Chronic inflammation leads ASD children to Cancer

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Abstract: Autism spectrum disorders (ASDs) are characterized by deficit in ability of Social cognition, emotions and illustrating repetitive behavior [3]. In recent neuropathology studies on children with ASD resolved that there is continues neuroinflammation in their central nerves system (CNS). Furthermore, multi-omic studies proved that ASD and cancer share common genes and molecular mechanisms [1]. Cancer is a complex heterogeneous disease in which a genetic mutation leads to uncontrolled proliferation of the cells. Inflammation is one of the defensive mechanisms against pathogens and establishing tissue homeostasis. Inflammation is also a cancer hallmark, and chronic inflammation have been demonstrated in 25% of cancers. Inflammation contributes to cancer progression and metastasis by creating appropriate conditions such as activating the NFkB signaling pathways and producing inflammatory mediators [2]. Our suggestion is that chronic inflammation increases the risk of cancer in individuals diagnosed with ASD.

Keywords: Autism; Cancer; Inflammation; NF-kB

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