Teratogens against cancer

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Small molecule teratogens can damage embryo cells but they are tolerable by adult mother’s cells. It is assumed that several teratogens taken with food, medicines or air can bind alpha-fetoprotein (AFP) instead of vital nutrition omega-3 docosahexaenoic acid (DHA). Like AFP-DHA, AFP-teratogen non-covalent complex can cross placenta and can be internalized by embryo cells through cell-surface AFP receptor. Majority of cancer cells, unlike normal adult cells re-express AFP receptor and can be damaged by AFP-teratogen complex due to the same delivery mechanism avoiding side effects. AFP-drug non-covalent complexes have shown promising results in cancer patients.

Biography

Vladimir Pak has a PhD in Molecular Biology from the Institute of Bioorganic Chemistry, Moscow with over 30 years of Post doctoral experience in Virology, Biotechnology and Oncology. He is author of 7 patents related to API research and medicines manufacturing that excelled in quality to similar drugs on the Russian pharmaceutical market or replaced foreign drugs. He invented anti-cancer IV and oral medicines based on alpha-fetoprotein (AFP) as a tumor targeted carrier for apoptosis inducers.