James Jian Yang
Associate Professor
Department of Biostatistics & Data Science
University of Texas Health Science Center at Houston
1200 Pressler Street, RAS-W832
Houston, TX 77030-3900
E-mail: James.J.Yang@uth.tmc.edu
Phone: (713) 500-9571

Education and Training

Ph.D., Department of Statistics, University of Florida. 1998 – 2002.
- Dissertation title: *A Statistical Method for Identifying Informative Genes in Microarrays*.
- Advisor: Dr. Mark C. K. Yang, American Statistical Association (ASA) Fellow.

M.S., Institute of Statistics, National Tsing Hua University. 1994-1996.

B.A., Department of Physics, National Tsing Hua University. 1989-1993.

Certification

- NSF Plant Microarray Short Course on Design and Analysis of Plant Microarray Experimentation. June 13-14, 2005.
- Basic Life Support (CPR and AED) Program, American Heart Association. October 2018.

Professional Appointments

Associate Professor, Department of Biostatistics and Data Science, School of Public Health, The University of Texas Health Science Center at Houston (UTHealth). 2019 – present.
Webpage: https://sph.uth.edu/divisions/biostatistics/

Associate Research Scientist, Office of Research and Global Affairs, School of Nursing, University of Michigan. 2014 – 2019.
- Interim Lead for the Statistical Consulting Team (April 2015- June 2016).
- Conducted methodology research and collaborative research.
- Proposed study design, statistical analysis and sample size estimation for grant submission.

Associate Scientist (2012 – 2013) & **Assistant Scientist** (2007 – 2012), Public Health Sciences (former Biostatistics and Research Epidemiology), Henry Ford Health Sciences Center.
- Evaluated, applied, and developed statistical methodology for medical research.
- Developed study design, analysis plan, and protocol for NIH, CDC, and DoD grant applications.
- Established quality control procedures for genomic research.
- Conducted genome-wide association and admixture mapping studies.
- Analyzed and interpreted MRI biomarker and imaging data.
- Reviewed NIH grant applications for NCI Special Emphasis Panel ZCA1 SRLB-4 (J2) B R03 Small Grants Program for Cancer Epidemiology, October 16-17, 2012.

Biostatistician, Biostatistics and Research Epidemiology, Henry Ford Health Sciences Center. 2003 – 2007.
- Provided statistical consultation and data analysis service for research investigators.
- Reviewed research grant applications for internal funding.

Research Assistant, Diabetes Research Center, University of Florida. 1998 – 2002.
- Conducted linkage disequilibrium analysis on simplex and multiplex affected sib-pair families and verified several type 1 diabetes loci.
- Developed statistical models and computing programs for cDNA microarrays.

Second Lieutenant, Commanding Officer, Yilan City, Taiwan. 1996 – 1998.

Research Assistant, Department of Statistics, National Tsing Hua University. 1995 – 1996.
- Developed a new method of point estimation for the measurement error model.

Research Interests
- Statistical genetics and genomics
- Bioinformatics
- Substance use and addiction
- Analysis of data from wearable devices
- Longitudinal & EMA data analysis
- Multivariate analysis
- Causal inference

Grant Funding

Ongoing Research Support
R01DA049154, NIH/NIDA
      Buu, Anne
8/15/2019-6/30/2024
Project Title: *Methodology and measurement for examining short-term and long-term effects of e-cigarette and polysubstance use*
Role: Co-Investigator with 50% efforts

HHS000563200001, The Texas Health and Human Services Commission
      Wilkerson, J. Michael
8/7/2020-8/31/2024
Project Title: *Expansion and Evaluation of Recovery Residences for Persons in Recovery for Opioid Use on Medication Assisted Therapy in Texas*
Role: Co-Investigator with 10% efforts

U48DP006408, CDC
      Maria Fernandez
9/30/2020-9/29/2024
Project Title: *University of Texas Prevention Research Center*
Role: Co-Investigator with 5% efforts

Completed Research Support
P20NR015331, NIH/NINR
    Barton, Debra L. & Dinov, Ivaylo (Multiple PI's)
09/26/14-07/31/19
Project Title: *Center for Complexity and Self-management of Chronic Disease (CSCD)*
Role: Co-Investigator

1-R01-DC013885-01, NIH/NIDCD
    McCullagh, Marjorie (PI)
12/01/14-11/30/18
Project Title: *Test of Hearing Health Education Programs for Farm and Rural Youth*
Role: Co-Investigator

1-R01-HS-022305-01-A1, AHRQ
    Manojlovich, Milisa (PI)
09/30/14-09/29/18
Project Title: *The Effect of Health Information Technology on Healthcare Provider Communication*
Role: Co-Investigator

5-R01-OH-010582-02, CDC/NIOSH
    Friese, Christopher (PI)
07/01/14-06/30/18
Project Title: *Randomized Controlled Trial to Improve Oncology Nurses' Protective Equipment Use*
Role: Co-Investigator

4-R01-NR-013861-05, NIH
    Holden, Janean (PI)
09/11/12-06/30/17
Project Title: *Posterior Hypothalamic Modulation of Pain*
Role: Co-Investigator

1-R03-CA-186183-01-A1, NIH
    Smith, Ellen (PI)
04/01/15-03/31/17
Project Title: *Chemotherapy-Induced Peripheral Neuropathy (CIPN) Measurement Validation*
Role: Co-Investigator

K01 TW008763-01A1, NIH
    Lori, Jody R. (PI)
09/17/11-07/30/16

Project Title: *New Avenues to Increase the Use of Skilled Birth Attendants in Ghana*
Role: Co-Investigator

5-R01-DC-010827-04, HHS
    McCullagh, Marjorie (PI)
01/01/11-12/31/15
Project Title: *Effectiveness of an Intervention to Prevent Hearing Loss among Farmers*
Role: Co-Investigator

R01-01AG038648, NIH/NIA
    Morris, Daniel (PI)
08/01/11-05/01/15
Project Title: *Treatment of Stroke in Young and Aged Rats Using Thymosin Beta 4*
Role: Co-Investigator

R01 CA140341-01A2, NIH/NCI
    Zhong, Hualiang (PI)
07/01/10-05/01/15
Project Title: *To Quantify Deformable Image Registration Errors in IGRT*
Role: Co-Investigator

CDC Foundation
    Gordon, Stuart (PI)
11/01/09-10/01/14
Project Title: *Chronic Hepatitis C and B Cohort Study (CheCS)*
Role: Co-Investigator

R01 CA135329, NIH/NCI
    Ewing, James (PI)
04/01/09-03/01/14
Project Title: *MRI Biomarkers of Response in Cerebral Tumors*
Role: Co-Investigator

R01 DK64695, NIDDK
    Williams, L. Keoki (PI)
03/01/09-02/01/14
Project Title: *The Clinical Effectiveness of Pharmacy Adherence Information for Diabetes Control*
Role: Co-Investigator

Teaching

- PH 1700: *Intermediate Biostatistics* (3 credits). Department of Biostatistics and Data Science, School of Public Health, The University of Texas Health Science Center at Houston (UTHealth). From Spring 2020 to present (every semester).
- PH 1986: *Introduction to Statistical Genetics and Bioinformatics* (3 credits), Department of Biostatistics and Data Science, School of Public Health, The University of Texas Health Science Center at Houston (UTHealth). From Fall 2021 to present (every fall semester).
- HS 853: *Scientific Methods for Health Sciences: Special Topics (4 credits)*. School of Nursing, University of Michigan. Winter 2018.
- HS 852: *Scientific Methods for Health Sciences: Linear Modeling (4 credits)*. School of Nursing, University of Michigan. Winter 2015.
- *Data Synthesis Workshop (Meta Analysis: Effect Size and Precision)*. School of Nursing, University of Michigan. May 12th 2014.
- *Tutorial in biostatistics (Structural equation modeling, Propensity score methodology)*. Public Health Sciences, Henry Ford Health Sciences Center. Spring 2013.

Committee Service

- Advisor of Master Student Thesis Committee:
    - Devanshi Mukeshkumar Majeethia, Department of Biostatistics and Data Science, University of Texas Health Science Center at Houston (UTHealth). August 2021-April 2023.
- Member of Doctoral Students Dissertation Committee:
    - Robert Knoerl (Advisor: Dr. Ellen Lavoie Smith), Department of Health Behavior and Biological Sciences, University of Michigan. March 2015 - April 2017.
    - Yang Li (Advisor: Dr. Julia S. Seng), Department of Systems, Populations and Leadership, University of Michigan. Oct 2015 - April 2018.
- Institutional Review Board, Henry Ford Health System. 2010 – 2013.
    - Reviewed experimental design, statistical methods and power of all research projects involving human subjects in the institution.
    - Protected the rights and welfare of the research subjects.

Seminars and Conference Presentations

- *A statistical method for identifying parallel and sequential mediators with applications in mental health.*
  Division of Clinical and Translational Sciences, Department of Internal Medicine, University of Texas Health Science Center at Houston (UTHealth). July 2019.
- *Scalable Statistical Inference for Genome-Wide Association Studies.*
  Department of Biostatistics and Data Science, University of Texas Health Science Center at Houston (UTHealth). April 2019.
- *Questions on correlation-based inference.*
  Faculty Development Workshop. School of Nursing, University of Michigan. April 2019.
- *A hybrid method of the sequential Monte Carlo and the Edgeworth expansion for very small p-values.*

2018 Joint Statistical Meetings, Vancouver.

- *A hybrid method of the sequential Monte Carlo and the Edgeworth expansion for very small p-values.*
  2018 ICSA China Conference with the Focus on Data Science. July 2018.
- *Identify pleiotropic genes in genome-wide association studies for multivariate phenotypes with mixed measurement scales.*
  2017 IMS-China International Conference on Statistics and probability. July 2017.
- *Identify pleiotropic genes in genome-wide association studies for multivariate phenotypes with mixed measurement scales*.
  Department of Computational Medicine & Bioinformatics, University of Michigan. October 2016.
- *An efficient genome-wide association test for mixed binary and continuous phenotypes with applications to substance abuse research.*
  2016 Joint Statistical Meetings, Chicago. August 2016.
- *An efficient method for GWAS of multivariate phenotypes.*
  IMS-APRM: The 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting, Hong Kong. July 2016.
- *Efficient association testing method for analyzing multivariate phenotypes using Fisher combination function.*
  IMS-APRM: The 3rd Institute of Mathematical Statistics Asia Pacific Rim Meeting, Taipei, Taiwan. July 2014.
- *A Statistical Approach for Local Ancestry Inference in Admixed Individuals*.
  IMS-SWUFE International Conference on Statistics and Probability, Chengdu, China. July 2013.
- *Covariate Adjustment in Pretest-Posttest Research Designs: Lord's Paradox and other issues*.
  Public Health Sciences, Henry Ford Health Sciences Center, Detroit, Michigan. May 2012.
- *Alternative Estimation Procedures for Pr(X < Y) in Categorized Data.*
  Public Health Sciences, Henry Ford Health Sciences Center, Detroit, Michigan. December 2011.
- *Causal Inference.*
  Public Health Sciences, Henry Ford Health Sciences Center, Detroit, Michigan. June 2011.
- *Generalization of the Familywise Error Rate.*
  Public Health Sciences, Henry Ford Health Sciences Center, Detroit, Michigan. December 2010.
- *Cochran-Armitage Trend Test: Past, Current and Future.*
  Biostatistics and Research Epidemiology, Henry Ford Health Sciences Center, Detroit, Michigan. March 2009.
- *Admixture Mapping.*
  Institute of Statistics, National Tsing-Hua University, Hsinchu, Taiwan. May 2008.
- *Statistical Modeling: Tree-based Methods.*
  Biostatistics and Research Epidemiology, Henry Ford Health Sciences Center, Detroit, Michigan. August 2006.

- *What a Lazy SAS User.*
  Biostatistics and Research Epidemiology, Henry Ford Health Sciences Center, Detroit, Michigan. May 2006.
- *Exegeses on Regression Models between Linear and Nonlinear.*
  Biostatistics and Research Epidemiology, Henry Ford Health Sciences Center, Detroit, Michigan. March 2006.
- *Statistical Methods for Dose-effect Data Analysis: From Linear to Nonlinear.*
  Hypertension and Vascular Research Division, Henry Ford Health Sciences Center, Detroit, Michigan. October 2005.
- *Microarray Experimental Design: Power and Sample Size Considerations.*
  ASA Joint Statistical Meeting, Minneapolis, Minnesota. August 2005.
- *A Simple Survey of Multiple Comparison Procedures.*
  Biostatistics and Research Epidemiology, Henry Ford Health Sciences Center, Detroit, Michigan. July 2005.
- *Cell Cycle Analysis.*
  Biostatistics and Research Epidemiology, Henry Ford Health Sciences Center, Detroit, Michigan. April 2004.
- *A Statistical Method for Identifying Informative Genes in Microarrays.*
  Department of Statistics, University of Florida, Gainesville, Florida. August 2002.
- *Class Discovery and Prediction Using Gene Expression Data.*
  Diabetes Research Center, University of Florida, Gainesville, Florida. June 2000.
- *Markov Chain Monte Carlo in Statistical Genetics.*
  Department of Statistics, University of Florida, Gainesville, Florida. April 2000.

Bibliography

Statistical Methodology Papers
1. **Yang, J. J.,** & Buu, A. (2024). Adaptive Sequential Singular Spectrum Analysis: Effective Signal Extraction with Application to Heart Rate Signals Related to E-Cigarette Use. *Data Science in Science, 3*(1), 2383770.
2. **Yang, J. J.**, Piper, M. E., Indic, P., & Buu, A. (2024). Statistical methods for predicting e-cigarette use events based on beat-to-beat interval (BBI) data collected from wearable devices. *Statistics in Medicine*.
3. **Yang, J. J.**, & Buu, A. (2024). Efficient matrix profile computation with Euclidean distance using Eigen transformation: Performance evaluation based on beat-to-beat interval (BBI) data. *Statistics in Medicine*.
4. **Yang, J. J.**, Luo, X., Trucco, E. M., & Buu, A. (2022). Polygenic risk prediction based on singular value decomposition with applications to alcohol use disorder. *BMC Bioinformatics*, 23: 28. PMCID: PMC8744290
5. **Yang, J.J.,** Kuo, J., Su, W. C., Jorenby, D. E., Piper, M. E., & Buu, A. (2022). A new statistical model for longitudinal ecological momentary assessment data on dual use of electronic and combustible cigarettes. *The American Journal of Drug and Alcohol Abuse, 48,* 529-537
6. **Yang, J. J.**, Trucco, E. M., Buu, A. (2019) A hybrid method of the sequential Monte Carlo and the Edgeworth expansion for computation of very small *p*-values in permutation tests.

Statistical Method in Medical Research. 28(10-11):2937-2951. PMID: 30073912; PMCID: PMC6360137. DOI: https://doi.org/10.1177/0962280218791918

7. **Yang, J.J.**, Williams, L., Buu, A. (2017) Identify pleiotropic genes in genome-wide association studies from related subjects using the linear mixed model and Fisher combination function. *BMC Bioinformatics*. 18:376. PMID: 28836938; PMCID: PMC5571642. DOI: https://doi.org/10.1186/s12859-017-1791-9

8. **Yang, J.J.**, Williams, L., Buu, A. (2017) Identify pleiotropic genes in genome-wide association studies for multivariate phenotypes with mixed measurement scales. *PLoS One*. 12(1): e0169893. PMID: 28081206; PMCID: PMC5231271. DOI: https://doi.org/10.1371/journal.pone.0169893

9. Buu, A., Williams, L. K., **Yang, J. J.** (2018) An efficient genome-wide association test for mixed binary and continuous phenotypes with applications to substance abuse research. *Statistical Methods in Medical Research*. 27 (3):905-919. PMID: 27215414; PMCID: PMC6812509. DOI: https://doi.org/10.1177/0962280216647422

10. **Yang, J. J.**, Li, J., Williams, L. K., and Buu, A. (2016) An efficient genome-wide association test for multivariate phenotypes based on the Fisher combination function. *BMC Bioinformatics*. 17 (1):19. PMID: 26729364; PMCID: PMC4704475. DOI: https://doi.org/10.1186/s12859-015-0868-6

11. Li, J., **Yang, J. J.**, Levin, A. M., Montgomery, C. G., Datta, I., Trudeau, S., Adrianto, I., McKeigue, P., Iannuzzi, M. C., Rybicki, B. A. (2014) Efficient generalized least squares method for mixed population and family-based samples in genome-wide association studies. *Genetic Epidemiology*, 38 (5): 430-438. PMID: 24845555; PMCID: PMC4112407. DOI: https://doi.org/10.1186/s12859-015-0868-6

12. **Yang, J. J.**, Li, J., Buu, A., and Williams, L. K. (2013) Efficient inference of local ancestry. *Bioinformatics*, 29 (21): 2750-2756. PMCID: PMC3799480. DOI: https://doi.org/10.1093/bioinformatics/btt488

13. **Yang, J. J.** (2010) Distribution of Fisher's combination statistic when the tests are dependent. *Journal of Statistical Computation and Simulation*, 80 (1), 1-12. DOI: https://doi.org/10.1080/00949650802412607

14. **Yang, J. J.** and Yang, M. C. K. (2006) An improved procedure for gene selection from microarray experiments using false discovery rate criterion. *BMC Bioinformatics*, 7, 15. PMCID: PMC1388243. DOI: http://doi.org/10.1186/1471-2105-7-15

15. Yang, M. C. K., **Yang, J. J.**, McIndoe, R. A., and She, J. X. (2003) Microarray experimental design: power and sample size considerations. *Physiological Genomics*, 16 (1), 24-28. DOI: https://doi.org/10.1152/physiolgenomics.00037.2003

16. Yang M. C. K., Ruan Q. G., **Yang J. J.**, Eckenrode S., Wu S., McIndoe R. A., She J. X. (2001) A statistical method for flagging weak spots improves normalization and ratio estimates in microarrays. *Physiological Genomics*, 7 (1), 45-53. PMID: 11595791. DOI: https://doi.org/10.1152/physiolgenomics.00020.2001

17. Huwang, L. C. and **Yang, J.** (2000) Trimmed estimation in the measurement error model when the covariate has replicated observations. *Proceedings of the National Science Council, Part A: Physical Science and Engineering*, 24, 405-412.

Genetic/Genomic Papers

1. **Yang, J.J.**, Wang, Z., Trucco, E.M., Buu, A., Lin, H.C. (2022). Chronic pain and delinquency partially explain the effect of the DRD4 gene polymorphism on adult substance use. *American Journal of Drug and Alcohol Abuse, 48,* 235-244.

2. Trucco, E. M., Yang, S., **Yang, J. J.**, Zucker, R. A., Li, R. and Buu, A. (2020) Time-varying effects of GABRG1 and maladaptive peer behavior on externalizing behavior from childhood to adulthood: Testing gene x environment x development effects. *Journal of Youth and Adolescence*. 49(7):1351-1364. doi: 10.1007/s10964-019-01171-3. Epub 2019 Nov 30. PMID: 31786770; PMCID: PMC7260088.

3. Levin, A. M., Gui, H., Hernandez-Pacheco, N., Yang, M., Xiao, S., **Yang, J. J.**, Hochstadt, S., Rynkowski, D., Kwok, P. Y., Pino-Yanes, M., Erle, D. J., Lanfear, D. E., Burchard, E. G., Williams, L. K. (2018) Integrative approach identifies corticosteroid response variant in diverse populations with asthma. *Journal of Allergy and Clinical Immunology*. pii: S0091-6749(18)31486-6. PMID: 30367910. DOI: https://doi:10.1016/j.jaci.2018.09.034

4. Demenais, F.,..., **Yang, J. J.**, ...,Nicolae, D. L. (2018) Multiancestry association study identifies new asthma risk loci that colocalize with immune-cell enhancer marks. *Nature Genetics*. 50(1): 42–53. PMCID: PMC5901974; NIHMSID: NIHMS919076; PMID: 29273806. DOI: https://doi.org/10.1038/s41588-017-0014-7

5. Paternoster, L.,…,**Yang, J. J.**, …, Weidinger, S. (2015) Multi-ancestry genome-wide association study of 21,000 cases and 95,000 controls identifies new risk loci for atopic dermatitis: EArly Genetics and Lifecourse Epidemiology (EAGLE) Eczema Consortium; Australian Asthma Genetics Consortium (AAGC); Australian Asthma Genetics Consortium (AAGC). *Nature Genetics*. 47(12):1449-1456. PMID: 26482879; PMCID: PMC4753676. DOI: https://doi.org/10.1038/ng.3424

6. Igartua, C.,..., **Yang, J. J.**,..., and Ober, C. (2015) Ethnic-specific associations of rare and low frequency DNA sequence variants with asthma. *Nature Communications*, 6: 5965. PMID: 25591454; PMCID: PMC4309441. DOI: https://doi.org/10.1038/ncomms6965

7. Bunyavanich, S., Schadt, E. E., Himes, B. E., Lasky-Su, J., Qiu, W., Lazarus, R., Ziniti, J. P., Cohain, A., Linderman, M., Torgerson, D. G., Eng, C. S., Pino-Yanes, M. Padhukasahasram, B., **Yang, J. J.**, Mathias, R. A., Beaty, T. H., Li, X., Graves, P., Romieu, I., del Rio Navarro, B. Salam, M. T., Vora, H., Nicolae, D. L., Ober, C., Martinez, F. D., Bleecker, E. R., Meyers, D. A., Gauderman, W. J., Gilliland, F., Burchard, E. G., Barnes, K. C., Williams, L. K., London, S. J., Zhang, B., Raby, B. A., Weiss, S. T. (2014) Integrated GWAS, coexpression network, and expression single nucleotide polymorphism analysis identifies novel pathways in allergic rhinitis. *BMC Medical Genomics*, 7:48. PMID: 25085501; PMCID: PMC4127082. DOI: https://doi.org/10.1186/1755-8794-7-48

8. Levin A.M., Wang Y., Wells K.E., Padhukasahasram B., **Yang J.J.**, Burchard E.G., Williams L.K. (2014) Nocturnal asthma and the importance of race-ethnicity and genetic ancestry. *American Journal of Respiratory and Critical Care Medicine*, 190(3):266-73. PMID: 24937318; PMCID: PMC4226040. DOI: https://doi.org/10.1164/rccm.201402-0204OC

9. Padhukasahasram, B. K., **Yang, J. J.**, Levin, A. M., Yang, M., Burchard, E. G., Kumar, R., Kwok, P., Lanfear, D. E., Williams, L. K. (2014) Gene-based association identifies SPATA13-AS1 as a pharmacogenomic predictor of inhaled short-acting beta-agonist response in multiple population groups. *The Pharmacogenomics Journal*, 14(4):365-71. PMID: 24418963; PMCID: PMC4098013. DOI: https://doi.org/10.1038/tpj.2013.49

10. Yao, T. C., Du, G., Han, L., Sun, Y., Hu, D., **Yang, J. J.**, Mathias, R., Roth, L. A., Rafaels, N., Thompson, E. E., Loisel, D. A., Anderson, R., Eng, C., Orbegozo, M. A., Young, M., Klocksieben, J. M., Anderson, E., Shanovich, K., Lester, L. A., Williams, L. K., Barnes, K. C., Burchard, E. G., Nicolae, D. L., Abney, M. & Ober, C. (2014) Genome-wide association study of lung function phenotypes in a founder population. *Journal of Allergy and Clinical*

Immunology, 133(1):248-255.e10. PMID: 23932459. DOI: https://doi.org/10.1016/j.jaci.2013.06.018

11. Himes, B. E., …, **Yang, J. J.**, …,Weiss, S. T. (2013) Integration of mouse and human genome-wide association data identifies *KCNIP4* as an asthma gene. *PLoS One,* 8 (2): e56179. PMCID: PMC3572953. DOI: https://doi.org/10.1371/journal.pone.0056179

12. Rumpel, J. A., Ahmedani, B. K., Peterson, E. L., Wells, K. E., Yang, M., Levin, A. M., **Yang, J. J.**, Kumar, R., Burchard, E. G., Williams, L. K. (2012) Genetic ancestry and its association with asthma exacerbations among African American patients with asthma. *Journal of Allergy and Clinical Immunology,* 130 (6): 1302-1306. PMCID: PMC3511609. DOI: https://doi.org/10.1016/j.jaci.2012.09.001

13. Myers, R. A., Himes, B. E., Gignoux, C. R., **Yang, J. J.**, Gauderman, W. J., Rebordosa, C., Xie, J., Torgerson, D. G., Levin, A. M., Baurley, J., Graves, P. E., Mathias, R. A., Romieu, I., Roth, L. A., Conti, D., Avila, L., Eng, C., Vora, H., LeNoir, M. A., Soto-Quiros, M., Liu, J., Celedón, J. C., Farber, H. J., Kumar, R., Avila, P. C., Meade, K., Serebrisky, D., Thyne, S., Rodriguez-Cintron, W., Rodriguez-Santana, J. R., Borrell, L. N., Lemanske, R. F., Bleecker, E. R., Meyers, D. A., London, S. J., Barnes, K. C., Raby, B. A., Martinez, F. D., Gilliland, F. D., Williams, L. K., Burchard, E. G., Weiss, S. T., Nicolae, D. L., Ober, C. (2012) Further replication studies of the EVE Consortium meta-analysis identifies 2 asthma risk loci in European Americans. *Journal of Allergy and Clinical Immunology*, 130(6):1294-301. PMCID: PMC3666859. DOI: https://doi.org/10.1016/j.jaci.2012.07.054

14. Kumar, R., Williams, L. K., Kato, A., Peterson, E. L., Favoreto, S. Jr., Hulse, K., Wang, D., Beckman, K., Thyne, S., Lenoir, M., Meade, K., Lanfear, D. E., Levin, A. M., Favro, D., **Yang, J. J.**, Weiss, K., Boushey, H. A., Grammer, L., Avila, P. C., Burchard, E. G., Schleimer, R. (2012) Genetic variation in B cell-activating factor of the TNF family (BAFF) and asthma exacerbations among African American subjects. *Journal of Allergy and Clinical Immunology.* 130 (4): 996-999. PMCID: PMC3520130. DOI: https://doi.org/10.1016/j.jaci.2012.04.047

15. Lanfear, D. E., **Yang, J. J.**, Mishra, S., and Sabbah, H. N. (2011) Genome-wide approach to identify novel candidate genes for beta blocker response in heart failure using an experimental model. *Discovery Medicine*, 11 (59): 359-366. PMID: 21524389; PMCID: PMC3725612. DOI: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3725612/

16. Harding, P., Yang, X. P., **Yang, J.**, Shesely, E, He, Q., and LaPointe, M. C. (2010) Gene expression profiling of dilated cardiomyopathy in older male EP4 knockout mice. *American Journal of Physiology – Heart and Circulatory Physiology*, 298: H623-H632. PMID: 20008274; PMCID: PMC2822585. DOI: https://doi.org/10.1152/ajpheart.00746.2009

17. **Yang, J. J.**, Burchard, E. G., Choudhry, S., Johnson, C. C., Ownby, D. R., Favro, D., Chen, J., Akana, M., Ha, C., Kwok, P. Y., Krajenta, R., Havstad, S. L., Joseph, C. L., Seibold, M. A., Shriver, M. D., and Williams, L. K. (2008) Differences in allergic sensitization by self-reported race and genetic ancestry. *Journal of Allergy and Clinical Immunology*, 122 (4): 820-827. PMID: 19014772; PMCID: PMC2951327. DOI: https://doi.org/10.1016/j.jaci.2008.07.044

18. Rybicki, B. A., Neslund-Dudas, C., Bock, C. H., Rundle, A., Savera, A. T., **Yang, J. J.**, Nock, N. L., and Tang, D. L. (2008) Polycyclic aromatic hydrocarbon-DNA adducts in prostate and biochemical recurrence after prostatectomy. *Clinical Cancer Research,* 14 (3): 750-757. PMCID: PMC2819147. DOI: https://doi.org/10.1158/1078-0432.CCR-07-0986

19. Nock N. L., Tang D. L., Rundle A., Neslund-Dudas C., Savera A. T., Bock C. H., Monaghan K. G., Koprowski A., Mitrache N., **Yang J. J.**, Rybicki B. A. (2007) Associations between smoking, polymorphisms in polycyclic aromatic hydrocarbon (PAH) metabolism and conjugation genes and PAH-DNA adducts in prostate tumors differ by race. *Cancer Epidemiology Biomarkers & Prevention,* 16 (6): 1236-1245. PMID: 17548691; PMCID: PMC2151314. DOI: https://doi.org/10.1158/1055-9965.EPI-06-0736

20. Tang, D., Liu, J. J., Bock, C. H., Neslund-Dudas, C., Rundle, A., Savera, A. T., **Yang, J. J.**, Nock, N. L., Rybicki, B. A. (2007) Racial differences in clinical and pathological associations with PhIP-DNA adducts in prostate. *International Journal of Cancer,* 121 (6): 1319-1324. PMID: 17487839; PMCID: PMC2132438; NIHMSID: NIHMS34466. DOI: https://doi.org/10.1002/ijc.22806

21. Neslund-Dudas, C., Bock, C. H., Monaghan, K., Nock, N. L., **Yang, J. J.**, Rundle, A., Tang, D. L., Rybicki, B. A. (2007) SRD5A2 and HSD3B2 polymorphisms are associated with prostate cancer risk and aggressiveness. *Prostate*, 67 (15): 1654-1663. PMID: 17823934; PMCID: PMC2132439; NIHMSID: NIHMS34467. DOI: https://doi.org/10.1002/pros.20625

22. Davoodi-Semiromi A., **Yang J. J.**, She J. X. (2002) IL-12p40 is associated with type 1 diabetes in Caucasian-American families. *Diabetes,* 51 (7), 2334-2336. PMID: 12086971. DOI: https://doi.org/10.2337/diabetes.51.7.2334

23. Marron M. P., Zeidler A., Raffel L. J., Eckenrode S. E., **Yang J. J.**, Hopkins D. I., Garchon H. J., Jacob C. O., Serrano-Rios M., Larrad M. T. M., Park Y., Bach J. F., Rotter J. I., Yang M. C. K., She J. X. (2000) Genetic and physical mapping of a type 1 diabetes susceptibility gene (IDDM12) to a 100-kb phagemid artificial chromosome clone containing D2S72-CTLA4-D2S105 on chromosome 2q33. *Diabetes*, 49 (3), 492-499. PMID: 10868973. DOI: https://doi.org/10.2337/diabetes.49.3.492

24. Eckenrode S., Marron M. P., Nicholls R., Yang M. C. K., **Yang J. J.**, Fonseca L. C. G., She J. X. (2000) Fine-mapping of the type 1 diabetes locus (IDDM4) on chromosome 11q and evaluation of two candidate genes (FADD and GALN) by affected sibpair and linkage-disequilibrium analyses. *Human Genetics*, 106 (1), 14-18. PMID: 10982176. DOI: https://doi.org/10.1007/s004399900186

Addiction Papers
1. A longitudinal study of the association between e-cigarette use contexts and alcohol use problems among college students. *The Journal of American College Health.*

2. Ran, S., **Yang, J. J.**, Piper, M. E., Lin, H. C., Buu, A. (2024) Health risks associated with adopting new-generation disposable products among young adults who use e-cigarettes. *Tobacco Use in Adolescents and Youth* (Accepted)

3. Ou, T. S., Buu, A., **Yang, J. J.**, & Lin, H. C. (2024). E-cigarette use reasons and associated e-cigarette use dependence among college students: A longitudinal examination. *Addictive Behaviors*, *155*, 108039.

4. **Yang, J. J.**, Ou, T. S., Lin, H. C., Kyung Nam, J., Piper, M. E., & Buu, A. (2023). Retrospective and real-time measures of the quantity of e-cigarette use: an ecological momentary assessment study. *Nicotine and Tobacco Research*, *25*(10), 1667-1675.

5. Nam, J. K., Piper, M. E., Tong, Z., Li, R., **Yang, J. J.**, Jorenby, D. E., & Buu, A. (2023). Dependence motives and use contexts that predicted smoking cessation and vaping

cessation: A two-year longitudinal study with 13 waves. *Drug and alcohol dependence*, *250*, 110871.

6. Buu, A., **Yang, J. J.**, Ou, T. S., Nam, J. K., Suh, G., Lin, H. C. (2023) An ecological momentary assessment study to examine covariates and effects of concurrent and simultaneous use of electronic cigarettes and marijuana among college students. *Addictive Behaviors*, 141, 107662. https://doi.org/10.1016/j.addbeh.2023.107662.

7. Buu, A., Tong, Z., Cai, Z., Li, R., **Yang, J. J.**, Jorenby, D. E., & Piper, M. E. (2023). Subtypes of dual users of combustible and electronic cigarettes: longitudinal changes in product use and dependence symptomatology. *Nicotine & Tobacco Research, 25,* 438-443.

8. **Yang, J. J.**, Lin, H. C., Ou, T. S., Tong, Z., Li, R., Piper, M. E., & Buu, A. (2022). The situational contexts and subjective effects of co-use of electronic cigarettes and alcohol among college students: An ecological momentary assessment (EMA) study. *Drug and Alcohol Dependence*, *239*, 109594.

9. Luo, X., **Yang, J. J**., Buu, A., Trucco, E. M., & Li, C. S. R. (2022). Alcohol and cannabis co-use and longitudinal gray matter volumetric changes in early and late adolescence. *Addiction Biology*, *27*(5), e13208.

Medical Science Papers

1. Perkison, W. B., Fwelo, P., Velasco-Huerta, F., Heredia, N. I., **Yang, J. J.**, Beg, S. S., ... & Fernandez, M. E. (2024). Pilot Study to Assess the Effectiveness of the Sustainable Culturally Adaptive Nutrition Program (SCAN) to Improve Adherence to the National Diabetes Prevention Program. *American Journal of Health Promotion*, 08901171241237522.

2. Ngamkham, S., **Yang, J. J.**, Smith, E. L. (2021) Thai Buddhism-Based Mindfulness for Pain Management in Thai Outpatients with Cancer: A Pilot Study. *Asia-Pacific Journal of Oncology Nursing*. 8(1), 58-67. DOI: 10.4103/apjon.apjon_43_20

3. McCullagh, M. C., **Yang, J. J.**, Cohen, M. A. (2020) Community-based program to increase use of hearing conservation practices among farm and rural youth: A cluster randomized trial of effectiveness. *BMC Public Health*. 20, 847. https://doi.org/10.1186/s12889-020-08972-3

4. Friese, C. R., **Yang, J.**, Mendelsohn-Victor, K., McCullagh, M. (2019) Randomized controlled trial of an intervention to improve nurses' hazardous drug handling. *Oncology Nursing Forum*. 46(2):248-256. PMID: 30767961. PMCID: PMC6425480, DOI: https://doi.org/10.1188/19.ONF.248-256

5. Smith, E. M. L., Zanville, N., Grace, K., Donohoe, C., Bridges, C., Loprinzi, C., Le-Rademacher, J., **Yang, J. J.** (2018) Rasch model-based testing of the European Organisation for Research and Treatment of Cancer (EORTC) Quality of Life Questionnaire-Chemotherapy-Induced Peripheral Neuropathy (QLQ-CIPN20) Using Alliance for Clinical Trials in Oncology (Alliance) A151408 Study Data. *Supportive Care in Cancer*. PMID: 30460399. DOI: https://doi.org/10.1007/s00520-018-4553-y

6. Knoerl, R., Bridges, C., Smith, G. L., **Yang, J. J.**, Kanzawa-Lee, G., & Smith, E. M. L. (2018) Chemotherapy-induced peripheral neuropathy: Use of an electronic care planning system to improve adherence to recommended assessment and management practices. *Clinical Journal of Oncology Nursing*, 22(5):E134-E140. PMID: 30239516. DOI: https://doi.org/10.1188/18.CJON.E134-E140

7. Smith, E. M. L., Banerjee, T., **Yang, J. J.**, Loprinzi, C., Bridges, C., Alberti, P., Cornblath, D. R., Merkies, I. S., Postma, T. J., Cavaletti, G. (2018) Psychometric testing of the European organisation for research and treatment of cancer (EORTC) QLQ-CIPN20 using

pooled chemotherapy-induced peripheral neuropathy outcome measures standardization (CI-PeriNomS) and alliance for clinical trials in oncology (Alliance) A151408 study data. *Cancer Nursing*. PMID: 29649081 PMCID: PMC6185825 DOI: https://doi.org/10.1097/NCC.0000000000000596

8. Casida, J. M., Davis, J. E., Pagani, F. D., Aikens, J. E., Williams, C., **Yang, J. J.** (2018) Sleep and self-care correlates before and after implantation of a left-ventricular assist device (LVAD). *Journal of Artificial Organs*. 21(3):278-284. PMID: 29651631 DOI: https://doi.org/10.1007/s10047-018-1043-4

9. Casida, J. M., Aikens, J., Pagani, F. D., Ewald, G., Craddock, H., Pavol, M., Schroeder, S., **Yang, J.** (2018) Advancing the science of self-management in adults with long-term left ventricular assist devices. *Artificial Organs*. 42(11):1095-1103. PMID: 29575048. DOI: https://doi.org/10.1111/aor.13113

10. Casida, J. M., Davis, J. E., Zalewski, A., & **Yang, J J.** (2018). Nighttime care routine interactions and sleep disruptions in adult cardiac surgery. *Journal of Clinical Nursing*. 27(7-8):e1377-e1384. PMID: 29318698. DOI: https://doi.org//10.1111/jocn.14262

11. Smith, E. M. L., Knoerl, R., **Yang, J. J.**, Kanzawa-Lee, G., Lee, D., Bridges, C. (2018) In Search of a Gold Standard Patient-Reported Outcome Measure for Use in Chemotherapy-Induced Peripheral Neuropathy Clinical Trials. *Cancer Control*. 25(1):1073274818756608. PMID: 29480026. DOI: https://doi.org/10.1177/1073274818756608

12. Casida, J. M., Abshire, M., Ghosh, B., **Yang, J. J.** (2018) The relationship of anxiety, depression, and quality of life in adults with left ventricular assist devices. *American Society of Artificial Internal Organs (ASAIO) Journal*. 64(4):515-520. PMID: 29028692. DOI: https://doi.org/10.1097/MAT.0000000000000681

13. Cajigal S., Wells K. E., Peterson E. L., Ahmedani B. K., **Yang J. J.**, Kumar R., Burchard E. G., Williams L. K. (2017) Predictive Properties of the Asthma Control Test and Its Component Questions for Severe Asthma Exacerbations. *J Allergy Clin Immunol Pract.* Jan-Feb;5(1):121-127.e2. doi: 10.1016/j.jaip.2016.06.025. Epub 2016 Aug 17. PMID: 27544712; PMCID: PMC5222777.

14. Seng, J. S., Li, Y., **Yang, J. J.**, King, A., Low, L. M. K., Sperlich, M., Rowe, H., Lee, H., Muzik, M., Ford, J. D., Liberzon, I. (2017) Gestational and postnatal cortisol profiles for women with posttraumatic stress disorder and the dissociative subtype. *Journal of Obstetric, Gynecologic, & Neonatal Nursing*. 47(1):12-22. PMID: 29175262. DOI: https://doi.org/10.1016/j.jogn.2017.10.008

15. Casida, J. M., **Yang, J. J.**, Craddock, H., Combs, P. (2017) Cognitive Function: A Significant Predictor of Quality of Life in Adults with an Implantable Ventricular Assist Device. *The Journal of heart and lung transplantation: the official publication of the International Society for Heart Transplantation*. 36(4): S209. DOI: https://doi.org/10.1016/j.healun.2017.01.549

16. Knoerl, R., Lee, D., **Yang, J.**, Bridges, C., Kanzawa-Lee, G., Smith, G. L., Smith, E. M. L., (2017) Examining the Impact of a Web-Based Intervention to Promote Patient Activation in Chemotherapy-Induced Peripheral Neuropathy Assessment and Management. *Journal of Cancer Education*. 33(5):1027-1035. PMID: 28265863. DOI: https://doi.org/10.1007/s13187-017-1200-0

17. Katapodi, M. C., Duquette, D., **Yang, J. J.**, Mendelsohn-Victor, K., Anderson, B., Nikolaidis, C., Mancewicz, E., Northouse, L. L., Duffy, D., Ronis, D., Milliron, K. J., Probst-Herbst, N., Merajver, S. D., Janz, N. K., Copeland, G., Roberts, J. S. (2017)

Recruiting families at risk for hereditary breast and ovarian cancer from a statewide cancer registry: a methodological study. *Cancer Causes & Control*. 28(3): 191-201. PMID: 28197806. DOI: https://doi.org/10.1007/s10552-017-0858-2

18. Casida, J. M., Wu, H. S., Abshire, M., Ghosh, B., **Yang, J. J.** (2017) Cognition and adherence are self-management factors predicting the quality of life of adults living with a left ventricular assist device. *The Journal of Heart and Lung Transplantation*, 36(3):325-330. PMID: 27751775. DOI: https://doi.org/10.1016/j.healun.2016.08.023

19. McCullagh, M. C., Banerjee, T., **Yang J.** (2016) Gender differences in use of hearing protection devices among farm operators. *Noise and Health*. 18(85): 368-375. PMID: 27991469; PMCID: PMC5227018. DOI: https://pubmed.ncbi.nlm.nih.gov/27991469/

20. Wagner, M. A., Jeong, Y., Banerjee, T., **Yang, J.**, Holden J. E. (2016) Sex differences in hypothalamic-mediated tonic norepinephrine release for thermal hyperalgesia in rats. *Neuroscience*. 324:420-9. DOI: https://doi.org/10.1016/j.neuroscience.2016.03.038

21. Costa, D. K., **Yang, J. J.**, Manojlovich, M. (2016) The critical care nurse work environment, physician staffing and risk for ventilator-associated pneumonia. *American Journal of Infection Control*. 44(10): 1181-1183. PMID: 27181221 DOI: https://doi.org/10.1016/j.ajic.2016.03.028

22. Duffy, S. A., Ronis, D. L., Karvonen-Gutierrez, C. A., Ewing, L. A., Hall, S., **Yang, J. J.**, Thomas, P. L., Werkema, C., Maguire, K. A., Friedman, L., Gray, D., Jordan, N. (2016) Effectiveness of the tobacco tactics program in the trinity health system. *American Journal of Preventive Medicine*, 51(4):551-565. DOI: https://doi.org/10.1016/j.amepre.2016.03.012

23. Casida, J., Wu, H., Senkiv, V., **Yang, J.** (2016) Self-efficacy and adherence are predictors of quality of life in patients with left ventricular assist devices. *The Journal of Heart and Lung Transplantation: the official publication of the International Society for Heart Transplantation*, 35 (4S): S90-91. DOI: https://doi.org/10.1016/j.healun.2016.01.249

24. McCullagh, M. C., Banerjee, T., Cohen, M. A., **Yang, J. J.** (2016) Effects of interventions on use of hearing protectors among farm operators: A randomized controlled trial. *International Journal of Audiology*, 55 (Suppl 1):S3-S12. PMID: 26766172 PMCID: PMC4740201. DOI: https://doi.org/10.3109/14992027.2015.1122239

25. McCullagh, M., Banerjee, T., **Yang, J.** (2015) Protocol of a test of hearing health education programs for farm and rural youth. *BMC Public Health*, 15(1):1061. PMID: 26475373 PMCID: PMC4609087. DOI: 10.1186/s12889-015-2393-y https://doi.org/10.1186/s12889-015-2393-y

26. Friese, C. R., Mendelsohn-Victor, K., Wen, B., Sun, D., Sutcliffe, K., **Yang, J. J.**, Ronis, D. L., and McCullagh, M. C. (2015) DEFENS - drug exposure feedback and education for nurses' safety: study protocol for a randomized controlled trial. *Trials*, 16:171. PMID: 25928792; PMCID: PMC4411718. DOI: 10.1186/s13063-015-0674-5 https://doi.org/10.1186/s13063-015-0674-5

27. M. Santra, Zhang Z. G., **Yang J.**, Santra S., Santra S., Chopp M., Morris D.C. (2014) Thymosin β4 up-regulation of microRNA-146a promotes oligodendrocyte differentiation and suppression of the Toll-like proinflammatory pathway. *The Journal of Biological Chemistry*, 289 (28):19508-18. PMID: 24828499; PMCID: PMC4094061. DOI: https://doi.org/10.1074/jbc.M113.529966

28. Coba, V., Jaehne, A. K., Suarez, A., Dagher, G. A., Brown, S. C., **Yang, J. J.**, Manteuffel, J., Rivers, E. P. (2014) The incidence and significance of bacteremia in out of hospital cardiac

arrest. *Resuscitation*, 85(2):196-202. PMID: 24128800. DOI: https://doi.org/10.1016/j.resuscitation.2013.09.022

29. Nagaraja, T. N., Aryal, M. P., Brown, S. L., Bagher-Ebadian, H., Mikkelsen, T., **Yang, J. J.**, Panda, S., Keenan, K. A., Cabral, G., and Ewing, R. R. (2013) Cilengitide-induced temporal variations in transvascular transfer parameters of tumor vasculature in a rat glioma model: identifying potential MRI biomarkers in acute effects. *PLoS One*, 8(12):e84493. PMID: 24376814; PMCID: PMC3871527. DOI: https://doi.org/10.1371/journal.pone.0084493

30. Xin, H., Li, Y., Cui, Y., **Yang, J.**, Zhang, Z. G., Chopp, M. (2013) Systemic administration of exosomes released from mesenchymal stromal cells promote functional recovery and neurovascular plasticity after stroke in rats. *Journal of Cerebral Blood Flow & Metabolism,* 33: 1711–1715. PMCID: PMC3824189. DOI: https://doi.org/10.1038/jcbfm.2013.152

31. Silich, B., Chrobak, P., Siu, J., Schlichting, A., Patel, S., and **Yang, J. J.** (2013) Improving safety and efficiency during emergent central venous catheter placement with a needleless securing clamp. *Emergency Medical Journal,* 30 (8): 683–686. PMID: 22962092. DOI: https://doi.org/10.1136/emermed-2011-200879

32. Xu, J., Carretero, O. A., Zhu, L., Shesely, E. G., Rhaleb, N. E., Dai, X., Wang, L., **Yang, J. J.**, Yang, X. P. (2013) Protective role of AT_2 and B_1 receptors in kinin B_2-receptor-knockout mice with myocardial infarction. *Clinical Science*, 124: 87-96. PMCID: PMC3702041. DOI: https://doi.org/10.1042/CS20120341

33. Rivers, E. P., Jaehne, A. K., Nguyen, H. B., Papamatheakis, D. G., Saad, A., Singer, D., **Yang, J. J.**, Brown, S., Klausner, H., (2013) Early biomarker activity in severe sepsis and septic shock and a contemporary review of immunotherapy trials: not a time to give up, but to give it earlier. *Shock: Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches,* 39 (2): 127-137. PMID: 23324881. DOI: https://doi.org/10.1097/SHK.0b013e31827dafa7

34. Silich, B., and **Yang, J. J.** (2012) Measuring emergency physicians' clinical work: factoring in clinical hours, patients seen, and relative value units into one metric. *Western Journal of Emergency Medicine,* 13 (2): 176-180. PMCID: PMC3415807. DOI: https://doi.org/10.5811/westjem.2011.5.6664

35. Cannon, C., Holthaus, C., Zubrow, M., Posa, P., Gunaga, S., Kella, V., Elkin, R., Davis, S., Turman, B., Weingarten, J., Milling, T., Lidsky, N., Coba, V., Suarez, A**., Yang, J.**, Rivers, E. (2012) The GENESIS Project (GENeralized Early Sepsis Intervention Strategies): a multicenter quality improvement collaborative. *Journal of Intensive Care Medicine*, 28(6):355-368. PMID: 22902347. DOI: https://doi.org/10.1177/0885066612453025

36. Zhu, L., Carretero, O. A., Xu, J., Wang, L., Harding, P., Rhaleb, N. E. **Yang, J. J.**, Summers, C., and Yang, X. P. (2012) Angiotensin II type 2 receptor-stimulated activation of plasma prekallikrein and bradykinin release: role of SHP-1. *American Journal of Physiology – Heart and Circulatory Physiology.* 302, H2553-H2559. PMID: 22523247; PMCID: PMC3378261. DOI: https://doi.org/10.1152/ajpheart.01157.2011

37. Nowak R. M., Sen A., Garcia A. J., Wilkie H., **Yang J. J.**, Nowak M. R., Moyer M. L. (2011) Noninvasive continuous or intermittent blood pressure and heart rate patient monitoring in the ED. *The American Journal of Emergency Medicine*, 29 (7): 782-789. PMID: 21802881. DOI: https://doi.org/10.1016/j.ajem.2011.05.014

38. Coba, V., Whitmill, M., Mooney, R., Horst, H. M., Brandt, M. M., Digiovine, B., Mlynarek, M., McLellan, B., Boleski, G., **Yang, J.**, Conway, W., and Jordan, J. (2011) Resuscitation bundle compliance in severe sepsis and septic shock: improves survival, is better late than

never. *Journal of Intensive Care Medicine*, 26(5): 304-313. PMID: 21220270. DOI: https://doi.org/10.1177/0885066610392499

39. Meng, X., Dai, X., Liao, T. D., D'Ambrosio, M., Wang, F., **Yang, J. J.**, Yang, X. P. (2011) Dose-dependent toxic effects of high-dose estrogen on renal and cardiac injury in surgically postmenopausal mice. *Life Sciences*, 88 (3-4): 178-186. PMID: 21074543; PMCID: PMC3019261. DOI: https://doi.org/10.1016/j.lfs.2010.11.008

40. Afonso, N., Amponsah, D., **Yang, J.**, Mendez, J., Bridge, P., Hays, G., Baliga, S., Crist, K., Brennan, S., Jackson, M., and Dulchavsky, S. (2010) Adding new tools to the black bag—introduction of ultrasound into the physical diagnosis course. *Journal of General Internal Medicine*, 25(11): 1248-1252. PMID: 20697974; PMCID: PMC2947631. DOI: https://doi.org/10.1007/s11606-010-1451-5

41. Xu, J., Carretero, O. A., Liao, T. D., Peng, H., Shesely, E. G., Xu, J., Liu, T. S., **Yang, J. J.**, Reudelhuber, T. L., and Yang. X. P. (2010) Local angiotensin II aggravates cardiac remodeling in hypertension. *American Journal of Physiology – Heart and Circulatory Physiology,* 299: H1328–H1338. PMID: 20833959; PMCID: PMC2993216. DOI: https://doi.org/10.1152/ajpheart.00538.2010

42. Gould, W., Peterson, E. L., Karungi, G.,Zoratti, A., Gaggin, J., Toma, G., Yan, S.,Levin, A. M., **Yang, J. J.**,Wells, K., Wang, M.,Burke,R. R., Beckman, K., Popadic, D., Land, S. J., Kumar, R.,Seibold, M. A.,Lanfear, D. E., Burchard, E. G., and Keoki Williams, L. K. (2010) Factors predicting inhaled corticosteroid responsiveness in African American patients with asthma. *Journal of Allergy and Clinical Immunology*, 126(6):1131-8. PMID: 20864153; PMCID: PMC2998569. DOI: https://doi.org/10.1016/j.jaci.2010.08.002

43. Nguyen, H. B., Loomba, M., **Yang, J. J.**, Jacobsen, G., Shah, K., Otero, R. M., Suarez, A., Parekh, H., Jaehne A. and Rivers E. P. (2010) Early lactate clearance is associated with biomarkers of inflammation, coagulation, apoptosis, organ dysfunction and mortality in severe sepsis and septic shock. *Journal of Inflammation*, 7:6. PMID: 20181046; PMCID: PMC2837000. DOI: https://doi.org/10.1186/1476-9255-7-6

44. Vanderlan, W. B., Tew, B. E., Seguin, C. Y., Mata, M. M., **Yang, J. J.**, Horst, M., Obeid, F. N., McSwain, N. E. (2009) Neurologic sequelae of penetrating cervical trauma. *Spine*, 34 (24): 2646-2653. PMID: 19881402. DOI: https://doi.org/10.1097/BRS.0b013e3181bd9df1

45. Aguilar, J., **Yang, J. J.**, Brar, I., and Markowitz, N. (2009) Clinical prediction rule for respiratory isolation of patients with suspected pulmonary tuberculosis. *Infectious Diseases in Clinical Practice*, 17 (5): 317-322. PMID: 21292665. DOI: https://doi.org/10.1093/cid/ciq186

46. Xu, J., Carretero, O. A., Shesely, E. G., Rhaleb, N. E., **Yang, J. J.**, Bader, M., Yang X. P. (2009) The kinin B_1 receptor contributes to the cardioprotective effect of angiotensin-converting enzyme inhibitors and angiotensin receptor blockers in mice. *Experimental Physiology*, 94 (3): 322-329. PMID: 19060116; PMCID: PMC2719971. DOI: https://doi.org/10.1113/expphysiol.2008.045583

47. Haurani, M. J., Foreman, K., **Yang, J. J.**, Siddiqui, A. (2009) 5-Fluorouracil treatment of problematic scars. *Plastic and Reconstructive Surgery*, 123 (1): 139-148. PMID: 19116547; PMCID: PMC2923450. DOI: https://doi.org/10.1097/PRS.0b013e3181904d1b

48. Sun, Y., Carretero, O. A., Xu, J., Rhaleb, N. E., **Yang, J. J.**, Pagano, P. J., Yang, X. P. (2009) Deletion of inducible nitric oxide synthase provides cardioprotection in mice with 2-kidney, 1-clip hypertension. *Hypertension,* 53 (1): 49-56. PMID: 19001185; PMCID: PMC2636504. DOI: https://doi.org/10.1161/HYPERTENSIONAHA.108.121822

49. Cavasin, M. A., Liao, T. D., Yang, X. P., **Yang, J. J.**, Carretero, O. A. (2007) Decreased endogenous levels of Ac-SDKP promote organ fibrosis. *Hypertension,* 50 (1): 130-136. PMID: 17470726. DOI: https://doi.org/10.1161/HYPERTENSIONAHA.106.084103

50. Xu, J., Carretero, O. A., Lin, C. X., Cavasin, M. A., Shesely, E. G., **Yang, J. J.**, Reudelhuber, T. L., Yang, X. P. (2007) Role of cardiac overexpression of ANG II in the regulation of cardiac function and remodeling postmyocardial infarction. *American Journal of Physiology – Heart and Circulatory Physiology,* 293: H1900–H1907. PMID: 17586619; PMCID: PMC3123892. DOI: https://doi.org/10.1152/ajpheart.00379.2007

51. Tang, D. L., Liu, J. J., Rundle, A., Neslund-Dudas, C., Savera, A. T., Bock, C. H., Nock, N. L., **Yang, J. J.**, Rybicki, B. A. (2007) Grilled meat consumption and PhIP-DNA adducts in prostate carcinogenesis. *Cancer Epidemiology Biomarkers & Prevention,* 16 (4):803-808. PMID: 17416774; PMCID: PMC2132437 DOI: https://doi.org/10.1158/1055-9965.EPI-06-0973

52. Lu, M., Zhang, R. L., Zheng, G. Z., **Yang, J. J.**, Chopp, M. (2007) Linkage of cell cycle kinetics between embryonic and adult stroke models: An analytical approach. *Journal of Neuroscience Methods,* 161 (2): 323-330. PMID: 17141877. DOI: https://doi.org/10.1016/j.jneumeth.2006.10.021

53. Zhang, R. L., Zhang, Z. G., Lu, M., Wang, Y., **Yang, J. J.**, Chopp, M. (2006) Reduction of the cell cycle length by decreasing G_1 phase and cell cycle reentry expand neuronal progenitor cells in the subventricular zone and adult rat after stroke. *Journal of Cerebral Blood Flow and Metabolism*, 26 (6): 857-863. PMID: 16251885. DOI: https://doi.org/10.1038/sj.jcbfm.9600237

54. Sun, Y., Carretero, O. A., Xu, J., Rhaleb, N. E., Wang, F. F., Lin, C. X., **Yang, J. J.**, Pagano, P. J., Yang, X. P. (2005) Lack of inducible NO synthase reduces oxidative stress and enhances cardiac response to isoproterenol in mice with deoxycorticosterone acetate-salt hypertension. *Hypertension*, 46, 1355-1362. PMID: 16286571; PMCID: PMC4601605. DOI: https://doi.org/10.1161/01.HYP.0000192651.06674.3f

55. Liu, Y. H., Carretero, O. A., Cingolani, O. H., Liao, T. D., Sun, Y., Xu, J., Li, L. Y., Pagano, P. J., **Yang J. J.** and Yang, X. P. (2005) Role of inducible nitric oxide synthase in cardiac function and remodeling in mice with heart failure due to myocardial infarction. *American Journal of Physiology – Heart and Circulatory Physiology,* 289 (6): H2626-H2623. PMID: 16055518. DOI: https://doi.org/10.1152/ajpheart.00546.2005

56. Xu, J., Carretero, O. A., Sun, Y., Shesely, E. G., Rhaleb, N. E., Liu, Y. H., Liao, T. D., **Yang, J. J.**, Bader, M., Yang, X. P. (2005) Role of the B_1 kinin receptor in the regulation of cardiac function and remodeling after myocardial infarction. *Hypertension*, 45 (4), 747-753. PMID: 15699461; PMCID: PMC4593484. DOI: https://doi.org/10.1161/01.HYP.0000153322.04859.81

Book Chapter

1. She J. X., Eckenrode S., Ruan Q. G., Marron M. P., Li Q. Z., Yang M. C. K., **Yang J.**, Hopkins D., Muir A., and McIndoe R. (2001) Microarray technology in the pathogenesis and management of autoimmune disorders. *New Concepts in Pathology and Treatment of Autoimmune Disorders*. Springer-Verlag Berlin Heidelberg, New York 2001.

Development of Statistical Software

1. R: FisherCombinationStat package (Multivariate Test using Fisher Combination Statistic) URL: https://github.com/jyangstat/FisherCombinationStat
2. R: EILA package (efficient inference of local ancestry) URL: http://cran.r-project.org/web/packages/EILA/index.html)
3. Globe-p (Program for proportion of nulls estimation).
4. SAS macro for microarray sample size calculation.

Computer Experiences and Skills

Statistical Software
- R: A Language and Environment for Statistical Computing
- The Julia programming language
- SAS (Statistical Analysis System): Base, Stat, and Macro
- MATLAB
- GNU Octave

Genetic Analysis Software
- Genome-wide association study: PLINK
- Relationship inference: KING
- Admixture mapping: Eigenstrat, LAMP, Hapmix
- Genotyping: Affymetrix Power Tool

Computational Software
- Perl 5
- Fortran 90/95, FORTRAN 77

Operating Systems
- UNIX/Linux
- Windows 10