Molecular Neurotoxicology Studies Inform Application of the Public Health Exposome Framework in Vulnerable Populations

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Dr. Hood’s seminar covers his development of experimental model systems for the purpose of uncovering the operative mechanisms in adverse pregnancy outcomes and other health consequences associated with environmental contaminant exposures during critical windows of development. This work served as the impetus for development of a translational-community engagement health disparities research focus that Dr. Hood developed upon his move to Columbus, OH. Columbus, Ohio is considered one of the more prosperous, well-educated and progressive communities in the United States, but it has one of the highest infant mortality (IM) rates in the country within the area known as the Southern Gateway. Dr. Hood as the co-architect, will also discuss development and implementation of their newly described Public Health Exposome framework. This innovative approach is predicted to enable forecasting of disparate health outcomes for vulnerable in Columbus, OH communities and has already assisted policy makers with prioritization of intervention strategies in a manner that is more accurate than current approaches.