




Paul Yock, MD

The Martha Meier Weiland Professor in the School of Medicine and Professor of Bioengineering

 NIH Biosketch available Online

 Resume available Online

CLINICAL OFFICES

- **James H Clark Center**

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MC 5428

Stanford, CA 94305

Tel (650) 736-1161

Fax (650) 724-8696

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Annette Ewanich - Executive Assistant

Tel 650-736-1161

Bio

BIO

Yock began his faculty career as an interventional cardiologist at UC San Francisco and then moved to Stanford in 1994. Yock is known for his work in inventing, developing and testing new devices, including the Rapid Exchange angioplasty and stenting system, which is the primary approach used worldwide. Yock also authored the fundamental patents for intravascular ultrasound imaging, conducted the initial clinical trials and established the Stanford Center for Research in Cardiovascular Interventions as a core laboratory for analysis of intravascular ultrasound clinical studies. He also invented the Smart Needle and is a co-inventor of the strain-reduction patch for wound healing. Yock was founding Co-Chair of the Department of Bioengineering and continues research related to new device technologies. Yock also founded and is the Director of the Program in Bidesign, a unit of Bio-X dedicated to advanced training in medical technology innovation.

CLINICAL FOCUS

- Cardiology (Heart)
- Cardiovascular Disease

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Bioengineering
- Professor - Med Center Line, Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Byers Center for Bidesign, (2001- present)
- Co-Chair, Stanford University School of Medicine - Bioengineering, (2003-2006)

HONORS AND AWARDS

- Phoenix Innovator Award, Phoenix Hall of Fame for Medical Device and Diagnostic Leadership (2005)
- Career Achievement Award, Transcatheter Cardiovascular Therapeutics (TCT) (2006)

- Doctor of Science (Honoris Causa), Amherst College (2007)
- Distinguished Scientist Award, American College of Cardiology (2008)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellow, American Institute for Medical and Biological Engineering (2010 - present)
- Member, National Academy of Engineering (2013 - present)
- member, American Association of Physicians (2016 - present)

PROFESSIONAL EDUCATION

- Internship: UCSF Medical Center (1980) CA
- Residency: UCSF Medical Center (1982) CA
- Medical Education: Harvard Medical School (1979) MA
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (1985)
- Fellowship: Stanford University Medical Center (1985) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (1982)
- M.D., Harvard Medical School , Medicine (1979)
- M.A., Trinity College, Oxford , Philosophy and Physiology (1975)
- A.B., Amherst College , Chemistry, Independent Study (Philosophy) (1973)

LINKS

- BioX Clark Center Faculty: <http://biox.stanford.edu/clark/yock.html>
- Stanford Biodesign Website: <http://biodesign.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Founder and Director of the Byers Center for Biodesign, a multidisciplinary training and support program for physicians and engineers with the ambition and talent to become health technology innovators. The Center has educational/training programs at multiple levels including a postgraduate fellowship, multiple graduate and undergraduate classes and a faculty training program. In addition, Biodesign administers seed grant programs and a mentoring system for faculty and students who seek to translate health technology innovations into patient care.

Teaching

COURSES

2017-18

- Biodesign Innovation: Concept Development and Implementation: BIOE 374B, ME 368B, MED 272B (Spr)
- Biodesign Innovation: Concept Development and Implementation: OIT 385 (Spr)
- Biodesign Innovation: Needs Finding and Concept Creation: BIOE 374A, ME 368A, MED 272A (Win)
- Biodesign Innovation: Needs Finding and Concept Creation: OIT 384 (Win)
- Biodesign for Mobile Health: BIOE 273, MED 273 (Aut)

2016-17

- Biodesign Innovation: Concept Development and Implementation: BIOE 374B, ME 368B, MED 272B (Spr)
- Biodesign Innovation: Concept Development and Implementation: OIT 385 (Spr)

- Biodesign Innovation: Needs Finding and Concept Creation: BIOE 374A, ME 368A, MED 272A (Win)
- Biodesign Innovation: Needs Finding and Concept Creation: OIT 384 (Win)
- Biodesign for Mobile Health: BIOE 273, MED 273 (Aut)

2015-16

- BIODESIGN FOR MOBILE HEALTH: BIOE 273, MED 273 (Aut)
- Biodesign Innovation: Concept Development and Implementation: BIOE 374B (Spr)
- Biodesign Innovation: Concept Development and Implementation: BIOE 375B (Spr)
- Biodesign Innovation: Concept Development and Implementation: ME 368B, MED 272B (Spr)
- Biodesign Innovation: Concept Development and Implementation: OIT 385 (Spr)
- Biodesign Innovation: Needs Finding and Concept Creation: BIOE 374A (Win)
- Biodesign Innovation: Needs Finding and Concept Creation: BIOE 375A (Win, Spr)
- Biodesign Innovation: Needs Finding and Concept Creation: ME 368A, MED 272A (Win)
- Biodesign Innovation: Needs Finding and Concept Creation: OIT 384 (Win)
- Global Biodesign: Medical Technology in an International Context: BIOE 371, MED 271 (Spr)
- Global Biodesign: Medical Technology in an International Context: OIT 587 (Spr)

2014-15

- BIODESIGN FOR MOBILE HEALTH: BIOE 273, MED 273 (Aut)
- Biodesign Innovation: Concept Development and Implementation: BIOE 374B (Spr)
- Biodesign Innovation: Concept Development and Implementation: BIOE 375B (Spr)
- Biodesign Innovation: Concept Development and Implementation: ME 368B, MED 272B (Spr)
- Biodesign Innovation: Concept Development and Implementation: OIT 385 (Spr)
- Biodesign Innovation: Needs Finding and Concept Creation: BIOE 374A (Win)
- Biodesign Innovation: Needs Finding and Concept Creation: BIOE 375A (Win)
- Biodesign Innovation: Needs Finding and Concept Creation: ME 368A, MED 272A (Win)
- Biodesign Innovation: Needs Finding and Concept Creation: OIT 384 (Win)
- Global Biodesign: OIT 587 (Spr)
- Global Biodesign: Medical Technology in an International Context: BIOE 371, MED 271 (Spr)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Benjamin Berkowitz, Bryan Hartley, Janmei Huang, Abubaker Khalifa, Christopher Kinsella, Shira Koss, Vrad Levering, Nassireddin Mokarram-Dorri, Manasi Ramachandran, Derek Thong, Jonathan Toma, Heather Underwood, Orestis Vardoulis, Wei Gen Scott Wong

Undergraduate Major Advisor

Richard Hojel

Postdoctoral Research Mentor

Benjamin Berkowitz, Andrew Chou, Bryan Hartley, Janmei Huang, Abubaker Khalifa, Christopher Kinsella, Shira Koss, Vrad Levering, Nassireddin Mokarram-Dorri, Manasi Ramachandran, Derek Thong, Jonathan Toma, Heather Underwood, Orestis Vardoulis, Wei Gen Scott Wong

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part II. In Vivo Imaging of Bone Marrow Stromal Cells in Swine with PET/CT and MR Imaging.** *Radiology*
Parashurama, N., Ahn, B., Ziv, K., Ito, K., Paulmurugan, R., Willmann, J. K., Chung, J., Ikeno, F., Swanson, J. C., Merk, D. R., Lyons, J. K., Yerushalmi, D., Teramoto, et al
2016; 280 (3): 826-836
- **Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part I. Reporter Gene Design, Characterization, and Optical in Vivo Imaging of Bone Marrow Stromal Cells after Myocardial Infarction.** *Radiology*
Parashurama, N., Ahn, B., Ziv, K., Ito, K., Paulmurugan, R., Willmann, J. K., Chung, J., Ikeno, F., Swanson, J. C., Merk, D. R., Lyons, J. K., Yerushalmi, D., Teramoto, et al
2016; 280 (3): 815-825
- **Attenuated-Signal Plaque Progression Predicts Long-Term Mortality After Heart Transplantation: IVUS Assessment of Cardiac Allograft Vasculopathy.** *Journal of the American College of Cardiology*
Okada, K., Fearon, W. F., Luikart, H., Kitahara, H., Otagiri, K., Tanaka, S., Kimura, T., Yock, P. G., Fitzgerald, P. J., Yeung, A. C., Valantine, H. A., Khush, K. K., Honda, et al
2016; 68 (4): 382-392
- **Acute stent recoil and optimal balloon inflation strategy: an experimental study using real-time optical coherence tomography.** *EuroIntervention*
Kitahara, H., Waseda, K., Yamada, R., Otagiri, K., Tanaka, S., Kobayashi, Y., Okada, K., Kume, T., Nakagawa, K., Teramoto, T., Ikeno, F., Yock, P. G., Fitzgerald, et al
2016; 12 (2): e190-8
- **Association of periarterial neovascularization with progression of cardiac allograft vasculopathy and long-term clinical outcomes in heart transplant recipients** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Kitahara, H., Okada, K., Tanaka, S., Yang, H., Miki, K., Kobayashi, Y., Kimura, T., Luikart, H., Yock, P. G., Yeung, A. C., Fitzgerald, P. J., Khush, K. K., Fearon, et al
2016; 35 (6): 752-759
- **Quantitative precision of optical frequency domain imaging: direct comparison with frequency domain optical coherence tomography and intravascular ultrasound.** *Cardiovascular intervention and therapeutics*
Kobayashi, Y., Kitahara, H., Tanaka, S., Okada, K., Kimura, T., Ikeno, F., Yock, P. G., Fitzgerald, P. J., Honda, Y.
2016; 31 (2): 79-88
- **Functional Versus Anatomic Assessment of Myocardial Bridging by Intravascular Ultrasound: Impact of Arterial Compression on Proximal Atherosclerotic Plaque.** *Journal of the American Heart Association*
Yamada, R., Tremmel, J. A., Tanaka, S., Lin, S., Kobayashi, Y., Hollak, M. B., Yock, P. G., Fitzgerald, P. J., Schnittger, I., Honda, Y.
2016; 5 (4)
- **Relative dose and vascular response after drug-eluting stent implantation: A dosimetric 3D-intravascular ultrasound study** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
Kitahara, H., Waseda, K., Yamada, R., Sakamoto, K., Yock, P. G., Fitzgerald, P. J., Honda, Y.
2016; 204: 211-217
- **Paradoxical Vessel Remodeling of the Proximal Segment of the Left Anterior Descending Artery Predicts Long-Term Mortality After Heart Transplantation** *JACC-HEART FAILURE*
Okada, K., Kitahara, H., Yang, H., Tanaka, S., Kobayashi, Y., Kimura, T., Luikart, H., Yock, P. G., Yeung, A. C., Valantine, H. A., Fitzgerald, P. J., Khush, K. K., Honda, et al
2015; 3 (12): 942-952
- **Paradoxical Vessel Remodeling of the Proximal Segment of the Left Anterior Descending Artery Predicts Long-Term Mortality After Heart Transplantation.** *JACC. Heart failure*
Okada, K., Kitahara, H., Yang, H., Tanaka, S., Kobayashi, Y., Kimura, T., Luikart, H., Yock, P. G., Yeung, A. C., Valantine, H. A., Fitzgerald, P. J., Khush, K. K., Honda, et al
2015; 3 (12): 942-952

- **A Y-shaped bifurcation-dedicated stent for the treatment of de novo coronary bifurcation lesions: an IVUS analysis from the BRANCH trial.** *EuroIntervention*
Sakata, K., Koo, B., Waseda, K., Nakatani, D., Yock, P. G., Whitbourn, R., Worthley, S. G., Ormiston, J., Webster, M., Wilkins, G. T., Honda, Y., Meredith, I. T., Fitzgerald, et al
2015; 10 (11): e1-8
- **Intravascular Ultrasound Analysis of Small Vessel Lesions Treated with the Sparrow Coronary Stent System: Results of the CARE II Trial** *CATHERIZATION AND CARDIOVASCULAR INTERVENTIONS*
Kume, T., Waseda, K., Koo, B., Yock, P. G., Botelho, R., Verheye, S., Whitbourn, R., Meredith, I., Worthley, S., Hai, K. T., Honda, Y., Abizaid, A., Fitzgerald, et al
2014; 83 (1): 19-24
- **Intracoronary and Retrograde Coronary Venous Myocardial Delivery of Adipose-Derived Stem Cells in Swine Infarction Lead to Transient Myocardial Trapping with Predominant Pulmonary Redistribution** *CATHERIZATION AND CARDIOVASCULAR INTERVENTIONS*
Hong, S. J., Hou, D., Brinton, T. J., Johnstone, B., Feng, D., Rogers, P., Fearon, W. F., Yock, P., March, K. L.
2014; 83 (1): E17-E25
- **Intracoronary and retrograde coronary venous myocardial delivery of adipose-derived stem cells in swine infarction lead to transient myocardial trapping with predominant pulmonary redistribution.** *Catheterization and cardiovascular interventions*
Hong, S. J., Hou, D., Brinton, T. J., Johnstone, B., Feng, D., Rogers, P., Fearon, W. F., Yock, P., March, K. L.
2014; 83 (1): E17-25
- **Outcomes from a Postgraduate Biomedical Technology Innovation Training Program: The First 12 Years of Stanford Biodesign** *ANNALS OF BIOMEDICAL ENGINEERING*
Brinton, T. J., Kurihara, C. Q., Camarillo, D. B., Pietzsch, J. B., Gorodsky, J., Zenios, S. A., Doshi, R., Shen, C., Kumar, U. N., Mairal, A., Watkins, J., Popp, R. L., Wang, et al
2013; 41 (9): 1803-1810
- **Cost-effectiveness landscape analysis of treatments addressing xerostomia in patients receiving head and neck radiation therapy.** *Oral surgery, oral medicine, oral pathology and oral radiology*
Sasportas, L. S., Hosford, D. N., Sodini, M. A., Waters, D. J., Zambricki, E. A., Barral, J. K., Graves, E. E., Brinton, T. J., Yock, P. G., Le, Q., Sirjani, D.
2013; 116 (1): e37-51
- **Cost-effectiveness landscape analysis of treatments addressing xerostomia in patients receiving head and neck radiation therapy.** *Oral surgery, oral medicine, oral pathology and oral radiology*
Sasportas, L. S., Hosford, D. N., Sodini, M. A., Waters, D. J., Zambricki, E. A., Barral, J. K., Graves, E. E., Brinton, T. J., Yock, P. G., Le, Q., Sirjani, D.
2013; 116 (1): e37-51
- **IMPACT OF MYOCARDIAL BRIDGING ON MAJOR ADVERSE CARDIAC EVENTS: VERY LONG-TERM CLINICAL OUTCOMES FOLLOWING FIRST- AND SECOND-GENERATION DRUG-ELUTING STENT IMPLANTATION** *62nd Annual Scientific Session of the American-College-of-Cardiology*
Yamada, R., Sakamoto, K., Kitahara, H., Yock, P., Fitzgerald, P., Honda, Y.
ELSEVIER SCIENCE INC.2013: E1725-E1725
- **FINAL IVUS RESULTS FROM THE DESOLVE-I FIRST-IN-HUMAN TRIAL: LONG-TERM ARTERIAL RESPONSE TO A NOVEL SIROLIMUS-ELUTING STENT WITH FULLY ABSORBABLE POLYMER AND CRYSTALLINE DRUG** *62nd Annual Scientific Session of the American-College-of-Cardiology*
Otagiri, K., Sakamoto, K., Waseda, K., Yock, P., Whitbourn, R., Vrolix, M., Stewart, J., Webster, M., Honda, Y., Wijns, W., Ormiston, J., Fitzgerald, P.
ELSEVIER SCIENCE INC.2013: E1666-E1666
- **ACCELERATED NEOINTIMAL HYPERPLASIA AFTER DES IMPLANTATION IN LESIONS WITH IVUS-SIGNAL ATTENUATION: A 3D-IVUS ANALYSIS FROM THE J-DESSERT TRIAL** *62nd Annual Scientific Session of the American-College-of-Cardiology*
Kitahara, H., Waseda, K., Sakamoto, K., Yamada, R., Huang, C., Nakatani, D., Sakata, K., Kawarada, O., Yock, P. G., Matsuyama, Y., Yokoi, H., Nakamura, M., Muramatsu, et al
ELSEVIER SCIENCE INC.2013: E1790-E1790
- **PREDICTORS OF LATE TARGET LESION REVASCLARIZATION AFTER ENDEAVOR AND RESOLUTE ZOTAROLIMUS-ELUTING STENT IMPLANTATION: 3D-INTRAVASCULAR ULTRASOUND AND ANGIOGRAPHIC ANALYSES** *62nd Annual Scientific Session of the American-College-of-Cardiology*
Kitahara, H., Kume, T., Waseda, K., Sakamoto, K., Yamada, R., Yock, P. G., Yeung, A. C., Fitzgerald, P. J., Honda, Y.
ELSEVIER SCIENCE INC.2013: E1777-E1777

- **PLAQUE ASSESSMENT WITH A NOVEL HIGH-DEFINITION 60-MHZ IVUS IMAGING SYSTEM: COMPARISON WITH CONVENTIONAL 40 MHZ IVUS AND OPTICAL COHERENCE TOMOGRAPHY** *62nd Annual Scientific Session of the American-College-of-Cardiology*
Tanaka, S., Sakamoto, K., Yamada, R., Nakagawa, K., Yock, P. G., Fitzgerald, P. J., Ikeno, F., Honda, Y.
ELSEVIER SCIENCE INC.2013: E1878–E1878
- **Improved automated lumen contour detection by novel multifrequency processing algorithm with current intravascular ultrasound system** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*
Kume, T., Kim, B., Waseda, K., Sathyanarayana, S., Li, W., Teo, T., Yock, P. G., Fitzgerald, P. J., Honda, Y.
2013; 81 (3): E173-E177
- **Gastroenterology and Biodesign: Contributing to the Future of Our Specialty** *GASTROENTEROLOGY*
Nimgaonkar, A., Yock, P. G., Brinton, T. J., Krummel, T., Pasricha, P. J.
2013; 144 (2): 258-262
- **Impact of Diabetes Mellitus on Vessel Response in the Drug-Eluting Stent Era Pooled Volumetric Intravascular Ultrasound Analyses** *CIRCULATION-CARDIOVASCULAR INTERVENTIONS*
Sakata, K., Waseda, K., Kume, T., Otake, H., Nakatani, D., Yock, P. G., Fitzgerald, P. J., Honda, Y.
2012; 5 (6): 763-771
- **Clinical Feasibility of Higher-Frequency IVUS for Quantitative Measurements of Native Coronary Lesions: First-in-Human Experience with 60MHz versus 40MHz IVUS Imaging** *Transcatheter Cardiovascular Therapeutics (TCT) Symposium*
Huang, C., Sakamoto, K., Nakagawa, K., Yock, P., Ebner, A., Fitzgerald, P., Ikeno, F., Honda, Y.
ELSEVIER SCIENCE INC.2012: B81–B82
- **Impact of Baseline Peri-Stent Plaque Volume on Positive Vessel Remodeling after Implantation of Paclitaxel Eluting Stents: A Pooled Volumetric Intravascular Ultrasound Analysis** *Transcatheter Cardiovascular Therapeutics (TCT) Symposium*
Sakamoto, K., Waseda, K., Kitahara, H., Yamada, R., Huang, C., Yock, P., Fitzgerald, P., Honda, Y.
ELSEVIER SCIENCE INC.2012: B85–B85
- **Myocardial Bridging Increases Diffuse and Focal Chronic Stent Recoil Following Drug-Eluting Stent Implantation** *Transcatheter Cardiovascular Therapeutics (TCT) Symposium*
Yamada, R., Waseda, K., Sakamoto, K., Kitahara, H., Huang, C., Yock, P., Fitzgerald, P., Honda, Y.
ELSEVIER SCIENCE INC.2012: B122–B122
- **Impact of Stent Edge Plaque Burden on Lumen Preservation After DES Implantation: A 3D-IVUS Analysis from the J-DESSERT Trial** *Transcatheter Cardiovascular Therapeutics (TCT) Symposium*
Kitahara, H., Waseda, K., Sakamoto, K., Yamada, R., Huang, C., Nakatani, D., Sakata, K., Kawarada, O., Yock, P., Matsuyama, Y., Yokoi, H., Nakamura, M., Muramatsu, et al
ELSEVIER SCIENCE INC.2012: B74–B74
- **Intravascular Ultrasound Comparison of Small Coronary Lesions Between Novel Guidewire-Based Sirolimus-Eluting Stents and Conventional Sirolimus-Eluting Stents** *JOURNAL OF INVASIVE CARDIOLOGY*
Kume, T., Waseda, K., Koo, B., Botelho, R., Verheye, S., Whitbourn, R., Meredith, I., Worthley, S., Hai, K. T., Yock, P. G., Azevedo de Oliveira, F. R., Abizaid, A., Fitzgerald, et al
2012; 24 (10): 489-493
- **Applying a Structured Innovation Process to Interventional Radiology: A Single-Center Experience** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Sista, A. K., Hwang, G. L., Hovsepian, D. M., Sze, D. Y., Kuo, W. T., Kothary, N., Louie, J. D., Yamada, K., Hong, R., Dhanani, R., Brinton, T. J., Krummel, T. M., Makower, et al
2012; 23 (4): 488-494
- **EFFECTS OF INTER-STENT COMPRESSED INTIMAL VOLUME AFTER DRUG-ELUTING STENT TREATMENTS FOR BARE METAL IN-STENT RESTENOSIS: A VOLUMETRIC INTRAVASCULAR ULTRASOUND ANALYSIS** *61st Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC)/Conference on ACC-i2 with TCT*
Sakamoto, K., Waseda, K., Yock, P., Holmes, D., Stone, G., Fitzgerald, P., Honda, Y.
ELSEVIER SCIENCE INC.2012: E113–E113
- **VESSEL RESPONSE TO NOVEL SIROLIMUS-ELUTING STENTS WITH ABSORBABLE POLYMER IN DE NOVO CORONARY LESIONS: FIRST-IN-HUMAN IVUS RESULTS FROM THE DESSOLVE-I 8-MONTH COHORT** *61st Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC)/Conference on ACC-i2 with TCT*
Sakamoto, K., Waseda, K., Yock, P., Whitbourn, R., Vrolix, M., Stewart, J., Webster, M., Wijns, W., Ormiston, J., Honda, Y., Fitzgerald, P.

ELSEVIER SCIENCE INC.2012: E154–E154

- **COMPARISON OF VASCULAR RESPONSE TO NOVOLIMUS-ELUTING STENT VERSUS ZOTAROLIMUS-ELUTING STENT IMPLANTATION: IVUS RESULTS FROM THE EXCELLA BD TRIAL** *61st Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC)/Conference on ACC-i2 with TCT*
Kitahara, H., Waseda, K., Yamada, R., Hahn, J., Sakamoto, K., Yock, P., Schofer, J., Hauptmann, K. E., Dubois, C., Abizaid, A., Verheye, S., Honda, Y., Fitzgerald, et al
ELSEVIER SCIENCE INC.2012: E210–E210
- **Three-Dimensional Microstructural Changes in Murine Abdominal Aortic Aneurysms Quantified Using Immunofluorescent Array Tomography** *JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY*
Saatchi, S., Azuma, J., Wanchoo, N., Smith, S. J., Yock, P. G., Taylor, C. A., Tsao, P. S.
2012; 60 (2): 97-109
- **Sex Differences in Neointimal Hyperplasia Following Zotarolimus-Eluting Stent Implantation: Potential Impact of Drug and Carrier Matrix** *Scientific Sessions of the American-Heart-Association/Resuscitation Science Symposium*
Yamada, R., Nakatani, D., Kume, T., Waseda, K., Tremmel, J. A., Yock, P. G., Meredith, I. T., Leon, M. B., Mauri, L., Yeung, A. C., Honda, Y., Fitzgerald, P. J.
LIPPINCOTT WILLIAMS & WILKINS.2011
- **Impact of Stent Size and Length on Neointimal Hyperplasia After Resolute Zotarolimus-Eluting Stent Implantation: Insights From RESOLUTE Trials** *23rd Annual Scientific Symposium of Transcatheter Cardiovascular Therapeutics (TCT)*
Yamada, R., Kume, T., Waseda, K., Kitahara, H., Sakamoto, K., Yock, P. G., Meredith, I. T., Leon, M. B., Mauri, L., Yeung, A. C., Honda, Y., Fitzgerald, P. J.
ELSEVIER SCIENCE INC.2011: B62–B62
- **Relative Dose and Vascular Response After Resolute Zotarolimus-Eluting Stent Implantation: A Dosimetric 3D-Intravascular Ultrasound Study** *23rd Annual Scientific Symposium of Transcatheter Cardiovascular Therapeutics (TCT)*
Kitahara, H., Kume, T., Waseda, K., Sakamoto, K., Yamada, R., Yock, P., Meredith, I. T., Leon, M. B., Mauri, L., Yeung, A. C., Fitzgerald, P. J., Honda, Y.
ELSEVIER SCIENCE INC.2011: B168–B169
- **Arterial Response to Sirolimus Eluting Stents with Bioabsorbable Polymer: First IVUS Report from the DESSOLVE-I FIM Trial** *23rd Annual Scientific Symposium of Transcatheter Cardiovascular Therapeutics (TCT)*
Sakamoto, K., Waseda, K., Yock, P. G., Honda, Y., Wijns, W., Ormiston, J., Fitzgerald, P. J.
ELSEVIER SCIENCE INC.2011: B32–B32
- **Sex Differences in Neointimal Hyperplasia Following Endeavor Zotarolimus-Eluting Stent Implantation** *AMERICAN JOURNAL OF CARDIOLOGY*
Nakatani, D., Aki, J., Tremmel, J. A., Waseda, K., Otake, H., Koo, B., Miyazawa, A., Hongo, Y., Hur, S., Sakurai, R., Yock, P. G., Honda, Y., Fitzgerald, et al
2011; 108 (7): 912-917
- **Teaching Biomedical Technology Innovation as a Discipline** *SCIENCE TRANSLATIONAL MEDICINE*
Yock, P. G., Brinton, T. J., Zenios, S. A.
2011; 3 (92)
- **Impact of Donor-Transmitted Atherosclerosis on Early Cardiac Allograft Vasculopathy: New Findings by Three-Dimensional Intravascular Ultrasound Analysis** *TRANSPLANTATION*
Yamasaki, M., Sakurai, R., Hirohata, A., Honda, Y., Bonneau, H. N., Luikart, H., Yock, P. G., Fitzgerald, P. J., Yeung, A. C., Valentine, H. A., Fearon, W. F.
2011; 91 (12): 1406-1411
- **The Use of Immunofluorescent Array Tomography to Study the Three-Dimensional Microstructure of Murine Blood Vessels** *CELLULAR AND MOLECULAR BIOENGINEERING*
Saatchi, S., Wanchoo, N., Azuma, J., Smith, S. J., Tsao, P. S., Yock, P. G., Taylor, C. A.
2011; 4 (2): 311-323
- **VESSEL RESPONSE TO THE NOVEL POLYMER-FREE BIOFREEDOM STENT VERSUS CONVENTIONAL DURABLE POLYMER COATING STENT: SHORT- AND MID-TERM INTRAVASCULAR ULTRASOUND RESULTS FROM THE BIOFREEDOM FIRST-IN-MAN TRIAL** *60th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC) / I2 Summit / ACCF/Herman K. Gold Young Investigator's Award in Molecular and Cellular Cardiology*
Sakata, K., Kim, B., Otake, H., Waseda, K., Schuler, G. C., Hauptmann, K. E., Schofer, J., Yock, P. G., Honda, Y., Grube, E., Fitzgerald, P. J.
ELSEVIER SCIENCE INC.2011: E1758–E1758
- **GENDER-ASSOCIATED DIFFERENCES IN NEOINTIMAL VOLUME AFTER CORONARY ZOTAROLIMUS-ELUTING STENT IMPLANTATION: RELATIONSHIP TO RENAL FUNCTION** *60th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC) / I2 Summit / ACCF/Herman K. Gold Young Investigator's Award in Molecular and Cellular Cardiology*

- Kawarada, O., Waseda, K., Kume, T., Sakata, K., Yock, P. G., Honda, Y., Fitzgerald, P. J.
ELSEVIER SCIENCE INC.2011: E1902–E1902
- **NONPOLYMER-BASED BIOLIMUS-ELUTING STENT ACCELERATES OVERALL NEOINTIMAL COVERAGE: SHORT- AND MID-TERM INTRAVASCULAR ULTRASOUND RESULTS FROM STEALTH AND BIOFREEDOM TRIALS** *60th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC) / I2 Summit / ACCF/Herman K. Gold Young Investigator's Award in Molecular and Cellular Cardiology*
Sakata, K., Kim, B., Otake, H., Waseda, K., Schuler, G. C., Hauptmann, K. E., Schofer, J., Yock, P. G., Grube, E., Fitzgerald, P. J., Honda, Y.
ELSEVIER SCIENCE INC.2011: E1756–E1756
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