

## BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Paul G. Yock, MD	Martha Meier Weiland Professor of Medicine (Cardiovascular)

### EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Amherst College, MA	AB	1969-73	Philosophy/Chemistry
Trinity College, Oxford, U.K.	MA	1973-75	Philosophy/Phys.
Harvard Medical School, Boston, MA	MD	1975-79	Medicine
University of California at San Francisco	Intern/Res	1979-82	Medicine
Stanford University Medical Center, CA	Fellow	1982-85	Cardiology

### A. Positions and Honors

#### Positions and Employment

1986-1994	Assistant and Associate Professor of Medicine (Cardiology), University of California, San Francisco
1994-1998	Associate Professor of Medicine (Cardiovascular), Stanford University School of Medicine
1998-present	Professor of Medicine (Cardiovascular)
1999-present	Professor of Mechanical Engineering (By Courtesy)
2002-present	Leadership Council, Bio-X Program; Director, Biodesign Unit
2003-present	Co-Chair, Department of Bioengineering

#### Honors and Awards (recent, selected)

2000 Martha Meier Weiland Professor of Medicine, Stanford University  
41 Patents

#### Other Experience and Professional Memberships (selected)

Fellow, American College of Cardiology

Fellow, American Institute for Medical and Biological Engineering

Editorial Advisory Boards, *Circulation*, *Journal of the American College of Cardiology*, *American Heart Journal*

### B. Selected peer-reviewed publications (from a total of 164 peer-reviewed)

1. Liao CK, Bonneau HN, **Yock PG**, Fitzgerald PJ. Arterial response during cutting balloon angioplasty: a volumetric intravascular ultrasound study. *J Formos Med Assoc.* 2002 Nov;101(11):756-61.
2. Nakamura M, Fitzgerald PJ, Ikeno F, Honda Y, Sousa JE, Abizaid A, de Brito FS Jr, Tofte A, Grube E, Patterson GR, **Yock PG**, Yeung AC, Carter AJ. Efficacy and feasibility of helixcision for debulking neointimal hyperplasia for in-stent restenosis. *Catheter Cardiovasc Interv.* 2002 Dec;57(4):460-6.
3. Nakamura M, **Yock PG**, Kataoka T, Bonneau HN, Suzuki T, Yamaguchi T, Honda Y, Fitzgerald PJ. Impact of deep vessel wall injury on acute response and remodeling of coronary artery segments after cutting balloon angioplasty. *Am J Cardiol.* 2003 Jan 1;91(1):6-11.
4. Morino Y, Limpijankit T, Honda Y, Somrantin M, Waksman R, Bonneau HN, **Yock PG**, Mintz GS, Fitzgerald PJ. Relationship between neointimal regrowth and mechanism of acute lumen gain during the treatment of in-stent restenosis with or without supplementary intravascular radiation. *Catheter Cardiovasc Interv.* 2003 Feb;58(2):162-7.
5. Sonoda S, Honda Y, Kataoka T, Bonneau HN, Sudhir K, **Yock PG**, Mintz GS, Fitzgerald PJ. Taxol-based eluting stents from theory to human validation: clinical and intravascular ultrasound observations. *J Invasive Cardiol.* 2003 Mar;15(3):109-14. Review.
6. Fearon WF, Yeung AC, Lee DP, **Yock PG**, Heidenreich PA. Cost-effectiveness of measuring fractional flow reserve to guide coronary interventions. *Am Heart J.* 2003 May;145(5):882-7.

7. Herity NA, Lo S, Lee DP, Ward MR, Filardo SD, **Yock PG**, Fitzgerald PJ, Hunt SA, Yeung AC. Effect of a change in gender on coronary arterial size: a longitudinal intravascular ultrasound study in transplanted hearts. *J Am Coll Cardiol*. 2003 May 7;41(9):1539-46.
8. Fearon WF, Nakamura M, Lee DP, Rezaee M, Vagelos RH, Hunt SA, Fitzgerald PJ, **Yock PG**, Yeung AC. Simultaneous assessment of fractional and coronary flow reserves in cardiac transplant recipients: Physiologic Investigation for Transplant Arteriopathy (PITA Study). *Circulation*. 2003 Sep 30;108(13):1605-10. Epub 2003 Sep 08.
9. Okura H, Lee DP, Lo S, Yeung AC, Honda Y, Waksman R, Kaluza GL, Ali NM, Bonneau HN, **Yock PG**, Raizner AE, Mintz GS, Fitzgerald PJ. Late incomplete apposition with excessive remodeling of the stented coronary artery following intravascular brachytherapy. *Am J Cardiol*. 2003 Sep 1;92(5):587-90.
10. Hibi K, Kimura K, Nakatogawa T, Okuda J, Umemura S, **Yock PG**. Images in cardiovascular medicine. Intracoronary ultrasound diagnosis of an aortic dissection causing anterior acute myocardial infarction. *Circulation*. 2003 Nov 18;108(20):e145-6.
11. Nakamura M, Kataoka T, Honda Y, Bonneau HN, Hibi K, Kitamura K, Tamai H, Aizawa T, **Yock PG**, Fitzgerald PJ. Late incomplete stent apposition and focal vessel expansion after bare metal stenting. *Am J Cardiol*. 2003 Nov 15;92(10):1217-9.
12. Inagaki K, Chen L, Ikeno F, Lee FH, Imahashi K, Bouley DM, Rezaee M, **Yock PG**, Murphy E, Mochly-Rosen D. Inhibition of delta-protein kinase C protects against reperfusion injury of the ischemic heart in vivo. *Circulation*. 2003 Nov 11;108(19):2304-7. Epub 2003 Nov 03
13. Fearon WF, Balsam LB, Farouque HM, Caffarelli AD, Robbins RC, Fitzgerald PJ, **Yock PG**, Yeung AC. Novel index for invasively assessing the coronary microcirculation. *Circulation*. 2003 Jul 1;107(25):3129-32. Epub 2003 Jun 23. Erratum in: *Circulation*. 2003 Dec 23;108(25):3165.
14. Fearon WF, Farouque HM, Balsam LB, Caffarelli AD, Cooke DT, Robbins RC, Fitzgerald PJ, Yeung AC, **Yock PG**. Comparison of coronary thermodilution and Doppler velocity for assessing coronary flow reserve. *Circulation*. 2003 Nov 4;108(18):2198-200. Epub 2003 Oct 20. Erratum in: *Circulation*. 2003 Dec 23;108(25):3165
15. Ikeno F, Hinohara T, Robertson GC, Rezaee M, **Yock PG**, Reimers B, Colombo A, Grube E, Simpson JB. Early experience with a novel plaque excision system for the treatment of complex coronary lesions. *Catheter Cardiovasc Interv*. 2004 Jan;61(1):35-43.
16. Fearon WF, Ikeno F, Bailey LR, Hiatt BL, Herity NA, Carter AJ, Fitzgerald PJ, Rezaee M, Yeung AC, **Yock PG**. Evaluation of high-pressure retrograde coronary venous delivery of FGF-2 protein. *Catheter Cardiovasc Interv*. 2004 Mar;61(3):422-8.
17. Fearon WF, Aarnoudse W, Pijls NH, De Bruyne B, Balsam LB, Cooke DT, Robbins RC, Fitzgerald PJ, Yeung AC, **Yock PG**. Microvascular resistance is not influenced by epicardial coronary artery stenosis severity: experimental validation. *Circulation*. 2004 May 18;109(19):2269-72. Epub 2004 May 10.
18. Sonoda S, Morino Y, Ako J, Terashima M, Hassan AH, Bonneau HN, Leon MB, Moses JW, **Yock PG**, Honda Y, Kuntz RE, Fitzgerald PJ; SIRIUS Investigators. Impact of final stent dimensions on long-term results following sirolimus-eluting stent implantation: serial intravascular ultrasound analysis from the sirius trial. *J Am Coll Cardiol*. 2004 Jun 2;43(11):1959-63.
19. Courtney BK, Nakamura M, Tsugita R, Lilly R, Basisht R, Grube E, Honda Y, **Yock PG**, Fitzgerald PJ. Validation of a thermographic guidewire for endoluminal mapping of atherosclerotic disease: an in vitro study. *Catheter Cardiovasc Interv*. 2004 Jun;62(2):221-9.
20. Fearon, WF, Aarnoudse W, Pijls NH, De Bruyne B, Balsam LB, Cooke DT, Robbins RC, Fitzgerald PJ, Yeung AC, **Yock PG**. Microvascular resistance is not influenced by epicardial coronary artery stenosis severity: experimental validation. *Circulation*, 109(19):2269-72, 2004.
21. Fearon, WF, Ikeno F, Bailey LR, Hiatt BL, Herity NA, Carter AJ, Fitzgerald PJ, Rezaee M, Yeung AC, **Yock PG**. Evaluation of high-pressure retrograde coronary venous delivery of FGF-2 protein. *Catheter Cardiovasc Interv*, 61(3):422-8, 2004.
22. Hou D, Youssef E, Brinton T, Zhang P, Rogers P, Price E, Yeung A, Johnstone B, **Yock PG**, March K. Radiolabeled Cell Distribution After Intramyocardial, Intracoronary, and Interstitial Retrograde Coronary Venous Delivery *Circulation*, 2005 Aug 30;112(9 Suppl)I150-6.
23. Lerner AL, KenKnight BH, Rosenthal A, **Yock PG**. Design in BME: Challenges, Issues, and Opportunities. *Ann Biomed Eng*. 2006 Feb;34(2):200-8.

## **C. Research Support**

### **Ongoing Research Support**

No Identifying Number (Yock Co-PI)

Venomatrix, Inc.

01/01/03 – 12/31/05

Determining the efficacy of intramyocardial delivery for treatment of cardiomyopathy

Role: Co-PI

830-02 (Yock PI)

9/01/02 – 12/31/05

The Lemelson Foundation

Biomedical Device Design & Prototype Development Program

Role: PI

No Identifying Number (Fearon PI)

American Heart Association

01/01/04 – 12/31/07

Invasive assessment of the coronary microcirculation

Role: Co-PI

BES-0535474 (Yock PI)

National Science Foundation

08/01/05 – 02/28/06

BME-IDEA: Biomedical Engineering: Innovation, Design and  
Entrepreneurship Alliance Annual Meeting

Role: PI

No Identifying Number (Yock PI)

Edwards Life Sciences

03/01/05 – 02/28/06

Novel Therapies for the Treatment of Cardiomyopathy

Role: PI

No Identifying Number (Yock PI)

KAI Pharmaceuticals, Inc.

03/15/03 – 03/14/06

Local Vascular Drug Delivery Against Repfusion Injury

Role: PI

No Identifying Number (Yock PI)

Fox Hollow Technology

01/01/01 – 06/30/06

Evaluation of Novel Interventional Cardiology Devices

Role: PI

20060121 (Yock PI)

Kaufman Foundation

08/05/05 – 10/01/08

Development and bmesource Portal

Role: PI