

Short Communication Open Access

(FOFUJD BOE FOWJSPONFOUBM JNQBDU PO BVUJT

Prachi Srivastava

Abstract:

Autism spectrum disorders (ASD) are highly heterogeneous implicating altered DNA methylation as a potential developmental conditions characterized by de cits in social interaction, verbal and nonverbal communication, and repetitive patterns of behavior and movements. is article reviews the impact of genetic and environmental risk factors on ASD and their adverse physiological mechanisms. Although the involvement of genetic abnormalities in autism spectrum disorders is well-accepted, recent studies point to an equal contribution by environmental factors. So, here we focus on several environmental factors associated with the development of ASD like pesticides, phthalates, polychlorinated biphenyls, solvents, air pollutants, fragrances, glyphosate, heavy metals especially aluminum used in vaccines as adjuvant, volatile organic compounds and organic endocrine-disrupting compounds such as ame retardants, non-stick chemicals, phthalates, and bisphenol A. Toxicants implicated in ASD included pesticides, phthalates, polychlorinated biphenyls (PCBs), though strongest evidence found for air pollutants and pesticides. Some gene variants in ASD confer altered vulnerability to environmental stressors and exposures. ere are now compelling evidences that

gene by environment interactions are important in the etiology of autism spectrum disorders. Here, we also describe the epidemiological

J Ecol Toxicol 2021 Volume 5 · Issue 1