

Propositions pertaining to the thesis

Unraveling the Molecular Pathogenesis of Brain Metastatic Disease

1. “Tell me who you’re with, and I’ll tell you who you are” (Esmeralda Santiago) - The environmental interactions of primary cancer cells is critical to understand metastatic pathogenesis. (this thesis)
2. Brain metastatic propensity evaluation should account concurrent cell neoplastic features, neighboring environmental traits and host tissue homeostatic mechanisms. (this thesis)
3. Widely employed immune defense mechanisms can be awry worn for oncogenic benefit. (this thesis)
4. IFN- γ is a potent cytokine that regulates the expression of over 100 genes in a single cell type, influencing many pathways in different cell types. (this thesis)
5. *Coronin-1A* is a non-exclusive “green-card” for brain metastasis formation. (this thesis)
6. It’s bad bile. It’s bad habits. It’s bad bosses. It’s bad genes. (Mel Greaves, *Cancer: The Evolutionary Legacy*, 2000)
7. (Research) Doctors are men who use medicines of which they know little, to cure diseases of which they know less, in bodies of whom they know nothing. (Voltaire) (Mukherjee, S., *The emperor of all maladies*, 2011)
8. Research is to see what everybody else has seen, and to think what nobody else has thought. (Albert Szent-Gyorgyi, Hungarian physiologist who won the Nobel Prize in Physiology or Medicine in 1937)
9. Noise in scientific data (from theory) is similar to the noise in music; it will hurt one’s interest in listening.
10. You never fail until you stop trying. (Albert Einstein)
11. It always seems impossible until it’s done. (Nelson Mandela)

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