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## Systematic identification and characterization of the methyl proteome for cancer intervention

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Methylation of Lys and Arg residues has emerged as a prevalent post-translational modification (PTM) occurring on numerous non-histone proteins, drastically extending its role beyond the known histone code. We have developed an approach that combines mass spectrometry with peptide arrays and bioinformatics to systematically identify protein methylation and quantify dynamic changes in the methylome associated with tumorigenesis or drug resistance. Our studies not only led to the identification of numerous novel methylation sites, but also generated new insights into how protein methylation regulates cellular functions such as DNA damage repair, apoptosis and drug resistance. With recent advances in mass spectrometry, the stage is now set to decode the methyl proteome and to elucidate, systematically, the mechanisms of interplay between histone and non-histone methylation and between methylation and other types of PTM for cancer diagnosis and intervention.

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## Protocol to suppress cancer: Treatment time with hydro-soluble carotene in algorithm $T=D/V$

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Cancer in early phase without adverse side effects is the expected target in the world. The cancer originates in glandular system produces various organ dysfunctions, and in metastases loss of life in a short time, public health problem of great social and economic importance. Carbohydrate -C40H56- Hydro-soluble Carotene (HC) identified as lycopene food used in this protocol is safe and complete solubility in water diffuses into the tissues where it is more benign and remarkable effect early tumor suppression than any other treatment except in stomach cancer, suppresses associated neuropathy, without adverse side effects, and glandular system activates. HC administered in the diet at doses of  $70 \pm 2$ ,  $140 \pm 4$ ,  $200 \pm 4$  and  $270 \pm 2$ mg, depending on the stage I, II, III and IV cancer, every 8 hours according to protocol and algorithm:  $T = D / V$ . Where T is the time in days of treatment the tumor, D is the maximum distance in mm from one point to another tumor, V is the average velocity (1mm/day) referral to tumor suppression. If the tumor size is 80x60x40 mm (the maximum distance D from one point to another of the tumor is 80 mm), time to tumor treatment T will be 80 days:  $T = 80 \text{ mm} / 1 \text{ mm/day} = 80 \text{ days}$ . From this it follows that  $T=D$ . In conclusion, the repeated finding referral to prompt suppression of the tumor with HC makes me think, cancer and other degenerative cellular alterations of glandular origin result from ancestral carotene deficiency in the diet, by suppression under sufficient dosage.

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