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TTYH2- Promising colon cancer treatment development

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Abstract

Most of the cancers harbor molecular alterations in their genomes. These mutations have not yet been comprehensively explored in the colon cancer. TTYH2, a human homologue of the Drosophila melanogaster gene tweety, is involved in cell proliferation and cell aggregation. The TTYH2 gene may play an important role in regulating both proliferating and metastatic potentials of colorectal cancer. Here we present in the first part a large scale database sequencing study of colon cancer, frequent in Romania but also in the world. The aim was to demonstrate its power to produce somatic expressions. The tissue specificity of these genes is expressed at higher level in brain and testis and at lower levels in heart, ovary, spleen and peripheral blood leukocytes as well as in the skin. Up-regulated in 13 of 16 renal carcinoma and in 164 total unique samples of colon carcinoma, surgical specimens examined, our results reveal the genetic basis of 180 cases. So we identified and deeply characterized this driver of neocellular changes. These findings broaden our understanding of colon cancers and lead to new diagnostic and therapeutic approaches using TTYH2 antibodies.

Biography:

Felicia Andrei is a PhD in Medicine (Anathomy and Embriology) and a pharmacist specialized in Clinical Pharmacy with two Masters degrees: one in Pharmacy -Formulation and evaluation of the dermatocosmetic product and the other in Polytehnic Computer Automation - Information Systems in Health Care, now Assistant Professor of the Faculty of Pharmacy in Timisoara. Active member in the College of Pharmacists (Romania) and of the European Federation for Pharmaceutical Sciences

Speaker Publications:

1. "Periorbital Hyperpigmentation, a Dermatologic Condition Having a Strong Geographic and Ethnic Determinism"; 2018.
2. "Chemical Composition and the Potential of Lavandula angustifolia L. Oil as a Skin Depigmentant"; 2018; Records of Natural Products; Vol 12(4):340-349.
3. "The valorification of linum usitatissimum oil as sebum-reducing agent"; Romanian Biotechnological Letters, 2016: Vol 22(6):12136-12141.
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