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Interplay between cancer and thrombosis; identification of key factors
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Propositions
Affiliated with the thesis
**Interplay between cancer and thrombosis;
identification of key factors**

By Betül Ünlü

1. Physiologic expression of alternatively spliced Tissue Factor has no effect on the coagulant property of full-length Tissue Factor when co-expressed in endothelial cells, since these proteins are expressed in different cellular compartments. (*This thesis*)
2. Tissue Factor signaling affects epithelial-to-mesenchymal transition and cancer stemness via modulation function of $\beta 1$ - and $\beta 4$ integrins, that results in increased metastasis. (*This thesis*)
3. Patients with cancer-associated thrombosis show a different tumor expression profile compared to those with cancer. (*This thesis*)
4. The spontaneous thrombosis model will allow us to study the underlying mechanism behind thrombosis and disseminated intravascular coagulation -an extreme form of dysregulated hemostasis- in mice with cancer. (*This thesis*)
5. In the bloodstream, Tissue Factor expression on circulating tumor cells is important in order to protect itself against attack from Natural Killer cells. (*Palumbo JS, et al. Blood 2007; 110:133-41*)
6. Risk factors of venous thromboembolism cannot be extrapolated to patients with cancer, because cancer itself is the largest risk factor.
7. In order to better understand the evolution of cancer-associated thrombosis, the genetic background -both germline and somatic mutations- of the patient should be studied as well. (Inspired by *Carter H, et al. Cancer Discovery 2017; 7:410-423*)
8. In order to stimulate good and innovative science, scientists should less be accountable for all their expenses to grant providers and should be given more 'free-time' in the laboratory.
9. Making a lot of mistakes is good for the character development of a PhD-student, as he/she learns to be patient and improves to temper the frustration.
10. A scientist is not cluttered, just very well organized in a tremendously chaotic manner.
11. "Yesterday I was clever, so I wanted to change the world. Today I am wise, so I am changing myself." (*Rumi 1207-1273*) A young scientist starts naive and with big goals, and along the way learns that academia is more challenging than expected.
12. "I believe in pink." (*Audrey Hepburn 1923-1993*) Pink is more than just a color, it will make a huge difference in life and academia.

