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Novel mechanisms and signaling pathways in angiogenesis

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Stellingen behorende bij het proefschrift getiteld "Novel Mechanisms and Signaling Pathways in Angiogenesis"

1. The bidirectional signaling of Notch/DLL4 proposes that the DLL4 ICD (Intracellular Domain) may serve as a point of interaction between Notch and receptor tyrosine kinase (RTK) signaling pathways. This thesis
2. Aberrant degradation of FOS may contribute to the abnormal vessel growth characteristic of epithelioid hemangioma. This thesis
3. DLL4 ligand dimerization is essential for the specific inhibition of Notch receptor activity in a cis configuration. This thesis
4. The intracellular domain of DLL4 (DLL4 ICD) suppresses the binding of JUN to DNA, thereby regulating the expression of JUN target genes, including DLL4 itself. This thesis
5. The fact that ETS gene fusions are implicated in multiple cancer subtypes and drive key stages of tumor progression makes them promising targets for new anti-cancer therapeutic developments. (Wang, Y. et al. ETS transcription factors: Multifaceted players from cancer progression to tumor immunity. *Biochimica et Biophysica Acta (BBA) - Reviews on Cancer*, 2023).
6. Anti-angiogenic therapy may either inhibit tumor growth or normalize blood vessels, thereby enhancing the delivery of anti-tumor drugs (Li,X, et al. New advances in the research of clinical treatment and novel anticancer agents in tumor angiogenesis, *Biomedicine & Pharmacotherapy*, 2023)
7. "To reproduce consistent results, the day you perform the experiment, you should wear literally the same clothes, as before." David Baker.
8. Drug resistance remains a prevailing obstacle that consistently hampers the clinical efficacy of the drug treatment in cancer. This resistance is characterized by two distinct forms: Intrinsic resistance and acquired resistance (Wang, X. et al. Drug resistance and combating drug resistance in cancer. *Cancer Drug Resist* 2, 141–160 (2019).
9. Robust target validation is a crucial aspect of drug discovery and should receive greater emphasis to enhance the development of new therapies. (Emmerich, H.et al. Improving target assessment in biomedical research: the GOT-IT recommendationsr. *Nat Rev Drug Discov*, 2021).
10. A cell culture earned a promotion due to its great cell communication skills. Anonymous
11. The greatest mistake one can make is being afraid of making mistakes.