



**Yen-Feng Chiu, PhD**

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**Education**

Ph.D. in Biostatistics

Johns Hopkins University, USA

**Professional Experiences**

**Investigator**

January, 2012 – Present

Institute of Population Health Sciences  
National Health Research Institutes, Taiwan

**Joint Professor**

September, 2013 –Present

Graduate Institute of Biostatistics  
China Medical University, Taiwan

**Joint Professor**

September, 2013 – July, 2017

Graduate Institute of Statistics  
National Chiao Tung University, Taiwan

**Associate Investigator**

November, 2006 – December, 2011

Division of Biostatistics and Bioinformatics  
National Health Research Institutes, Taiwan

**Adjunct Associate Professor**

January, 2007 – July, 2009

Institute of Statistics  
National Chiao Tung University, Taiwan

**Adjunct Assistant Professor**

August, 2006 – December, 2006

Institute of Statistics  
National Chiao Tung University, Taiwan

**Assistant Investigator**

November, 2002 – November, 2006

National Health Research Institutes, Taiwan

**Research Assistant Professor**

August, 2000 – October, 2002

Department of Biostatistics  
University of North Carolina at Chapel Hill, USA

**Postdoctoral Fellow**

October, 1999 – July, 2000

Department of Biostatistics  
Johns Hopkins University, USA

**Research Interests**

Statistical Genetics, Genetic Epidemiology, Biostatistics, Clinical Trials,  
Longitudinal Data Analysis, Big Data Analysis, Machine Learning  
Approaches

**Research Activities & Accomplishment**

Dr. Chiu's research lies in statistical genetics, genetic epidemiology, and statistical applications to a wide range of medical, biomedical and public health projects. She has developed machine learning and statistical methods to identify common and rare variants, gene-gene and gene-environment interactions associated with complex disease, for population- and family-based designs. Recently, her research focuses on developing statistical framework and computing tools to combine multiple genetic epidemiological studies with different designs on rare variant analysis. In addition, for disease prevention and control, she has been dedicating herself to a variety of observational and clinical studies to investigate how lifestyle, environmental and genetic factors influence human health. Due to the close links between diets, health and climate change, she has also been studying the health impact of plant-based diets among Taiwanese.

#### Selected Publications

Chien LC and **Chiu YF\***. General retrospective mega-analysis framework for rare variant association tests. *Genetic Epidemiology*. 2018 Sep 6. doi: 10.1002/gepi.22147. [Epub ahead of print].

Yu JC, Hsu FC and **Chiu YF\***, Assessment of drug-methylation interactions on triglycerides using longitudinal family data. *BMC Proc*. 2018; 12(Suppl 9): 48.

Chang YC, Hee SW, Lee WJ, Li HY, Chang TJ, Lin MW, Hung YJ, Lee IT, Hung KY, Assimes T, Knowles JW, Nong JY, Lee PC, **Chiu YF\***, Chuang LM. A genome-wide scan for circulating vascular adhesion protein-1 (VAP-1) levels: *MACROD2* as a potential transcriptional regulator of adipogenesis. *Journal of Diabetes Investigation*. 2018. Available at <http://rdcu.be/HSTz>.

Wang WC, **Chiu YF**, Chung RH, Hwu CM, Lee IT, Lee CH, Chang YC, Hung KY, Quertermous T, Chen YD I, Hsiung CA. *IGF1* Gene is associated with triglyceride levels in subjects with family history of hypertension from the SAPPHIRe and TWB Projects. *International Journal of Medical Sciences* 2018; 15(11): 1035-1042. doi: 10.7150/ijms.25742.

Hsieh TJ, Chang HY, Wu IC, Chen CC, Tsai HJ, **Chiu YF**, Chuang SC, Hsiung CA, Hsu CC\*. Independent association between subjective cognitive decline and frailty in the elderly. *PLoS One*. 2018 <https://doi.org/10.1371/journal.pone.0201351>.

Ko KT, Yu SH, Lee CY, Tseng HY, **Chiu YF\***, Hsiung CA\*. Moderating effect of depression on the association between pain and activities of daily living in older adults. *Psychogeriatrics*. 2018 Jul 10. doi: 10.1111/psyg.12332. [Epub ahead of print].

Tseng HY, Yu SH, Lee CY, WH Huang, SL Huang, Wu CS, **Chiu YF\***, Hsiung CA\*. Sedative-hypnotic drug use among community-dwelling elderly in Taiwan. *International Psychogeriatrics*. 2018 Mar 21:1-9. [Epub

ahead of print].

Hsieh TJ, Chang HY, Wu IC, Chen CC, Tsai HJ, **Chiu YF**, Chuang SC, Hsiung CA, Hsu CC\*. Independent association between subjective cognitive decline and frailty in the elderly. *PLoS One*. 2018 <https://doi.org/10.1371/journal.pone.0201351>.

Hsu CC, Chang HY, Wu IC, Chen CC, Tsai HJ, **Chiu YF**, Chuang SC, Hsiung WC, Tsai TL, Liaw WJ, Lin IC, Shen SC, Juan CC, Lien LM, Lee M, Chen YI, Liu K, Hsiung CA. Cohort profile: the healthy aging longitudinal study in Taiwan (HALST). *Int J Epidemiol*. 2017 Aug 1;46(4):1106-1106j.

Chang JS, **Chiu YF**, Yu JC, Chen LT, Ch'ang JH. The role of consolidation Chemo-radiotherapy in locally advanced pancreatic cancer receiving chemotherapy: an updated systematic review and meta-analysis. *Cancer Research and Treatment*. 2017. doi: <https://doi.org/10.4143/crt.2017.105> [Epub ahead of print].

Chien LC, Bowden DW, **Chiu YF\***. Region-based association tests for sequencing data on survival traits. *Genet Epidemiol* 2017 Sep;41(6):511-522.

Wu CS, Yu SH, Lee CY, Tseng HY, **Chiu YF\***, Hsiung CA\*. Prevalence of and risk factors for minor and major depression among community-dwelling older adults in Taiwan. *Int Psychogeriatr*. 2017 Jul; 29(7):1113-1121.

Chung RH, **Chiu YF**, Yi-Jen Hung YJ, Lee WJ, Kwan-Dun Wu KD, Hui-Ling Chen HL, Lin MW, Chen DI, Quertermous T and Hsiung CA. Genome-wide copy number variation analysis identified deletions in SFMBT1 associated with fasting plasma glucose in a Han Chinese population. *BMC Genomics*. 2017; 18: 591.

Chang JS, **Chiu YF**, Yu JC, Chen LT, Ch'ang JH. The Role of Consolidation Chemo-Radiotherapy in Locally Advanced Pancreatic Cancer Receiving Chemotherapy: An Updated Systematic Review and Meta-Analysis. *Cancer Research and Treatment*. June 9, 2017 doi: <https://doi.org/10.4143/crt.2017.105> [Epub ahead of print].

Hsu CC, Chang HY, Wu IC, Chen CC, Tsai HJ, **Chiu YF**, Chuang SC, Hsiung WC, Tsai TL, Liaw WJ, Lin IC, Shen SC, Juan CC, Lien LM, Lee M, Chen YI, Liu K, Hsiung CA. Cohort Profile: The Healthy Aging Longitudinal Study in Taiwan (HALST). *Int J Epidemiol*. 2017 Feb. [Epub ahead of print]

Chuang SY, Chiu HT, Lee CY, Liu TT, Tsao CK, Hsiung CA, **Chiu YF\***. Vegetarian diet reduces the risk of hypertension independent of abdominal obesity and inflammation: a prospective study. *Journal of Hypertension*. 2016. Nov;34(11):2164-71.

Chang YC, **Chiu YF**, He CT, Sheu WH, Lin MW, Seto TB, Assimes T, Lee WJ, Lee PC, Tsai SH, Chuang LM. Fine mapping of genome-wide linkage

signals identified variants in the RYR3 (ryanodine receptor 3) gene as quantitative trait locus for plasma adiponectin in Chinese population. *Medicine*. 2016. Nov; 95(44): p e5174.

**Chiu YF\***, Lee CY, Hsu FC. Multipoint Association Mapping for Longitudinal Family Data: An Application to Hypertension Phenotypes. *BMC Proceeding 2016*, **10**(Suppl 7):54.

**Chiu YF**, Justice AE, Melton PE. Longitudinal analytical approaches to genomic data. *BMC Genetics*. 2016. 17(Suppl 2):4.

Chien LC, Hsu FC, Bowden DW, **Chiu YF\***. Generalization of rare variant association tests for longitudinal family studies. *Genetic Epidemiology*. 2016. Feb;40(2):101-12.

Assimes TL, Lee IT, Juang JM, Wang TD, Kim ET, Lee WJ, Absher D, **Chiu YF**, Hsu CC, Chuang LM, Quertermous T, Hsiung CA, Rotter JI, Sheu WH, Chen YD, Taylor KD. Genetics of coronary artery disease in Taiwan: a cardiometabochip study by the Taichi consortium. *PLoS One*. 2016. Mar 16;11(3):e0138014.

Chang WT, Huang MC, Chung HF, **Chiu YF**, Chen PS, Chen FP, Lee CY, Shin SJ, Hwang SJ, Huang YF, Hsu CC. Interleukin-6 gene polymorphisms correlate with the progression of nephropathy in Chinese patients with type 2 diabetes: A prospective cohort study. *Diabetes Research and Clinical Practice*. 2016. 15-23.

Chien LC, **Chiu YF\***, Liang KY, Chuang LM. Simultaneous estimation of the locations and effects of multiple disease loci in case-control studies. *Biostatistics* 2015. 16(2):222-239.

**Chiu YF\***, Hsu CC, Chiu HTT, Lee CY, Liu TT, Tsao CK, Chuang SC, Hsiung CA. Cross-sectional and longitudinal comparisons of metabolic profiles between vegetarian and non-vegetarian subjects: a matched cohort study. *British Journal of Nutrition*. 2015. 114(8):1313-20.

Chang TJ<sup>†</sup>, **Chiu YF<sup>†</sup>**, Sheu HHW, Shih KC, Hwu CM, Quertermous T, Jou YS, Kuo SS, Chang YC, Chuang LM. Genetic polymorphisms of PCSK2 are associated with glucose homeostasis and progression to type 2 diabetes in a Chinese population. *Scientific Reports*. 2015. 5:14380. doi: 10.1038/srep14380. (<sup>†</sup>Co-first author)

**Chiu YF\***, Chung RH, Kao HY, Li CY, Hou L, Hsu FC. Identification of rare variants for hypertension with incorporation of linkage information. *BMC Proceeding*. 2014. 8(Suppl 1):S109.

Wu Y<sup>†</sup>, Gao H<sup>†</sup>, Li H<sup>†</sup>, Tabara Y<sup>†</sup>, Nakatochi M<sup>†</sup>, **Chiu YF<sup>†</sup>**, Park EJ, Wen W, Adair LS, Borja JB, Cai Q, Chang YC, Chen P, Croteau-Chonka DC, Fogarty MP, Gan W, He CT, Hsiung CA, Hwu CM, Ichihara S, Igase M, Jo J, Kato N, Kawamoto R, Kuzawa CW, Lee JJ, Liu J, Lu L, McDade TW, Osawa H, Sheu WH, Teo Y, Vadlamudi S, van Dam RM, Wang Y, Xiang YB, Yamamoto K, Ye X, Young TL, Zheng W, Zhu J, Shu XO, Shin C, Jee

SH, Chuang LM, Miki T, Yokota M, Lin X, Mohlke KL, Tai ES. A meta-analysis of genome-wide association studies for adiponectin levels in East Asians identifies a novel locus near WDR11-FGFR2. *Human Molecular Genetics*. 2014. Feb;1523(4):1108-19. († Co-first author)

Chung HF, Long KZ, Hsu CC, Mamun AA, **Chiu YF**, Tu HP, Chen PS, Jhang HR, Hwang SJ, Huang MC. Adiponectin gene (ADIPOQ) polymorphisms correlate with the progression of nephropathy in Taiwanese male patients with type 2 diabetes. *Diabetes Res Clin Pract*. 2014. Aug;105(2):261-70.

Chiu TH, Huang HY, **Chiu YF**, Pan WH, Kao HY, Chiu JP, Lin MN, Lin CL. "Taiwanese Vegetarians and Omnivores: Dietary Composition, Prevalence of Diabetes and IFG." *PLoS ONE*. 2014. Feb, 9(2):e88547.

**Chiu YF\***, Lee CY, Kao HY, Pan WH, Hsu FC. Analysis of family- and population-based samples using multiple linkage disequilibrium mapping. *Annals of Human Genetics*. 2013. 77(3):251-67.

Fang YH, **Chiu YF\***. A Novel Support Vector Machine-Based Approach for Rare Variant Detection. *PLoS ONE*. 2013. 8(8): e71114. doi:10.1371/journal.pone.0071114.

Wu IC, Chang HY, Hsu CC, **Chiu YF**, Yu SH, et al. Association between Dietary Fiber Intake and Physical Performance in Older Adults: A Nationwide Study in Taiwan. *PLoS ONE*. 2013. 8: e80209.

Kuo JZ, Sheu WHH, Assimes TL, Hung YJ, Absher D, **Chiu YF**, Mak J, Wang JS, Kwon S, Hsu CC, Goodarzi MO, Lee IT, Knowles JW, Miller BE, Lee WJ, Juang JMJ, Wang TD, Guo X, Taylor KD, Chuang LM, Hsiung CA, Quertermous T, Rotter JI, Chen YDI. Trans-ethnic fine mapping identifies a novel independent locus at the 3' end of CDKAL1 and novel variants of several susceptibility loci for type 2 diabetes in a Han Chinese population. *Diabetologia*. 2013. 56(12):2619-28.

Chang YC<sup>†</sup>, **Chiu YF<sup>†</sup>**, Liu PH, Hee SW, Chang TJ, et al. Genetic Variation in the NOC Gene Is Associated with Body Mass Index in Chinese Subjects. *PLoS ONE*. 2013. 8(7): e69622. doi:10.1371/journal.pone.0069622. († Co-first author)

Fang YH, **Chiu YF\***. SVM-based generalized multifactor dimensionality reduction approaches for detecting gene-gene interactions in family studies. *Genet Epidemiol*. 2012, Feb;36(2):88-98.

Chang YC<sup>†</sup>, **Chiu YF<sup>†</sup>**, Lee IT, Ho LT, Hung YJ, Hsiung CA, Quertermous T, Donlon T, Lee WJ, Lee PC, Chen CH, Mochly-Rosen D, Chuang LM. Common ALDH2 genetic variants predict development of hypertension in the SAPPHiRe prospective cohort: Gene-environmental interaction with alcohol consumption. *BMC Cardiovascular Disorders*. 2012, 12:58. († Co-first author)

Chang YC, Liu PH, Tsai YC, **Chiu YF**, Shih SR, Ho LT, Lee WJ, Lu CH,

Quertermous T, Curb JD, Lee WJ, Lee PC, He YH, Yeh JI, Hwang JJ, Tsai SH, Chuang LM. Genetic variation in the carbonyl reductase 3 gene confers risk of type 2 diabetes and insulin resistance: a potential regulator of adipogenesis. *J Mol Med (Berl)*. 2012. Apr 15;90(7):847-58.

Chang YC<sup>†</sup>, **Chiu YF<sup>†</sup>**, Liu PH, Shih KC, Lin MW, Sheu WHH, Quertermous T, Curb JD, Hsiung CA, Lee WJ, Lee PC, Chen YT, Chuang LM. Replication of Genome-Wide Association Signals of Type 2 Diabetes in Han Chinese in a Prospective Cohort. *Clinical Endocrinology*. 2012. Mar;76(3):365-72. (<sup>†</sup> Co-first author)

Lee IT, **Chiu YF**, Hwu CM, He CT, Chiang FT, Lin YC, Assimes T, Curb JD, Sheu WH. Central obesity is important but not essential component of the metabolic syndrome for predicting diabetes mellitus in a hypertensive family-based cohort. Results from the Stanford Asia-Pacific Program for Hypertension and Insulin Resistance (SAPPHIRE) Taiwan follow-up study. *Cardiovasc Diabetol*. 2012. Apr 26;11(1):43.

Ch'ang HJ, Lin YL, Wang HP, **Chiu YF**, Chang MC, Hsu CH, Tien YW, Chen JS, Hsieh RK, Lin PW, Shan YS, Cheng AL, Chang JY, Whang-Peng J, Hwang TL, Chen LT. Induction Chemotherapy with Gemcitabine, Oxaliplatin and 5-Fluorouracil/Leucovorin Followed by Concomitant Chemoradiotherapy in Patients with Locally Advanced Pancreatic Cancer: A Taiwan Cooperative Oncology Group Phase II Study. *Int J Radiat Oncol Biol Phys*. 2011. Dec;81(5): 749-57.

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**Chiu YF\***, Liang KY, Pan WH. Incorporating covariates into multipoint association mapping in the case-parent design. *Hum Hered*. 2010. 69(4):229-41.

Chiu YC, **Chiu YF**, Hsu WC, Lee SH, Chen ST, Kao HY. Developing a Chinese quality of life in dementia instrument for patients with early-to-moderate dementia: an exploratory test of validity. *J Clin Nurs*. 2010. Aug;19(15-16):2174-84.

**Chiu YF\***, Chiou JM, Liang KY, Lee CY. Incorporation of covariates in simultaneous localization of two linked loci using affected relative pairs. *BMC Genet*. 2010. Jul 14;11:67.

**Chiu YF**, Chuang LM, Kao HY, Shih KC, Lin MW, Lee WJ, Quertermous T, Curb JD, Chen I, Rodriguez BL, Hsiung CA. Sex-specific genetic architecture of human fatness in Chinese: the SAPPHIRE Study. *Hum*

*Genet.* 2010. Nov;128(5):501-13.

Jiang YD, Chang YC, **Chiu YF**, Chang TJ, Li HY, Lin WH, Yuan HY, Chen YT, Chuang LM. SLC2A10 genetic polymorphism predicts development of peripheral arterial disease in patients with type 2 diabetes. SLC2A10 and PAD in type 2 diabetes. *BMC Med Genet.* 2010. Aug 25;11:126. (Co-first author)

Chang YC<sup>†</sup>, **Chiu YF**<sup>†</sup>, Shih KC, Lin MW, Sheu WH, Donlon T, Curb JD, Jou YS, Chang TJ, Li HY, Chuang LM. Common PCSK1 haplotypes are associated with obesity in the Chinese population. *Obesity (Silver Spring).* 2010. Jul;18(7):1404-9. (<sup>†</sup>Co-first author)

Chang YC<sup>†</sup>, **Chiu YF**<sup>†</sup>, Ho LL, Ting CT, Shih KC, Curb JD, Chen YD, Li HY, Chuang LM. TCF7L2 genetic variants and progression to diabetes in the Chinese population: pleiotropic effects on insulin secretion and insulin resistance. *J Mol Med.* 2010. Feb;88(2):183-92. (<sup>†</sup>Co-first author)

Engelman CD, Baurley JW, **Chiu YF**, Joubert BR, Lewinger JP, Maenner MJ, Murcay CE, Shi G, Gauderman WJ. Detecting gene-environment interactions in genome-wide association data. *Genet Epidemiol.* 2009. 33 Suppl 1:S68-73.

**Chiu YF\***, Kao HY, Chen YS, Hsu FC, Yang HC. Assessment of gene-covariate interactions by incorporating covariates into association mapping. *BMC Proc.* 2009. Dec 15;3 Suppl 7:S85.

Chiu YC, Li CL, Lin KN, **Chiu YF**, Liu HC. Sensitivity and specificity of the Clock Drawing Test, incorporating Rouleau scoring system, as a screening instrument for questionable and mild dementia: scale development. *Int J Nurs Stud.* 2008. 45(1):75-84.

**Chiu YF**, Liang KY, Beaty TH, Chuang LM. Incorporation of Covariates into Multipoint Linkage Disequilibrium Mapping in Case-Control Studies. *Genet Epidemiol.* 2008. 32(2):143-51.

Li HY, **Chiu YF**, Hwu CM, Sheu WH, Hung YJ, Fujimoto W, Quertermous T, Curb JD, Tai TY, Chuang LM. The negative correlation between plasma adiponectin and blood pressure depends on obesity: a family-based association study in SAPHIRE. *Am J Hypertens.* 2008. Apr;21(4):374-5.

Culverhouse RC, Suarez BK, Beckmann L, Chen P, Chen YS, **Chiu YF**, Chang-Claude J, Dempfle A, Hein R, Kazma R, Lebec JJ, Lee S, Lim S, Maher BS, Park T, Perdry H, Wang KS, Wolkow PP, Xu W. Gene by environment interactions. *Genet Epidemiol.* 2007. 31 Suppl 1:S68-74.

Chen YS, **Chiu YF\***, Kao HY, Hsu FC. Assessing Genotype by Environment Interaction in Linkage Mapping Using Affected Sibpairs. *BMC Proceedings.* 2007. 1(Suppl 1):S71.

**Chiu YF\***, Chiou JM, Chen YS, Kao HY, Hsu FC. Incorporating quantitative

variables into linkage analysis using affected sib pairs. *BMC Proceedings*. 2007. 1(Suppl 1):S98

**Chiu YF**, Chuang LM, Kao HY, Ho LT, Ting CT, Hung YJ, Chen YD, Donlon T, Curb JD, Quertermous T, Hsiung CA. The SAPPHiRe Study Group. Bivariate genome-wide scan for metabolic phenotypes in non-diabetic Chinese individuals from the Stanford, Asia and Pacific Program of Hypertension and Insulin Resistance Family Study. *Diabetologia*. 2007. 50:1631-1640.

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Yu SH, Chen YY, **Chiu YF**, Chen CC, Chiu CH, Kuo CJ, Chang H, Sung YJ. Socioeconomic Factors and Suicide Mortality Trends in Taipei City between 1991 and 2004. *台灣公共衛生雜誌*. 2007. 26 卷 1 期 P. 66-74.

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**Chiu YF**, Liu SY, Tsai YY. A comparison in association and linkage genome-wide scans for alcoholism susceptibility genes using single-nucleotide polymorphisms. *BMC Genet*. 2005. Suppl 1:S89.

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Chiu KC, **Chiu YF**, Boyadjian AA, Fernando S, Kwan C, Chuang LM. Impact of Apolipoprotein A5 polymorphisms on insulin sensitivity and beta cell function. *Pancreas*. 2005. 30:328-332.

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Glidden DV, Liang KY, **Chiu YF**, Pulver AE. Multipoint affected sibpair linkage methods for localizing susceptibility genes of complex diseases. *Genetic Epidemiology*. 2003. 24:107-117.

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Potash BJ, Willour V, **Chiu YF**, Simpson SG, MacKinnon DF, DePaulo JR, McInnis MG. The familiarity of psychotic symptoms in bipolar disorder pedigrees. *American Journal of Psychiatry*. 2001. 158(8):1258-64.

**Chiu YF**, Addington AM, Beaty TH, Klein AP, Liang KY. Multipoint linkage analysis under heterogeneity: incorporation of parametric and nonparametric approaches. *Genetic Epidemiology*. 2001. 21(Suppl 1):S55-S60.

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Liang KY, **Chiu YF**, Beaty TH. A multipoint analysis using affected sib pairs: incorporating linkage evidence from unlinked regions. *Genetic Epidemiology*. 2001. 21:105-122.

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Barnes KC, Freidhoff LR, Nickel R, **Chiu YF**, Juo SH, Hizawa N, Naidu RP, Ehrlich E, Duffy DL, Schou C, Levett PN, Marsh DG, Beaty TH. Dense mapping of chromosome 12q13.12-q23.3 and linkage to asthma and atopy. *Journal of allergy and clinical immunology*. 1999. 104:485-491.

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Hizawa N, Freidhoff LR, **Chiu YF**, Ehrlich E, Luehr CA, Anderson JL, Duffy DL, Dunston GM, Weber JL, Huang SK, Barnes KC, Marsh DG, Beaty TH. Genetic regulation of *Dermatophagoides pteronyssinus*-specific IgE responsiveness: A genome-wide multipoint linkage analysis in families recruited through 2 asthmatic sibs. *Journal of allergy and*

*clinical immunology*. 1998. 102: 436-442.

**Award**

Young Investigator Award 2009, National Health Research Institutes