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Tissue factor isoforms in cancer and blood coagulation

Kocatürk, B.

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Author: Kocatürk, Begüm

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Propositions accompanying the thesis

“Tissue Factor Isoforms in Cancer and Blood Coagulation”

1. Oxidation of Cys186-Cys209 residues in full length tissue factor increases its pro-coagulant activity. (this thesis)
2. Alternatively spliced tissue factor and full length tissue factor use distinct mechanisms to promote breast cancer progression. (this thesis)
3. Tissue factor isoforms bind integrins to induce downstream signaling events. (this thesis)
4. Where cancer cells are injected can change the outcome of the experiment. Orthotopic injection is better than other injection methods. (this thesis)
5. TF initiates the coagulation cascade that generates proteolytic fragments with potent regulatory effects on angiogenesis. (Belting M, Nat Med. 2004; 10: 502-9.)
6. It is controversial whether asTF always displays coagulant activity and can be effectively secreted. (van den Berg YW, Proc Natl Acad Sci U S A. 2009; 106: 19497-502)
7. The possibility to safely inhibit TF signaling with minor effects on TF coagulant function provides an opportunity for aggressive intervention at the level of direct TF signaling in cancer patients with impaired hemostasis. (Versteeg HH, Blood. 2008 ;111: 190-9.)
8. Alternatively spliced tissue factor plays a role in myocardial infarction.
9. Turkse pizza met döner is similar to a kaassoufflé stuffed with bitterballen.
10. Our true mentor in life is science. (K. Atatürk, 1924)
11. Absence of understanding does not warrant absence of existence. (Ibn Sina, 1025)