



## Genetic Crisis as a New Possible Syndrome

**Ahed J Alkhatib**<sup>1,2\*</sup>

<sup>1</sup>Department of Legal Medicine, Toxicology and Forensic Medicine, Jordan University of Science and Technology, Jordan

<sup>2</sup>International Mariinskaya Academy, Department of Medicine and Critical Care, Department of Philosophy, Academician Secretary of Department of Sociology, Jordan

**\*Corresponding Author:** Ahed J Alkhatib, Department of Legal Medicine, Toxicology and Forensic Medicine, Jordan University of Science and Technology, Jordan.

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Some philosophical considerations should be taken into our account when we are thinking and using the terms in general. One of these statements I used to say: “we are not living alone, inside each of us, billions of microbes”.

An estimation of human total cell number indicated a total number of  $3.72 \times 10^{13}$  [1]. Other studies have determined the number of cells in the body as  $3.8 \times 10^{13}$  and the total number of bacteria to be the same, and the ratio of human cells to bacterial cells is 1:1, and not 1:10 [2]. Whatever the variations among studies about the ratios between cell numbers in human or bacteria, the numbers are very high, and this leads me to raise a very basic question: what about the genetic composition effects resulting from the crowdedness of all these cells? In other words, are the microbial genes isolated from the host genes?

I have observed some positivity of microbes by immunohistochemistry to the biomarkers involved in various diseases such as cancers. To examine this phenomenon, we examined the expression of both ER and BCL2 proteins in *Candida albicans* (*C. albicans*). The expression was mainly shown in the nucleus, and to lesser extent in the cytoplasm of *C. albicans*. Hyphae forms of *C. albicans* were made due to the effect of ER. Taken together, these preliminary findings indicated that the effects of estrogen and its receptor on *C. albicans* are deeper than it was thought. Furthermore, the

growth of *C. albicans* follows similar mechanisms as involved in host cells and this is expected to widen our understanding of interactions between prokaryotic and eukaryotic cells [3].

I think that the existence of microbial proteins within the micro-environment of the tissue participates in creating new events including autoimmunity. Autoimmunity is associated with numerous diseases such as multiple sclerosis [4,5]. Taken into consideration that numerous diseases have acquired the nature of autoimmunity diseases such as diabetes, cancers, and neurological disorders [6], it is plausible to create a new syndrome, genetic crisis syndrome. However, this is an invitation to scientific community to take this syndrome into account and to discuss it in details.

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