

ALS and TDP Activities

ALS is the most complex neurodegenerative disease.

Quantum biology modeling has identified three different near certain causal paths that must be subjected to verification and subsequent validation studies.

Note: All three paths have a common factor; excessive levels of the element selenium.

The following information describes TDP-43 and it is provided for use by qualified bioinformatics professionals.

While the following article did not make reference to the epigenetic signaling mechanism TDP, TDP2 was referenced in the title of the published article. Using that designation, our findings for TPD1 - 3 that are part of DNA repair have been attached to this article for use as part of discussions.

<https://medicalxpress.com/news/2017-10-reveal-role-dna-mechanism.html>

Researchers reveal the role of a DNA repair mechanism

October 31, 2017

Researchers from the University of Seville, in collaboration with the Genome Damage and Stability Centre of the University of Sussex in the United Kingdom, have recently published a study in the review *Nature Communications*, in which they make an important step forward in understanding more exactly what the mechanisms are that allow, if not correctly repaired, certain DNA breaks to be exchanged with others, so generating chromosomal translocation.

Many types of DNA breaks are frequently produced in cells. Their correct repair is essential for the prevention of genome destabilisation, which can cause the development of diseases like cancer. In this project, a very specific type of chromosomal break was studied, which is produced during the expression of certain genes.

isoleucine - valine and TDP3 are phenylalanine - tyrosine - tryptophan.

With near certainty, they are the anabolic (binding) mechanisms for DNA repair that are known as PARP1 - 3.

TOP1 is part of the copper-zinc based signaling molecules that have TOP1 - 3 as designations. The amino acid constituents of TOP1 are histidine - arginine - lysine; TOP2 are glutamine- alanine - aspartic acid and TOP3 are leucine-isoleucine-valine. With near certainty, they are the catabolic (autophagy/disassembly) enzymes mechanisms for DNA repair..