



Peter Fitzgerald, MD, PhD

Professor (Research) of Medicine (Cardiovascular), Emeritus
Medicine - Cardiovascular Medicine

 Resume available Online

Bio

BIO

Dr. Peter Fitzgerald is the Director of the Center for Cardiovascular Technology and the Cardiovascular Core Analysis Laboratory (CCAL) at Stanford University School of Medicine. He is an interventional cardiologist and holds a PhD in engineering. He is a professor in both the Department of Medicine and the Department of Engineering (by courtesy) at Stanford.

Dr. Fitzgerald has led or participated in more than 175 clinical trials, has published more than 550 manuscripts and book chapters, and lectures worldwide. Over the past two decades, he has trained more than 150 postdoctoral researchers in engineering and medicine. Most recently, Dr. Fitzgerald completed two years of study toward a master's degree focused on machine learning and agentic principles supporting AI.

Dr. Fitzgerald has been a principal founder of 24 medical startups in the San Francisco Bay Area and has transitioned 17 of them to large medical device companies. He serves on several boards of directors and advises dozens of medical device startups, as well as multinational healthcare companies, on the design and development of new diagnostic and therapeutic devices in the cardiovascular arena. In 2001, Dr. Fitzgerald was part of the founding team of LVP Capital, a venture firm focused on medical device and biotechnology startups in San Francisco. In 2010, he co-founded Triventures, an early-stage medical technology fund with offices in Palo Alto and Tel Aviv.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

Publications

PUBLICATIONS

- **INTRAVASCULAR ULTRASOUND PREDICTORS OF 4-YEAR CLINICAL OUTCOMES FOLLOWING ABSORB BIORESORBABLE SCAFFOLD IMPLANTATION: INSIGHTS FROM THE ABSORB JAPAN TRIAL**
Nishi, T., Okada, K., Kitahara, H., Kameda, R., Ikutomi, M., Hollak, B., Yock, P., Popma, J., Kusano, H., Cheong, W., Sudhir, K., Fitzgerald, P., Honda, et al
ELSEVIER SCIENCE INC.2019: 1305
- **PERIARTERIAL NEOVASCULARIZATION AND ATTENUATED-SIGNAL PLAQUE PREDICT LONG-TERM MORTALITY AFTER HEART TRANSPLANTATION: RISK STRATIFICATION WITH IVUS-DETERMINED CORONARY INFLAMMATORY FINDINGS**
Kashiyama, K., Okada, K., Kitahara, H., Kameda, R., Hollak, M., Luikart, H., Yock, P., Yeung, A., Fitzgerald, P., Khush, K., Fearon, W., Honda, Y.
ELSEVIER SCIENCE INC.2019: 1428

- **A FIRST-IN-HUMAN STUDY OF THE SECOND-GENERATION, THIN-STRUT, EVEROLIMUS-ELUTING BIORESORBABLE SCAFFOLD: 6-MONTH IVUS AND OCT RESULTS FROM THE FAST CLINICAL TRIAL**
Kameda, R., Okada, K., Ikutomi, M., Hollak, M., Yock, P., Popma, J., Seneviratne, S., Erglis, A., Walters, D., Whitbourn, R., Layland, J., Stewart, J., El-Jack, et al
ELSEVIER SCIENCE INC.2019: 1111
- **Cardiac function response to stenting in atherosclerotic renal artery disease with and without heart failure: results from the Carmel study. *ESC heart failure***
Kawarada, O. n., Kume, T. n., Zen, K. n., Nakamura, S. n., Hozawa, K. n., Akimitsu, T. n., Asano, H. n., Ando, H. n., Yamamoto, Y. n., Yamashita, T. n., Shinozaki, N. n., Odashiro, K. n., Sato, et al
2019
- **Comparison between instantaneous wave-free ratio versus morphometric assessments by intracoronary imaging. *Heart and vessels***
Matsushita, K., Hibi, K., Okada, K., Sakamaki, K., Akiyama, E., Kimura, Y., Matsuzawa, Y., Maejima, N., Iwahashi, N., Tsukahara, K., Kosuge, M., Ebina, T., Fitzgerald, et al
2018
- **Bioresorbable Scaffold for Treatment of Coronary Artery Lesions Intravascular Ultrasound Results From the ABSORB Japan Trial *JACC-CARDIOVASCULAR INTERVENTIONS***
Okada, K., Honda, Y., Kitahara, H., Otagiri, K., Tanaka, S., Hollak, M., Yock, P. G., Popma, J. J., Kusano, H., Cheong, W., Sudhir, K., Fitzgerald, P. J., Kimura, et al
2018; 11 (7): 648–61
- **BIORESORBABLE SCAFFOLD FOR TREATMENT OF CORONARY ARTERY LESIONS: FINAL INTRAVASCULAR ULTRASOUND RESULTS FROM THE ABSORB JAPAN TRIAL**
Okada, K., Honda, Y., Kitahara, H., Ikutomi, M., Kameda, R., Hollak, M., Yock, P., Kusano, H., Cheong, W., Sudhir, K., Fitzgerald, P., Kimura, T.
ELSEVIER SCIENCE INC.2018: 1020
- **Bioresorbable Scaffold for the Treatment of Calcified Coronary Lesions: IVUS Insights from the ABSORB Japan Trial**
Okada, K., Honda, Y., Kitahara, H., Hollak, M., Yock, P. G., Kusano, H., Cheong, W., Sudhir, K., Fitzgerald, P. J., Kimura, T.
ELSEVIER SCIENCE INC.2017: B19
- **Association Between Scaffold Under-Expansion and Late Lumen Loss after Bioresorbable Scaffold Implantation: IVUS and Angiographic Insights from the ABSORB Japan Trial**
Okada, K., Honda, Y., Kitahara, H., Hollak, M., Yock, P. G., Popma, J. J., Kusano, H., Cheong, W., Sudhir, K., Fitzgerald, P. J., Kimura, T.
ELSEVIER SCIENCE INC.2017: B5
- **Differential Late Stent Enlargement and Vascular Response Following New-Generation Self-Expanding Stent Implantation in Tapered Peripheral Arteries: Insights from Serial Optical Coherence Tomography**
Ikutomi, M., Okada, K., Miki, K., Kameda, R., Otsuka, F., Yock, P. G., Fitzgerald, P. J., Kawarada, O., Honda, Y.
ELSEVIER SCIENCE INC.2017: B165–B166
- **Comparison of Bioresorbable Scaffold Measurements between Intravascular Ultrasound and Quantitative Coronary Angiography in the ABSORB Japan Trial**
Okada, K., Honda, Y., Kitahara, H., Hollak, M., Yock, P. G., Popma, J. J., Kusano, H., Cheong, W., Sudhir, K., Fitzgerald, P. J., Kimura, T.
ELSEVIER SCIENCE INC.2017: B57–B58
- **Impact of attenuated-signal plaque observed by intravascular ultrasound on vessel response after drug-eluting stent implantation *ATHEROSCLEROSIS***
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
2017; 259: 68-74
- **Impact of Stent Size Selection on Acute and Long-Term Outcomes After Drug-Eluting Stent Implantation in De Novo Coronary Lesions. *Circulation. Cardiovascular interventions***
Kitahara, H. n., Okada, K. n., Kimura, T. n., Yock, P. G., Lansky, A. J., Popma, J. J., Yeung, A. C., Fitzgerald, P. J., Honda, Y. n.
2017; 10 (10)
- **Assessment of bioresorbable scaffold with a novel high-definition 60 MHz IVUS imaging system: Comparison with 40-MHz IVUS referenced to optical coherence tomography. *Catheterization and cardiovascular interventions : official journal of the Society for Cardiac Angiography & Interventions***
Okada, K. n., Kitahara, H. n., Mitsutake, Y. n., Tanaka, S. n., Kimura, T. n., Yock, P. G., Fitzgerald, P. J., Ikeno, F. n., Honda, Y. n.

2017

- **Comparative analysis method of permanent metallic stents (XIENCE) and bioresorbable poly-L-lactic (PLLA) scaffolds (Absorb) on optical coherence tomography at baseline and follow-up** *EUROINTERVENTION*
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- **DESyne novolimus-eluting coronary stent is superior to Endeavor zotarolimus-eluting coronary stent at five-year follow-up: final results of the multicentre EXCELLA II randomised controlled trial** *EUROINTERVENTION*
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2016; 12 (11): E1336-E1342
- **Characteristics of Late-Acquired Incomplete Stent Apposition: A Comparison With First-Generation and Second-Generation Drug-Eluting Stents.** *journal of invasive cardiology*
Waseda, K., Ako, J., Kume, T., Fitzgerald, P. J., Honda, Y.
2016; 28 (8): 323-329
- **Attenuated-Signal Plaque Progression Predicts Long-Term Mortality After Heart Transplantation: IVUS Assessment of Cardiac Allograft Vasculopathy.** *Journal of the American College of Cardiology*
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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
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- **Functional Versus Anatomic Assessment of Myocardial Bridging by Intravascular Ultrasound: Impact of Arterial Compression on Proximal Atherosclerotic Plaque.** *Journal of the American Heart Association*
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- **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., Valentine, H. A., Fitzgerald, P. J., Khush, K. K., Honda, et al
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- **Evaluation of a fully bioresorbable vascular scaffold in patients with coronary artery disease: Design of and rationale for the ABSORB III randomized trial** *AMERICAN HEART JOURNAL*
Kereiakes, D. J., Ellis, S. G., Popma, J. J., Fitzgerald, P. J., Samady, H., Jones-McMeans, J., Zhang, Z., Cheong, W., Su, X., Ben-Yehuda, O., Stone, G. W.
2015; 170 (4): 641-?
- **Effect of Sex Differences on Invasive Measures of Coronary Microvascular Dysfunction in Patients With Angina in the Absence of Obstructive Coronary Artery Disease** *JACC-CARDIOVASCULAR INTERVENTIONS*
Kobayashi, Y., Fearon, W. F., Honda, Y., Tanaka, S., Pargaonkar, V., Fitzgerald, P. J., Lee, D. P., Stefanick, M., Yeung, A. C., Tremmel, J. A.
2015; 8 (11): 1433-1441
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Okada, K., Hibi, K., Gohbara, M., Kataoka, S., Takano, K., Akiyama, E., matsuzawa, Y., Saka, K., Maejima, N., Endo, M., Iwahashi, N., Tsukahara, K., Kosuge, et al
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- **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
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- **Baseline and 9 Months IVUS Analysis of the Bifurcation-Dedicated Biolimus A9-Eluting Axxess Stent System: The DIVERGE IVUS Substudy** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*
Buysschaert, I., Sanidas, E., Hasegawa, T., Koo, B., Honda, Y., Fitzgerald, P. J., Verheye, S.
2014; 84 (7): 1062-1070
- **First-in-Man Study of the Low-Dose Paclitaxel Using the COBRA-P Drug-Eluting Coronary Stent System With a Novel Biodegradable Coating in De Novo Coronary Lesions: IVUS Results From the PLUS-ONE Trial** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*
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- **Intravascular Ultrasound Analysis of Small Vessel Lesions Treated with the Sparrow Coronary Stent System: Results of the CARE II Trial** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*
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Kawarada, O., Yasuda, S., Huang, J., Honda, Y., Fitzgerald, P. J., Ishihara, M., Ogawa, H.
2014; 78 (7): 1540-1549
- **First-in-Human Evaluation of a Bioabsorbable Polymer-Coated Sirolimus-Eluting Stent Imaging and Clinical Results of the DESSOLVE I Trial (DES With Sirolimus and a Bioabsorbable Polymer for the Treatment of Patients With De Novo Lesion in the Native Coronary Arteries)** *JACC-CARDIOVASCULAR INTERVENTIONS*
Ormiston, J., Webster, M., Stewart, J., Vrolix, M., Whitbourn, R., Donohoe, D., Knape, C., Lansky, A., Attizzani, G. F., Fitzgerald, P., Kandzari, D. E., Wijns, W.
2013; 6 (10): 1026-1034
- **Variability in quantitative and qualitative analysis of intravascular ultrasound and frequency domain optical coherence tomography.** *Catheterization and cardiovascular interventions*
Abnoui, F., Waseda, K., Kume, T., Otake, H., Kawarada, O., Yong, C. M., Fitzgerald, P. J., Honda, Y., Yeung, A. C., Fearon, W. F.
2013; 82 (3): E192-9
- **Variability in quantitative and qualitative analysis of intravascular ultrasound and frequency domain optical coherence tomography** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*
Abnoui, F., Waseda, K., Kume, T., Otake, H., Kawarada, O., Yong, C. M., Fitzgerald, P. J., Honda, Y., Yeung, A. C., Fearon, W. F.
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2013; 81 (4): E199-E205
- **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
- **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
- **Predictors of adverse clinical outcomes after successful infrapopliteal intervention** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*
Kawarada, O., Fujihara, M., Higashimori, A., Yokoi, Y., Honda, Y., Fitzgerald, P. J.
2012; 80 (5): 861-871
- **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
- **Comparison of vascular response to the everolimus-eluting stent versus the paclitaxel-eluting stent: intravascular ultrasound results from the SPIRIT III trial** *EUROINTERVENTION*
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- **Mid-Term Results of Everolimus-Eluting Stent in a Japanese Population Compared With a US Randomized Cohort: SPIRIT III Japan Registry With Harmonization by Doing** *JOURNAL OF INVASIVE CARDIOLOGY*
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- **Consensus Standards for Acquisition, Measurement, and Reporting of Intravascular Optical Coherence Tomography Studies A Report From the International Working Group for Intravascular Optical Coherence Tomography Standardization and Validation** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
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- **Intravascular Ultrasound Assessment of Postprocedural Incomplete Stent Apposition** *JOURNAL OF INVASIVE CARDIOLOGY*
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- **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)*
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- **Discrepancy in the Assessment of Jailed Side Branch Lesions by Visual Estimation and Quantitative Coronary Angiographic Analysis: Comparison With Fractional Flow Reserve** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*
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- **Sex Differences in Neointimal Hyperplasia Following Endeavor Zotarolimus-Eluting Stent Implantation** *AMERICAN JOURNAL OF CARDIOLOGY*
Nakatani, D., Ako, 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
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- **First-in-human experience with the Medtronic Bifurcation Stent System** *EUROINTERVENTION*
Meredith, I. T., Worthley, S., Whitbourn, R., Webster, M., Fitzgerald, P. J., Ormiston, J.
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- **Impact of Donor-Transmitted Atherosclerosis on Early Cardiac Allograft Vasculopathy: New Findings by Three-Dimensional Intravascular Ultrasound Analysis** *TRANSPLANTATION*
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- **Impact of Polymer Formulations on Neointimal Proliferation After Zotarolimus-Eluting Stent With Different Polymers Insights From the RESOLUTE Trial** *CIRCULATION-CARDIOVASCULAR INTERVENTIONS*
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- **Clinical Evaluation of the Resolute Zotarolimus-Eluting Coronary Stent System in the Treatment of De Novo Lesions in Native Coronary Arteries The RESOLUTE US Clinical Trial** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
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2011; 57 (17): 1778-1783
- **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) / 12 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.
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- **Intravascular Ultrasound Results From the NEVO ResElution-I Trial A Randomized, Blinded Comparison of Sirolimus-Eluting NEVO Stents With Paclitaxel-Eluting Taxus Liberte Stents in De Novo Native Coronary Artery Lesions** *CIRCULATION-CARDIOVASCULAR INTERVENTIONS*
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- **Stent-Assisted Below-the-Ankle Angioplasty for Limb Salvage** *JOURNAL OF ENDOVASCULAR THERAPY*
Kawarada, O., Yokoi, Y., Higashimori, A., Waratani, N., Waseda, K., Honda, Y., Fitzgerald, P. J.
2011; 18 (1): 32-42
- **Six-Month Results of the NEVO RES-ELUTION I (NEVO RES-I) Trial A Randomized, Multicenter Comparison of the NEVO Sirolimus-Eluting Coronary Stent With the TAXUS Liberte Paclitaxel-Eluting Stent in De Novo Native Coronary Artery Lesions** *CIRCULATION-CARDIOVASCULAR INTERVENTIONS*
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