Early Life Environmental Determinants of Neurological Disorders

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According to the developmental origins of health and disease paradigm, early life environmental stressors can alter developmental trajectories by disrupting the homeostasis of one or more systems, and in doing so produce identifiable biochemical signatures characteristic of the disease process or outcome. Dr. Arora and his colleagues at the Icahn School of Medicine at Mount Sinai in New York have been working to identify environmental and metabolic signatures that predict the risk of later life neurological disorders. Central to this work is the development of technologies that use human teeth to reconstruct prenatal and early childhood environmental exposures and the biological responses to those exposures. In this presentation, he will share recent findings from his laboratory on autism spectrum disorder and amyotrophic lateral sclerosis (Lou Gehrig's disease).