Elizabeth Davidson1635 Cook St Apt 201Denver, CO 80206Phone: (978) 877-1121

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Employment HistoryNational Jewish Health October 2008-June 2011

Lab Researcher II

Responsible for sample processing including organization and concentration of samples.

Preformed cell culture of mouse macrophages, PAMP challenges, and Bio-Plex cytokine assays.

Preformed Illumina Bead Express genotyping assays.

Responsible for hazardous waste disposal and freezer organization in the lab.

Optimized and preformed the CHARM (Comprehensive Array for Relative Methylation) assay

University of Colorado Anschutz Medical Campus July 2011-Present

Research Services Principal Professional

Continued studies utilizing the CHARM assay and validated finding using pyrosequencing

Primary technician preforming Qiagen Pyrosequencing to study DNA methylation

Continued responsibility of proper hazardous waste management and disposal

Took on responsibility of ordering for the lab

Supervision of student researchers

Primary Agilent gene expression array technician and also responsible for the start-up and integration of existing Roche scanner

Lead technician on both the EPOCH and ECHO diabetes research studies

Performed both IHC and IF in mouse and human lung samples

Performed cell culture experiments with cell lines and primary cells using ALI

Participated in a COVID DNA methylation study in which I aliquoted, extracted and did bisulfite conversion on hundreds of samples

EducationState University of New York College at Cortland August 2002-May 2006Cortland, NYBachelors of Science in Biological SciencesCumulative GPA: 3.43Major GPA: 3.71Norman B. Reynolds Award for the Outstanding Senior Biology Major (Spring 2006)

Beta Beta Beta: Biological Honor Society (Spring 2006)Phi Eta Sigma: First Year Honor Society (Spring 2003)

Publications

Shu-Yi Liao , […] Elizabeth Davidson, […] and Ivana V. Yang. February 2021. Single-cell RNA sequencing identifies macrophage transcriptional heterogeneities in granulomatous diseases. European Resp. J.

Marisol Castillo-Castrejon, Ivana V. Yang, Elizabeth Davidson, […] Theresa L Powell. December 2020. Preconceptional Lipid-Based Nutrient Supplementation in 2 Low-Resource Countries Results in Distinctly Different IGF-1/mTOR Placental Responses. J. of Nutrition

Marisol Castillo-Castrejon, Ivana V. Yang, Elizabeth Davidson, […] Theresa L Powell. August 2019. Impact of lipid-based nutrient supplementation on placental mTOR signaling and IGF-1 gene methylation and fetal growth. Placenta

Ivana V. Yang, […] Elizabeth Davidson, […] Lisa A. Maier. August 2018. DNA Methylation Changes in Lung Immune Cells Are Associated with Granulomatous Lung Disease. Am. J. of Resp. Cell and Mol. Biology

Ivana V. Yang, […] Elizabeth Davidson, […] Dana Dabelea. February 2018. Genetics Epigenetic marks of in utero exposure to gestational diabetes and childhood adiposity outcomes: the EPOCH study. Diabetic Medicine

Elizabeth Davidson and Ivana V. Yang. January 2018. Role of epigenetics in the development of childhood asthma. Current Opinion in Allergy and Clin. Imm.

Kristen E. Boyle, […] Elizabeth Davidson, […] Ivana V Yang […] Jed Friedman. September 2017. Maternal obesity alters fatty acid oxidation, AMPK activity, and associated DNA methylation in mesenchymal stem cells from human infants. Molecular Metabolism

Meiqin Wang, […] Elizabeth Davidson, […] Ivana V Yang, […] Erwin W. Gelfand. May 2017. Forkhead Box Protein 3 (FoxP3) Demethylation is Associated with Tolerance Induction in Peanut-Induced Intestinal Allergy. J. of Allergy and Clin. Imm.

Ivana V. Yang, Adam J. Richards, Elizabeth Davidson, Allen D. Stevens, Christena A. Kolakowski, Richard J. Martin and David A. Schwartz. March 2017. The Nasal Methylome: A Key to Understanding Allergic Asthma. Am. J. of Resp. and Crit. Care Med.

Ivana V. Yang, […] Elizabeth Davidson […] David A. Schwartz. October 2016. The Nasal Methylome and Childhood Atopic Asthma. The J. of All. And Clin. Imm.

Scott Alper, […] Elizabeth Davidson, […] and Ivana V. Yang. June 2016. Novel Innate Immune Genes Regulating the Macrophage Response to Gram Positive Bacteria. Genetics 204(1)

Ivana V. Yang […] Elizabeth Davidson, […] David A. Schwartz. March 2016. DNA Associated Methylation Changes in Nasal Epithelia are Associated with Allergic Asthma in the Inner City. Ann. Of the Am. Thor. Soc. 1(Suppl 1):S99-S100

Ivana V. Yang, […] Elizabeth Davidson, […] and David A. Schwartz. March 2015. DNA Methylation and Childhood Asthma in the Inner-City. J. of All. And Clin. Imm. 1

Andres F. Henao, […] Elizabeth Davidson, […] Ivana V. Yang. January 2015. AKT Network of Genes and Impaired Myocardial Contractility During Murine Acute Chagasic Myocarditis. The Am. J. of Trop. Med. And Hyg. 93(3)

Ivana V. Yang, […] Elizabeth Davidson, […] and David A, Schwartz. October 2014. Relationship of DNA Methylation and Gene Expression in Idiopathic Pulmonery Fibrosis (IPF). Am. J. of Resp. and Crit. Care Med. 190(11)

Ivana V. Yang, […] Elizabeth Davidson, […] and David A, Schwartz. May 2012. Genome-Wide DNA Methylation Patterns In Interstitial Lung Disease (ild) And Chronic Obstructive Lung Disease (COPD). Am. J. of Resp. and Crit. Care Med.

Lei Jin, L-G Xu, Ivana V. Yang, Elizabeth Davidson, David A. Schwartz, Mark M. Wurfel, and John Cambier. January 2011. Identification and Characterization of a Loss-of-Function Human MYPS Variant. Genes and Immunity 12(4)263-9

Ducey, P.K., M. McCormick, and E. Davidson. 2007. Observations on the appearance and ecology of a terrestrial broadhead planarian (Platyhelminthes: Tricladida: Bipaliidae: Bipalium) New to North America. Southeastern Naturalist 6(3): 449-460

References

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