepatic portosystemic shunts: assessment with helical CT angiography. Radiology 1997 Jan;202(1):277-280.
- 23. Palmaz JC. New advances in endovascular technology. Tex Heart Inst J 1997;24(3):156-159.
- * 24. Sprague EA, Luo J, Palmaz JC. Human aortic endothelial cell migration onto stent surfaces under static and flow conditions. J Vasc Interv Radiol 1997;8(1 Pt):83-92.
- * 25. Hoyer MH, Bailey SR, Neill JA, Palmaz JC. Transcatheter retrieval of an embolized Palmaz stent from the right ventricle of a child. Cathet Cardiovasc Diagn 1996 Nov;39(3):277-280.
- * 26. Murphy KD, Richter GM, Henry M, Encarnacion CE, Le VA, Palmaz JC. Aortoiliac aneurysms: management with endovascular stent-graft placement. Radiology 1996 Feb;198(2):473-480.

- * 27. Palmaz F, Sprague E, Palmaz JC. Physical properties of polytetrafluoroethylene bypass material after balloon dilation. J Vasc Interv Radiol 1996;7(5):657-663.
- * 28. Alvarez OA, Lopera GA, Patel V, Encarnacion CE, Palmaz JC, Lee M. Improvement of thrombocytopenia due to hypersplenism after transjugular intrahepatic portosystemic shunt placement in cirrhotic patients. Am J Gastroenterol 1996 Jan;91(1):134-137.
- * 29. Murphy KD, Le VA, Encarnacion CE, Palmaz JC. Transumbilical intravascular retrieval of an umbilical artery catheter. Pediatr Radiol 1995 Nov;25 Su:178-179.
- * 30. Cook PS, Erdoes LS, Selzer PM, Rivera FJ, Palmaz JC. Dissection of the external iliac artery in highly trained athletes. J Vasc Surg 1995 Aug;22(2):173-177.
- * 31. Terry PJ, Houser EE, Rivera FJ, Palmaz JC, Sarosdy MF. Percutaneous aortic stent placement for life threatening aortic rupture due to metastatic germ cell tumor. J Urol 1995 May;153(5):1631-1634.
- * 32. Palmaz JC, Tio FO, Laborde JC, Clem M, Rivera FJ, Murphy KD, Encarnacion CE. Use of stents covered with polytetrafluoroethylene in experimental abdominal aortic aneurysm. J Vasc Interv Radiol 1995;6(6):879-885.
- * 33. Encarnacion CE, Palmaz JC, Rivera FJ, Alvarez OA, Chintapalli KN, Lutz JD, Reuter SR. Transjugular intrahepatic portosystemic shunt placement for variceal bleeding: predictors of mortality. J Vasc Interv Radiol 1995;6(5):687-694.
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Review Article

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PRESENTATIONS:

- 11/1994 Charles T. Dotter Memorial Lecture: Biocompatibility is the Critical Issue in Research and Development of Intravascular Stents, American Heart Association Meeting, AHA, Dallas, TX (Keynote Speaker)
- 11/1994 Relative Migration of Cultured Human Aortic Endothelial Cells onto Vascular Stent Material Under Static High Shear Stress Flow Conditions, American Heart Association Meeting, AHA, Dallas, TX (Co-Presenter)
Details: Sprague EA, Luo J, PALMAZ JC
- 11/1994 Endovascular Stent Graft Bypass of Aorto-Iliac Aneurysm, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)
Details: Murphy KD, Richter GM, Henry M, Encarnacion CE, Le VA, PALMAZ JC
- 11/1993 In Vitro Model to Compare Endothelialization of Vascular Prosthetic Materials, American Heart Association Meeting, AHA, Atlanta, GA (Co-Presenter)
Details: Sprague EA, Acosta YV, Bailey SR, PALMAZ JC
- 11/1992 Influence of Anatomic Distribution of Atherosclerosis in the Outcome of Iliac Revascularization, American Heart Association Meeting, AHA, New Orleans, LA (Co-Presenter)
Details: Laborde JC, Rivera FJ, Encarnacion CE, PALMAZ JC
- 04/1992 Short-term Metabolic Effects of TIPSS in Humans, SCVIR Meeting, SCVIR, Washington, DC (Co-Presenter)
Details: Lutz JD, PALMAZ JC, Rivera FJ, Laborde JC, Moss JG, Encarnacion CE
- 04/1992 TIPSS: Pre- and Post-Procedural Duplex US Evaluation, SCVIR Meeting, SCVIR, Washington, DC (Co-Presenter)
Details: Wagner BJ, Joseph AE, Woodward PJ, Brantley SD, Rivera FJ, Trombly JF, Maupin WB, PALMAZ JC
- 04/1992 Preliminary Evaluation of the Palmaz Balloon Expandable Stent in the Temporal Artery, SCVIR Meeting, SCVIR, Washington, DC (Co-Presenter)
Details: Rivera FJ, Lutz JD, Dougherty SP, PALMAZ JC, et al.
- 04/1992 TIPSS: Follow-up of 42 Patients, SCVIR Meeting, SCVIR, Washington, DC (Co-Presenter)
Details: Noeldge G, Rossle M, Perarneau JM, Richter GM, PALMAZ JC, Wenz W

- 04/1992 Intraluminal Bypass Grafts for Treatment of AAA: Feasibility Study, SCVIR Meeting, SCVIR, Washington, DC (Co-Presenter)
Details: Laborde JC, Clem M, Rivera FJ, Encarnacion CE, Lutz JD, Moss JG, PALMAZ JC
- 12/1991 Three-year Experience with Iliac Artery Stents, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)
Details: PALMAZ JC, Laborde JC, Rivera FJ, Encarnacion CE, Dougherty SP
- 12/1991 Imaging of the Palmaz Stent in the Prosthetic Urethra, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)
Details: Wunderlich CC, Ghiatas AA, Rivera FJ, Tio FO, Clem MF, PALMAZ JC
- 12/1991 Three-year Results of Use of Transjugular Intrahepatic Postsystolic Stent Shunt, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)
Details: Richter GM, Noeldge G, Rossle M, Roeren TH, Kauffmann GW, PALMAZ JC
- 12/1991 Superior Clinical Results of Iliac Stent Placement vs. PTA: Four-year Success Rates of a Randomized Study, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)
Details: Richter GM, Roeren TH, Noeldge G, Landwehr P, Kauffmann GW, PALMAZ JC
- 11/1990 Transluminal Bypass of Experimental Abdominal Aortic Aneurysm, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)
Details: PALMAZ JC, Parodi JC, Baroni HD, et al.
- 11/1990 Renal Artery Stenting: European Experience with a New Type of Palmaz Schatz Two Segment Articulated Stent, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)
Details: Roeren T, Noeldge G, Landwehr T, Gross Fengels W, Mali WPTH, Brambs HJ, PALMAZ JC.
- 11/1990 Palmaz Stenting of Atheromatous Lesions Involving the Ostium of the Renal Artery, American Heart Association Meeting, AHA, Dallas, TX (Co-Presenter)
Details: Rees CR, PALMAZ JC, Becker GJ et al.
- 11/1990 Three Year Experience of Iliac Artery Stenting, American Heart Association Meeting, AHA, Dallas, TX (Co-Presenter)
Details: PALMAZ JC, Garcia OJ.
- 11/1990 Monoclonal S 12 Antiplatelet Antibody Imaging Predicts Angiographic Patency and Intimal Repair Following Intravascular Stent Placement, American Heart Association Meeting, AHA, Dallas, TX (Co-Presenter)
Details: Miller DD, Guy DM, Tio FO, PALMAZ JC, et al.

- 11/1990 Polymer Coating of Palmaz Schatz Stent Avoids Vascular Spasm After Stent Placement, American Heart Association Meeting, AHA, Dallas, TX (Co-Presenter)
Details: Bailey SR, Guy DM, Garcia OJ, Paige S, PALMAZ JC, Miller DD.
- 11/1990 Platelet Activation at Human Angioplasty Sites: Non invasive Detection by a Specific S 12 Monoclonal Antibody Imaging, American Heart Association Meeting, AHA, Dallas, TX (Co-Presenter)
Details: Miller DD, PALMAZ JC, Garcia OJ, et al.
- 06/1989 Tc 99m Monoclonal S 12 Antibody Imaging of In Vivo Platelet Activation After Balloon Arterial Injury in an Experimental Atherosclerotic Model, SNM 36th Annual Meeting, The Society of Nuclear Medicine,, St. Louis, MO (Co-Presenter)
Details: Miller DD, Boulet A, Garcia O, Heyl B, Straw J, Chaudhuri T, PALMAZ JC, et al.
- 01/1989 Percutaneous Vascular Grafting with a Coated Stent, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)
Details: Roeren T, PALMAZ JC, Garcia OJ, Rees CR, Tio FO.
- 01/1989 Restenosis of the Renal Artery After Angioplasty: Treatment with the Palmaz balloon expandable stent, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)
Details: Rees CR, PALMAZ JC, Richter GM et al.
- 01/1989 Prospective Evaluation of Physical Examination of Penetrating Trauma of the Extremities, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)
Details: Rogers PJ, Rees CR, PALMAZ JC, Roeren T.
- 01/1989 Balloon expandable Endo-vascular Stents in Experimental Coarctation of the Aorta, American Heart Association Meeting, AHA, New Orleans, LA (Co-Presenter)
Details: Morrow WR, Smith VC, Ehler WJ, PALMAZ JC, Mullins CE.
- 01/1989 Monoclonal S 12 Antibody Imaging of In Vivo Platelet Activation After Interventional Procedures in Atherosclerotic Rabbit Arteries, American Heart Association Meeting, AHA, New Orleans, LA (Co-Presenter)
Details: Miller DD, Boulet A, Garcia O, Heyl B, PALMAZ JC, et al.
- 01/1989 Balloon expandable Intraluminal Stenting of Iliac Artery Stenosis or Occlusion, ICR Meeting, ICR, Paris, FR (Co-Presenter)
Details: PALMAZ JC, Richter GM, Noeldge G, Roeren T.
- 01/1989 Transjugular Intrahepatic Portocaval Stent Shunt (TIPSS), RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)

Details: Richter GM, Noeldge G, Roessle M, Segerstteter V, PALMAZ JC.

01/1989 Improved Angioplasty Hemodynamics After Palmaz Vascular Stent Placement, American Heart Association Meeting, AHA, New Orleans, LA (Co-Presenter)

Details: Bonn J, Gardiner GA, PALMAZ JC, et al.

01/1989 Palmaz Stents for Angioplasty induced Iliac Artery Dissections, American Heart Association Meeting, AHA, New Orleans, LA (Co-Presenter)

Details: Becker GJ, PALMAZ JC, Rees CR et al.

01/1989 Balloon Expandable Intervascular Stents in Pulmonary Arteries and Systemic Veins. Report of Long term Follow up, ACR Meeting, ACR, Anaheim, CA (Co-Presenter)

Details: McIrvin DM Myers T, Kearuey DL, Schatz RA, PALMAZ JC.

01/1989 Evaluation of Aortic Implantation and Redilatation of Balloon Expandable Intravascular Stents in Juvenile Minipigs, ACR Meeting, ACR, Anaheim, CA (Co-Presenter)

Details: Vick WG, O'Laughlin M, Myers T, Nakatini T, PALMAZ JC.

11/1988 Intraluminal stenting of iliac artery stenosis: Preliminary Report of a Multicenter Trial, 61st Scientific Session of the AHA Meeting, AHA, Washington, DC (Co-Presenter)

Details: PALMAZ JC, Schatz RA, Richter G, et al.

04/1988 Rapid Bolus, Small Volume Injections of Undiluted Contrast Material in Intra Aortic DSA, 36th Annual Meeting of the Association of University Radiologists, AUR, New Orleans, LA (Co-Presenter)

Details: Rees CR, Alvarado R, PALMAZ JC, Reuter SR.

04/1988 Use of an Iliac Arterial Intraluminal Stent Alone and in Combination with Femoral Popliteal Bypass, 40th Annual Meeting of the Southwestern Surgical Congress, SSC, Phoenix, AZ (Co-Presenter)

Details: Robison PD, PALMAZ JC, Root HD, Rogers W.

03/1988 A New Expandable Metallic Biliary Stent, 13th Annual Meeting of the Society of Cardiovascular and Interventional Radiology, SCVIR, Orlando, FL (Co-Presenter)

Details: Alvarado R, PALMAZ JC, Garcia O, Tio FO, Rees CR.

01/1988 Vascular Stent Implantation for Treatment of Persistent, Severe Hypertension After Unsuccessful Renal Angioplasty, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)

Details: Richter G, PALMAZ JC, Noeldge G, Rees C, Grosser G, Schollmeyer P.

01/1988 Balloon Expandable Stenting of Completely Occluded Iliac Arteries, RSNA Meeting, RSNA, Chicago, IL (Co-Presenter)

Details: Rees CR, Richter G, Schatz RA, Gardiner G, PALMAZ JC.

11/1987 Balloon Expandable Intraarterial Stents: Effect of Anticoagulation on Thrombus Formation, 60th Scientific Session of the American Heart Association, AHA, Anaheim, CA (Co-Presenter)

Details: PALMAZ JC, Garcia OJ, Kopp DT, Schatz RA, Tio FO, Ciaravino V.

05/1987 Balloon Expandable Intraluminal Stent: Application to Small Arteries, International Meeting of Cardiovascular and Interventional Radiology, Porto Cervo, (Emerald Coast) Sardinia, IT (Co-Presenter)

Details: PALMAZ JC, Garcia OJ, Schatz R, Alvarado R, Rees C, Reuter S.

03/1987 An Evaluation of the Physiologic Effects of Ionic and Non ionic Contrast Media Injection into the Pulmonary Arteries of an Acute Dog Pulmonary Hypertension Model, AJR Meeting, AJR, Charleston, SC (Co-Presenter)

Details: Rees C, PALMAZ JC, Alvarado R, Garcia GJ, Siegle RL.

03/1987 Implantation of Balloon Expandable Intervascular Grafts by Catheterization in Pulmonary Arteries and Systemic Veins, American College of Cardiology Meeting, ACC, New Orleans, LA (Co-Presenter)

Details: O'Laughlin MP, Vick G, Mayer D, Schatz RA, PALMAZ JC, et al.

01/1987 Evaluation of Polymer Coated Balloon Expandable Stents in Bile Ducts, 73rd Scientific Assembly and Annual Meeting of the Radiological Society of, RSNA, Chicago, IL (Co-Presenter)

Details: Alvarado R, PALMAZ JC, Garcia OJ, Tio FO, Rees CR, Schwesinger W, Schatz RA.

01/1987 An In Vitro and Clinical Evaluation of DSA in Acute Gastrointestinal Bleeding, 73rd Scientific Assembly and Annual Meeting of the Radiologic Society of North America, RSNA, Chicago, IL (Co-Presenter)

Details: Rees CR, PALMAZ JC, Alvarado R, Reuter S.

11/1986 Balloon Expandable Intracoronary Stents in Dogs, American Heart Assoc. Meeting, AHA, Dallas, TX (Co-Presenter)

Details: Schatz RA, PALMAZ JC, Garcia F, Tio F, Reuter S.

11/1986 Simultaneous Angioplasty and Intraluminal Grafting with the Palmaz Expandable Intraluminal Stent, RSNA Meeting, RSNA (Co-Presenter)

Details: Becker GJ, Rees C, Hookman LD, Mail JT, Klatte EC, PALMAZ JC, et al.

11/1986 Balloon Expandable Intraluminal Grafting of Normal and Abnormal Renal Arteries, RSNA Meeting, RSNA (Co-Presenter)

Details: PALMAZ JC, Hayashi H, Schatz RA, Hunter G, Tio FO, Garcia O.

- 09/1986 Balloon Expandable Intra-vascular Grafts, International Symposium on Interventional Cardiology (Co-Presenter)
Details: *Schatz R, PALMAZ JC, Tio FO, Garcia O, Reuter SR.*
- 11/1985 Expandable Intraluminal Grafting of Atherosclerotic Rabbit Aortas, Radiological Society of North America Meeting, RSNA, Chicago, IL (Invited Speaker)
Details: *PALMAZ JC*
- 05/1985 Experimental Experience with the Palmaz Intraluminal Stent, SCVIR Meeting, SCVIR, Jerusalem, IS (Co-Presenter)
Details: *PALMAZ JC, Sibbitt RR, Reuter SR. Published in Annals de Radiologie.*
- 05/1985 The Affect of Lumbar Sympathectomy on Post synaptic Vascular Smooth Muscle Response in the Lower Limbs in Dogs., Assn. of University Radiologists' Meeting, AUR, Nashville, TN (Co-Presenter)
Details: *D'Alessander KM, Lantz BMT, PALMAZ JC*
- 04/1985 Expandable Intraluminal Portocaval Graft: An Experimental Study, American Roentgen Ray Society Meeting, ARRS, Boston, MA (Co-Presenter)
Details: *PALMAZ JC, Sibbitt RR, Reuter SR*
- 01/1985 Vasoactive Response in Post synaptic Vascular Smooth Muscle, 9th Annual Surgical Symposium of, Tampa, FL (Co-Presenter)
Details: *D'Alessander KM, Lantz BMT, PALMAZ JC*
- 11/1984 Expandable Intraluminal Graft: A Preliminary Study, Radiological Society of North America Meeting, RSNA, Washington, DC (Co-Presenter)
Details: *PALMAZ JC, Sibbitt RR, Reuter SR, Tio FO, Rice WJ*
- 10/1984 Ulnar Nerve Radiography in the Cubital Tunnel Syndrome, Clinical Congress of the American College of Surgeons, ACS, San Francisco, CA (Co-Presenter)
Details: *St. John JN, PALMAZ JC*
- 05/1984 Hemodynamics of Abdominal Aortic Atherosclerosis. Reflected and Standing Waves, Assn. of University Radiologists' Meeting, AUR, Newport Beach, CA (~*~)
Details: *Weinshelbaum A, Hunter G, PALMAZ JC, et al*
- 05/1983 Recurrence of Femoral Anastomotic Aneurysms, Northwestern Surgical Society Meeting, NSS (Co-Presenter)
Details: *Carson SN, Hunter G, PALMAZ JC. Published in Arch Surg*

05/1983 Computed Tomography of the Hypothalamus, International Symposium of CD, NMR and Other Computer Assisted Imaging Techniques, San Francisco, CA (Co-Presenter)

Details: Nakada T, Kwee II, PALMAZ JC

02/1983 Subluxation and Osteophytosis in Cubital Tunnel Syndrome, Meeting of Western Societies of Neuroradiological Science, WSNS, Los Angeles, CA (Co-Presenter)

Details: St. John JN, PALMAZ JC

01/1983 Metrizamide Computed Tomography in Degenerative Disease: Overuse or Underuse?, 6th Annual Meeting of the American Society of Neuroimaging, ASN, AZ (Co-Presenter)

Details: Nakada T, Kwee IL, PALMAZ JC

01/1981 Aspiration of Autologous Blood. Experimental Observations in Dog Lungs, XVth International Congress of Radiology, Brussels, BE (Co-Presenter)

Details: Reich SB, PALMAZ JC

RESEARCH GRANTS:

Federal

Project #:

Funding Agency: VA Merit Review Board

Title: Percutaneous transluminal angioplasty in neointimal fibromuscular hyperplasia.

Status:

Period: 02/1984 - Present

Role: Principal Investigator

% Effort:

Total Costs: \$64,500.00

Grant Detail:

Project #:

Funding Agency: RAAG Proposal

Title: Evaluation of peripheral vascular disease by videodensitometric flow measurements

Status:

Period: 05/1982 - Present

Role: Principal Investigator

% Effort:

Total Costs: \$21,600.00

Grant Detail:

Project #:

Funding Agency: FDA

Title: multicenter trials involving FDA supervised protocols

Status: Active

Period: / - Present

Role: Principal Investigator **% Effort:**

Total Costs:

Grant Detail:

Private

Project #:

Funding Agency: Abbott

Title: Abbott Thrombolysis research grant

Status: Complete

Period: 01/2003 - 12/2004

Role: Co-Investigator **% Effort:**

Total Costs: \$88,000.00

Grant Detail:

Project #:

Funding Agency: Johnson&Johnson

Title: Royalty income to UTHSCSA

Status: Complete

Period: 01/1997 - 12/2003

Role: Co-Investigator **% Effort:**

Total Costs: \$8,400,000.00

Grant Detail:

Project #:

Funding Agency: SCVIR

Title: SCVIR Thrombolysis Trial

Status: Complete

Period: 01/1992 - 12/1993

Role: Co-Investigator **% Effort:**

Total Costs: \$70,000.00

Grant Detail:

Project #:

Funding Agency: Johnson and Johnson

Title: J&J educational fund

Status: Complete

Period: 01/1990 - 12/1991

Role: Co-Investigator **% Effort:**

Total Costs: \$160,000.00

Grant Detail:

Project #:

Funding Agency: SCVIR

Title: SCVIR Registry Grant

Status: Complete

Period: 01/1990 - 12/1991

Role: Co-Investigator

% Effort:

Total Costs: \$40,000.00

Grant Detail:

Project #:

Funding Agency: Johnson & Johnson

Title: Johnson & Johnson

Status: Complete

Period: 01/1987 - 12/1992

Role: Co-Investigator

% Effort:

Total Costs: \$840,000.00

Grant Detail:

Project #:

Funding Agency: Romano Enterprises

Title: Romano Enterprises

Status:

Period: 01/1986 - 12/1987

Role: Co-Investigator

% Effort:

Total Costs: \$110,000.00

Grant Detail:

Project #:

Funding Agency:

Title: Cook Inc., donation

Status: Complete

Period: 01/1985 - 12/1986

Role: Co-Investigator

% Effort:

Total Costs: \$10,000.00

Grant Detail:

Project #:

Funding Agency: T GAUO 206 0

Title: Percutaneous intravascular stenting

Status: Complete

Period: / - Present
Role: Co-Investigator **% Effort:**
Total Costs:
Grant Detail:

State

Project #:
Funding Agency: UTHSCSA Institutional Grant
Title: Percutaneous expandable portocaval stents in dogs with chronic portal hypertension
Status:
Period: 08/1985 - Present
Role: Principal Investigator **% Effort:**
Total Costs: \$6,000.00
Grant Detail:

Project #:
Funding Agency: UTHSCSA Institutional Grant
Title: Expandable intraluminal vascular graft
Status:
Period: 09/1984 - Present
Role: Principal Investigator **% Effort:**
Total Costs: \$6,000.00
Grant Detail:

PATENTS:

<u>Patent Date</u>	<u>Description</u>	<u>Patent Category</u>
02/2010	Implantable medical grafts (10) fabricated of metallic or pseudometallic films of biocompatible materials having a plurality of microperforations (20) passing through the film in a pattern that imparts fabric-like qualities to the graft or permits the geometric deformation of the graft. The implantable graft is preferably fabricated by vacuum deposition of metallic and/or pseudometallic materials into either single or multi-layered structures with the plurality of microperforations either being formed during deposition or after deposition by selective removal of sections of the deposited film. The implantable medical grafts are suitable for use as endoluminal or surgical grafts and may be used as vascular grafts, stent-grafts, shunts, bone grafts, surgical patches, non-vascular conduits, valvular leaflets, filters, occlusion membranes, artificial sphincters, tendons and ligaments. , Patent#: CA2456697, Co-Inventor(s): PALMAZ, JULIO C. (United States of America)	
01/2010	An implantable endoluminal device that is fabricated from materials that present a blood or body fluid and tissue contact surface that has controlled	

heterogeneities in material constitution. An endoluminal stent-graft and web-stent that is made of a monolithic material deposited into a monolayer and etched into regions of structural members and web regions subtending interstitial regions between the structural members. An endoluminal graft is also provided which is made of a biocompatible metal or metal-like material. The endoluminal stent-graft is characterized by having controlled heterogeneities in the stent material along the blood flow surface of the stent and the method of fabricating the stent using vacuum deposition methods. , Patent#: 7,641,680, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX), Boyle; Christopher T. (San Antonio, TX), Banas; Christopher E. (Breckenridge, TX), Wiseman; Roger W. (Bulverde, TX), Marton; Denes (San Antonio, TX)

- 01/2010 Implantable medical grafts fabricated of metallic or pseudometallic films of biocompatible materials having a plurality of microperforations passing through the film in a pattern that imparts fabric-like qualities to the graft or permits the geometric deformation of the graft. The implantable graft is preferably fabricated by vacuum deposition of metallic and/or pseudometallic materials into either single or multi-layered structures with the plurality of microperforations either being formed during deposition or after deposition by selective removal of sections of the deposited film. The implantable medical grafts are suitable for use as endoluminal or surgical grafts and may be used as vascular grafts, stent-grafts, skin grafts, shunts, bone grafts, surgical patches, non-vascular conduits, valvular leaflets, filters, occlusion membranes, artificial sphincters, tendons and ligaments. , Patent#: 7,641,682, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX), Boyle; Christopher T. (San Antonio, TX)
- 12/2009 An implantable endoluminal device which is fabricated from materials which present a blood or body fluid and tissue contact surface which has controlled heterogeneities in material constitution. An endoluminal stent which is made of a material having controlled heterogeneities in the stent material along the blood flow surface of the stent and the method of fabricating the stent using vacuum deposition methods. , Patent#: 7,625,594, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX), Sprague; Eugene A. (San Antonio, TX), Simon; Cristina (San Antonio, TX), Marton; Denes (San Antonio, TX), Wiseman; Roger W. (Bulverde, TX), Banas; Christopher E. (San Antonio, TX)
- 02/2009 An implantable endoluminal device that is fabricated from materials that present a blood or body fluid and tissue contact surface that has controlled heterogeneities in material constitution. An endoluminal stent-graft and web-stent that is made of a monolithic material deposited into a monolayer and etched into regions of structural members and web regions subtending interstitial regions between the structural members. An endoluminal graft is also provided which is made of a biocompatible metal or metal-like material. The endoluminal stent-graft is characterized by having controlled heterogeneities in the stent material along the blood flow surface of the stent and the method of fabricating the stent using vacuum deposition methods. , Patent#: 7,491,226, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX), Boyle; Christopher T. (San Antonio, TX), Banas; Christopher E. (San Antonio, TX), Wiseman; Roger W. (Bulverde, TX), Marton; Denes (San Antonio, TX)
- 03/2008 An implantable endoluminal device which is fabricated from materials which present a blood or body fluid and tissue contact surface which has controlled heterogeneities in material constitution. An endoluminal stent which is made of a material having controlled heterogeneities in the stent material along the blood flow surface of the stent and the method of fabricating the stent using vacuum deposition methods. , Patent#: CA 2390942, Co-Inventor(s): PALMAZ, JULIO C. (United States of America) SPRAGUE, EUGENE A. (United States of America) SIMON, CRISTINA (United States of America) MARTON, DENES (United States of America) WISEMAN, ROGER W. (United States of America) BANAS,

CHRISTOPHER E. (United States of America)

- 11/2007 Implantable medical grafts fabricated of metallic or pseudometallic films of biocompatible materials having a plurality of microperforations passing through the film in a pattern that imparts fabric-like qualities to the graft or permits the geometric deformation of the graft. The implantable graft is preferably fabricated by vacuum deposition of metallic and/or pseudometallic materials into either single or multi-layered structures with the plurality of microperforations either being formed during deposition or after deposition by selective removal of sections of the deposited film. The implantable medical grafts are suitable for use as endoluminal or surgical grafts and may be used as vascular grafts, stent-grafts, skin grafts, shunts, bone grafts, surgical patches, non-vascular conduits, valvular leaflets, filters, occlusion membranes, artificial sphincters, tendons and ligaments. , Patent#: 7,300,457, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX)
- 06/2007 Implantable medical devices, including stents, grafts, covered stents, catheters, patches or the like having regions of the device which are functionalized employing microelectromechanical systems that are capable of acting as electromechanical sensors or biosensors in response to either an endogenous event, such as tissue growth, biochemical binding events, pressure changes, or respond to an externally applied stimulus, such as RF energy, to cause a change in the state of the device, such as to induce an oscillation signal which may be interrogated and interpreted external the body or may generate an induced electrical or electromagnetic potential in the device to activate micromotors to effect a geometric change in the device. , Patent#: 7,235,098, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX)
- 03/2007 This invention relates to improvements in prosthetic cardiac and venous valves and implantable medical devices having moveable septa. The inventive prosthetic cardiac and venous valves have metallic or pseudometallic valves coupled to metallic or pseudometallic stents that permit percutaneous delivery of the devices. , Patent#: 7,195,641, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX), Sprague; Eugene A. (San Antonio, TX), Fuss; Cristina (San Antonio, TX), Marton; Denes (San Antonio, TX), Wiseman; Roger W. (Bulverde, TX), Banas; Christopher E. (San Antonio, TX), Boyle; Christopher T. (San Antonio, TX), Bailey; Steven R. (San Antonio, TX)
- 02/2006 Implantable medical grafts fabricated of metallic or pseudometallic films of biocompatible materials having a plurality of microperforations passing through the film in a pattern that imparts fabric-like qualities to the graft or permits the geometric deformation of the graft. The implantable graft is preferably fabricated by vacuum deposition of metallic and/or pseudometallic materials into their single or multi-layered structures with the plurality of microperforations either being formed during deposition or after deposition by selective removal of sections of the deposited film. The implantable medical grafts are suitable for use as endoluminal or surgical grafts and may be used as vascular grafts, stent-grafts, skin grafts, shunts, bone grafts, surgical patches, non-vascular conduits, valvular leaflets, filters, occlusion membranes, artificial sphincters, tendons and ligaments., Patent#: EP1620047 (A2), Co-Inventor(s): BANAS CHRISTOPHER E [US]; PALMAZ JULIO C [US]
- 08/2005 Implantable medical grafts fabricated of metallic or pseudometallic films of biocompatible materials having a plurality of microperforations passing through the film in a pattern that imparts fabric-like qualities to the graft or permits the geometric deformation of the graft. The implantable graft is preferably fabricated by vacuum deposition of metallic and/or pseudometallic materials into either single or multi-layered structures with the plurality of microperforations either being formed during deposition or after deposition by selective removal of sections of the deposited film. The implantable medical grafts are suitable for

- use as endoluminal or surgical grafts and may be used as vascular grafts, stent-grafts, skin grafts, shunts, bone grafts, surgical patches, non-vascular conduits, valvular leaflets, filters, occlusion membranes, artificial sphincters, tendons and ligaments. , Patent#: 6,936,066, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX), Boyle; Christopher T. (San Antonio, TX)
- 01/2005 The invention relates to an intravascular stent wherein the intravascular stent has its inner surface treated to promote the migration of endothelial cells onto the inner surface of the intravascular stent. Particularly, the inner surface of the intravascular stent includes at least one groove. Methods for manufacturing the intravascular stent are also disclosed. , Patent#: CA 2308177, Co-Inventor(s): PALMAZ, JULIO C. (United States of America) SPRAGUE, EUGENE A. (United States of America)
- 11/2004 An implantable endoluminal device which is fabricated from materials which present a blood or body fluid and tissue contact surface which has controlled heterogeneities in material constitution. An endoluminal stent which is made of a material having controlled heterogeneities in the stent material along the blood flow surface of the stent and the method of fabricating the stent using vacuum deposition methods. , Patent#: 6,820,676, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX), Sprague; Eugene A. (San Antonio, TX), Simon; Cristina (San Antonio, TX), Marton; Denes (San Antonio, TX), Wiseman; Roger W. (Bulverde, TX), Banas; Christopher E. (San Antonio, TX)
- 05/2004 Balloon catheter having metal balloon and method of making same, Patent#: 6,733,513, Co-Inventor(s): Boyle; Christopher T. (San Antonio, TX); Bailey; Steven R. (San Antonio, TX); Banas; Christopher E. (San Antonio, TX); Palmaz; Julio C. (San Antonio, TX) Not Specified
- 11/2003 The invention relates to methods and apparatus for manufacturing intravascular stents wherein the intravascular stent has its inner surface treated to promote the migration of endothelial cells onto the inner surface of the intravascular stent. In particular, the inner surface of the intravascular stent has at least one groove formed therein., Patent#: EP1359865 (A2), Co-Inventor(s): PALMAZ JULIO C [US]; SPRAGUE EUGENE A [US]; BANAS CHRISTOPHER E [US] + (PALMAZ, JULIO, C. ; SPRAGUE, EUGENE, A. ; BANAS, CHRISTOPHER, E)
- 09/2003 Implantable materials having engineered surfaces and method of making same, Patent#: AU 2003272710, Co-Inventor(s): Sprague, Eugene A. ; Palmaz, Julio C.
- 06/2003 Method and apparatus for bilateral intra-aortic bypass, Patent#: RE38,146, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX); LaBorde; Jean C. (Toulouse Cedex, FR) Not Specified
- 03/2003 Endoluminal implantable devices and method of making same, Patent#: 6,537,310, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX); Boyle; Christopher T. (San Antonio, TX); Banas; Christopher E. (San Antonio, TX); Wiseman; Roger W. (Bulverde, TX); Marton; Denes (San Antonio, TX) Not Specified
- 01/2003 An implantable endoluminal device that is fabricated from materials that present a blood or body fluid tissue contact surface that has controlled heterogeneities in material constitution. An endoluminal stent-graft and web-stent that is made of an monolithic material deposited into a monolayer and etched into regions of structural members and web regions subtending interstitial regions between the structural members. An endoluminal graft is also provided which is made of a biocompatible metal or metal-like material. The endoluminal stent-graft is characterized by having controlled heterogeneities in the stent material along the blood flow surface of the stent and the method of fabricating the stent using vacuum deposition methods., Patent#: EP1267749 (A2), Co-Inventor(s): PALMAZ JULIO C [US]; BOYLE CHRISTOPHER T [US]; BANAS CHRISTOPHER E [US]; WISEMAN ROGER W [US]; MARTON DENES [US] + (PALMAZ, JULIO, C. ; BOYLE, CHRISTOPHER, T. ; BANAS, CHRISTOPHER,

E, ; WISEMAN, ROGER, W, ; MARTON, DENES)

08/2002 An implantable endoluminal device which is fabricated from materials which present a blood or body fluid and tissue contact surface which has controlled heterogeneities in material constitution. An endoluminal stent which is made of a material having controlled heterogeneities in the stent material along the blood flow surface of the stent and the method of fabricating the stent using vacuum deposition methods., Patent#: EP1233725 (A1), Co-Inventor(s): PALMAZ JULIO C [US]; SPRAGUE EUGENE A [US]; SIMON CHRISTINA [US]; MARTON DENES [US]; WISEMAN ROGER W [US]; BANAS CHRISTOPHER E [US] + (PALMAZ, JULIO, C, ; SPRAGUE, EUGENE, A, ; SIMON, CHRISTINA, ; MARTON, DENES, ; WISEMAN, ROGER, W, ; BANAS, CHRISTOPHER, E)

08/2002 , Patent#: AU 2002321909, Co-Inventor(s): Palmaz, Julio C.

07/2002 , Patent#: AU 2002323009, Co-Inventor(s): Banas, Christopher E. ; Boyle, Christopher T. ; Palmaz, Julio C. ; Bailey, Steven R.

07/2002 , Patent#: AU 2002319631, Co-Inventor(s): Fuss, Christina ; Banas, Christopher E. ; Boyle, Christopher T. ; Marton, Denes ; Sprague, Eugene A. ; Palmaz, Julio C. ; Wiseman, Roger W. ; Bailey, Steven R.

04/2002 Endoluminal device exhibiting improved endothelialization and method of manufacture thereof, Patent#: 6,379,383, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX); Sprague; Eugene A. (San Antonio, TX); Simon; Cristina (San Antonio, TX); Marton; Denes (San Antonio, TX); Wiseman; Roger W. (Bulverde, TX); Banas; Christopher E. (San Antonio, TX) Not Specified

05/2001 , Patent#: AU 2001264750, Co-Inventor(s): Banas, Christopher E ; Sprague, Eugene A. ; Palmaz, Julio C.

03/2001 , Patent#: AU 2001245884, Co-Inventor(s): Banas, Christopher E ; Boyle, Christopher T. ; Marton, Denes ; Palmaz, Julio C. ; Wiseman, Roger W

02/2001 Intravascular stent and method for manufacturing an intravascular stent, Patent#: 6,190,404, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX); Sprague; Eugene A. (San Antonio, TX) Not Specified

11/2000 , Patent#: AU 783336, Co-Inventor(s): Palmaz, Julio C. ; Sprague, Eugene A. ; Simon, Christina ; Marton, Denes ; Wiseman, Roger W ; Banas, Christopher E

08/2000 The invention relates to an intravascular stent wherein the intravascular stent has its inner surface treated to promote the migration of endothelial cells onto the inner surface of the intravascular stent. Particularly, the inner surface of the intravascular stent includes at least one groove. Methods for manufacturing the intravascular stent are also disclosed., Patent#: EP1028672 (A1), Co-Inventor(s): PALMAZ JULIO C [US]; SPRAGUE EUGENE A [US] + (PALMAZ, JULIO, C, ; SPRAGUE, EUGENE, A)

11/1998 , Patent#: AU 749980, Co-Inventor(s): Palmaz, Julio C. ; Sprague, Eugene A.

11/1997 Apparatus for bilateral intra-aortic bypass, Patent#: 5,683,453, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX) Not Specified

11/1997 Method for repairing an abdominal aortic aneurysm, Patent#: 5,683,452, Co-Inventor(s): Barone; Hector D. (Maza 1869/73, Buenos Aires, AR); Palmaz; Julio C. (636 Ivy La., San Antonio, TX 78209); Parodi; Juan C. (Mercedes 4255, Buenos Aires, AR) Not Specified

08/1997 Apparatus for occluding vessels, Patent#: 5,656,036, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX) Not Specified

11/1996 Aortic graft and apparatus for repairing an abdominal aortic aneurysm, Patent#: 5,578,072, Co-Inventor(s): Barone; Hector D. (Maza 1869/73, Buenos Aires, AR); Parodi; Juan C. (Mercedes 4255, Buenos Aires, AR); Palmaz; Julio C. (636 Ivy La., San Antonio, TX 78209) Not Specified

11/1996 Method for repairing an artery in a body, Patent#: 5,571,171, Co-Inventor(s): Barone; Hector D. (Maza 1869/73, Buenos Aires 1240, AR); Palmaz; Julio C. Not Specified

	(636 Ivy La., San Antonio, TX 78209); Parodi; Juan C. (Mercedes 4255, 1419 Buenos Aires, AR)	
11/1996	Method and apparatus for bilateral intra-aortic bypass, Patent#: 5,571,170, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX); LaBorde; Jean C. (Montpellier, FR)	Not Specified
06/1996	Method for repairing an abdominal aortic aneurysm, Patent#: 5,522,880, Co-Inventor(s): Barone; Hector D. (Maza 1869/73, Buenos Aires, AR); Parodi; Juan C. (Mercedes 4255, Buenos Aires, AR); Palmaz; Julio C. (636 Ivy La., San Antonio, TX 78209)	Not Specified
08/1995	A graft for intraluminal delivery into a body passageway such as an aorta is described. The graft comprises an elongate tube (160) formed of a plurality of expandable and deformable first tubular members (201) aligned with their longitudinal axes parallel to each other. Each tubular member (201) may be detached and spaced apart from adjacent tubular members. Alternatively, adjacent tubular members (201) may be connected by a flexible connector member disposed between the tubular members. The plurality of tubular members (201) is embedded within a layer (202) of a deformable and expandable plastic material. The graft also comprises means for securing an end of the tube (160) within the body passageway, the securing means being a second expandable and deformable tubular member (166) connected to the end of the tube (160).; The second tubular member (166) is expandable from a first to a second diameter upon the application, from the interior, of a radially outwardly extending force. The first diameter permits intraluminal delivery of the graft into the body passageway. The second diameter, which is variable and dependent upon the amount of force applied, enables the graft to be secured within the body passageway., Patent#: EP0667132 (A2), Co-Inventor(s): PALMAZ JULIO C [US]; LABORDE JEAN C [FR] + (PALMAZ, JULIO C, ; LABORDE, JEAN C)	
01/1995	Method and apparatus for occluding vessels, Patent#: 5,382,261, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX)	Not Specified
11/1994	Aortic graft for repairing an abdominal aortic aneurysm, Patent#: 5,360,443, Co-Inventor(s): Barone; Hector D. (Maza 1869/73, Buenos Aires, AR); Palmaz; Julio C. (636 Ivy La., San Antonio, TX 78209); Parodi; Juan C. (Mercedes 4255, Buenos Aires, AR)	Not Specified
05/1994	Method for bilateral intra-aortic bypass, Patent#: 5,316,023, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX); LaBorde; Jean C. Montpellier, FR)	Not Specified
07/1993	A bilateral intra-aortic bypass graft (150) and method and apparatus for repairing an abdominal aortic aneurysm (151) includes two tubular grafts (160A,160B) which are intraluminally delivered to the aorta (152) and secured to the aorta (152) by the expansion and deformation of two expandable and deformable tubular members (166A,166B)., Patent#: EP0551179 (A1), Co-Inventor(s): PALMAZ JULIO C [US]; LABORDE JEAN C [FR] + (PALMAZ, JULIO C, ; LABORDE, JEAN C)	
04/1992	Expandable intraluminal graft, and method and apparatus for implanting an expandable intraluminal graft, Patent#: 5,102,417, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX)	Not Specified
12/1991	includes a tubular graft (160)which is intraluminally delivered through the aorta and secured to the aorta by the expansion and deformation of a thin-walled tubular member (165)., Patent#: EP0461791 (A1), Co-Inventor(s): BARONE HECTOR D [AR]; PARODI JUAN CARLOS [AR]; PALMAZ JULIO C [US] + (BARONE, HECTOR D, ; PARODI, JUAN CARLOS, ; PALMAZ, JULIO C)	
10/1989	A plurality of expandable and deformable intraluminal vascular grafts (70) are expanded within a blood vessel by an angioplasty balloon associated with a catheter to dilate and expand the lumen of a blood vessel. The grafts (70) may	

be thin-walled tubular members having a plurality of slots (82) disposed substantially parallel to the longitudinal axis of the tubular members (71), and adjacent grafts (70) are flexibly connected by at least one connector member (100)., Patent#: EP0335341 (A1), Co-Inventor(s): PALMAZ JULIO C; SCHATZ RICHARD A + (PALMAZ, JULIO C, ; SCHATZ, RICHARD A)

12/1988	Balloon expandable vena cava filter to prevent migration of lower extremity venous clots into the pulmonary circulation, Patent#: 4,793,348, Co-Inventor(s): Palmaz; Julio C. (12610 Stonehenge, San Antonio, TX 78230)	Not Specified
10/1988	Expandable intraluminal graft, and method and apparatus for implanting an expandable intraluminal graft, Patent#: 4,776,337 , Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX)	Not Specified
04/1988	Expandable intraluminal graft, and method and apparatus for implanting an expandable intraluminal graft, Patent#: 4,739,762, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX)	Not Specified
03/1988	Expandable intraluminal graft, and method and apparatus for implanting an expandable intraluminal graft, Patent#: 4,733,665, Co-Inventor(s): Palmaz; Julio C. (San Antonio, TX)	Not Specified
05/1987	Expandable intraluminal graft, and apparatus for implanting an expandable, Patent#: EP0221570 (A2), Co-Inventor(s): PALMAZ JULIO C + (PALMAZ, JULIO C)	

SERVICE

ADMINISTRATIVE RESPONSIBILITIES:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
07/1999-12/2005	Staff Supervised	Head of Cardiovascular Research, UTHSCSA	

*Ph.D.
Research Fellow
2 Research Associates*

OTHER SERVICE:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
01/1984-12/2000		Angiography and Special Procedures Consultant at BAMC	Consultant
01/1982-12/1983		Angiography and specials consultant to Los Medanos Hospital	Consultant

PATIENT CARE:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
01/1984-12/2000	Inpatient	Attending in Angiography and special procedures	Attending Physician
01/1981-01/1983	Inpatient	Attending in the nueroradiology, general	Attending

angiography and special procedures Physician

SERVICE TO GOVERNMENT:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
06/1992-06/1995		Research Program Specialist <i>Medical Research Service, VA Central Office, Washington, DC</i>	

SERVICE TO THE PROFESSION:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
01/2000-Present		Scientific Reviewer, Journal of Vascular Surgery	Reviewer
01/2000-Present		Journal of EuroIntervention	Reviewer
01/1998-Present		Editorial Board Member, Circulation	Editorial Board Member
01/1998-Present		Scientific Reviewer, Cardiovascular Interventional Radiology	Reviewer
02/1995-12/1997	National	ABR Examiner	Examiner
01/1994-Present		Scientific Reviewer, Journal of Vascular, Interventional Radiology	Reviewer

SERVICE TO THE PUBLIC:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
02/1994-02/1997	Community	Trustee of the Incarnate Word College of San Antonio	
05/2008-04/2012	Community	A Member of the Board of Advisors of the UC Davis Medical School	Board Member

UNKNOWN:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
01/1981-12/1983		Secretary-Treasurer of NAVAP	Secretary

PROFESSIONAL AFFILIATIONS:

<u>Dates</u>	<u>Organization</u>
03/2006-Present	American Institute For Medical And Biological Engineering (AIMBE)
<i>Additional Details: Fellow</i>	
01/1998-Present	German Radiological Society
<i>Additional Details: Honorary member</i>	
01/1989-Present	American Medical Association
01/1989-Present	American Heart Association
<i>Additional Details: Fellow</i>	
01/1986-12/1991	American Roentgen Ray Society
01/1986-Present	Society of Cardiovascular and Interventional Radiology
<i>Additional Details: Fellow</i>	
01/1984-12/1992	Association of University Radiologists
01/1977-12/1996	Radiological Society of North America

COMMITTEES (OTHER):

OTHER

<u>Dates</u>	<u>Committee</u>	<u>Role</u>
01/1993-12/1995	SCVIR Subcommittee on Endoluminal Bypass	Member
01/1991-12/1994	Bexar County Hospital Credentials Committee	Member
01/1981-12/1983	AHA Committee on Transcatheter Therapy of Peripheral Vascular Disease, Council on Cardiovascular Radiology, AHA	Member

UNIVERSITY

<u>Dates</u>	<u>Committee</u>	<u>Role</u>
01/1994-12/1994	UTHSCSA Search Committee, Surgery Chair, University of Texas Health Science Center at San Antonio, Medical	Member
