



## Numerous Neurological Disorders Linked to Mutated DNA Repair Genes

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### DESCRIPTION

Disorders that affect the brain, the nerves that run throughout the body and the spinal cord are referred to as neurological disorders by medical professionals. A variety of symptoms can be caused by structural, biochemical, or electrical abnormalities in the brain, spinal cord, or other nerves. A wide range of conditions are included in the category of neurological disabilities, including, but not limited to, epilepsy, learning disabilities, neuromuscular disorders, autism, attention deficit hyperactivity disorder, brain tumors, and cerebral palsy. Some neurological conditions manifest before birth and are congenital. Tumors, degeneration, trauma, infections, and structural flaws can all contribute to additional conditions. Damage to the nervous system is the root cause of every neurological disability, regardless of the cause. The degree of impairment in communication, vision, hearing, movement, and cognition is determined by the location of the damage. Various genetic disorders, congenital anomalies or disorders, infections, lifestyle or environmental health issues, such as malnutrition, brain damage, spinal cord injury, nerve injury, or gluten sensitivity (with or without intestinal damage or digestive symptoms), are examples of specific causes of neurological issues. It has been reported that neurological problems can result from metal poisoning, in which metals build up in the body and disrupt biological processes, at least with lead. Another body system that interacts with the nervous system may be the source of the neurological issue. For instance, cerebrovascular disease is characterized by damage to the brain brought on by issues with the blood vessels (cardiovascular system) that supply the brain. The body's own immune system causes damage in autoimmune disorders. Neurological decline is common in Niemann-Pick disease and other lysosomal storage disorders. People with unexplained neurological symptoms, particularly peripheral neuropathy or ataxia, should be evaluated for an underlying coeliac disease,

according to the National Institute for Health and Care Excellence. The term "idiopathic" refers to conditions in which there is no identifiable neural cause in the vast majority of cases of neurological symptoms. These "idiopathic" conditions can lead to a variety of different hypotheses regarding the nature of the symptoms. In general, a significant number of neurological disorders may have been brought on by an earlier viral infection that was not clinically recognized. Infection with the Hepatitis E virus, for instance, which typically causes no symptoms at first, is thought to cause neurological disorders; however, there are numerous other examples as well. Numerous neurological disorders that are linked to mutated DNA repair genes have been described. Inadequate DNA repair can disrupt the pattern of epigenetic alterations necessary for normal neuronal function and directly result in cell death, neuron depletion, and both. The nervous system is made up of the brain, spinal cord, and nerves. All of the body's functions are under their collective control. You may experience difficulties moving, speaking, swallowing, breathing, or learning when a component of your nervous system malfunctions. Your mood senses, and memory may also be affected. A common neurological condition known as Pilepsy is characterized by abnormal electrical activity in the brain that increases a person's risk of having recurrent, unprovoked seizures. Unprovoked means that the seizure was not caused by other medical conditions like severe electrolyte abnormalities or extremely high blood sugar and cannot be explained by exposure to or withdrawal from drugs or alcohol.

### ACKNOWLEDGEMENT

None.

### CONFLICT OF INTEREST

The author's declared that they have no conflict of interest.

<b>Received:</b>	29-June-2022	<b>Manuscript No:</b>	IPJNO-22-14465
<b>Editor assigned:</b>	01-July-2022	<b>PreQC No:</b>	IPJNO-22-14465 (PQ)
<b>Reviewed:</b>	15-July-2022	<b>QC No:</b>	IPJNO-22-14465
<b>Revised:</b>	20-July-2022	<b>Manuscript No:</b>	IPJNO-22-14465 (R)
<b>Published:</b>	27-July-2022	<b>DOI:</b>	10.21767/2572-0376.22.7.48

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**Citation** Leon JB (2022) Numerous Neurological Disorders Linked to Mutated DNA Repair Genes. *Neurooncol.* 7:48.

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