Stanford

Euan A. Ashley

Associate Dean, School of Medicine, Roger and Joelle Burnell Professor of Genomics and Precision Health, Professor of Medicine (Cardiovascular Medicine), of Genetics, of Biomedical Data Science and, by courtesy, of Pathology

Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Medicine**

  300 Pasteur Dr Rm A265

  MC 5319

  Stanford, CA 94305

  Tel (650) 736-7878 **Fax** (650) 498-7452

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Brooke Gazzoli - Administrative Supervisor

  Email bgazzoli@stanford.edu

Bio

BIO

Born in Scotland, Dr. Ashley graduated with 1st class Honors in Physiology and Medicine from the University of Glasgow. He completed medical residency and a PhD at the University of Oxford before moving to Stanford University where he trained in cardiology, joining the faculty in 2006. His group is focused on the science of precision medicine. He is best known for his work helping establish the field of medical genomics. His team developed some of the earliest tools for the interpretation of the human genome in the context of human health. He founded the Clinical Genomics Program and the Center for Inherited Cardiovascular Disease at Stanford. He was the first co-chair of the steering committee of the national Undiagnosed Diseases Network. He was a recipient of the National Innovation Award from the American Heart Association and the NIH Director’s New Innovator Award. He was recognized by the Obama White House for his contributions to Personalized Medicine. In 2018, he was awarded the American Heart Association Medal of Honor for Genomic and Precision Medicine. He was appointed Stanford Associate Dean in 2019 and became the inaugural holder of the Roger and Joelle Burnell Chair in Genomics and Precision Health in 2021. In 2023, he became a Fellow of the John Simon Guggenheim Memorial Foundation. He is co-founder of several companies including Personalis, Deepcell, and Svexa. His first book The Genome Odyssey - Medical Mysteries and the Incredible Quest to Solve Them was released in 2021. Father to three Americans, in his spare time, he pilots planes, tries to understand American football, plays jazz saxophone, and conducts research on the health benefits of single malt Scotch whisky.

CLINICAL FOCUS

- Cardiology
- Inherited cardiovascular disease
- Hypertrophic Cardiomyopathy
- Cardiomyopathy, Dilated
- Sports Cardiology
- Heart Failure
- Arrhythmogenic Right Ventricular Dysplasia
- Left ventricular non-compaction cardiomyopathy
- Genomic medicine

- Undiagnosed disease

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Professor - University Medical Line, Genetics
- Professor - University Medical Line, Biomedical Data Science
- Professor - University Medical Line (By courtesy), Pathology
- Member, Bio-X
- Member, Cardiovascular Institute
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Founding Director, Stanford Center for Inherited Cardiovascular Disease, (2010- present)
- Chair, Stanford Medicine Clinical Genomics Advisory Committee, (2020- present)
- Co-Director, Stanford Center for Digital Health, (2017- present)
- Director, Stanford Cardiopulmonary Exercise Testing Laboratory, (2007- present)
- Executive Committee, Wu Tsai Human Performance Alliance, (2021- present)
- Executive Committee, Molecular Transducers of Physical Activity Consortium (MoTrPAC), (2018- present)
- Co-Director, Stanford Research Training Program in Myocardial Biology (T32), (2010- present)
- Medical Director, Clinical Genomics Program, (2013-2020)
- Co-Director, Stanford Data Science Initiative, (2016-2021)
- Co-chair, NIH Undiagnosed Diseases Network, (2014-2017)
- Co-chair, Cardiovascular Working Group, Clinical Genome Resource (Clingen), (2014-2016)
- Leadership committee, AHA Council on Functional Genomics and Translational Biology, (2009-2014)
- Member, Institute of Medicine Roundtable on Translating Genomic-based Research for Health, (2012-2015)

HONORS AND AWARDS

- Guggenheim Fellowship, John Simon Guggenheim Memorial Foundation (2023)
- Roger and Joelle Burnell Chair of Genomics and Precision Health, Stanford University (2021)
- Medal of Honor (Genomic and Precision Medicine), American Heart Association (2018)
- One Brave Idea, American Heart Association (2017)
- Fellow, Royal College of Physicians (London) (2017)
- Fellow, American Society of Clinical Investigation (2016)
- NIH Director's New Innovator Award, National Institutes of Health (2009)
- Faculty Scholar, Donald E. and Delia B. Baxter Foundation (2009)
- Fellow, American Heart Association (2009)
- Innovative Research Award, American Heart Association (2008)
- Career Development Award (K08), National Institutes of Health (2006)
- Western Affiliates Young Investigator Award, American Heart Association (2004)

- Cardiovascular Medicine Basic Science Award, Stanford University (2004)
- Young Investigator Award (Basic), Astra-Zeneca (2003)
- Young Investigator Prize in Cardiovascular Medicine, UK Medical Research Society (2002)
- Young Investigator Award, European Society of Cardiology (2002)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Advisor, Apple (2020 - 2023)
- Non-executive director, AstraZeneca PLC (2020 - present)
- Founder and Advisor, Deepcell Inc (2018 - present)
- Advisor, Foresite Labs (2020 - present)
- Advisor, Medical Excellence Capital (2022 - present)
- Advisor, Galatea Bio (2022 - present)
- Founder & Advisor, Personalis Inc (2013 - present)
- Advisor, Sequence Bio (2019 - present)
- Founder and Board Chair, Svexa Inc (2019 - present)

PROFESSIONAL EDUCATION

- Board Certification: Cardiology, Royal College of Physicians-U.K. (1999)
- Residency: University of Oxford (1996) UK
- Internship: University of Glasgow (1997) Scotland
- Medical Education: University of Glasgow (1996) Scotland
- Fellowship: University of Oxford (2002) UK
- Fellowship: Stanford University Medical Center (2006) CA
- DPhil, University of Oxford , Molecular Cardiology (2002)
- MRCP (UK), Royal College of Physicians (UK) , Medicine (1999)
- MB ChB, University of Glasgow , Medicine (1996)
- BSc (Hons), University of Glasgow , Physiology (1993)

COMMUNITY AND INTERNATIONAL WORK

- Arbor Free Cardiology Clinic

PATENTS

- Ashley EA, Quertermous T, Grube E. "United States Patent 12,074,964 Developing biologically active agents that modulate activity of restenosis target gene, comprises combining candidate biologically active agent, and determining the effect of agent on restenosis associated molecular and cellular changes", The Board of Trustees of the Leland Stanford Junior University, Mar 7, 2008
- Ashley EA, Chen MM, Quertermous T. "United States Patent 11,985,460 Apelin and uses thereof", The Board of Trustees of the Leland Stanford Junior University, Nov 14, 2007
- Vailaya A, Kuchinsky A, King JY, Ferrara R, Quertermous T, Vairaya A, Ashley IA, Katermas T, Ashley EA. "United States Patent 10,641,492 Significant molecules identification method for biological network used in disease analysis, involves calculating connectivity score for molecule represented by identified node based on significance scores of each node", Agilent Technologies, Inc., Jul 26, 2007
- Deng D, Tsalenko A, Ben-Dor A, Yakhini ZH, Quertermous T, Ashley EA, Yang E, Tabibiazar R, Tsao P. "United States Patent 11,412,437 New composition comprising a targeting agent that is conjugated to a functional moiety and that selectively binds to a polypeptide encoded by a DEA gene, useful in treating or preventing atherosclerosis", Agilent Technologies, Inc., Apr 27, 2006
- Ben-Dor A, Bruhn L, Deng D, Tsalenko A, Ashley EA, Chen MC, Quertermous T, Yakhini Z, Chen MM, Deng DX. "United States Patent 7,947,280 New composition having a targeting agent selectively binding to a polypeptide encoded by an upregulated-in-recovery (UIR) or downregulated-in-recovery (DIR) gene, useful for diagnosing, preventing and/or treating heart failure", The Board of Trustees of the Leland Stanford Junior University, Jul 14, 2005

LINKS

- The Genome Odyssey: http://genomebook.info
- Ashley Lab website: http://ashleylab.stanford.edu
- Stanford Center for Inherited Cardiovascular Disease: http://familyheart.stanford.edu
- How I got from there to here, I think.: https://ashleylab.stanford.edu/sites/default/files/euan-ashley-how-i-got-from-there-to-here-i-think.pdf
- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Ashley lab is focused on precision medicine. We develop methods for the interpretation of whole genome sequencing data to improve diagnosis of genetic disease and to personalize the practice of medicine. We love big data questions and systems approaches to biology especially analysis of network graphs. The wet bench is where we test causality of key genes and investigate the biology of network modules. It is also the focus of our translational efforts. Therapeutic development is a near term goal and several of our discoveries are the focus of patents or are being actively pursued by pharmaceutical and biotechnology partners.

CLINICAL TRIALS

- Clinical and Genetic Evaluation of Individuals With Undiagnosed Disorders Through the Undiagnosed Diseases Network, Recruiting
- Exercise in Genetic Cardiovascular Conditions, Recruiting
- MyHeart Counts Cardiovascular Health Study, Recruiting
- Open-Label Study of Perhexiline in Patients With Hypertrophic Cardiomyopathy and Moderate to Severe Heart Failure, Recruiting
- DCM Precision Medicine Study, Not Recruiting
- MyHeart Counts: Stanford Mobile Cardiovascular Health Study 3.0, Not Recruiting
- Personal Genomics for Preventive Cardiology, Not Recruiting
- Rapid Turnaround, Home-based Saliva Testing for COVID-19, Not Recruiting
- Study of Exercise Training in Hypertrophic Cardiomyopathy, Not Recruiting
- Valsartan for Attenuating Disease Evolution In Early Sarcomeric HCM, Not Recruiting
- Exercise Study Including Patients With Hypertrophic Cardiomyopathy, Not Specified

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Cameron Prybol

Postdoctoral Faculty Sponsor

Marina Gabriel, Zaniar Ghazizadeh, Bruna Filipa Gomes Botelho Quintas, Arash Keshavarzi Arshadi, Daniel Kim, Samiya Shimly, Qianru Wang, Yuta Yamamoto

Doctoral Dissertation Co-Advisor (NonAC)

Tanner Jensen

Doctoral Dissertation Reader (NonAC)

Nate Stockham

Postdoctoral Research Mentor

Samiya Shimly, Qianru Wang, Yuta Yamamoto

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Masters Program)
- Biomedical Informatics (Phd Program)
- Cardiothoracic Surgery (Fellowship Program)
- Cardiovascular Medicine (Fellowship Program)
- Genetics (Phd Program)
- Human Genetics and Genetic Counseling (Masters Program)
- Medical Genetics (Fellowship Program)
- Medicine (Masters Program)
- Molecular and Genetic Medicine (Fellowship Program)
- Pediatric Cardiology (Fellowship Program)
- Sports Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Genetic architecture of cardiac dynamic flow volumes.** *Nature genetics*
  Gomes, B., Singh, A., O'Sullivan, J. W., Schnurr, T. M., Goddard, P. C., Loong, S., Amar, D., Hughes, J. W., Kostur, M., Haddad, F., Salerno, M., Foo, R., Montgomery, et al
  2023

- **Improved Cardiac Performance and Decreased Arrhythmia in Hypertrophic Cardiomyopathy With Non-#-Blocking R-Enantiomer Carvedilol.** *Circulation*
  Seo, K., Yamamoto, Y., Kirillova, A., Kawana, M., Yadav, S., Huang, Y., Wang, Q., Lane, K. V., Pruitt, B. L., Perez, M. V., Bernstein, D., Wu, J. C., Wheeler, et al
  2023

- **Rare variant associations with plasma protein levels in the UK Biobank.** *Nature*
  Dhindsa, R. S., Burren, O. S., Sun, B. B., Prins, B. P., Matelska, D., Wheeler, E., Mitchell, J., Oerton, E., Hristova, V. A., Smith, K. R., Carss, K., Wasilewski, S., Harper, et al
  2023

- **COSMOS: a platform for real-time morphology-based, label-free cell sorting using deep learning.** *Communications biology*
  Salek, M., Li, N., Chou, H., Saini, K., Jovic, A., Jacobs, K. B., Johnson, C., Lu, V., Lee, E. J., Chang, C., Nguyen, P., Mei, J., Pant, et al
  2023; 6 (1): 971

- **Artificial Intelligence in Molecular Medicine.** *The New England journal of medicine*
  Gomes, B., Ashley, E. A.
  2023; 388 (26): 2456-2465

- **Supporting undiagnosed participants when clinical genomics studies end.** *Nature genetics*
  Halley, M. C., Ashley, E. A., Tabor, H. K.
  2022

- **Accelerated identification of disease-causing variants with ultra-rapid nanopore genome sequencing.** *Nature biotechnology*
  Goenka, S. D., Gorzynski, J. E., Shafin, K., Fisk, D. G., Pesout, T., Jensen, T. D., Monlong, J., Chang, P. C., Baid, G., Bernstein, J. A., Christle, J. W., Dalton, K. P., Garalde, et al
  2022

- **A call for an integrated approach to improve efficiency, equity and sustainability in rare disease research in the United States.** *Nature genetics*
  Halley, M. C., Smith, H. S., Ashley, E. A., Goldenberg, A. J., Tabor, H. K.
  2022

- **Ultra-Rapid Nanopore Whole Genome Genetic Diagnosis of Dilated Cardiomyopathy in an Adolescent With Cardiogenic Shock.** *Circulation. Genomic and precision medicine*
  Gorzynski, J. E., Goenka, S. D., Shafin, K., Jensen, T. D., Fisk, D. G., Grove, M. E., Spiteri, E., Pesout, T., Monlong, J., Bernstein, J. A., Ceresnak, S., Chang, P., Christle, et al
  2022: CIRCGEN121003591

- **Ultrarapid Nanopore Genome Sequencing in a Critical Care Setting.** *The New England journal of medicine*
  Gorzynski, J. E., Goenka, S. D., Shafin, K., Jensen, T. D., Fisk, D. G., Grove, M. E., Spiteri, E., Pesout, T., Monlong, J., Baid, G., Bernstein, J. A., Ceresnak, S., Chang, et al
  2022

- **The genetics of human performance.** *Nature reviews. Genetics*
  Kim, D. S., Wheeler, M. T., Ashley, E. A.
  2021

- **Mapping the human genetic architecture of COVID-19.** *Nature*
  COVID-19 Host Genetics Initiative
  2021

- **Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise.** *Cell*
  Sanford, J. A., Nogiec, C. D., Lindholm, M. E., Adkins, J. N., Amar, D., Dasari, S., Drugan, J. K., Fernandez, F. M., Radom-Aizik, S., Schenk, S., Snyder, M. P., Tracy, R. P., Vanderboom, et al
  2020; 181 (7): 1464–74

- **Video-based AI for beat-to-beat assessment of cardiac function** *NATURE*
  Ouyang, D., He, B., Ghorbani, A., Yuan, N., Ebinger, J., Langlotz, C. P., Heidenreich, P. A., Harrington, R. A., Liang, D. H., Ashley, E. A., Zou, J. Y.
  2020

- **Molecular Choreography of Acute Exercise.** *Cell*
  Contrepois, K. n., Wu, S. n., Moneghetti, K. J., Hornburg, D. n., Ahadi, S. n., Tsai, M. S., Metwally, A. A., Wei, E. n., Lee-McMullen, B. n., Quijada, J. V., Chen, S. n., Christle, J. W., Ellenberger, et al
  2020; 181 (5): 1112–30.e16

- **The effect of digital physical activity interventions on daily step count: a randomised controlled crossover substudy of the MyHeart Counts Cardiovascular Health Study** *LANCET DIGITAL HEALTH*
  Shcherbina, A., Hershman, S. G., Lazzeroni, L., King, A. C., O'Sullivan, J. W., Hekler, E., Moayedi, Y., Pavlovic, A., Waggott, D., Sharma, A., Yeung, A., Christle, J. W., Wheeler, et al
  2019; 1 (7): E344–E352

- **Allele-Specific Silencing Ameliorates Restrictive Cardiomyopathy Due to a Human Myosin Regulatory Light Chain Mutation.** *Circulation*
  Zaleta-Rivera, K., Dainis, A., Ribeiro, A. J., Sanchez Cordero, P., Rubio, G., Shang, C., Liu, J., Finsterbach, T., Parikh, V. N., Sutton, S., Seo, K., Sinha, N., Jain, et al
  2019

- **Identification of rare-disease genes using blood transcriptome sequencing and large control cohorts.** *Nature medicine*
  Frésard, L. n., Smail, C. n., Ferraro, N. M., Teran, N. A., Li, X. n., Smith, K. S., Bonner, D. n., Kernohan, K. D., Marwaha, S. n., Zappala, Z. n., Balliu, B. n., Davis, J. R., Liu, et al
  2019

- **Pathologic gene network rewiring implicates PPP1R3A as a central regulator in pressure overload heart failure.** *Nature communications*
  Cordero, P., Parikh, V. N., Chin, E. T., Erbilgin, A., Gloudemans, M. J., Shang, C., Huang, Y., Chang, A. C., Smith, K. S., Dewey, F., Zaleta, K., Morley, M., Brandimarto, et al
  2019; 10 (1): 2760

- **Genotype and Lifetime Burden of Disease in Hypertrophic Cardiomyopathy: Insights From the Sarcomeric Human Cardiomyopathy Registry (SHaRe)** *CIRCULATION*
  Ho, C. Y., Day, S. M., Ashley, E. A., Michels, M., Pereira, A. C., Jacoby, D., Cirino, A. L., Fox, J. C., Lakdawala, N. K., Ware, J. S., Caleshu, C. A., Helms, A. S., Colan, et al
  2018; 138 (14): 1387–98

- **Artificial Intelligence in Cardiology** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*

Johnson, K. W., Soto, J., Glicksberg, B. S., Shameer, K., Miotto, R., Ali, M., Ashley, E., Dudley, J. T.
2018; 71 (23): 2668–79

- **Effect of Genetic Diagnosis on Patients with Previously Undiagnosed Disease.** *The New England journal of medicine*
  Splinter, K. n., Adams, D. R., Bacino, C. A., Bellen, H. J., Bernstein, J. A., Cheatle-Jarvela, A. M., Eng, C. M., Esteves, C. n., Gahl, W. A., Hamid, R. n., Jacob, H. J., Kikani, B. n., Koeller, et al
  2018

- **Accuracy in Wrist-Worn, Sensor-Based Measurements of Heart Rate and Energy Expenditure in a Diverse Cohort.** *Journal of personalized medicine*
  Shcherbina, A., Mattsson, C. M., Waggott, D., Salisbury, H., Christle, J. W., Hastie, T., Wheeler, M. T., Ashley, E. A.
  2017; 7 (2)

- **Effect of Moderate-Intensity Exercise Training on Peak Oxygen Consumption in Patients With Hypertrophic Cardiomyopathy A Randomized Clinical Trial** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Saberi, S., Wheeler, M., Bragg-Gresham, J., Hornsby, W., Agarwal, P. P., Attili, A., Concannon, M., Dries, A. M., Shmargad, Y., Salisbury, H., Kumar, S., Herrera, J., Myers, et al
  2017; 317 (13): 1349-1357

- **The Changing Face of Informed Consent** *NEW ENGLAND JOURNAL OF MEDICINE*
  Grady, C., Cummings, S. R., Rowbotham, M. C., McConnell, M. V., Ashley, E. A., Kang, G.
  2017; 376 (9): 856-867

- **Feasibility of Obtaining Measures of Lifestyle From a Smartphone App: The MyHeart Counts Cardiovascular Health Study.** *JAMA cardiology*
  McConnell, M. V., Shcherbina, A., Pavlovic, A., Homburger, J. R., Goldfeder, R. L., Waggot, D., Cho, M. K., Rosenberger, M. E., Haskell, W. L., Myers, J., Champagne, M. A., Mignot, E., Landray, et al
  2017; 2 (1): 67-76

- **Long-read genome sequencing identifies causal structural variation in a Mendelian disease.** *Genetics in medicine : official journal of the American College of Medical Genetics*
  Merker, J. D., Wenger, A. M., Sneddon, T. n., Grove, M. n., Zappala, Z. n., Fresard, L. n., Waggott, D. n., Utiramerur, S. n., Hou, Y. n., Smith, K. S., Montgomery, S. B., Wheeler, M. n., Buchan, et al
  2017

- **Deep Learning Automates the Quantitative Analysis of Individual Cells in Live-Cell Imaging Experiments.** *PLoS computational biology*
  Van Valen, D. A., Kudo, T., Lane, K. M., Macklin, D. N., Quach, N. T., DeFelice, M. M., Maayan, I., Tanouchi, Y., Ashley, E. A., Covert, M. W.
  2016; 12 (11)

- **Early somatic mosaicism is a rare cause of long-QT syndrome** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Priest, J. R., Gawad, C., Kahlig, K. M., Yu, J. K., O'Hara, T., Boyle, P. M., Rajamani, S., Clark, M. J., Garcia, S. T., Ceresnak, S., Harris, J., Boyle, S., Dewey, et al
  2016; 113 (41): 11555-11560

- **In Vivo Post-Cardiac Arrest Myocardial Dysfunction Is Supported by Ca2+/Calmodulin-Dependent Protein Kinase II-Mediated Calcium Long-Term Potentiation and Mitigated by Alda-1, an Agonist of Aldehyde Dehydrogenase Type 2.** *Circulation*
  Woods, C. E., Shang, C., Taghavi, F., Downey, P., Zalewski, A., Rubio, G. R., Liu, J., Homburger, J. R., Grunwald, Z., Qi, W., Bollensdorff, C., Thanaporn, P., Ali, et al
  2016; 134 (13): 961-977

- **Towards precision medicine.** *Nature reviews. Genetics*
  Ashley, E. A.
  2016; 17 (9): 507-522

- **Multidimensional structure-function relationships in human beta-cardiac myosin from population-scale genetic variation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Homburger, J. R., Green, E. M., Caleshu, C., Sunitha, M. S., Taylor, R. E., Ruppel, K. M., Metpally, R. P., Colan, S. D., Michels, M., Day, S. M., Olivotto, I., Bustamante, C. D., Dewey, et al
  2016; 113 (24): 6701-6706

- **Systems Genomics Identifies a Key Role for Hypocretin/Orexin Receptor-2 in Human Heart Failure** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Perez, M. V., Pavlovic, A., Shang, C., Wheeler, M. T., Miller, C. L., Liu, J., Dewey, F. E., Pan, S., Thanaporn, P. K., Absher, D., Brandimarto, J., Salisbury, H., Chan, et al

2015; 66 (22): 2522-2533

- **The Undiagnosed Diseases Network of the National Institutes of Health A National Extension** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Gahl, W. A., Wise, A. L., Ashley, E. A.
  2015; 314 (17): 1797-1798

- **ClinGen - The Clinical Genome Resource** *NEW ENGLAND JOURNAL OF MEDICINE*
  Rehm, H. L., Berg, J. S., Brooks, L. D., Bustamante, C. D., Evans, J. P., Landrum, M. J., Ledbetter, D. H., Maglott, D. R., Martin, C. L., Nussbaum, R. L., Plon, S. E., Ramos, E. M., Sherry, et al
  2015; 372 (23): 2235-2242

- **The precision medicine initiative: a new national effort.** *JAMA*
  Ashley, E. A.
  2015; 313 (21): 2119–20

- **Clinical Phenotype and Outcome of Hypertrophic Cardiomyopathy Associated With Thin-Filament Gene Mutations** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Coppini, R., Ho, C. Y., Ashley, E., Day, S., Ferrantini, C., Girolami, F., Tomberli, B., Bardi, S., Torricelli, F., Cecchi, F., Mugelli, A., Poggesi, C., Tardiff, et al
  2014; 64 (24): 2589-2600

- **Oxido-reductive regulation of vascular remodeling by receptor tyrosine kinase ROS1** *JOURNAL OF CLINICAL INVESTIGATION*
  Ali, Z. A., Perez, V. D., Yuan, K., Orcholski, M., Pan, S., Qi, W., Chopra, G., Adams, C., Kojima, Y., Leeper, N. J., Qu, X., Zaleta-Rivera, K., Kato, et al
  2014; 124 (12): 5159-5174

- **A long noncoding RNA protects the heart from pathological hypertrophy.** *Nature*
  Han, P., Li, W., Lin, C., Yang, J., Shang, C., Nurnberg, S. T., Jin, K. K., Xu, W., Lin, C., Lin, C., Xiong, Y., Chien, H., Zhou, et al
  2014; 514 (7520): 102-106

- **Molecular diagnosis of long QT syndrome at 10 days of life by rapid whole genome sequencing.** *Heart rhythm*
  Priest, J. R., Ceresnak, S. R., Dewey, F. E., Malloy-Walton, L. E., Dunn, K., Grove, M. E., Perez, M. V., Maeda, K., Dubin, A. M., Ashley, E. A.
  2014; 11 (10): 1707-1713

- **Guidelines for investigating causality of sequence variants in human disease** *NATURE*
  MacArthur, D. G., Manolio, T. A., Dimmock, D. P., Rehm, H. L., Shendure, J., Abecasis, G. R., Adams, D. R., Altman, R. B., Antonarakis, S. E., Ashley, E. A., Barrett, J. C., Biesecker, L. G., Conrad, et al
  2014; 508 (7497): 469-476

- **Clinical interpretation and implications of whole-genome sequencing.** *JAMA*
  Dewey, F. E., Grove, M. E., Pan, C., Goldstein, B. A., Bernstein, J. A., Chaib, H., Merker, J. D., Goldfeder, R. L., Enns, G. M., David, S. P., Pakdaman, N., Ormond, K. E., Caleshu, et al
  2014; 311 (10): 1035-1045

- **Clinical interpretation and implications of whole-genome sequencing.** *JAMA : the journal of the American Medical Association*
  Dewey, F. E., Grove, M. E., Pan, C., Goldstein, B. A., Bernstein, J. A., Chaib, H., Merker, J. D., Goldfeder, R. L., Enns, G. M., David, S. P., Pakdaman, N., Ormond, K. E., Caleshu, et al
  2014; 311 (10): 1035-1045

- **APJ acts as a dual receptor in cardiac hypertrophy** *NATURE*
  Scimia, M. C., Hurtado, C., Ray, S., Metzler, S., Wei, K., Wang, J., Woods, C. E., Purcell, N. H., Catalucci, D., Akasaka, T., Bueno, O. F., Vlasuk, G. P., Kaliman, et al
  2012; 488 (7411): 394-398

- **Personal Omics Profiling Reveals Dynamic Molecular and Medical Phenotypes** *CELL*
  Chen, R., Mias, G. I., Li-Pook-Than, J., Jiang, L., Lam, H. Y., Chen, R., Miriami, E., Karczewski, K. J., Hariharan, M., Dewey, F. E., Cheng, Y., Clark, M. J., Im, et al
  2012; 148 (6): 1293-1307

- **Performance comparison of whole-genome sequencing platforms** *NATURE BIOTECHNOLOGY*
  Lam, H. Y., Clark, M. J., Chen, R., Chen, R., Natsoulis, G., O'Huallachain, M., Dewey, F. E., Habegger, L., Ashley, E. A., Gerstein, M. B., Butte, A. J., Ji, H. P., Snyder, et al

2012; 30 (1): 78-U118

- **MOLECULAR AUTOPSY FOR SUDDEN CARDIAC DEATH USING WHOLE GENOME SEQUENCING** *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*
  Dewey, F. E., Wheeler, M. T., Cordero, S., Perez, M. V., Pavlovic, A., Pushkarev, D., Freeman, J. V., Quake, S. R., Ashley, E. A.
  ELSEVIER SCIENCE INC.2011: E1159–E1159

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