



THE LINK BETWEEN ALCOHOL DEPENDENCE, VIOLENT BEHAVIOR, AND GUT MICROBIOTA COMPOSITION

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Studies have shown a relationship between excessive alcohol use and violent behavior.

Alcohol is another dietary disruptor of the intestinal microbiota.

Alteration in the composition of the gut microbiota has recently been shown to be present in psychiatric disorders, which suggests the possibility of gut-to-brain interactions in the development of alcohol dependence and violent behavior.



Long-term alcohol abuse exerts a spectrum of potent effects on different body systems, ranging from psychiatric symptoms, malnutrition and chronic pancreatitis to alcoholic liver disease, hepatocellular carcinoma, and coronary heart disease.

Central and peripheral nervous systems are vulnerable and strongly affected by ethanol.

Alcohol and the products of its degradation by human organism can strongly modulate the human gut microbiota

Gut dysbiosis contribute to neuroinflammation in the context of alcohol exposure and withdrawal, subsequently leading to the psychiatric symptoms of alcoholism



Alcohol dependence has traditionally been considered a brain disorder.

The aim of the present study was to explore whether changes in gut permeability are linked to gut-microbiota composition and activity in alcohol-dependent subjects.

We also investigated whether gut dysfunction is associated with the psychological symptoms of alcohol dependence.



Dysbiosis can be caused by alcoholic beverage consumption.

We examine alcohol-induced effects on microbiota and how interventions targeted at normalizing alcohol-induced dysbiosis may mitigate some of the detrimental effects of alcohol.

Recent studies suggest that the gut bacteria also influence brain functions and behavior and may therefore play a role in the development of psychiatric disorders.

Alcohol-related violence causes substantial death, injury and health problems.



Alcoholic dependence was inversely associated with the levels of butyrate-producing.

Subjects with increased gut permeability also had altered composition and activity of the gut microbiota.

These results suggest the existence of a gut-brain axis in alcohol dependence, which implicates the gut microbiota as an actor in the gut barrier and in violence.

Alcohol-associated diseases can be controlled by gut microbiota, and it can be considered a ‘hidden organ’ with essential functions in host homeostasis



In addition, clinical and preclinical data suggest that alcohol-related disorders are associated with quantitative and qualitative dysbiotic changes in the intestinal microbiota and may be associated with increased gastrointestinal tract inflammation, intestinal hyperpermeability resulting in endotoxemia, systemic inflammation, and tissue damage/organ pathologies including alcoholic liver disease.

The intestinal hyperpermeability due to alcohol intake makes it easier for bacterial cells and their metabolites to enter the portal and the systemic circulation system, thus changes in gut microbiota, due to alcohol, can affect the gastrointestinal tract and other organs in the body.



Conclusion

This paper addresses the effect of alcohol consumption on the microbiota in violent behavior.

The intestinal hyperpermeability due to alcohol intake makes it easier for bacterial cells and their metabolites to enter the portal and the systemic circulation system, thus changes in gut microbiota, due to alcohol, can affect the gastrointestinal tract and human behavior.

Alcohol-dependent subjects developed gut leakiness.



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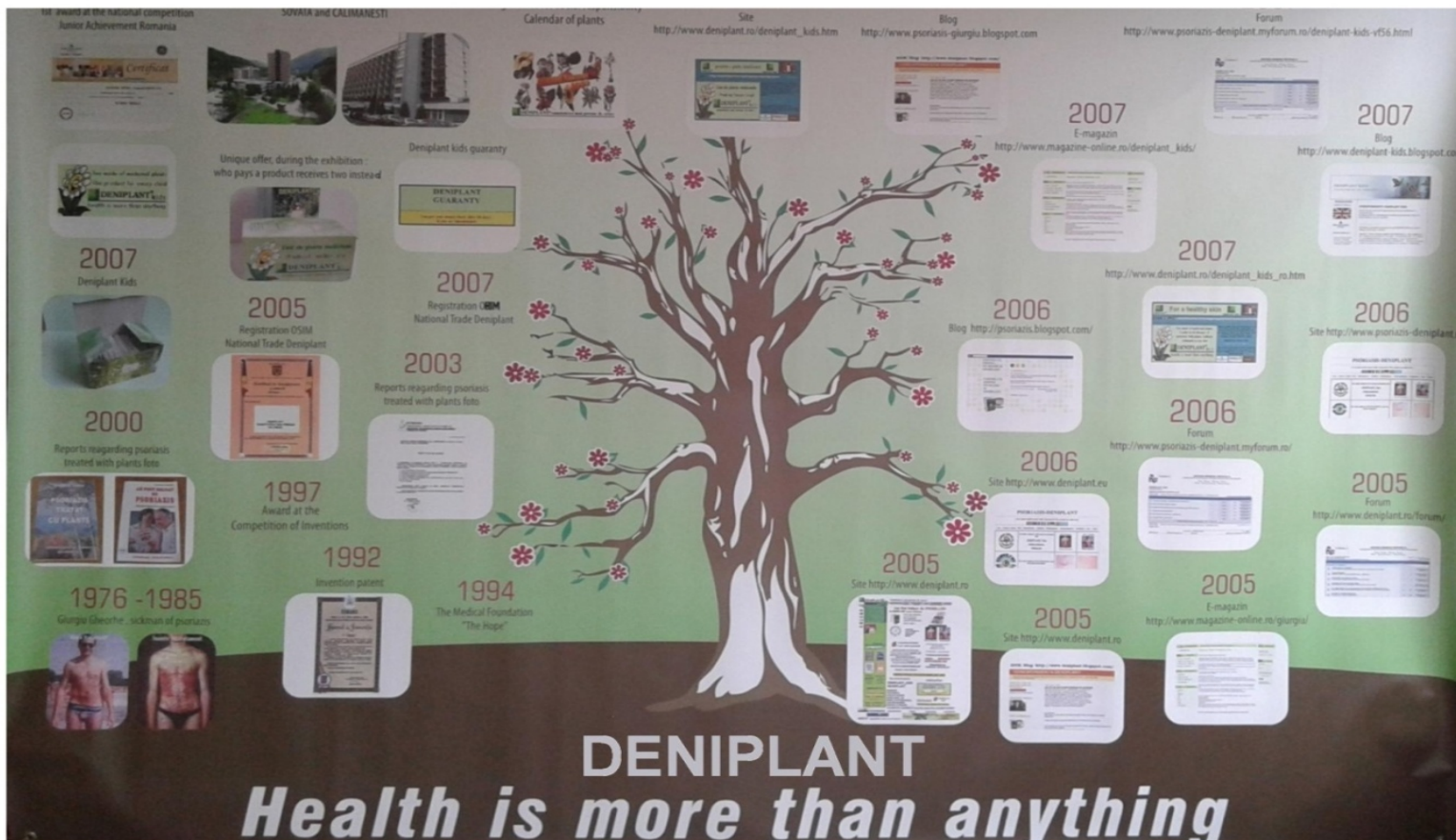
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 Giorgio Cibeacchi - sickness of psoriasis

1976
 Award at the national competition Junior Achievement Romania

1977
 Award at the Competition of inventions

1992
 Invention patent

1994
 The Medical Foundation "The Hope"

2000
 Reports regarding psoriasis treated with plants foto

2003
 Reports regarding psoriasis treated with plants foto

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