

CURRICULUM VITAE

Name: **Lawrence “Rusty” Hofmann, M.D.**
 Associate Professor of Radiology
 Section Chief, Interventional Radiology

A. Academic History

Colleges and Universities Attended:

1987-1991 B.S. Biology University of Illinois, Urbana, Illinois

1991-1995 M.D. Ohio State University, Columbus, Ohio

Scholarships and Honors

1988 Elected, Edmund J. James Scholar

1988 College of Arts and Sciences Dean’s List - three years

1990 Awarded, *Phi Kappa Tau* Academic Excellence Scholarship

1991 Elected, *Phi Beta Kappa* Honor Society

1991 Elected, *Phi Eta Sigma* Honor Society

1992 Awarded, Commissioned Officer Student Training and Externship
Program, United States Public Health Service

1993 Elected junior year, *Alpha Omega Alpha* Honor Society

1993 Awarded, Roessler Memorial Research Scholarship

1995 *Magna Cum Laude* Honor Graduate, The Ohio State University
School of Medicine

Postdoctoral and Residency Training

1995 - 1998 Resident, Diagnostic Radiology, The Johns Hopkins Hospital,
Baltimore, Maryland

1998 - 1999 Chief Resident, Diagnostic Radiology, The Johns Hopkins Hospital,
Baltimore, Maryland

1999 - 2000 Fellow, Interventional Radiology, Stanford University Medical Center
Stanford, California

Other study and research opportunities:

2006 – 2007 Stanford University Medical Center Leadership Education

Medical Board Eligibility/Certification:

1996 State of Maryland Medical license -

1996 Federal DEA license -

1999 American Board of Radiology Certification

1999 State of California Medical license

2001 Certificate of Added Qualification -Vascular and Interventional Radiology;
American Board of Radiology

B. Employment History:

2000-2006 Assistant Professor, Radiology and Surgery, Johns Hopkins Hospital
Baltimore, Maryland

2/1/06 – 1/31/11 Associate Professor of Radiology, Chief, Interventional Radiology,
Stanford University Medical Center

2006 – Present Co-Medical Director, Cardiac Catheterization, Angiography and
Interventional Radiology Laboratories, Stanford University Medical
Center

C. Public and Professional Service:

1995 - 2006 Diagnostic Radiology Resident Selection Committee, Johns Hopkins
Hospital, Department of Radiology (except 1999, 2000)

2000 - 2006 The Johns Hopkins Continuing Medical Education Advisory Board

2000 - 2006 Interventional Radiology Fellowship Selection Committee, Johns Hopkins
Hospital

2001 - 2003 Administrative Editor, *Practical Reviews in Radiology*

2001 - 2006 Co-founder, The Johns Hopkins International Image-Guided Training
Program, The Johns Hopkins Medical Institutions

2002 - 2006 Editorial Advisory Board, *Advanced Studies in Medicine*

2002 - 2006 Faculty, Center for Image-Guided Interventions, Johns Hopkins Hospital

2003 - Present Manuscript Reviewer, *Journal of Vascular Surgery*

2003 - Present Manuscript Reviewer, *Journal of Vascular and Interventional Radiology*

2003 - Present Manuscript Reviewer, *Cardiovascular and Interventional Radiology*

2003 - 2006 American Heart Association Abstract Grader

2004 Guest Editor, *Techniques in Vascular and Interventional Radiology*

2004 - Present Manuscript Reviewer, *Circulation*

2004 - Present Member – The Society of Interventional Radiology Foundation
Venous Research Consensus Panel

2005 - Present Manuscript Reviewer, *The American Journal of Roentgenology*

2006 - Present Interventional Radiology Fellowship Selection Committee, Stanford
University Medical Center

2007 - Present Editorial Board, *Techniques in Vascular and Interventional Radiology*

2007 - Present Abstract Reviewer, *International Symposium on Endovascular Therapy*

2007 - Present Manuscript Reviewer, *The Lancet*

2007 - Present Associate Member, The Molecular Imaging Program at Stanford

2007 - Present Member, “New” Stanford Hospital Planning and Construction Committee

2008 - Present Stanford University Medical Center Deep Venous Thrombosis Committee

2008 - Present Clinically Active Physicians Council, Stanford Hospital and Clinics

2010 - Present Chairman, Chronic Venous Disease Committee, Venous Disease Coalition

2010 - Present Associate Member of NCI Designated Stanford Cancer Center

- 2011 - Present Member, Pediatric Radiology Search Committee, Stanford School of Medicine
- 2010 - Present NIH MEDI Study Section, Reviewer
- 2011 Executive Member, Cancer Center Strategic Planning Committee, Stanford Hospital and Clinics, Stanford School of Medicine
- 2011 - Present Chairman, Salary Compensation Committee, Department of Radiology, Stanford School of Medicine
- 2011 -Present Stanford School of Medicine Dean Task Force on Clinical Competency and Physician Age

Societies and Memberships:

- 1991 - 1995 Member, Ohio State Medical Association
- 1991 - 1999 Member, American Medical Association
- 1993 - 1994 Chairman, Public Education Committee - Franklin County Medical Assoc.
- 1995 - Present Member, American Roentgen Ray Society
- 1995 - Present Member, Radiological Society of North America
- 1997 - 1999 State Resident Representative, Board of Directors - Maryland Radiological Society
- 1997 - 1999 Member, Med/Chi
- 1999 - Present Member, Society of Interventional Radiology

D. Post-Degree, Honors and Awards

- 1997 Awarded, ARRS/AUR/RSNA Introduction to Research Program
- 1997 *Certificate of Merit.* Radiological Society of North America Annual Meeting
- 1998 *Certificate of Merit.* Radiological Society of North America Annual Meeting
- 1999 *Cum laude award.* Radiological Society of North America Annual Meeting
- 1999 *Cum laude award.* Radiological Society of North America Annual Meeting
- 1999 Johns Hopkins Hospital, Chief Resident, Department of Radiology and Radiological Sciences
- 2003 Society of Interventional Radiology Annual Meeting Featured Abstract
- 2003 International Society for Magnetic Resonance in Medicine, 3rd Place in Best Oral Presentation.
- 2004 American Heart Association Melvin Judkins Young Investigator Award Finalist
- 2004 Johns Hopkins Hospital Resident Research Award, Department of Radiology – Mentor for Robert P. Liddell
- 2005 American Heart Association Melvin Judkins Young Investigator Award Finalist
- 2005 The American Roentgen Ray Society Annual Scholarship
- 2005 Society of Interventional Radiology Annual Meeting Travel Award for Residents and Fellows – Mentor for Tarak Patel
- 2005 Society of Interventional Radiology Annual Meeting Featured Abstract
- 2007 Stanford University Medical Scholars Award – Mentor for Luke Higgins, PhD
- 2007 Society of Interventional Radiology Foundation Medical Student Research Grant – Mentor for Luke Higgins, PhD
- 2007 American College of Chest Physicians Annual Meeting – Top 5 Best Poster Award

- 2008 Radiological Society of North America/ American Roentgen Ray Society Fellow/Resident Research Award – Mentor for Gloria Hwang, MD
- 2008 Society of Interventional Radiology Foundation Resident/Fellow Research Award – Mentor for Maurice Van den Bosch
- 2008 Stanford University Medical Scholars Award – Mentor for Keith Chan
- 2009 Cardiovascular and Interventional Radiological Society of Europe Resident Research Award – Mentor for Abs Singh
- 2009 Stanford University Medical Scholars Award – Mentor for Stephanie Carr
- 2010 Dr. Constantin Cope Medical Student Society of Interventional Radiology Annual Scientific Meeting Research Award – Mentor for Stephanie Carr
- 2010 First ever recipient of The Ohio State University School of Medicine Early Career Achievement Award
- 2011 The Gary Becker Young Investigator Award from the Society of Interventional Radiology – Mentor for William T. Kuo
- 2011 Fellow – The Society of Interventional Radiology
- 2011 Dr. Constantin Cope Medical Student Society of Interventional Radiology Annual Scientific Meeting Research Award – Mentor for Keith Chan

E. Bibliography

Peer-reviewed Articles: Total of 85; 2 in press; 1 submitted

1. Gifford BD, Garret A, **Hofmann LV**. Clinical Problem Solving: we blew it. *N Engl J Med* 1995; 333(8):520-21.
2. Fontaine AB, Koelling K, Dos Passos S, Cearlock J, **Hofmann LV**. Polymeric Surface Modifications of Tantalum Stents. *J Endovasc Surg* 1996; 3:276-83.
3. Beall DP, **Hofmann LV**. Medication induced adynamic ileus. *Md Med J* 1996 May; 45(5):415-6.
4. **Hofmann LV**, Beall DP, Jones B, Fishman EK, Heitmiller R. Hepatic-Portal Venous Gas and Pneumatosis Intestinalis without Bowel Necrosis Following Esophagectomy and Gastric Pull-Up. *Applied Radiology* 1997; 26(11): 56-60.
5. **Hofmann LV**. Sum & Substance: A Review of Allergic Bronchopulmonary Aspergillosis. *Radiology* 1997; 204(3):694.
6. **Hofmann LV**, Bluemke DA, Fishman EK. Thrombosis of the Deep Femoral Vein: A Potential Pitfall of Color Flow Duplex Doppler Ultrasonography. *South Med J* 1997; December 90(12): 1244-7.
7. Beall DP, Scott WW Jr, Kuhlman JE, **Hofmann LV**, Moore RD, Mundy LM. Utilization of Computed Tomography in Patients Hospitalized with Community-Acquired Pneumonia. *Md Med J* 1998; August 47(4):182-7.

8. VanEpps K, Kuszyk BS, **Hofmann LV**, Fishman EK. Epidermoid Inclusion Cysts Seen on Abdominal CT of a Patient with Gardner's Syndrome. *AJR Am J Roentgenol* 1999; September 173(3):858-9.
9. **Hofmann LV**, Smith PA, Kuszyk BS, Kraus ES, Fishman EK. 3D Helical CT Angiography in Renal Transplant Recipients: A New Problem-Solving Tool. *AJR Am J Roentgenol* 1999; October 173(4):1085-9.
10. **Hofmann LV**, Kuszyk BS, Mitchell SE, Horton KM, Fishman EK. Angioarchitecture of Pulmonary Arteriovenous Malformations: Characterization Using Volume-Rendered 3-D CT Angiography. *Cardiovasc Interv Radiol* 2000; March-April 23(2):165-70.
11. Jones TR, Carlisle MR, **Hofmann LV**, Strauss HW, Olcott C 4th. Lymphoscintigraphy in the diagnosis of lymphatic leak after surgical repair of femoral artery injury. *Clin Nucl Med* 2001; January 26(1):14-7.
12. Kuszyk BS, Corl FM, Franano FN, Bluemke DA, **Hofmann LV**, Fortman BJ, Fishman, EK. Tumor transport physiology: implications for imaging and imaging-guided therapy. *AJR Am J Roentgenol* 2001; October 177(4):747-53.
13. **Hofmann LV**, Razavi M, Arepally A, Reginelli JP, Resar J, Geschwind JF, Corl F. GPIIb-IIIa Receptor Inhibitors: What the Interventional Radiologist Needs to Know. *Cardiovasc Intervent Radiol* 2001; November-December 24(6):361-7.
14. Arepally A, **Hofmann LV**, Kim HS, Geschwind JF, Kirkwood S, Oechsle D, Perler B. Weight-based rt-PA thrombolysis protocol for acute native arterial and bypass graft occlusions. *J Vasc Interv Radiol* 2002; January 13(1):45-50.
15. Arepally A, Dagli M, **Hofmann LV**, Kim HS, Cooper M, Klein A. Treatment of Splenic Artery Aneurysm with Use of a Stent-Graft. *J Vasc Interv Radiol* 2002; June 13(6):631-3.
16. Sugimoto K, **Hofmann LV**, Razavi M, Kee ST, Sze DY, Dake MD, Semba CP. The Safety, Efficacy, and Pharmacoeconomics of Low-Dose Alteplase Compared with Urokinase for Catheter-Directed Thrombolysis of Arterial and Venous Occlusions. *J Vasc Surg* 2003; March 37(3):512-7.
17. Johnson PT, Heath DG, **Hofmann LV**, Horton KM, Fishman EK. Multidetector-row CT with Three-Dimensional Volume Rendering of Pancreatic Cancer: A Complete Pre-operative Staging Tool using CT Angiography (CTA) and Volume Rendered Cholangiopancreatography (VRCP). *J Comput Assist Tomogr* 2003; May-June 27(3):347-53.
18. **Hofmann LV**, Sood S, Liddell R, Gupta A, Arepally A, Rodriguez ER, Eng J. Arteriographic and Pathologic Evaluation of Two Suture-mediated Arterial Closure Devices in a Porcine Model. *J Vasc Interv Radiol* 2003; June 14(6):755-61.

19. Rufener JB, Andrews RT, Pfister ME, **Hofmann LV**, Bloch RD, Kudryk BT, Venbrux AC. An evaluation of commonly employed central venous catheter kits and their potential risk for complications of excess guidewire introduction. *J Clin Anesth* 2003; June 15(4):250-6.
20. **Hofmann LV**, Liddel RP, Arepally A, Montague B, Yang X, Bluemke DA. In vivo Intravascular MR Imaging: Transvenous Technique for Arterial Wall Imaging. *J Vasc Interv Radiol* 2003; October 14(10):1317-27.
21. Liddell RP, Patel S, Neuwirth M, Hebert J, Arepally A, **Hofmann LV**. Transcatheter Coil Embolization of Large Pulmonary Artery Pseudoaneurysms in a Child. *J Vasc Interv Radiol* 2003; July 14(7):923-7.
22. Razavi MK, Lee DS, **Hofmann LV**. Catheter-directed Thrombolytic Therapy for Limb Ischemia: Current Status and Controversies. *J Vasc Interv Radiol* 2004; January 15(1 Pt 1):13-23.
23. Grunwald MR, **Hofmann LV**. Catheter-directed thrombolysis for the treatment of symptomatic deep venous thrombosis. *Circulation* 2004; January 109(2):10.
24. Horton KM, Kamel IR, **Hofmann LV**, Fishman EK. Carcinoid Tumors of the Small Bowel: A Multimodality Approach. *AJR Am J Roentgenol* 2004; March 182(3):559-67.
25. Liddell RP, Weiss CR, **Hofmann LV**. Therapeutic angiogenesis: The next frontier for interventional radiology. *Tech Vasc Interv Radiol*. 2004; March 7(1):40-8.
26. Montague BJ, Kakimoto WM, Arepally A, Razavi M, Dake MD, **Hofmann LV**. Response of Balloon-Expandable Endoprosthetic Metallic Stents Subjected to Over-Expansion *In Vitro*." *Cardiovasc Intervent Radiol* 2004; March-April 27(2):158-63.
27. Grunwald MR, **Hofmann LV**. Comparison of Urokinase, Alteplase, and Reteplase for catheter-directed Thrombolysis of Deep Venous Thrombosis. *J Vasc Interv Radiol* 2004; April 15(4):347-52.
28. Karmarkar P, Kraitchman DL, Izbudak I, **Hofmann LV**, Amado LC, Fritzges D, Young RG, Pittenger MF, Bulte JWM, Atalar E. "MR Trackable Intramyocardial Injection Catheter." *Magn Reson Med* 2004; June 51(6):1163-72.
29. Fine DM, Arepally A, **Hofmann LV**, Mankowitz SG, Atta MG. Related Articles, Links. Diagnostic utility and safety of transjugular kidney biopsy in the obese patient. *Nephrol Dial Transplant* 2004; July 19(7):1798-802.
30. **Hofmann LV**, Lee DS, Gupta A, Arepally A, Sood S, Girgis R, Eng J. Safety and Hemodynamic Effects of Pulmonary Angiography in Patients with Pulmonary Hypertension: 10-Year Single-Center Experience. *AJR Am J Roentgenol* 2004; September 183(3):779-86.
31. Patel T, Weiss CR, **Hofmann LV**. Extracorporeal Expulsion of a Vascular Endograft Used to Treat a Mycotic Aneurysm. *J Vasc Interv Radiol* 2004; October 15(10):1157-60.

32. Arepally, A, Georgiades, C, **Hofmann, LV**, Choti, M, Thuluvath, P, Bluemke, DA. Hilar Cholangiocarcinoma: Staging with Intrabiliary MRI. *AJR Am J Roentgenol* 2004; October 183(4):1071-4.
33. Grunwald MR, Goldberg MJ, **Hofmann LV**. Endovascular Management of May-Thurner Syndrome. *AJR Am J Roentgenol* 2004; November 183(5):1523-4.
34. **Hofmann LV**, Liddell RP, Eng J, Wasserman BA, Arepally A, Lee DS, Bluemke DA. Human Peripheral Arteries: Feasibility of Transvenous Intravascular MR Imaging of the Arterial Wall. *Radiology* 2005; May 235(2):617-22.
35. Patel TH, Kimura H, Weiss CR, Semenza GL, **Hofmann LV**. Constitutively Active HIF-1 Alpha Improves Perfusion and Arterial Remodeling in an Endovascular Model of Limb Ischemia. *Cardiovas Res* 2005; October 68(1):144-54.
36. Liddell RP, Patel TH, Weiss CR, Lee DS, Matsushashi T, Brown PR, Gabrielson KL, Rodriguez ER, Eng J, Kimura H, **Hofmann LV**. Endovascular Model of Rabbit Hindlimb Ischemia: A Platform to Evaluate Therapeutic Angiogenesis. *J Vasc Interv Radiol* 2005; July 16(7):991-8.
37. Du X, Qiu B, Zhan X, Kolmakova A, Gao F, **Hofmann LV**, Cheng L, Chatterjee S, Yang XM. Intravascular MR/Radiofrequency-Enhanced Vascular Gene Transduction/Expression: Feasibility Study in Pigs. *Radiology* 2005; 236(3):939-44.
38. Gao F, Qiu B, Kar S, Zhan X, **Hofmann LV**, Yang X. Intravascular magnetic resonance/radiofrequency may enhance gene therapy for prevention of in-stent neointimal hyperplasia. *Acad Radiol* 2006; 13(4):526-30.
39. Vedantham S, Grassi CJ, Ferral H, Patel NH, Thorpe PE, Antonacci VP, Janne d'Othee BM, **Hofmann LV**, Cardella JF, Kundu S, Lewis CA, Schwartzberg MS, Min RJ, Sacks D; Technology Assessment Committee of the Society of Interventional Radiology. Reporting standards for endovascular treatment of lower extremity deep vein thrombosis. *J Vasc Interv Radiol*. 2006 March 17(3):417-34.
40. Vedantham S, Thorpe PE, Cardella JF, Grassi CJ, Patel NH, Ferral H, **Hofmann LV**, Janne d'Othee BM, Antonaci VP, Brountzos EN, Brown DB, Marin LG, Matsumoto AH, Meranze SG, Miller DL, Millward SF, Min RG, Meithamer CD, Rajan DK, Rholl KS, Schwartzberg MS, Swan TL, Towbin RB, Wiechmann BN, Sack D. Quality improvement guidelines for the treatment of lower extremity deep vein thrombosis with use of endovascular thrombus removal. *J Vasc Interv Radiol* 2006; March 17(3):435-47; quiz 448.
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42. Segal JB, Streiff MB, **Hofmann LV**, Thornton K, Bass EB. Management of venous thromboembolism: a systematic review for a practice guideline. *Ann Intern Med* 2007; February 146(3):211-22.
43. van den Bosch MA, Sze DY, **Hofmann LV**. Quiz page. Fibromuscular dysplasia of the right renal artery. *Am J Kidney Dis* 2007; May 49(5):A43-4.
44. Korosoglou G, Gilson WD, Schär M, Ustun A, **Hofmann LV**, Kraitchman DL, Stuber M. Hind Limb Ischemia in Rabbit Model: T2-prepared versus Time-of-Flight MR Angiography at 3 T¹. *Radiology* 2007; December 245(3):761-9. Epub 2007 October 19.
45. Hwang GL, Patel TH, **Hofmann LV**. Role of image-guided vascular intervention in therapeutic angiogenesis translational research. *Expert Rev Cardiovasc Ther* 2007; September 5(5):903-15.
46. Stuber M, Gilson WD, Schär M, Kedziorek DA, **Hofmann LV**, Shah S, Vonken EJ, Bulte JW, Kraitchman DL. Positive contrast visualization of iron oxide-labeled stem cells using inversion-recovery with ON-resonant water suppression (IRON). *Magn Reson Med*. 2007; November 58(5):1072-7.
47. Kuo WT, Sze DY, **Hofmann LV**. Catheter-directed intervention for acute pulmonary embolism: a shining saber. *Chest* 2008; January 133(1):317-8.
48. Wong L, Hsu TH, Perlroth MG, **Hofmann LV**, Katznelson L. Reninoma: case report and literature review. *J Hypertens* 2008; February 26(2):368-73. Review.
49. Kuo, WT, van den Bosch, MA, **Hofmann LV**, Louie JD, Kothary N, Sze DY. Catheter-Directed Embolectomy, Fragmentation and Thrombolysis for the Treatment of Massive Pulmonary Embolism after Failure of Systemic Thrombolysis. *Chest* 2008; 134:250-4.
50. Sze DY, Lee DP, **Hofmann LV**, Petersen B. Biopsy of cardiac masses using a stabilized intracardiac echocardiography-guided system. *J Vasc Interv Radiol* 2008; November 19(11):1662-7. Epub 2008 September 25.
51. Kothary N, Heit JH, Louie JD, Kuo WT, Loo BW, Koong A, Chang DT, Hovsepian D, Sze DY, **Hofmann LV**. Safety and Efficacy of Percutaneous Fiducial Marker Implantation for Image-guided Radiotherapy. *J Vasc Interv Radiol* 2009; 20(2):235-9.
52. Kothary N, Dieterich S, Louie JD, Chang DT, **Hofmann LV**, Sze DY. Techniques for Percutaneous Implantation of Fiducial Markers for Image Guided Radiotherapy. *AJR Am J Roentgenol* 2009; April 192(4):1090-6.
53. Vedantham S, Grassi CJ, Ferral H, patel NH, Thorpe PE, Antonacci VP, Janne d'Othee BM, **Hofmann LV**, Cardell JF, Kundu S, Lewis CA, Schwarzberg MS, Min RJ. Technology Assessment Committee of the Society of Interventional Radiology. Reporting Standards for endovascular treatment of lower extremity deep venous thrombosis. *J Vasc Interv Radiol* 2009; July 20(7 Suppl):S391-408.

54. **Hofmann LV**. Therapies for acute and chronic deep venous thrombosis. *Cin Adv Hematol Oncol* 2009; May 7(5):301-3.
55. Louie JD, Kothary N, Kuo WT, Hwang GL, **Hofmann LV**, Goris ML, Iagaru AH, Sze DY. Incorporating cone-beam CT into the treatment planning for yttrium-90 radioembolization. *J Vasc Interv Radiol* 2009; May 20(5):608-13.
56. Kothary N, Dieterich S, Louie JD, Koong AC, **Hofmann LV**, Sze DY. A primer on image guided radiation therapy for interventional radiologist. *J Vasc Interv Radiol* 2009; July 20(7):859-62.
57. Vedantham S, Thorpe PE, Cardella JF, Grassi CJ, Patel NH, Ferral H, **Hofmann LV**, Janne d'Othee BM, Antonaci VP, Brountzos EN, Brown DB, Martin LG, Matsumoto AH, Meranze SG, Miller DL, Millward SF, Min RJ, Neithamer CD, Rajan DK, Rholl KS, Schwarzberg MS, Swan TL, Towbin RB, Wiechmann BN, Sack D; CIRSE and Standards of Practice Committees. Quality improvement guidelines for the treatment of lower extremity deep vein thrombosis with use of endovascular thrombus removal. *J Vasc Interv Radiol* 2009; July 29(Suppl):S227-39.
58. Vedantham S, Millward SF, Cardella JF, **Hofmann LV**, Razavi MK, Grassi CJ, Sacks D, Kinney TB. Society of Interventional Radiology position statement: treatment of acute iliofemoral deep vein thrombosis with use of adjunctive catheter-directed intrathrombus thrombolysis. *J Vasc Interv Radiol* 2009; July 20(Suppl):S332-5.
59. Kothary N, Lock L, Sze DY, **Hofmann LV**. Computed tomography-guided percutaneous needle biopsy of pulmonary nodules: impact of nodule size on diagnostic accuracy. *Clin Lung Cancer*. 2009. Sep; 10(5): 360-3.
60. Kuo WT, Gould MK, Louie JD, Rosenberg JK, Sze DY, **Hofmann LV**. Catheter-directed therapy for the treatment of massive pulmonary embolism: systematic review and meta-analysis of modern techniques. *Journal of Vascular and Interventional Radiology* 2009 Nov; 20 (11):1431-40.
61. Kuo WT, Tong RT, Hwang GL, Louie JD, Lebowitz EA, Sze DY, **Hofmann LV**. High-risk retrieval of adherent and chronically implanted IVC filters: techniques for removal and management of procedural thrombotic complications. *Journal of Vascular and Interventional Radiology* 2009 20(12):1548-56.
62. Sze DY, van den Bosch MA, Dake MD, **Hofmann LV**, Varghese R, Malaisrie SC, van der Starre PJ, Rosenberg J, Mitchell RS. Factors portending endoleak formation after thoracic aortic stent-graft repair of complicated aortic dissection. *Circ Cardiovasc Interv*. 2009 Apr 2(2):105-12.
63. Tognolini A, Louie JD, Hwang GL, Kuo WT, Hovsepian DM, **Hofmann LV**, Sze DY, Kothary N. Utility of C-Arm CT in Patients with Hepatocellular Carcinoma Undergoing Transhepatic Arterial Chemoembolization. *J Vasc Interv Radiol*. 2010 Mar; 21(3):339-47.

64. Abdelmaksoud M, Louie JD, Hwang GL, Kothary N, **Hofmann LV**, Hovsepian DM, Kuo WT, Sze DY. Development of new hepatico-enteric collateral pathways after hepatic arterial skeletonization in preparation for 90Y radioembolization. *J Vasc Interv Radiol.* 2010; 21: 1385-95.
65. Kothary N, Bartos JB, Hwang GL, Dua R, **Hofmann LV**. CT-guided percutaneous needle biopsy of indeterminate pulmonary pathology: efficacy of obtaining a diagnostic sample in immunocompetent and immunocompromised patients. *Clin Lung Cancer* 2010; 11:251-6.
66. Kothary N, Ghatan CE, Hwang GL, Kuo WT, Sze DY, Hovsepian DM, Desser TS, **Hofmann LV**. Renewing focus on resident education: increased responsibility and ownership in interventional radiology rotations improves the educational experience. *J Vasc Interv Radiol* 2010; 21:1697-702.
67. Ahn BC, Ronald JA, Kim YI, Katzenberg R, Singh A, Paulmurugan R, Ray S, **Hofmann LV**, Gambhir SS. Potent, tumor-specific gene expression in an orthotopic hepatoma rat model using a Survivin-targeted, amplifiable adenoviral vector. *Gene Therapy* 2011 Jun; 18(6):606-12.
68. Chan KT, Popat RA, Sze DY, Kuo WT, Kothary N, Louie JD, Hovsepian DM, Hwang GL, **Hofmann LV**. Common iliac vein stenosis and risk of pulmonary embolism: an inverse correlation. *J Vasc Interv Radiol.* 2011; 22 (2): 133-41.
69. Tognolini A, Louie JD, Hwang GL, **Hofmann LV**, Sze DY, Kothary N. C-arm CT for hepatic interventions: a practical guide. *J Vasc Interv Radiol.* 2010 Dec;21(12):1817-23.
70. Tognolini A, Louie JD, Hwang GL, Hofmann LV, Sze DY, Kothary N. Utility of C-arm in Patients with Hepatocellular Carcinoma undergoing Transhepatic Arterial Chemoembolization. *J Vasc Interv Radiol.* 2010 Mar;21(3):339-47.
71. Kuo WT, Hofmann LV. Optimizing endovascular therapy for acute PE: primum non nocere. *J Vasc Interv Radiol.* 2010; 21: 1776-7.
72. Kothary N, Bartos JA, Hwang GL, Dua R, Kuo WT, **Hofmann LV**. Computed tomography-guided percutaneous needles biopsy of indeterminate pulmonary pathology: efficacy of obtaining a diagnostic sample in immunocompromised patients. *Clin Lung Cancer:* 2010 Jul 1; 11(4).
73. Ghatan CE, Kuo WT, **Hofmann LV**, Kothary N. Making the case for early medical student education in interventional radiology: a survey of 2nd-year students in a single U.S. institution. *J Vasc Interv Radiol.* 2010 Apr;21(4):549-53.
74. Meer AB, Louie JD, Kothary N, Hovsepian DM, **Hofmann LV**, Kuo WT, Hwang GL, Sze DY. (2010) The accessory right gastric artery: a potential pitfall for nontarget radioembolization. *J Vasc Interv Radiol.* 2011; 22: 575-77.

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76. Stewart JK, Kuo WT, Hovsepian DM, **Hofmann LV**, Bonham CA, Sze DY. Portal venous remodeling after endovascular reduction of pediatric autogenous portosystemic shunts. *J Vasc Interv Radiol*. 2011; 22(8): 1199-205.
77. Kuo WT, Odegaard JL, Louie JD, Sze DY, Unver K, Kothary N, Rosenberg JK, Hovsepian DM, Hwang GL, **Hofmann LV**. Photothermal ablation with the excimer laser sheath technique for embedded inferior vena cava filter removal: initial results from a prospective study. *J Vasc Interv Radiol*. 2011; 22(6): 813-23.
78. Higgins LJ, Hwang GL, Katzenberg RH, Kothary N, Sze DY, **Hofmann LV**. In Vitro Design and Characterization of the Nonviral Gene Delivery Vector Iopamidol, Protamine, Ethiodized Oil Reagent. *J Vasc Interv Radiol*. 2011 Aug 17 [Epub ahead of print].
79. Kuo WT, Cupp JS, Louie JD, Kothary N, **Hofmann LV**, Sze DY, Hovsepian, DM. Complex Retrieval of Embedded IVC Filters: Alternative Techniques and Histologic Tissue Analysis. *Cardiovasc Intervent Radiol*. 2011 May 12 [Epub ahead of print].
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3. **Hofmann LV**. United States Patent and Trademark Office. Patent Pending. Balloon Vascular Sheath. Filed July 15, 2004.
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Invited Presentations: 194

1. Utilization of CT in Patients with Community-Acquired Pneumonia. Department of Radiology and Radiological Sciences Grand Rounds, Johns Hopkins Hospital, Baltimore, Maryland, January 16, 1997.
2. Allergic Bronchopulmonary Aspergillosis. Department of Radiology and Radiological Sciences Grand Rounds, Johns Hopkins Hospital, Baltimore, Maryland, January 13, 1998.
3. Advances in the Diagnosis and Management of Pulmonary Arteriovenous Malformations. Department of Radiology and Radiological Sciences Grand Rounds, Johns Hopkins Hospital, Baltimore, Maryland, November 10, 1998.
4. Thrombolysis: State-of-the-Art. Endovascular Surgery Symposium [Course Director: Thomas Fogarty], Department of Vascular Surgery, Stanford Medical Center, Stanford, California, February 29, 2000.
5. In vivo Tissue Engineering: the Next Quantum Leap in the Treatment of Peripheral Vascular Disease. Department of Radiology Grand Rounds, Stanford Medical Center, Stanford, California, May 24, 2000.
6. Course Director. Evidence Based Thrombolysis. The Johns Hopkins Medical Institutions. Baltimore, Maryland. August 2000.
7. GPIIb-IIIa Inhibitors: A Coronary Drug for the Periphery? Cardiovascular and Interventional Radiology Practicum [Course Director: Anthony Venbrux], Department of Radiology, The Johns Hopkins Medical Institutions. Baltimore, Maryland September 25, 2000.

8. GP IIb-IIIa Inhibitors: What the Interventionalist Needs to Know. The Stanford Vascular Symposium [Course Director: Michael Dake], The Stanford University Medical Center Department of Radiology and Surgery. Pebble Beach, California. October 13, 2000.
9. Is Monotherapy Obsolete? Satellite Event, Society of Cardiovascular and Interventional Radiology, 26th Annual Meeting, San Antonio, TX. March 3, 2001.
10. Interventional Radiology: First in Image Guided Therapy. The Johns Hopkins School of Biomedical Engineering. November 15, 2000.
11. Thrombolysis: which drug and how much? Riding the Crest of the Wave [Course Director: Michael Soulen] St. Michaels, Maryland. June 1, 2001.
12. Interventional Radiology – the Hopkins Experience. The 2001 Biennial Meeting of the Johns Hopkins Medical and Surgical Association. Baltimore, Maryland. June 8th, 2001.
13. Treatment of Abdominal Aortic Aneurysms: State of the Art. Department of Internal Medicine Grand Rounds, Johns Hopkins Bayview Medical Center, Baltimore, Maryland, March 6, 2002.
14. The role of GPIIb/IIIa Inhibitors in Peripheral Interventions. Department of Neurology. The Johns Hopkins Medical Institutions. Baltimore, Maryland. August 14, 2001.
15. Renovascular Hypertension: How to diagnose and treat it. Division of Nephrology. The Johns Hopkins Medical Institutions. June 8, 2002.
16. The Role of GP IIb/IIIa Inhibitors in Carotid Stenting. Carotid Stent Workshop. Society of Interventional Radiology. Baltimore, Maryland. April 7, 2002.
17. Tips for Complex Aorto-iliac Interventions. Society of Interventional Radiology. Baltimore, Maryland. April 7, 2002.
18. Evidence Based Medicine – Workshop Coordinator – Society of Interventional Radiology. Baltimore, Maryland. April 7, 2002.
19. Is there a role for GP IIb/IIIa Inhibitors in Venous Thrombolysis. – Satellite Symposium; Society of Interventional Radiology. Baltimore, Maryland. April 6, 2002.
20. Course Director "The Evolving Role of Thrombolytics". A CME Teleconference Series. The Johns Hopkins School of Medicine. Baltimore, Maryland. April-May 2002.
21. Interventional Therapies of the Future. 6th National Televised Medical Education Symposium. Shantou University Medical Center. Shantou, China. June 4, 2002.
22. Course Director "The Evolving Role of Thrombolytics". A CME Teleconference Series. The Johns Hopkins School of Medicine. Baltimore, Maryland. July-August 2002.

23. Thrombolysis: The Cost Factor. Genentech Scientific Advisory Board Meeting. Charlestown, South Carolina. August 3, 2002.
24. "Interventional Radiology: The First In Image Guided Therapy." The Johns Hopkins School of Biomedical Engineering. Baltimore, Maryland. September 12, 2002.
25. Thrombolytic Agents: A Clinical and Economic Perspective. The Richmond Angiography Club. Richmond, Virginia. September 17, 2002.
26. The Role of Second and Third Generation Thrombolytics for Catheter Directed Thrombolysis. The Columbus Society of Interventional Radiology. Columbus, Ohio. September 24, 2002.
27. Thrombolysis: Nuts and Bolts. Grand Rounds CJW Hospital. Lima, Ohio. September 25, 2002.
28. Thrombolysis: An Economic and Clinical Perspective. The Dayton Society of Interventional Radiology. Dayton, Ohio. September 25, 2002.
29. Thrombolysis: State of the Art. Tampa Angio Club. Tampa, Florida. September 26, 2002.
30. Thrombolysis: Is There a Difference Between the Different Agents? Grand Rounds, The University of Miami School of Medicine, Department of Radiology. Miami, Florida. September 27, 2002.
31. "Current Applications of Endovascular MR". The Stanford Vascular Symposium [Course Director: Michael Dake], The Stanford University Medical Center Department of Radiology and Surgery. Half Moon Bay, California. October 25, 2002.
32. "Fenoldopam: Potential Applications During Endovascular Procedures". The Stanford Vascular Symposium [Course Director: Michael Dake], The Stanford University Medical Center Department of Radiology and Surgery. Half Moon Bay, California. October 26, 2002.
33. "Thrombolysis: What drug should I use?" The Philadelphia Angio Club. Philadelphia, Pennsylvania. November 14, 2002.
34. "A Cost Analysis of Various Lytic Agents." The 10th Annual Symposium: Current Issues and New Techniques in Interventional Radiology and Endovascular Surgery. New York, New York. November 20, 2002.
35. Course Director "In Touch with the Experts: Thrombolysis". A CME The Johns Hopkins School of Medicine. Baltimore, Maryland. May 2003.
36. "The Use of GP IIb/IIIa Parenteral Agents in Vascular Interventions." Categorical Course. 28th Annual Meeting of the Society of Interventional Radiology. Salt Lake City, Utah. March 30, 2003.

37. Workshop Coordinator, "Carotid Stenting: What's the Data and Should I do it in my Practice." 28th Annual Meeting of the Society of Interventional Radiology. Salt Lake City, Utah. March 29, 2003.
38. "Endovascular Thrombolysis: Three Decades of Innovation." Advancing to the Treatment of Vascular Disease--Satellite Symposium; 28th Annual Meeting of the Society of Interventional Radiology. Salt Lake City, Utah. March 27, 2003.
39. Program Chairman, Mechanical to Molecular: Advancing to the Treatment of Vascular Disease—Satellite Symposium; 28th Annual Meeting of the Society of Interventional Radiology. Salt Lake City, Utah. March 27, 2003.
40. "Interventional MRI." Frontiers in Cardiovascular MR and CT. Course Director: Victor Ferrari. University of Pennsylvania School of Medicine. Philadelphia, Pennsylvania. June 12, 2003.
41. "Thrombolysis: The Hopkins Experience." The Nashville Angio Club. Nashville, Tennessee. June 19, 2003.
42. "The Cost Effectiveness of tPA in Arterial Occlusions." The Advances in Interventional Radiology Management Symposium. Jacob Cynamon, Course Director. New York, New York. November 20, 2003.
43. "DVT Treatment: There is a better way!" Department of Internal Medicine, Johns Hopkins School of Medicine. Baltimore, Maryland. January 14, 2004.
44. "Radiology as a Career Choice for the Undecided Medical Student." Medical Students Radiology Interest Group, Johns Hopkins School of Medicine. Baltimore, Maryland. January 28, 2004.
45. "Peripheral Vascular Disease and Early Detection." Practice Development Talk to Community Podiatrists. Baltimore, Maryland. February 17, 2004.
46. "Deep Venous Thrombosis and Thrombolysis." Division of Hematology, Department of Medicine. The Johns Hopkins Medical Institutions. Baltimore, Maryland. February 23, 2004.
47. Workshop, "Arterial Thrombolysis." 29th Annual Scientific Meeting of the Society of Interventional Radiology. Phoenix, Arizona. March 26, 2004.
48. Workshop, "Aorto-Iliac." 29th Annual Scientific Meeting of the Society of Interventional Radiology. Phoenix, Arizona. March 26 and March 29, 2004.
49. "Thrombolysis: Case Studies." 29th Annual Scientific Meeting of the Society of Interventional Radiology. Phoenix, Arizona. March 28, 2004.

50. "Catheter-Directed Thrombolysis." American Roentgen Ray Society Annual Meeting. Miami, Florida. May 5, 2004.
51. "The Future of Interventional Radiology." IX Congreso de Estudiantes de Medicina de Panama, II Congreso Científico de la Facultad de Medicina de Panama. Panama City, Panama. October 19, 2004.
52. "Is Catheter Directed Thrombolysis Becoming the Standard of Care for the Treatment of Deep Venous Thrombosis?" American College of Chest Physicians Annual Meeting. Seattle, Washington. October 26, 2004.
53. "Infringuinal Bypass Graft Thrombolysis." The Advances in Interventional Radiology Management Symposium. Jacob Cynamon, Course Director. New York, New York. November 15, 2004.
54. "Therapeutic Angiogenesis: The Next Frontier in Interventional Radiology." The Advances in Interventional Radiology Management Symposium. Jacob Cynamon, Course Director. New York, New York. November 15, 2004.
55. "Therapeutic Angiogenesis: The Next Frontier for the Treatment of Vascular Disease." Opening Ceremony – The 17th Annual International Symposium on Endovascular Therapy. January 17, 2005. Miami, Florida.
56. "A Gallery of Thrombolytics." [Course Director]. Satellite Symposium at the 17th Annual International Symposium on Endovascular Therapy. January 19, 2005. Miami, Florida.
57. "The Power-Pulse Spray Technique for DVT Treatment." Advances in Thrombolytics. February 12, 2005. Napa, California.
58. "Thrombolysis of DVT." 14th Annual Meeting of the Association of Vascular and Interventional Radiographers. Phoenix, Arizona. March 27, 2005.
59. Course Director, "Thrombolytic Utilization Research and Key Strategies." Satellite Symposium. 30th Annual Scientific Meeting of the Society of Interventional Radiology. New Orleans, Louisiana. April 1, 2005.
60. Workshop, "Arterial Thrombolysis." 30th Annual Scientific Meeting of the Society of Interventional Radiology. New Orleans, Louisiana. April 2, 2005.
61. "Stent-grafts for the treatment of aortic disease." 15th Annual Meeting of the Association of Vascular and Interventional Radiographers. New Orleans, Louisiana. April 2, 2005.
62. Workshop, "Aorto-Iliac". 30th Annual Scientific Meeting of the Society of Interventional Radiology. New Orleans, Louisiana. April 3, 2005.

63. Course Director, "Peripheral Thrombolytic Therapies Poster Gallery." Satellite Symposium. 30th Annual Scientific Meeting of the Society of Interventional Radiology. New Orleans, Louisiana. April 4, 2005.
64. "DVT Treatment: There is a Better Way!" The Spokane Angio Club. Spokane, Washington. April 18, 2005.
65. "Arterial Thrombolysis." The American Roentgen Ray Society 105th Annual Meeting. New Orleans, LA. May 19, 2005.
66. Workshop, "Arterial Thrombolysis". 31st Annual Scientific Meeting of Society of Interventional Radiology. Toronto Ontario, Canada. March 31, 2006.
67. "Endograft Update AVIR." 31st Annual Scientific Meeting of Society of Interventional Radiology. Toronto Ontario, Canada. April 1, 2006.
68. **Course Director.** 1st Annual Pathway to Excellence: IR National Fellows Conference. Chicago, IL. April 11-13, 2006.
69. "Venous Thrombolysis". 1st Annual Pathway to Excellence: IR National Fellows Conference. Chicago, IL. April 11-13, 2006.
70. "Arterial Thrombolysis". 1st Annual Pathway to Excellence: IR National Fellows Conference. Chicago, IL. April 11-13, 2006.
71. "Anatomy and Pathophysiology of Venous Insufficiency." Radiology Essentials. Course Director: Brooke Jeffrey. Jackson Hole, Wyoming. July 28, 2006.
72. "Endovenous Ablation for Treatment of Venous Insufficiency." Course Director: Brooke Jeffrey. Jackson Hole, Wyoming. July 28, 2006.
73. "DVT Treatment – What’s New?" Course Director: Brooke Jeffrey. Jackson Hole, Wyoming. July 29, 2006.
74. "IV Access, the Boring to the Extreme." Course Director: Brooke Jeffrey. Jackson Hole, Wyoming. July 29, 2006.
75. "Imaging Reports: What Does the Interventionalist Want to Know?" Course Director: Brooke Jeffrey. Jackson Hole, Wyoming. July 29, 2006.
76. **Course Director.** 2nd Annual Stanford Venous Symposium. Carmel, California. October 6-8, 2006.
77. "Endovascular Management of DVT: How I Do It" 2nd Annual Stanford Venous Symposium. Carmel, California. October 6, 2006.

78. "Not All Proximal DVTs Are Created Equal." 2nd Annual Stanford Venous Symposium. Carmel, California. October 7, 2006.
79. "Full Metal Jacket: The Way I Treat Chronic DVT." 2nd Annual Stanford Venous Symposium. Carmel, California. October 7, 2006.
80. "Catheter-Directed Thrombolysis: How I Do It." Society of Interventional Radiology Multimodality Symposium. Washington D.C. October 18, 2006.
81. "Isolated Thrombolysis Workshop" Society of Interventional Radiology Multimodality Symposium. Washington D.C. October 18, 2006.
82. "Angiogeneses: The New Frontier For Treating Unreconstructable Peripheral Vascular Disease." Advanced Interventional Management Symposium. New York, N.Y. November 13, 2006.
83. "Acute Limb Ischemia: Current Strategies for Optimal Outcomes." Advanced Interventional Management Symposium. New York, New York. November 13, 2006.
84. "Is CDT Becoming the Standard of Care for DVT?" Department of Medicine Grand Rounds. Stanford University Medical Center, Stanford, California. November 30, 2006.
85. "Image Guided Interventional Radiology." Nuc-Medicine Grand Rounds, Stanford Hospital University Medical Center, Stanford, California. January 16, 2007.
86. "Stem Cells for therapeutic angiogenesis." 16th Annual Live Interventions in Vascular Endotherapy. Singapore LIVE 2007 Singapore, January 22, 2007.
87. "Aorto-iliac interventions." 16th Annual Live Interventions in Vascular Endotherapy. Singapore LIVE 2007 Singapore, January 22, 2007.
88. Live Case Demonstration of Renal Artery Stenting. 16th Annual Live Interventions in Vascular Endotherapy. Singapore LIVE 2007 Singapore, January 22, 2007.
89. "Pharmacomechanical Management of Iliofemoral Thrombosis." Interventional Symposium on Endovascular Therapy. ISET 2007. Fort Lauderdale, Florida. January 29, 2007.
90. "My Best/Worst Case Of The Year." Interventional Symposium on Endovascular Therapy. ISET 2007. Fort Lauderdale, Florida. January 31, 2007.
91. "Saphenous Vein Ablation and Sclerotherapy." 9th Annual Interventional Radiology Summit at Squaw. Lake Tahoe, California. February 23, 2007.
92. "Evidence-Based Medicine vs. Cryo, Cutting, Atherectomy." 9th Annual Interventional Radiology Summit at Squaw. Lake Tahoe, California. February 24, 2007.

93. "Thrombolytic Therapy for Arterial Disease" 32nd Annual Scientific Meeting at Seattle, Washington. March 5, 2007.
94. "Thrombolytic Therapy for Venous Disease" 32nd Annual Scientific Meeting at Seattle, Washington. March 5, 2007.
95. "Renovascular Interventions" 15th Annual Diagnostic Imaging Update in Hawaii. Kauai, HI. March 28, 2007.
96. "Endovascular Management of GI Bleeding" 15th Annual Diagnostic Imaging Update in Hawaii. Kauai, HI. March 28, 2007.
97. "Percutaneous Management of Liver Tumors" 15th Annual Diagnostic Imaging Update in Hawaii. Kauai, HI. March 29, 2007.
98. "Venous Access: From the Boring to the Extreme" 15th Annual Diagnostic Imaging Update in Hawaii., Kauai, HI. March 29, 2007.
99. **Course Director.** 2nd Annual Pathway to Excellence: IR National Fellows Conference. Chicago, IL. April 11-13, 2007.
100. Venous Thrombolysis. 2nd Annual Pathway to Excellence: IR National Fellows Conference. Chicago, IL. April 11-13, 2007.
101. Arterial Thrombolysis. 2nd Annual Pathway to Excellence: IR National Fellows Conference. Chicago, IL. April 11-13, 2007.
102. DVT Treatments Options in Interventional Radiology. Grand Rounds for OB/GYNE Residents. Stanford University Medical School. April 23, 2007.
103. Interventional Radiology and Trauma: "Interventional Radiology State Of The Art Imaging. Bio-engineering Department Grand Rounds Conference. Stanford University Medical School, May 2007.
104. **Course Director** 1st Annual LAVA" Latest Advances in Interventional Techniques". Hyatt Regency, Maui, Hawaii. August 6-9, 2007.
105. New Drugs and Devices to DVT. 1st Annual LAVA "Latest Advances in Interventional Techniques." Hyatt Regency, Maui, Hawaii. August 8, 2007.
106. Stenting to Treat Chronic Venous Occlusions: Full Metal Jacket or Straitjacket? Hyatt Regency, Maui, Hawaii. August 8, 2007.
107. Catheter Directed Thrombolysis: An Oldie but a Goody. Hyatt Regency, Maui, Hawaii. August 8, 2007.

108. The SFA: Slice It, Dice It, Squeeze It, Freeze It. Hyatt Regency, Maui, Hawaii. August 9, 2007.
109. DVT talk given by Dr. Hofmann on "Full Metal Jacket: A New Way to Treat to Chronic Venous Occlusions" Hematology Group. Stanford University Medical School, August 29, 2007.
110. IVC Filters. Department of Medicine at Stanford University. Stanford University Medical School. October 16, 2007.
111. Image-Guidance for Stem Cell Delivery. Laskar Foundation Meeting on Regenerative Medicine. November 15, 2007.
112. Arterial Intervention: Visceral Vascular Intervention. International Symposium On Endovascular Therapy. Hollywood, Florida. January 20, 2008.
113. Full Metal Jacket: The Best Way To Treat Chronic DVT. International Symposium On Endovascular Therapy. Hollywood, Florida. January 22, 2008.
114. Arterial Intervention: Visceral Vascular Intervention. International Symposium on Endovascular Therapy "ISET". Hollywood, Florida January 22, 2008.
115. Concurrent Session 6: Interactive Session: My Worst Complication. International Symposium on Endovascular Therapy "ISET". Hollywood, Florida January 22, 2008.
116. 10th Annual Techniques In Interventional Radiology. Culprit Lesions and DVT. Resort at Squaw Creek, Lake Tahoe, CA. February 22, 2008.
117. 10th Annual Techniques In Interventional Radiology. BAM! DVT Disasters. Resort at Squaw Creek, Lake Tahoe, CA, February 22, 2008.
118. 10th Annual Techniques In Interventional Radiology. Molecular Imaged-Guided Interventions: Your Future. Resort at Squaw Creek, Lake Tahoe, CA, February 22, 2008.
119. SFA Intervention • Stroke • DVT Management. International Symposium on Endovascular Therapy "ISET". Hollywood, Florida January 23, 2008.
120. Advances in Clinical Care: Coagulation and Hemostasis. Society of Interventional Radiology Annual Meeting in Washington, DC, March 14, 2008.
121. Film Panel Revisited. Society of Interventional Radiology Annual Meeting in Washington, DC, March 17, 2008.
122. Venous Thrombolysis. Society of Interventional Radiology Annual Meeting in Washington, DC, March 18, 2008.

123. Thrombolytic Therapy for Arterial Disease. Society of Interventional Radiology Annual Meeting in Washington, DC, March 19, 2008.
124. Aortoiliac Interventions. Society of Interventional Radiology Annual Meeting in Washington, DC, March 20, 2008.
125. **Course Director.** 3rd Annual Pathway to Excellence: IR National Fellows Conference. Chicago, IL. April 12-14, 2008.
126. Venous Thrombolysis. 3rd Annual Pathway to Excellence: IR National Fellows Conference. Chicago, IL. April 12-14, 2008.
127. Arterial Thrombolysis. 3rd Annual Pathway to Excellence: IR National Fellows Conference. Chicago, IL. April 12-14, 2008.
128. **Course Director** of 2nd Annual LAVA” Molecular Image Guided Interventions and Stem Cell Technology: The Future of IR”. Maui, Hawaii. August 4, 2008.
129. The “Lazarus Procedure”: Pharmaco-mechanical Lysis of Massive Pulmonary Embolism. H Maui, Hawaii. August 4, 2008.
130. Not All Proximal DVT’s Are Created Equal. Hyatt Regency, Maui, Hawaii. August 5, 2008.
131. Blue Water: Chronic Venous Occlusion. Hyatt Regency, Maui, Hawaii. August 5, 2008.
132. 3rd Annual Focus on Complex Care. Stanford Hospital and Clinics CME presents: How Interventional Radiology Can Help Your Patient. September 25, 2008.
133. Stem Cells and Gene Therapy: The Future of Interventional Radiology. Invited Lecture, PLA General Hospital/Beijing University. October 16, 2008.
134. Endovascular Venous Reconstruction. Invited Lecture, PLA General Hospital/Beijing University. October 16, 2008.
135. Endovascular Management of Pulmonary Embolism. Invited Lecture, PLA General Hospital/Beijing University. October 16, 2008.
136. Live Televised Case – Chemoembolization of Hepatocellular Carcinoma. PLA General Hospital/Beijing University. October 17, 2008.
137. Live Televised Case – Subclavian Artery Stent. PLA General Hospital/Beijing University. October 17, 2008.
138. Live Televised Case – Portal Vein Stent. PLA General Hospital/Beijing University. October 16, 2008.

139. "Molecular Image Guided Interventions". Northwestern School of Medicine, Department of Radiology Grand Rounds, Chicago, IL. November 6, 2008.
140. Venous/Controversies/Discussion. "Aggressive Management of Chronic DVT" AIM Symposium. New York, NY. November 20, 2008.
141. Hepatocellular Carcinoma. "Image Guided Therapy For The Treatment of Cancer" AIM Symposium. New York, NY. November 21, 2008
142. Grand Rounds "Interventional Therapies for the Treatment of DVT and PE." Alameda County Medical Center, Highland Hospital. Oakland, CA. December 5, 2008.
143. "Endovascular Reconstruction for Chronic DVT". ISET Symposium. Hollywood, Florida. January 22, 2009.
144. "What Types of Cases Will I Be Doing in 10 Years?" ISET Symposium. Hollywood, Florida. January 22, 2009.
145. "Massive PE: Endovascular Management" ISET Symposium. Hollywood, Florida. January 22, 2009.
146. "Will New Techniques Replace the Old in Interventional Oncology?" ISET Symposium. Hollywood, Florida. January 23, 2009.
147. Live Case Demonstration. ISET Symposium. Hollywood, Florida. January 23, 2009.
148. "Left Brachcephalic Recanalization and Stent Placement" AVM Symposium. Arizona Grand Resort, Phoenix, AZ. February 14, 2009.
149. "Endovascular reconstruction of the Left Brachiocephalic and Right Brachiocephalic, and SVC using the "Y" Stent Technique" American Venous Forum Annual Meeting, Phoenix, AZ. February 14, 2009.
150. DVT Workshop. Society of Interventional Radiology 34th Annual Scientific Meeting, San Diego, CA March 9, 2009.
151. **Course Director.** 4th Annual Pathway to Excellence: IR National Fellows Conference. San Francisco, CA June 3-5, 2009.
152. Arterial Thrombolysis. 4th Annual Pathway to Excellence: IR National Fellows Conference. San Francisco, CA June 3-5, 2009.
153. Arterial Thrombolysis. 4th Annual Pathway to Excellence: IR National Fellows Conference. San Francisco, CA June 3-5, 2009.
154. Endovascular Venous Reconstruction for Chronic DVT. 5th Joint European Conference: International Symposium on State-of-the-Art Imaging, Taormina, Italy, July 18, 2009.

155. Endovascular Treatment of Pulmonary Embolus. 5th Joint European Conference: International Symposium on State-of-the-Art Imaging, Taormina, Italy, July 18, 2009.
156. **Course Director.** 3rd Annual LAVA: Latest Advances in interVentionAl techniques Hyatt Regency Maui, Hawaii July 27, 2009.
157. Why Develop a DVT Practice. 3rd Annual LAVA: Latest Advances in interVentionAl techniques Hyatt Regency Maui, Hawaii July 27, 2009.
158. How I Do It: Chronic DVT. 3rd Annual LAVA: Latest Advances in interVentionAl techniques. Maui, Hawaii July 27, 2009.
159. Portal Vein and SMV Thrombosis: Should I Treat it, and if so, How? 3rd Annual LAVA: Latest Advances in interVentionAl technique. Maui, Hawaii July 27, 2009.
160. New Horizons in Interventional Oncology. 3rd Annual LAVA: Latest Advances in interVentionAl techniques. Maui, Hawaii July 30, 2009.
161. Starting a Research initiative: Personnel, Budget and Protocols – Panelist. Vascular InterVentional Advances, VIVA conference, Las Vegas, Nevada October 20, 2009.
162. State-of-the-Art Treatment of DVT and PE. Medical Grand Rounds Eden Medical Center, Contra Costa, California, September 18, 2009.
163. Endovascular Treatment of DVT and PE. Stanford University Medical Center Outreach. Fremont, California, September 14, 2009.
164. Optimal AV Graft Stenosis Treatment, Panelist. Vascular InterVentional Advances, VIVA conference, Las Vegas, Nevada October 21, 2009.
165. Why intervention for DVT? Should this catch on? Vascular InterVentional Advances, VIVA conference, Las Vegas, Nevada October 21, 2009.
166. LIVE CASE DEMONSTRATIONS, Panelist. Vascular InterVentional Advances, VIVA conference, Las Vegas, Nevada October 21, 2009.
167. LIVE CASE DEMONSTRATIONS, Panelist. Vascular InterVentional Advances, VIVA conference, Las Vegas, Nevada October 22, 2009.
168. Hands-on device instruction. IX Curso Internacional “Hands On” en Cirugia Invasiva Minima y Radiologia Intervencionista. Buenos Aires, Argentina, October 30, 2009.
169. Percutaneous biliary neoanastomosis. A new option for an old problem. IX Curso Internacional “Hands On” en Cirugia Invasiva Minima y Radiologia Intervencionista. Buenos Aires, Argentina, October 30, 2009.

170. Endovascular Reconstruction for Chronic DVT. IX Curso Internacional "Hands On" en Cirugia Invasiva Minima y Radiologia Intervencionista. Buenos Aires, Argentina, October 30, 2009.
171. Endovascular Treatment of Pulmonary Embolus. IX Curso Internacional "Hands On" en Cirugia Invasiva Minima y Radiologia Intervencionista. Buenos Aires, Argentina, October 30, 2009.
172. Stem cells and Gene Therapy: The Next Frontier for Image-Guided Interventions. IX Curso Internacional "Hands On" en Cirugia Invasiva Minima y Radiologia Intervencionista. Buenos Aires, Argentina, October 30, 2009.
173. Irreversible Electroporation for Pancreatic Cancer. IX Curso Internacional "Hands On" en Cirugia Invasiva Minima y Radiologia Intervencionista. Buenos Aires, Argentina, October 30, 2009.
174. SFA/Popliteal/Tibial Disease. Current Status of Angiogenesis in Patients with Non Reconstructible PVD. AIMSsymposium 17th Annual Symposium on Current Issues and New Techniques in Interventional Radiology and Endovascular Therapy, November 19, 2009.
175. Venous Thromboembolic Disease. Tips and Tricks for Stenting Chronic Venous Occlusions. AIMSsymposium 17th Annual Symposium on Current Issues and New Techniques in Interventional Radiology and Endovascular Therapy, November 19, 2009.
176. Portal Hypertension. Portal Vein and SVM Thrombosis: Should I Treat It, And If So, How? AIMSsymposium 17th Annual Symposium on Current Issues and New Techniques in Interventional Radiology and Endovascular Therapy, November 20, 2009.
177. Interventional Oncology: Liver and Cancer Metastases. IRE: Is It The Holy Grail For The Treatment Of Pancreatic Cancer? AIMSsymposium 17th Annual Symposium on Current Issues and New Techniques in Interventional Radiology and Endovascular Therapy, November 20, 2009.
178. Interventional Oncology: Liver and Cancer Metastases. Interventional Oncology + Molecular Imaging = The Future Of Cancer Therapy. AIMSsymposium 17th Annual Symposium on Current Issues and New Techniques in Interventional Radiology and Endovascular Therapy, November 20, 2009.
179. Workshop Coordinator. Treatment of Chronic Venous Occlusions. 2010 Annual Meeting of the Society of Interventional Radiology. Tampa, Florida. March 14 and March 17, 2010.
180. Endovascular Venous Reconstruction for Chronic Venous Disease. Medical and Surgical Grand Rounds. San Juan Medical Center. Carmichael, CA. April 30, 2010.
181. Irreversible Electroporation for Cancer Treatment. Global Embolization Symposium and Technologies. May 7, 2010.

182. Non-viral Cancer Gene Therapy. Department of Radiology, Stanford School of Medicine. May 12, 2010.
183. State-of-the-Art Treatment of Acute DVT. Pediatric Hematology Grand Rounds. Stanford, CA. May 13, 2010.
184. **Course Director:** Endovascular Venous Reconstruction for Chronic DVT. 4th Annual LAVA: Latest Advances in interVentionAl techniques. Maui, Hawaii July 26, 2010.
185. **Course Director:** Venous Stenoses and Their Implications in VTE. 4th Annual LAVA: Latest Advances in interVentionAl techniques. Maui, Hawaii July 26, 2010.
186. **Course Director:** BAM! DVT Disasters. 4th Annual LAVA: Latest Advances in interVentionAl techniques. Maui, Hawaii July 26, 2010.
187. **Course Director:** New Procedures in Interventional Oncology. 4th Annual LAVA: Latest Advances in interVentionAl techniques. Maui, Hawaii July 26, 2010.
188. Endovascular Treatment of Acute and Chronic DVT. Grand Rounds – Oakland Children’s Hospital, Oakland, CA. Sept 15, 2010.
189. A New Chronic Venous Disease Initiative. Venous Disease Coalition Conference, Washington, DC. Sept 20, 2010.
190. **Workshop Coordinator:** Venous Thromboembolic Disease II: Chronic Venous Occlusions. Society of Interventional Radiology Annual Meeting in Chicago, IL. March 28, 30, 2011.
191. **Plenary Session Coordinator:** Ground Control to Major Tom: When Systems in the IR Suite Break Down. Society of Interventional Radiology Annual Meeting in Chicago, IL. March 31, 2011.
192. Endovascular DVT Thrombolysis Complications. 2011 Meltdown: Lessons Learned in IR. Las Vegas, NV. May 19, 2011.
193. Stent Grafts for the Treatment of DVT. 2011 Meltdown: Lessons Learned in IR. Las Vegas, NV. May 19, 2011.
194. IVC Filter Complications. 2011 Meltdown: Lessons Learned in IR. Las Vegas, NV. May 19, 2011.

FUNDED RESEARCH: 36 (21 as either PI or Co-PI)

1. Source: NIH NHLBI T32 HL07712-12

- Title: Research in Interventional Radiology
Role: Investigator
Date: 7/01/00 – 6/30/05
2. Source: The Johns Hopkins Hospital Cor Therapeutics, Inc
Title: The ULTIMATE Trial: Utilization of alteplase Therapy and Integrilin to Manage Arterial Thrombolysis in the lower Extremities
Role: **Principal Investigator**
Date: February 2001 – July 2001
 3. Source: Surgi-vision, Inc.
Title: Intravascular transvenous arterial magnetic resonance imaging in a pig model.
Role: **Co-Principal Investigator**
Date: November 2000 – December 2001
 4. Source: Sutura, Inc.
Title: Comparison of two suture-mediated arteriotomy closure devices in a pig model.
Role: **Principal Investigator**
Date: November 2000 – April 2001
 5. Source: WL Gore, Inc.
Title: Use of Gore Thoracic EXCLUDER for the treatment of thoracic aortic aneurysms.
Role: **Principal Investigator**
Date: July 2000 – May 2005
 6. Source: Surgi-vision, Inc.
Title: Human intravascular transvenous arterial magnetic resonance imaging
Role: **Co-Principal Investigator**
Date: July 2001 – April 2002
 7. Source: Ethicon, Inc.
Title: Targeting Localization Needle Evaluation and optimization of image guidance system to facilitate needle delivery into soft tissue structure
Role: Investigator
Date: January-May 2002
 8. Source: The Johns Hopkins International Image-Guided Training Program
Role: **Co-Principal Investigator**
Date: April 2002
 9. Source: Cardiovascular and Interventional Radiology Research Fund
Title: Intrabiliary MR
Role: Investigator
Date: July 2002-June 2004
 10. Source: American Roentgen Ray Society Annual Scholarship
Title: Image-Guided In Vivo Tissue Engineering

- Role: **Principal Investigator**
Date: 07/1/05-06/30/06
11. Source: AngioDynamics, Inc.
Title: MRI evaluation of Coated Stents
Role: **Principal Investigator**
Date: July 2002 – Present
12. Source: Cook, Inc.
Title: Evaluation of the Zilver PTX Vascular Stent in the Above-the-knee Femoropopliteal Artery
Role: Investigator
Date: 2004-present
13. Source: NIH NIBIB K08 EB004922-01
Title: Controlled-Release HIF-1 Delivery for Arteriogenesis,
Role: **Principal Investigator**
Date: 05/01/05-04/30/10
14. Source: W. L. Gore & Assocs
Title: Evaluation of the Gore TAG Thoracic Endoprosthesis for the Treatment of Complex Pathology of the Descending Thoracic Aorta
Role: Investigator
Date: 2006-present
15. Source: Cook, Inc.
Title: A Non-randomized, Prospective Study of IVC Filter Retrieval Out to 12 Weeks without Interim Filter Manipulation Utilizing the Gunther Tulip Vena Cava Filter
Role: **Principal Investigator**
Date: 2006-2008
16. Source: W. L. Gore & Assocs.
Title: Treatment IDE for Use of the Gore TAG Thoracic Endoprosthesis in Subjects with Descending Thoracic Aortic Aneurysms Requiring Surgical Repair
Role: Investigator
Date: 2006-present
17. Source: Cook, Inc.
Title: Zilver Vascular Stent in the Iliac Arteries
Role: Investigator
Date: 2006-2009
18. Source: W. L. Gore & Assocs.
Title: A Clinical Study Evaluating Use of the Thoracic Excluder Endoprosthesis in the Treatment of Descending Thoracic Aortic Diseases. Stanford University Physician-sponsored IDE Sunnyvale, CA
Role: Investigator

- Date: 2006-present
19. Source: W. L. Gore & Assocs.
Title: Evaluation of the Gore TAG Thoracic Endoprosthesis of Descending Thoracic Aneurysms (TAG-03-03).
Role: Investigator
Date: 2006-present
20. Source: W. L. Gore & Assocs.
Title: A Clinical Study Comparing the Use of the Modified Bifurcated Excluder Endoprosthesis to Open Surgical Repair in the Primary Treatment of Infrarenal Abdominal Aortic Aneurysms (AAA-99-04)
Role: Investigator
Date: 2006-present
21. Source: Omnisonics Medical Technologies
Title: Study of the OmniWave Endovascular System in Subjects with Lower and Upper Extremity Deep Vein Thrombosis (SONIC I)
Role: **Principal Investigator**
Date: 2008-2009
22. Source: Angiodynamics, Inc.
Title: Irreversible Electroporation in Swine Pancreas
Role: **Co – Principal Investigator**
Date: 2008-2009
23. Source: NIH 1R01CA121163-01
Title: MR-Image Guided Focused Ultrasound System for Treatment of Liver and Renal Cancer
Role: Investigator
Date: Dec 2006 – Sept 2010
24. Source: K12 HL087746 (Cooke)
Title: NIH Stanford Career Development In Vascular Medicine
Role: Mentor
Date: 04/01/07 – 03/31/11
Goal: The purpose of this project is to develop a K12 clinical research training program in vascular medicine.
25. Source: Pfizer Pharmaceuticals Inc.
Title: A Safety and Efficacy Trial Evaluating the Use of Apixaban for the extended Treatment of Deep Vein Thrombosis and Pulmonary Embolism
Role: **Principal Investigator**
Date: 2009-2010
26. Source: Pfizer Pharmaceuticals Inc.

- Title: A Safety and Efficacy Trial Evaluating the Use of Apixaban in the Treatment of Symptomatic Venous Thromboembolism
Role: **Principal Investigator**
Date: 2009-2010
27. Source: GIDVT Study
Title: Analysis of blood from GI cancer patients to predict the development of blood clots and/or disease progression
Role: **Co - Principal Investigator**
Date: 2009-present
28. Source: NIH NHLBI HL088476-01A1
Title: ATTRACT - Acute Venous Thrombosis: Thrombus Removal with Adjunctive Catheter-Directed Thrombolysis
Role: **Principal Investigator**
Date: 2009-present
29. Source: NCI ICMIC P50 CA114747 Development Grant
Title: Development of a Non-Viral Gene Therapy platform for the treatment of HCC.
Role: **Principal Investigator**
Date: 2009-2010
30. Source: Siemens Healthcare
Title: Evaluating Laser Guidance and 2D3D Registration for Needle Guided Procedures Utilizing DynaCT
Role: Investigator
Date: 2009-present
31. Source: StemCells, Inc.
Title: Delivery and Imaging of Liver Stem Cells
Role: **Principal Investigator**
Date: 2008-2009
32. Source: Cook, Inc.
Title: Pivotal Trial for Zilver Vena Stent to Treat Venous Occlusions/Stenosis
Role: **Global Co-Principal Investigator**
Date: 2009 - Present
33. Source: W.L. Gore and Associates
Title: Use of heparin bioactive stent to treat venous occlusions
Role: **Principal Investigator** (Dr. Hofmann holds the PS-IDE for this trial)
Date: 2010 - present
34. Source: NIH U54 HL-12-008
Title: Diagnosis and Treatment of Thrombotic and Hemostatic Disorders
Principal Investigator – Lawrence Leung, MD

Project 2 – Identification of Biologic and Anatomic Risk Factors for Venous Thromboembolisms

Role: **Principal Investigator**(Project 2);

Date: 2011 (under review)

35. Source: W.L. Gore and Associates

Title: The GORE VIATORR TIPS Endoprosthesis versus Large-Volume Paracentesis for the Treatment of Ascites in Patients with Portal Hypertension

Role: **Investigator**

Date: 2011 – present

36. Source: Merit Medical

Title: Phase 3 Prospective, Randomized, Blinded And Controlled Investigation Of Hepasphere/Quadrasphere Microspheres For Delivery Of Doxorubicin For The Treatment Of Hepatocellular Cancer

Role: **Investigator**

Date: 2011 – present