

The Influence of Climate Change on Human Health as a Function of Stress on Individuals

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Abstract: Climate change has been shown to increase the severity and frequency of severe climate events. Further, the developmental origins of disease hypothesis states that trauma, regardless of the source, causes a physiological response that can be heritable. Therefore, an epigenetic effect from exposure to severe events may be caused by climate events occurring due to global climate change. The focus of my research is to first validate an experimental model of DNA methylation in human cell lines and then evaluate the extent to which DNA from individuals in cohorts that have been exposed to severe meteorological events in Atlantic Canada.