



Philip S. Tsao, PhD

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

Bio

ACADEMIC APPOINTMENTS

- Professor (Research), Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Executive Committee, Stanford Cardiovascular Institute, (2010- present)
- Member, Stanford Diabetes Research Center, (2018- present)
- Co-Director, Cardiovascular Pulmonary Sciences Application, (2005-2018)

HONORS AND AWARDS

- Department of Medicine Teaching Award, Stanford (2003)
- Fellow, Arteriosclerosis, Thrombosis, and Vascular Biology Council of the American Heart Association (2003)
- Established Investigator Award, American Heart Association (2008)

PROFESSIONAL EDUCATION

- PhD, Thomas Jefferson University , Cardiovascular Physiology (1991)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our primary interests are in understanding the molecular underpinnings of vascular disease as well as assessing disease risk. We use a wide range of biochemical, molecular and physiological techniques to make primary observations in cell systems as well as preclinical models. Furthermore, we continue to extend our findings to human subjects in order to confirm their clinical applicability. Current research projects include:

Mechanisms regulating atherosclerosis and abdominal aortic aneurysm disease: While single genes can have dramatic effects in cellular biology, it is becoming increasingly clear that vascular disease (and health) is regulated by the coordinated expression of gene cassettes or pathways. By monitoring expression patterns of the entire genome simultaneously, we can begin to identify networks of genes that work in concert to affect disease progression. Moreover, this approach can often implicate specific nexus genes that are at the center of larger networks and/or participate in multiple pathways. Additionally, we are investigating the role microRNAs, a newly discovered class of small RNA molecules, in orchestrating the activity of multiple genes during the course of disease.

Role of insulin resistance: Reduced activity of the endogenous hormone, insulin, is now recognized as a cardinal feature of type 2 diabetes and an independent risk factor for cardiovascular disease. We have investigated the effects of insulin resistance in several tissues and have recently focused our attention on adipose tissue biology and how it relates to CVD. Long known as a storage vehicle for excess calories, the fat cell is now recognized to be a factory of different products that can not only affect local activity, but can circulate in the blood as hormones and regulate many biological processes. For example, we have recently reported that the novel hormone, apelin, is produced by fat tissue and has important effects upon insulin resistance, obesity and diabetes, all of which have significant implications for cardiovascular disease.

Biomarkers for risk assessment: In addition to target identification, we are applying transcriptional profiling and pathway analysis for another important aspect of cardiovascular disease management--biomarker discovery. As the name connotes, a biomarker should be a good indication of the disease state and thereby allow for early detection as well as monitoring disease progression and, hopefully, efficacy of an applied therapy. Biomarkers can encompass a wide range of molecules including DNA variants, RNA, proteins, as well as lipids. They can even encompass modalities such as molecular imaging. We are engaged in not only identifying novel biomarkers for cardiovascular disease, but also in producing algorithms that combine multiple biomarkers to optimally assess risk.

CLINICAL TRIALS

- Effects of Dietary Antioxidants on Cardiovascular Risk Factors, Not Recruiting
- Effects of Glutathione (an Antioxidant) and N-Acetylcysteine on Inflammation, Not Recruiting
- Effects of Omega-3 Fatty Acids on Markers of Inflammation, Not Recruiting
- Exercise Therapy to Treat Adults With Abdominal Aortic Aneurysms, Not Recruiting
- Permission to Collect Blood Over Time for Research, Not Recruiting

Teaching

COURSES

2016-17

- Cardiovascular and Pulmonary Sciences Seminar: MED 223 (Aut, Win)

STANFORD ADVISEES

Scholarly Concentration Director

Holly Elser

Postdoctoral Faculty Sponsor

Daseny Mulorz, Joscha Mulorz, Yae Hyun Rhee

Postdoctoral Research Mentor

Daseny Mulorz, Joscha Mulorz

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)
- Cardiovascular Medicine (Fellowship Program)
- Medicine (Masters Program)
- Molecular and Genetic Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Genome-wide association study of peripheral artery disease in the Million Veteran Program.** *Nature medicine*
Klarin, D., Lynch, J., Aragam, K., Chaffin, M., Assimes, T. L., Huang, J., Lee, K. M., Shao, Q., Huffman, J. E., Natarajan, P., Arya, S., Small, A., Sun, et al
2019
- **Decoding the Genomics of Abdominal Aortic Aneurysm.** *Cell*
Li, J., Pan, C., Zhang, S., Spin, J. M., Deng, A., Leung, L. L., Dalman, R. L., Tsao, P. S., Snyder, M.
2018; 174 (6): 1361
- **Segmental Aortic Stiffening Contributes to Experimental Abdominal Aortic Aneurysm Development** *CIRCULATION*
Raaz, U., Zoellner, A. M., Schellinger, I. N., Toh, R., Nakagami, F., Brandt, M., Emrich, F. C., Kayama, Y., Eken, S., Adam, M., Maegdefessel, L., Hertel, T.,
Deng, et al
2015; 131 (20): 1783-1795
- **miR-24 limits aortic vascular inflammation and murine abdominal aneurysm development** *NATURE COMMUNICATIONS*
Maegdefessel, L., Spin, J. M., Raaz, U., Eken, S. M., Toh, R., Azuma, J., Adam, M., Nagakami, F., Heymann, H. M., Chernugobova, E., Jin, H., Roy, J., Hultgren,
et al
2014; 5
- **Pathogenesis of Abdominal Aortic Aneurysms: MicroRNAs, Proteases, Genetic Associations.** *Annual review of medicine*
Maegdefessel, L., Dalman, R. L., Tsao, P. S.
2014; 65: 49-62
- **MicroRNA-21 Blocks Abdominal Aortic Aneurysm Development and Nicotine-Augmented Expansion** *SCIENCE TRANSLATIONAL MEDICINE*
Maegdefessel, L., Azuma, J., Toh, R., Deng, A., Merk, D. R., Raiesdana, A., Leeper, N. J., Raaz, U., Schoelmerich, A. M., McConnell, M. V., Dalman, R. L., Spin,
J. M., Tsao, et al
2012; 4 (122)
- **Inhibition of microRNA-29b reduces murine abdominal aortic aneurysm development** *JOURNAL OF CLINICAL INVESTIGATION*
Maegdefessel, L., Azuma, J., Toh, R., Merk, D. R., Deng, A., Chin, J. T., Raaz, U., Schoelmerich, A. M., Raiesdana, A., Leeper, N. J., McConnell, M. V., Dalman,
R. L., Spin, et al
2012; 122 (2): 497-506
- **Genome-wide association analysis of venous thromboembolism identifies new risk loci and genetic overlap with arterial vascular disease.** *Nature genetics*
Klarin, D., Busenkell, E., Judy, R., Lynch, J., Levin, M., Haessler, J., Aragam, K., Chaffin, M., Haas, M., Lindstrom, S., Assimes, T. L., Huang, J., Min Lee, et al
2019
- **Mapping eGFR loci to the renal transcriptome and phenome in the VA Million Veteran Program.** *Nature communications*
Hellwege, J. N., Velez Edwards, D. R., Giri, A., Qiu, C., Park, J., Torstenson, E. S., Keaton, J. M., Wilson, O. D., Robinson-Cohen, C., Chung, C. P., Roumie, C.
L., Klarin, D., Damrauer, et al
2019; 10 (1): 3842
- **Author Correction: Genome-wide association study of alcohol consumption and use disorder in 274,424 individuals from multiple populations.** *Nature communications*
Kranzler, H. R., Zhou, H., Kember, R. L., Smith, R. V., Justice, A. C., Damrauer, S., Tsao, P. S., Klarin, D., Baras, A., Reid, J., Overton, J., Rader, D. J., Cheng, et
al
2019; 10 (1): 2275
- **Controlled isoflurane anesthesia exposure is required for reliable behavioral testing in murine surgical models.** *Journal of pharmacological sciences*
Toyama, K., Spin, J. M., Abe, Y., Suzuki, Y., Deng, A. C., Wagenhauser, M. U., Yoshino, T., Mulorz, J., Liu, S., Tsao, P. S., Mogi, M.
2019
- **Genome-wide association study of alcohol consumption and use disorder in 274,424 individuals from multiple populations** *NATURE COMMUNICATIONS*
Kranzler, H. R., Zhou, H., Kember, R. L., Smith, R., Justice, A. C., Damrauer, S., Tsao, P. S., Klarin, D., Baras, A., Reid, J., Oyerton, J., Rader, D. J., Cheng, et al
2019; 10
- **An Automated Algorithm to Quantify Collagen Distribution in Aortic Wall** *JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY*

- Nguyen, D. M., Wagenhauser, M. U., Mehrkens, D., Adam, M., Tsao, P. S., Ramasubramanian, A. K.
2019; 67 (4): 267–74
- **microRNA-based biomarker for dementia** *AGING-US*
Toyama, K., Mogi, M., Tsao, P. S.
2019; 11 (5): 1329–30
 - **microRNA-based biomarker for dementia.** *Aging*
Toyama, K., Mogi, M., Tsao, P. S.
2019
 - **Non-coding RNAs in aneurysmal aortopathy** *VASCULAR PHARMACOLOGY*
Spin, J. M., Li, D. Y., Maegdefessel, L., Tsao, P. S.
2019; 114: 110–21
 - **Association of APOL1 Risk Alleles with Cardiovascular Disease in African Americans in the Million Veteran Program.** *Circulation*
Bick, A. G., Akwo, E., Robinson-Cohen, C., Lee, K., Lynch, J., Assimes, T. L., DuVall, S., Edwards, T., Fang, H., Freiberg, S. M., Giri, A., Huffman, J. E., Huang, et al
2019
 - **Author Correction: Genome-wide association study of alcohol consumption and use disorder in 274,424 individuals from multiple populations.** *Nature communications*
Kranzler, H. R., Zhou, H., Kember, R. L., Smith, R. V., Justice, A. C., Damrauer, S., Tsao, P. S., Klarin, D., Baras, A., Reid, J., Overton, J., Rader, D. J., Cheng, et al
2019; 10 (1): 4050
 - **Harmonizing Genetic Ancestry and Self-identified Race/Ethnicity in Genome-wide Association Studies.** *American journal of human genetics*
Fang, H., Hui, Q., Lynch, J., Honerlaw, J., Assimes, T. L., Huang, J., Vujkovic, M., Damrauer, S. M., Pyarajan, S., Gaziano, J. M., DuVall, S. L., O'Donnell, C. J., Cho, et al
2019
 - **Blood Leukocyte DNA Methylation Predicts Risk of Future Myocardial Infarction and Coronary Heart Disease.** *Circulation*
Agha, G., Mendelson, M. M., Ward-Caviness, C. K., Joehanes, R., Huan, T., Gondalia, R., Salfati, E., Brody, J. A., Fiorito, G., Bressler, J., Chen, B. H., Ligthart, S., Guarrera, et al
2019; 140 (8): 645–57
 - **Trans-ethnic association study of blood pressure determinants in over 750,000 individuals** *NATURE GENETICS*
Giri, A., Hellwege, J. N., Keaton, J. M., Park, J., Qiu, C., Warren, H. R., Torstenson, E. S., Kovesdy, C. P., Sun, Y. V., Wilson, O. D., Robinson-Cohen, C., Roumie, C. L., Chung, et al
2019; 51 (1): 51–+
 - **Genome-wide association study of alcohol consumption and use disorder in 274,424 individuals from multiple populations.** *Nature communications*
Kranzler, H. R., Zhou, H., Kember, R. L., Vickers Smith, R., Justice, A. C., Damrauer, S., Tsao, P. S., Klarin, D., Baras, A., Reid, J., Overton, J., Rader, D. J., Cheng, et al
2019; 10 (1): 1499
 - **Trans-ethnic association study of blood pressure determinants in over 750,000 individuals.** *Nature genetics*
Giri, A., Hellwege, J. N., Keaton, J. M., Park, J., Qiu, C., Warren, H. R., Torstenson, E. S., Kovesdy, C. P., Sun, Y. V., Wilson, O. D., Robinson-Cohen, C., Roumie, C. L., Chung, et al
2019; 51 (1): 51–62
 - **Therapeutic perspective on vascular cognitive impairment.** *Pharmacological research*
Toyama, K., Spin, J. M., Mogi, M., Tsao, P. S.
2019: 104266
 - **Effects of Genetic Variants Associated with Familial Hypercholesterolemia on Low-Density Lipoprotein-Cholesterol Levels and Cardiovascular Outcomes in the Million Veteran Program** *CIRCULATION-GENOMIC AND PRECISION MEDICINE*
Sun, Y., Damrauer, S. M., Hui, Q., Assimes, T. L., Ho, Y., Natarajan, P., Klarin, D., Huang, J., Lynch, J., Duvall, S. L., Pyarajan, S., Honerlaw, J. P., Gaziano, et al
2018; 11 (12)
 - **An Automated Algorithm to Quantify Collagen Distribution in Aortic Wall.** *The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society*

- Nguyen, D. M., Wagenhauser, M. U., Mehrkens, D., Adam, M., Tsao, P. S., Ramasubramanian, A. K.
2018: 22155418814231
- **Publisher Correction: Genetic analysis of over 1 million people identifies 535 new loci associated with blood pressure traits.** *Nature genetics*
Evangelou, E., Warren, H. R., Mosen-Ansorena, D., Mifsud, B., Pazoki, R., Gao, H., Ntritsos, G., Dimou, N., Cabrera, C. P., Karaman, I., Ng, F. L., Evangelou, M., Witkowska, et al
2018
 - **Genetics of blood lipids among similar to 300,000 multi-ethnic participants of the Million Veteran Program** *NATURE GENETICS*
Klarin, D., Damrauer, S. M., Cho, K., Sun, Y., Teslovich, T. M., Honerlaw, J., Gagnon, D. R., Du Vall, S. L., Li, J., Peloso, G. M., Chaffin, M., Small, A. M., Huang, et al
2018; 50 (11): 1514-+
 - **Chronic Nicotine Exposure Induces Murine Aortic Remodeling and Stiffness Segmentation-Implications for Abdominal Aortic Aneurysm Susceptibility** *FRONTIERS IN PHYSIOLOGY*
Wagenhaeuser, M. U., Schellinger, I. N., Yoshino, T., Toyama, K., Kayama, Y., Deng, A., Guentheru, S. P., Petzold, A., Mulorz, J., Mulorz, P., Hasenfuss, G., Ibing, W., Elvers, et al
2018; 9
 - **Genetic analysis of over 1 million people identifies 535 new loci associated with blood pressure traits** *NATURE GENETICS*
Evangelou, E., Warren, H. R., Mosen-Ansorena, D., Mifsu, B., Pazoki, R., Gao, H., Ntritsos, G., Dimou, N., Cabrer, C. P., Karaman, I., Ng, F., Evangelou, M., Witkowska, et al
2018; 50 (10): 1412-+
 - **Genetics of blood lipids among ~300,000 multi-ethnic participants of the Million Veteran Program.** *Nature genetics*
Klarin, D., Damrauer, S. M., Cho, K., Sun, Y. V., Teslovich, T. M., Honerlaw, J., Gagnon, D. R., DuVall, S. L., Li, J., Peloso, G. M., Chaffin, M., Small, A. M., Huang, et al
2018
 - **Validation of Established Genetic Loci for Non-Alcoholic Fatty Liver Disease (NAFLD) and Their Contribution to NAFLD Phenotype in 194,457 Individuals Enrolled in the Million Veteran Program**
Serper, M., Vujkovic, M., Kaplan, D. E., Carr, R. M., Lee, K., Shao, Q., Miller, D., Huang, J., Reaven, P. D., Phillips, L. S., O'Donnell, C. J., Meigs, J. B., Wilson, et al
WILEY.2018: 210A-211A
 - **Association of Interleukin 6 Receptor Variant With Cardiovascular Disease Effects of Interleukin 6 Receptor Blocking Therapy A Phenome-Wide Association Study** *JAMA CARDIOLOGY*
Cai, T., Zhang, Y., Ho, Y., Link, N., Sun, J., Huang, J., Cai, T. A., Damrauer, S., Ahuja, Y., Honerlaw, J., Costa, L., Schubert, P., Hong, et al
2018; 3 (9): 849-57
 - **Phenome Wide Association Study of IL6R Variant Identifies Drug Target for Cardiovascular Disease and Inflammation**
Cai, T., Zhang, Y., Ho, Y., Link, N., Sun, J., Huang, J., Cai, T., Damrauer, S., Ahuja, Y., Honerlaw, J., Huang, J., Costa, L., Schubert, et al
WILEY.2018
 - **Non-coding RNAs in aneurysmal aortopathy.** *Vascular pharmacology*
Spin, J. M., Li, D. Y., Maegdefessel, L., Tsao, P. S.
2018
 - **Apelin and APJ orchestrate complex tissue-specific control of cardiomyocyte hypertrophy and contractility in the hypertrophy-heart failure transition.** *American journal of physiology. Heart and circulatory physiology*
Parikh, V. N., Liu, J., Shang, C., Woods, C., Chang, A. C., Zhao, M., Charo, D. N., Grunwald, Z., Huang, Y., Seo, K., Tsao, P. S., Bernstein, D., Ruiz-Lozano, et al
2018
 - **MicroRNA-Mediated Therapy Modulating Blood-Brain Barrier Disruption Improves Vascular Cognitive Impairment.** *Arteriosclerosis, thrombosis, and vascular biology*
Toyama, K., Spin, J. M., Deng, A. C., Huang, T., Wei, K., Wagenhauser, M. U., Yoshino, T., Nguyen, H., Mulorz, J., Kundu, S., Raaz, U., Adam, M., Schellinger, et al
2018
 - **Antioxidants from diet or supplements do not alter inflammatory markers in adults with cardiovascular disease risk. A pilot randomized controlled trial** *NUTRITION RESEARCH*
Dewell, A., Tsao, P., Rigdon, J., Gardner, C. D.

2018; 50: 63–72

- **GWAS of epigenetic aging rates in blood reveals a critical role for TERT** *NATURE COMMUNICATIONS*
Lu, A. T., Xue, L., Salfati, E. L., Chen, B. H., Ferrucci, L., Levy, D., Joehanes, R., Murabito, J. M., Kiel, D. P., Tsai, P., Yet, I., Bell, J. T., Mangino, et al
2018; 9: 387
- **H19 Induces Abdominal Aortic Aneurysm Development and Progression.** *Circulation*
Li, D. Y., Busch, A., Jin, H., Chernogubova, E., Pelisek, J., Karlsson, J., Sennblad, B., Liu, S., Lao, S., Hofmann, P., Bäcklund, A., Eken, S. M., Roy, et al
2018
- **Chronic Nicotine Exposure Induces Murine Aortic Remodeling and Stiffness Segmentation-Implications for Abdominal Aortic Aneurysm Susceptibility.** *Frontiers in physiology*
Wagenhäuser, M. U., Schellinger, I. N., Yoshino, T., Toyama, K., Kayama, Y., Deng, A., Guenther, S. P., Petzold, A., Mulorz, J., Mulorz, P., Hasenfuß, G., Ibing, W., Elvers, et al
2018; 9: 1459
- **Effects of Genetic Variants Associated with Familial Hypercholesterolemia on Low-Density Lipoprotein-Cholesterol Levels and Cardiovascular Outcomes in the Million Veteran Program.** *Circulation. Genomic and precision medicine*
Sun, Y. V., Damrauer, S. M., Hui, Q., Assimes, T. L., Ho, Y. L., Natarajan, P., Klarin, D., Huang, J., Lynch, J., DuVall, S. L., Pyarajan, S., Honerlaw, J. P., Gaziano, et al
2018; 11 (12)
- **Systemic Upregulation of IL-10 (Interleukin-10) Using a Nonimmunogenic Vector Reduces Growth and Rate of Dissecting Abdominal Aortic Aneurysm.** *Arteriosclerosis, thrombosis, and vascular biology*
Adam, M., Kooreman, N., Jagger, A., Wagenhaeuser, M. U., Mehrkens, D., Wang, Y., Kayama, Y., Toyama, K., Raaz, U., Schellinger, I. N., Maegdefessel, L., Spin, J. M., Hamming, et al
2018
- **Exome-wide association study of plasma lipids in > 300,000 individuals** *NATURE GENETICS*
Liu, D. J., Peloso, G. M., Yu, H., Butterworth, A. S., Wang, X., Mahajan, A., Saleheen, D., Emdin, C., Alam, D., Alves, A., Amouyel, P., Di Angelantonio, E., Arveiler, et al
2017; 49 (12): 1758+
- **Phenotype and genotype analysis of metabolic liver disease in half million US Veterans enrolled in the Million Veteran Program (MVP) megabiobank**
Serper, M., Kaplan, D. E., Lynch, J., Lee, J., Damrauer, S., Miller, D. R., Shao, Q., Lee, K. M., Reaven, P., Huang, J., Wilson, P. W., O'Donnell, C. J., Rader, et al
WILEY.2017: 90A–91A
- **Local microRNA Modulation is a Suitable Way to Prevent In-Stent Restenosis and Coronary Allograft Arteriosclerosis**
Wang, D., Deuse, T., Stubbendorff, M., Chernogubova, E., Erben, R. G., Eken, S. M., Jin, H., Heeger, C., Behnisch, B., Reichenspurner, H., Robbins, R. C., Spin, J. M., Tsao, et al
LIPPINCOTT WILLIAMS & WILKINS.2017: S28
- **A Stent to Prevent: A Translational Approach Towards Small Abdominal Aortic Aneurysm (AAA) Therapy**
Schellinger, I. N., Spin, J. M., Hasenfuss, G., Tsao, P. S., Raaz, U.
LIPPINCOTT WILLIAMS & WILKINS.2017
- **Genetic Evidence for Overlap in the Pathogenesis of Peripheral Artery Disease and Coronary Artery Disease**
Klarin, D., Small, A., Huang, J., Lynch, J., Arya, S., Assimes, T. L., Natarajan, P., Saleheen, D., Kathiresan, S., Rader, D. J., Concato, J., Gaziano, J., Cho, et al
LIPPINCOTT WILLIAMS & WILKINS.2017
- **The Long Non-Coding RNA H19 Regulates Experimental Abdominal Aortic Aneurysm Development and Progression**
Li, Y., Jin, H., Busch, A., Chernogubova, E., Backlund, A., Olofsson, A., Eken, S., Sun, C., Simon, N., Korzunowicz, G., Eriksson, P., Hultgren, R., Roy, et al
LIPPINCOTT WILLIAMS & WILKINS.2017
- **Nicotine Differentially Influences Segmental Aortic Stiffening**
Wagenhaeuser, M. U., Schellinger, I. N., Guenther, S. P., Yoshino, T., Toyama, K., Kayama, Y., Deng, A., Zoellner, A. M., Raaz, U., Spin, J. M., Tsao, P. S.
LIPPINCOTT WILLIAMS & WILKINS.2017
- **Hypoxia inducible factor stabilization improves defective ischemia-induced angiogenesis in a rodent model of chronic kidney disease.** *Kidney international*
Schellinger, I. N., Cordasic, N., Panesar, J., Buchholz, B., Jacobi, J., Hartner, A., Klanke, B., Jakubiczka-Smorag, J., Burzlaff, N., Heinze, E., Warnecke, C., Raaz, U., Willam, et al

2017; 91 (3): 616-627

- **Epigenetic clock analysis of diet, exercise, education, and lifestyle factors.** *Aging*
Quach, A., Levine, M. E., Tanaka, T., Lu, A. T., Chen, B. H., Ferrucci, L., Ritz, B., Bandinelli, S., Neuhauser, M. L., Beasley, J. M., Snetselaar, L., Wallace, R. B., Tsao, et al
2017; 9 (2): 419-446
- **Effect of Pioglitazone on Cardiometabolic Risk in Patients With Obstructive Sleep Apnea.** *American journal of cardiology*
Liu, A., Abbasi, F., Kim, S. H., Ariel, D., Lamendola, C., Cardell, J., Xu, S., Patel, S., Tomasso, V., Mojaddidi, H., Grove, K., Tsao, P. S., Kushida, et al
2017
- **A Pilot Study: The Beneficial Effects of Combined Statinexercise Therapy on Cognitive Function in Patients with Coronary Artery Disease and Mild Cognitive Decline** *INTERNAL MEDICINE*
Toyama, K., Sugiyama, S., Oka, H., Hamada, M., Iwasaki, Y., Horio, E., Rokutanda, T., Nakamura, S., Spin, J. M., Tsao, P. S., Ogawa, H.
2017; 56 (6): 641-649
- **Cloud-based interactive analytics for terabytes of genomic variants data.** *Bioinformatics (Oxford, England)*
Pan, C., McInnes, G., Deflaux, N., Snyder, M., Bingham, J., Datta, S., Tsao, P. S.
2017; 33 (23): 3709-15
- **Cloud-based Interactive Analytics for Terabytes of Genomic Variants Data** *Bioinformatics*
Pan, C., McInnes, G., Deflaux, N., Snyder, M. P., Bingham, J., Datta, S., Tsao, P. S.
2017: 3709-15
- **DNA methylation signatures of chronic low-grade inflammation are associated with complex diseases** *GENOME BIOLOGY*
Ligthart, S., Marzi, C., Aslibekyan, S., Mendelson, M. M., Conneely, K. N., Tanaka, T., Colicino, E., Waite, L. L., Joehanes, R., Guan, W., Brody, J. A., Elks, C., Marioni, et al
2016; 17
- **Transcriptomic Profiling Maps Anatomically Patterned Subpopulations among Single Embryonic Cardiac Cells** *DEVELOPMENTAL CELL*
Li, G., Xu, A., Sim, S., Priest, J. R., Tian, X., Khan, T., Quertermous, T., Zhou, B., Tsao, P. S., Quake, S. R., Wu, S. M.
2016; 39 (4): 491-507
- **DNA methylation-based measures of biological age: meta-analysis predicting time to death.** *Aging*
Chen, B. H., Marioni, R. E., Colicino, E., Peters, M. J., Ward-Caviness, C. K., Tsai, P., Roetker, N. S., Just, A. C., Demerath, E. W., Guan, W., Bressler, J., Fornage, M., Studenski, et al
2016; 8 (9): 1844-1865
- **Role of microRNAs on Blood Brain Barrier Dysfunction in Vascular Cognitive Impairment.** *Current drug delivery*
Toyama, K., Spin, J. M., Tsao, P. S.
2016: -?
- **Does enhanced insulin sensitivity improve sleep measures in patients with obstructive sleep apnea: a randomized, placebo-controlled pilot study.** *Sleep medicine*
Liu, A., Kim, S. H., Ariel, D., Abbasi, F., Lamendola, C., Cardell, J., Xu, S., Patel, S., Tomasso, V., Mojaddidi, H., Grove, K., Tsao, P. S., Kushida, et al
2016; 22: 57-60
- **Response to Letters Regarding Article, "Segmental Aortic Stiffening Contributes to Experimental Abdominal Aortic Aneurysm Development"** *CIRCULATION*
Raaz, U., Zoellner, A. M., Schellinger, I. N., Toh, R., Nakagami, F., Brandt, M., Emrich, F. C., Kayama, Y., Eken, S., Adam, M., Maegdefessel, L., Hertel, T., Deng, et al
2016; 133 (1): E11-E12
- **Identification and validation of N-acetyltransferase 2 as an insulin sensitivity gene.** *journal of clinical investigation*
Knowles, J. W., Xie, W., Zhang, Z., Chennamsetty, I., Assimes, T. L., Paananen, J., Hansson, O., Pankow, J., Goodarzi, M. O., Carcamo-Orive, I., Morris, A. P., Chen, Y. I., Mäkinen, et al
2016; 126 (1): 403-?
- **Heme Oxygenase-1 Expression Affects Murine Abdominal Aortic Aneurysm Progression.** *PloS one*
Azuma, J., Wong, R. J., Morisawa, T., Hsu, M., Maegdefessel, L., Zhao, H., Kalish, F., Kayama, Y., Wallenstein, M. B., Deng, A. C., Spin, J. M., Stevenson, D. K., Dalman, et al

2016; 11 (2)

- **An epigenetic clock analysis of race/ethnicity, sex, and coronary heart disease.** *Genome biology*
Horvath, S., Gurven, M., Levine, M. E., Trumble, B. C., Kaplan, H., Allayee, H., Ritz, B. R., Chen, B., Lu, A. T., Rickabaugh, T. M., Jamieson, B. D., Sun, D., Li, et al
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