

## Curriculum Vitae

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**Name:** Bing Yu

**Present Title:** Assistant Professor

**Address:** Department of Epidemiology, Human Genetics and Environmental Sciences  
School of Public Health (SPH)  
University of Texas Health Science Center at Houston (UTHealth)  
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Houston, Texas 77030

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### Academic Positions:

2015-present *Tenure-track Assistant Professor*  
Department of Epidemiology, Human Genetics and Environmental Sciences  
(EHGES), UTHealth SPH, Houston, TX

2013-2015 *Postdoctoral fellow*  
Human Genetics Center, UTHealth SPH, Houston, TX

2010-2013 *Graduate Research Assistant*  
Human Genetics Center, UTHealth SPH, Houston, TX

2003-2009 *Public Health Physician*  
Center for Disease Control and Prevention, Luwan District, Shanghai, China

### Education:

2013 Ph.D. Epidemiology, UTHealth, Houston, TX, US

2008 M.S. Biostatistics, Fudan University, Shanghai, China

2003 B.M. Preventive Medicine, Fudan University, Shanghai, China

### Honors and Awards:

2017 Research Mentor/Mentee Award, UTHealth SPH

2014 Early Career Award  
Cohorts of Heart and Aging Genomic Epidemiology (CHARGE) Consortium

2014 Charles J. Epstein Trainee Award for Excellence in Human Genetics Research  
(Finalist) - American Society of Human Genetics

2013 The Jeremiah and Rose Stamler Research Award for New Investigators  
American Heart Association (AHA)

2012 Tuition and Travel Scholarship  
17<sup>th</sup> Annual Summer Institute in Statistical Genetics

2012 Rufus K. Guthrie Scholarship

2011-2013 Fellowship from the Houston Laboratory and Population Science  
Training Program in Gene and Environment Interaction

2011 Fellowship from CHARGE Consortium

2011 Tuition and Travel Scholarship  
16<sup>th</sup> Annual Summer Institute in Statistical Genetics

2011 New Student Tuition Scholarship

2005-2008 Shanghai Outstanding Young Physicians Award

1998-2003 The People's Scholarship

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### Teaching Experience:

- 2018 PH 2612, Epidemiology I  
PH 2740, Cardiovascular Disease Epidemiology and Prevention  
PH 2780, Applied Genetic Methods in Public Health
- 2017 PH 2612, Epidemiology I  
PH 2740, Cardiovascular Disease Epidemiology and Prevention
- 2016 PH 2740, Cardiovascular Disease Epidemiology and Prevention  
PH 2780, Applied Genetic Methods in Public Health

### Peer Reviewed Publications:

1. Selvaraj S, Seidelmann S, Silvestre OM, Claggett B, Ndumele CE, Cheng S, **Yu B**, Fernandes-Silva MM, Grove ML, Boerwinkle E, Shah AM, Solomon SD. *HFE* H63D Polymorphism and the Risk for Systemic Hypertension, Myocardial Remodeling, and Adverse Cardiovascular Events in the ARIC Study. *Hypertension*. In press.
2. Saeed A, Feofanova EV, **Yu B**, Sun W, Virani SS, Nambi V, Coresh J, Guild CS, Boerwinkle E, Ballantyne CM, Hoogeveen RC. Remnant-Like Particle Cholesterol, Low-Density Lipoprotein Triglycerides, and Incident Cardiovascular Disease. *J Am Coll Cardiol*. 2018, 10; 72(2):156-169. PMID: 29976289; PMCID: PMC6051722.
3. Feofanova EV, **Yu B**, Metcalf GA, Liu X, Muzny D, Below JE, Wagenknecht LE, Gibbs RA, Morrison AC, Boerwinkle E. Sequence-Based Analysis of Lipid-Related Metabolites in a Multiethnic Study. *Genetics*. 2018. 2018; 209(2):607-616. PMID: 29610217; PMCID: PMC5972430.
4. Guo Y, Moon JY, Laurie CC, North KE, Sanchez-Johnsen LA, Davis S, **Yu B**, Nyenhuis SM, Kaplan R, Rastogi D, Qi Q. Genetic Predisposition to Obesity is associated with Asthma in US Hispanics/Latinos: Results from the Hispanic Community Health Study/Study of Latinos. *Allergy*. 2018; 73(7):1547-1550. PMID: 29603744; PMCID: PMC6019147.
5. Rebholz CM, **Yu B**, Zheng Z, Chang P, Tin A, Köttgen A, Wagenknecht LE, Coresh J, Boerwinkle E, Selvin E. Serum metabolomic profile of incident diabetes. *Diabetologia*. 2018; 61(5):1046-1054. PMID: 29556673.
6. Li C, Grove ML, **Yu B**, Jones BC, Morrison A, Boerwinkle E, Liu X. Genetic variants in microRNA genes and targets associated with cardiovascular disease risk factors in the African-American population. *Hum Genet*. 2018;137(1):85-94. PMID: 29264654; PMCID: PMC5790599.
7. de Vries PS, **Yu B**, Feofanova EV, Metcalf GA, Brown MR, Zeighami AL, Liu X, Muzny DM, Gibbs RA, Boerwinkle E, Morrison AC. Whole-genome sequencing study of serum peptide levels: the Atherosclerosis Risk in Communities study. *Human molecular genetics*. 2017; 26(17):3442-3450. PMID: 28854705
8. Tin A, Scharpf R, Estrella MM, **Yu B**, Grove ML, Chang PP, Matsushita K, Köttgen A, Arking DE, Boerwinkle E, Le TH, Coresh J, Grams ME. The Loss of *GSTM1* Associates with Kidney Failure and Heart Failure. *Journal of the American Society of Nephrology*. 2017; PMID: 28720685
9. Bressler J, **Yu B**, Mosley TH, Knopman DS, Gottesman RF, Alonso A, Sharrett AR, Wruck LM, Boerwinkle E. Metabolomics and cognition in African American adults in midlife: the

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- atherosclerosis risk in communities study. *Translational psychiatry*. 2017; 7(7):e1173. PMID: 28934192, PMCID: PMC5538110
10. Stitzel NO, Khera AV, Wang X, Bierhals AJ, Vourakis AC, Sperry AE, Natarajan P, Klarin D, Emdin CA, Zekavat SM, Nomura A, Erdmann J, Schunkert H, Samani NJ, Kraus WE, Shah SH, **Yu B**, Boerwinkle E, Rader DJ, Gupta N, Frossard PM, Rasheed A, Danesh J, Lander ES, Gabriel S, Saleheen D, Musunuru K, Kathiresan S. ANGPTL3 Deficiency and Protection Against Coronary Artery Disease. *Journal of the American College of Cardiology*. 2017; 69(16):2054-2063. NIHMSID: NIHMS856533, PMID: 28385496, PMCID: PMC5404817
  11. Seidelmann SB, Vardeny O, Claggett B, **Yu B**, Shah AM, Ballantyne CM, Selvin E, MacRae CA, Boerwinkle E, Solomon SD. An *NPPB* Promoter Polymorphism Associated With Elevated N-Terminal pro-B-Type Natriuretic Peptide and Lower Blood Pressure, Hypertension, and Mortality. *Journal of the American Heart Association*. 2017; 6(4). PMID: 28341776, PMCID: PMC5533018
  12. Morrison AC, Huang Z, **Yu B**, Metcalf G, Liu X, Ballantyne C, Coresh J, Yu F, Muzny D, Feofanova E, Rustagi N, Gibbs R, Boerwinkle E. Practical Approaches for Whole-Genome Sequence Analysis of Heart- and Blood-Related Traits. *American journal of human genetics*. 2017; 100(2):205-215. PMID: 28089252, PMCID: PMC5294677
  13. Schumann G, Liu C, O'Reilly P, Gao H, Song P, Xu B, Ruggeri B, Amin N, Jia T, Preis S, Segura Lepe M, Akira S, Barbieri C, Baumeister S, Cauchi S, Clarke TK, Enroth S, Fischer K, Hällfors J, Harris SE, Hieber S, Hofer E, Hottenga JJ, Johansson Å, Joshi PK, Kaartinen N, Laitinen J, Lemaitre R, Loukola A, Luan J, Lytikäinen LP, Mangino M, Manichaikul A, Mbarek H, Milanesechi Y, Moayyeri A, Mukamal K, Nelson C, Nettleton J, Partinen E, Rawal R, Robino A, Rose L, Sala C, Satoh T, Schmidt R, Schraut K, Scott R, Smith AV, Starr JM, Teumer A, Trompet S, Uitterlinden AG, Venturini C, Vergnaud AC, Verweij N, Vitart V, Vuckovic D, Wedenoja J, Yengo L, **Yu B**, Zhang W, Zhao JH, Boomsma DI, Chambers J, Chasman DI, Daniela T, de Geus E, Deary I, Eriksson JG, Esko T, Eulenburg V, Franco OH, Froguel P, Gieger C, Grabe HJ, Gudnason V, Gyllensten U, Harris TB, Hartikainen AL, Heath AC, Hocking L, Hofman A, Huth C, Jarvelin MR, Jukema JW, Kaprio J, Kooner JS, Kutalik Z, Lahti J, Langenberg C, Lehtimäki T, Liu Y, Madden PA, Martin N, Morrison A, Penninx B, Pirastu N, Psaty B, Raitakari O, Ridker P, Rose R, Rotter JI, Samani NJ, Schmidt H, Spector TD, Stott D, Strachan D, Tzoulaki I, van der Harst P, van Duijn CM, Marques-Vidal P, Vollenweider P, Wareham NJ, Whitfield JB, Wilson J, Wolffenbuttel B, Bakalkin G, Evangelou E, Liu Y, Rice KM, Desrivières S, Kliewer SA, Mangelsdorf DJ, Müller CP, Levy D, Elliott P. KLB is associated with alcohol drinking, and its gene product  $\beta$ -Klotho is necessary for FGF21 regulation of alcohol preference. *Proceedings of the National Academy of Sciences of the United States of America*. 2016; 113(50):14372-14377. PMID: 27911795, PMCID: PMC5167198
  14. **Yu B\***, de Vries PS\*, Metcalf GA, Wang Z, Feofanova EV, Liu X, Muzny DM, Wagenknecht LE, Gibbs RA, Morrison AC, Boerwinkle E. Whole genome sequence analysis of serum amino acid levels. *Genome biology*. 2016; 17(1):237. PMID:27884205, PMCID: PMC5123402 (\*contributed equally)
  15. **Yu B**, Li AH, Metcalf GA, Muzny DM, Morrison AC, White S, Mosley TH, Gibbs RA, Boerwinkle E. Loss-of-function variants influence the human serum metabolome. *Science advances*. 2016; 2(8):e1600800. PMID: 27602404, PMCID:PMC5007069
  16. Rhee EP, Yang Q, **Yu B**, Liu X, Cheng S, Deik A, Pierce KA, Bullock K, Ho JE, Levy D, Florez JC, Kathiresan S, Larson MG, Vasan RS, Clish CB, Wang TJ, Boerwinkle E, O'Donnell

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- CJ, Gerszten RE. An exome array study of the plasma metabolome. *Nature communications*. 2016; 7:12360. PMID: 27453504, PMCID: PMC4962516
17. **Yu B**, Heiss G, Alexander D, Grams ME, Boerwinkle E. Associations Between the Serum Metabolome and All-Cause Mortality Among African Americans in the Atherosclerosis Risk in Communities (ARIC) Study. *American journal of epidemiology*. 2016; 183(7):650-6. PMID: 26956554, PMCID:PMC4801134
  18. **Yu B**, Pulit SL, Hwang SJ, Brody JA, Amin N, Auer PL, Bis JC, Boerwinkle E, Burke GL, Chakravarti A, Correa A, Dreisbach AW, Franco OH, Ehret GB, Franceschini N, Hofman A, Lin DY, Metcalf GA, Musani SK, Muzny D, Palmas W, Raffel L, Reiner A, Rice K, Rotter JI, Veeraraghavan N, Fox E, Guo X, North KE, Gibbs RA, van Duijn CM, Psaty BM, Levy D, Newton-Cheh C, Morrison AC. Rare Exome Sequence Variants in *CLCN6* Reduce Blood Pressure Levels and Hypertension Risk. *Circulation. Cardiovascular genetics*. 2016; 9(1):64-70. PMID: 26658788, PMCID: PMC4771070
  19. Li AH, Morrison AC, Kovar C, Cupples LA, Brody JA, Polfus LM, **Yu B**, Metcalf G, Muzny D, Veeraraghavan N, Liu X, Lumley T, Mosley TH, Gibbs RA, Boerwinkle E. Analysis of loss-of-function variants and 20 risk factor phenotypes in 8,554 individuals identifies loci influencing chronic disease. *Nature genetics*. 2015; 47(6):640-2. PMID: 25915599, PMCID:PMC4470468
  20. **Yu B**, Li AH, Muzny D, Veeraraghavan N, de Vries PS, Bis JC, Musani SK, Alexander D, Morrison AC, Franco OH, Uitterlinden A, Hofman A, Dehghan A, Wilson JG, Psaty BM, Gibbs R, Wei P, Boerwinkle E. Association of Rare Loss-Of-Function Alleles in *HAL*, Serum Histidine: Levels and Incident Coronary Heart Disease. *Circulation. Cardiovascular genetics*. 2015; 8(2):351-5. PMID: 25575548, PMCID: PMC4406800
  21. Alonso A, **Yu B**, Qureshi WT, Grams ME, Selvin E, Soliman EZ, Loehr LR, Chen LY, Agarwal SK, Alexander D, Boerwinkle E. Metabolomics and Incidence of Atrial Fibrillation in African Americans: The Atherosclerosis Risk in Communities (ARIC) Study. *PLoS one*. 2015; 10(11):e0142610. PMID: 26544570, PMCID:PMC4636390
  22. **Yu B**, Zheng Y, Nettleton JA, Alexander D, Coresh J, Boerwinkle E. Serum metabolomic profiling and incident CKD among African Americans. *Clinical journal of the American Society of Nephrology*. 2014; 9(8):1410-7. PMID: 25011442, PMCID: PMC4123405
  23. Zheng Y, **Yu B**, Alexander D, Steffen LM, Boerwinkle E. Human metabolome associates with dietary intake habits among African Americans in the atherosclerosis risk in communities study. *American journal of epidemiology*. 2014; 179(12):1424-33. PMID: 24801555, PMCID: PMC4051875
  24. Zheng Y, **Yu B**, Alexander D, Couper DJ, Boerwinkle E. Medium-term variability of the human serum metabolome in the Atherosclerosis Risk in Communities (ARIC) study. *Omics: a journal of integrative biology*. 2014; 18(6):364-73. PMID: 24910946, PMCID: PMC4048570
  25. Zheng Y, **Yu B**, Alexander D, Steffen LM, Nettleton JA, Boerwinkle E. Metabolomic patterns and alcohol consumption in African Americans in the Atherosclerosis Risk in Communities Study. *The American journal of clinical nutrition*. 2014; 99(6):1470-8. PMID: 24760976, PMCID: PMC4021786
  26. **Yu B**, Zheng Y, Alexander D, Morrison AC, Coresh J, Boerwinkle E. Genetic determinants influencing human serum metabolome among African Americans. *PLoS genetics*. 2014; 10(3):e1004212. PMID: 24625756, PMCID:PMC3952826

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27. **Yu B**, Zheng Y, Alexander D, Manolio TA, Alonso A, Nettleton JA, Boerwinkle E. Genome-wide association study of a heart failure related metabolomic profile among African Americans in the Atherosclerosis Risk in Communities (ARIC) study. *Genetic epidemiology*. 2013; 37(8):840-5. NIHMSID: NIHMS591141, PMID: 23934736, PMCID: PMC4079107
28. Zheng Y, **Yu B**, Alexander D, Manolio TA, Aguilar D, Coresh J, Heiss G, Boerwinkle E, Nettleton JA. Associations between metabolomic compounds and incident heart failure among African Americans: the ARIC Study. *American journal of epidemiology*. 2013; 178(4):534-42. PMID: 23788672, PMCID:PMC3736751
29. Zheng Y, **Yu B**, Alexander D, Mosley TH, Heiss G, Nettleton JA, Boerwinkle E. Metabolomics and incident hypertension among blacks: the atherosclerosis risk in communities study. *Hypertension*. 2013; 62(2):398-403. NIHMSID: NIHMS499407, PMID: 23774226, PMCID: PMC3789066
30. **Yu B**, Barbalic M, Brautbar A, Nambi V, Hoogeveen RC, Tang W, Mosley TH, Rotter JI, deFilippi CR, O'Donnell CJ, Kathiresan S, Rice K, Heckbert SR, Ballantyne CM, Psaty BM, Boerwinkle E. Association of genome-wide variation with highly sensitive cardiac troponin-T levels in European Americans and Blacks: a meta-analysis from atherosclerosis risk in communities and cardiovascular health studies. *Circulation. Cardiovascular genetics*. 2013; 6(1):82-8. NIHMSID:NIHMS453520, PMID: 23247143, PMCID: PMC3693561
31. Fox ER, Musani SK, Barbalic M, Lin H, **Yu B**, Ogunyankin KO, Smith NL, Kutlar A, Glazer NL, Post WS, Paltoo DN, Dries DL, Farlow DN, Duarte CW, Kardia SL, Meyers KJ, Sun YV, Arnett DK, Patki AA, Sha J, Cui X, Samdarshi TE, Penman AD, Bibbins-Domingo K, Bůžková P, Benjamin EJ, Bluemke DA, Morrison AC, Heiss G, Carr JJ, Tracy RP, Mosley TH, Taylor HA, Psaty BM, Heckbert SR, Cappola TP, Vasan RS. Genome-wide association study of cardiac structure and systolic function in African Americans: the Candidate Gene Association Resource (CARE) study. *Circulation. Cardiovascular genetics*. 2013; 6(1):37-46. NIHMSID: NIHMS440311, PMID: 23275298, PMCID: PMC3591479
32. Grove ML, **Yu B**, Cochran BJ, Haritunians T, Bis JC, Taylor KD, Hansen M, Borecki IB, Cupples LA, Fornage M, Gudnason V, Harris TB, Kathiresan S, Kraaij R, Launer LJ, Levy D, Liu Y, Mosley T, Peloso GM, Psaty BM, Rich SS, Rivadeneira F, Siscovick DS, Smith AV, Uitterlinden A, van Duijn CM, Wilson JG, O'Donnell CJ, Rotter JI, Boerwinkle E. Best practices and joint calling of the HumanExome BeadChip: the CHARGE Consortium. *PLoS one*. 2013; 8(7):e68095. PMID: 23874508, PMCID: PMC3709915
33. **Yu B**, Zhao NQ, Lynn H. Comparison of statistical methods for estimating regression coefficients in models for analysis of two-stage clustered randomized data. *Journal of Fudan University (Medical Sciences)*, 2008, 35: (1) 75-79
34. Wu JH, **Yu B**. The Epidemiological Research Progress of Impaired Glucose Tolerance. *Chinese Journal of Prevention & Control in Chronic Disease*, 2007, 15: (1) 76-77
35. **Yu B**, Lu HM, Wang Y. A time-series study on the association of daily mortality and air pollution in Luwan district, Shanghai. *Shanghai Journal of Preventive Medicine*. 2006, 18: (6) 264-266
36. Cheng YH, Wu JH, Lu HM, Li YF, Mei F, Xu JY, **Yu B**, Shen B, Wang Y. An investigation of bone mineral density and the prevalence of osteoporosis after three year intervention in Shanghai. *Chinese Journal of Osteoporosis*. 2004, 10: (3)
37. Liu HY, Xu HH, Wu JH, Sheng DY, Liu H, **Yu B**, Yao ZP, Lu HM. A survey of the nutritional status of the diet of the elderly from the apartment for the elderly in Luwan district Shanghai. *Shanghai Journal of Preventive Medicine*. 2003, 15: (11)

### Non-peer Reviewed Book Chapter:

38. Wang Z, **Yu B**. Chapter 16: Metabolomics, proteomics and genomics: an introduction to a clinician. *Biomarkers in Cardiovascular Disease*. Elsevier. In press.

### Conference Presentations (first author only):

1. **Yu B**, Flexeder C, McGarrah R, North KE, Morrison AC, Boerwinkle E, London S. Novel Metabolomic Profiles for Pulmonary Function in Multiethnic Populations. ATS meeting, San Diego, CA, May 2018. Poster Presentation.
2. **Yu B**, Wyss A, North KE, Boerwinkle E, London S. Metabolome Profile and Pulmonary Function: Pilot Findings from the Atherosclerosis Risk in Communities Study. CHARGE meeting, Boston, MA, Sep 2017. Oral Presentation.
3. **Yu B**, Gottesman RF, Mosley TH, Boerwinkle E, Fornage M. A Prospective Study of Serum Metabolites and Risk of Ischemic Stroke. International Stroke Conference, Houston, TX, Feb 2017. Poster Presentation.
4. **Yu B**, Feofanova E, Muzny D, Morrison AC, Gibbs RA, Boerwinkle E. Whole Genome Sequence Variants Influence Multiple Amino Acids Levels. The Biology of Genomes, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, May 2016. Oral Presentation.
5. **Yu B**, Yazdani A, Yu F, Li AH, Metcalf G, Muzny DM, et al. Low-frequency sequence variants influence the human metabolome. The Biology of Genomes, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, May 2015. Poster Presentation.
6. **Yu B**, Morrison AC, Mosley TH, Shah AM, Solomon SD, Macrae C, et al. Genetic Variation, Human Metabolome and Incident Heart Failure among African-Americans in the Atherosclerosis Risk in Communities (ARIC) Study. American Heart Association, Baltimore, MD, Mar 2015. Poster Presentation.
7. **Yu B**, Li A, Metcalf G, Muzny D, Morrison AC, White S, et al. Loss-of-Function Variants Influencing the Human Serum Metabolome. American Society of Human Genetics, CA, Oct 2014. Oral Presentation.
8. **Yu B**, Li A, Muzny D, Veeraghavan N, de Vries PS, Bis JC, et al. Association of Rare Loss-Of-Function Alleles in HAL, Serum Histidine Levels and Incident Coronary Heart Disease. CHARGE meeting, Los Angeles, CA, Jan 2014. Oral Presentation.
9. **Yu B**, Zheng Y, Nettleton JA, Alexander D, Coresh J, Gibbs R, Boerwinkle E. DNA Sequence Variation and the Human Metabolome among African Americans in the Atherosclerosis Risk in Communities (ARIC) Study. American Heart Association, New Orleans, LA, Mar 2013. Oral Presentation.
10. **Yu B**, Zheng Y, Nettleton JA, Alexander D, Coresh J, Gibbs R, Boerwinkle E. DNA Sequence Variation and the Human Metabolome among African Americans in the Atherosclerosis Risk in Communities (ARIC) Study. CHARGE meeting, Houston, TX, Dec 2012. Oral Presentation.
11. **Yu B**, Barbalic M, Brautbar A, Nambi V, Hoogeveen RC, Tang W, et al. Association of Genome-Wide Variation with Highly Sensitive Cardiac Troponin-T (hs-cTnT) Levels in European- and African-Americans: A Meta-Analysis from the Atherosclerosis Risk in Communities and the Cardiovascular Health Studies. CHARGE meeting, Los Angeles, CA, October 2011. Oral Presentation.

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### Active Research Support:

1. 1R01HL142003 (Yu) 05/01/18 - 04/30/20

#### **Trans-omics Analysis to Unravel Molecular Underpinnings of Heart, Lung and Blood Disease Risk Factors**

The overall goal of this application is to identify genetic variants that influence circulating metabolites (metabQTL) in multi-ethnic populations and utilize metabQTL findings to identify molecular pathways that regulate heart, lung and blood disease risk factors.

Role: Principal Investigator

2. 1R01HL141824 (Yu) 04/01/18 - 03/31/22

#### **Metabolic Signatures Underlying Cardiac Function for Heart Failure in Multi-Ethnic Populations**

The goal is to use multi-omics technologies to identify novel genetic determinants and metabolic signatures associated with cardiac dysfunction and heart failure risk.

Role: Principal Investigator

3. 5R01HL116720 (Wei) 07/01/17 - 06/30/21

#### **Association Analysis of Rare Variants with Sequencing Data**

The objective of the proposed research is to develop novel and powerful statistical tests for complex disease-rare variants association by explicitly taking account of genetic and phenotypic heterogeneity and apply them to detect associations of rare variants-cardiovascular traits with the sequencing and other omic data for new biological discovery.

Role: Subcontract Principal Investigator

4. 17SDG33661228 (Yu) 07/01/17 – 6/30/20

#### **The Application of Genomics and Metabolomics on Coronary Heart Disease Risk Prediction**

The goal of this project is to identify a broad set of circulating metabolites involved in the cardiac metabolism in relation to CHD by integrating genomics, transcriptomics and metabolomics, and to advance our knowledge on CHD etiology. Dr. Yu is involved all aspects of the project, including study design, statistical analysis, results interpretation, and manuscript preparation.

Role: Principal Investigator

5. UM1HG008898 (Gibbs) 01/14/16 - 11/30/19

#### **Genomic Architecture of Common Disease in Diverse Populations**

The overall goal of this project is to generate 6,000 whole genome sequences in well-phenotyped individuals to study disorders of the cardiovascular system and metabolism as one of the three discovery projects conducted in Baylor College of Medicine's Human Genome Sequencing Center (BCM-HGSC).

Role: Co-Investigator