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Tumor tissue architecture, immune cells and molecular characteristics in relation to immune escape in colon cancer: what rises must fall

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**Tumor tissue architecture, immune cells and molecular characteristics
in relation to immune escape in colon cancer:**

What Rises Must Fall

1. Immune escape in colon cancer is not a discrete molecular event, but an emergent property of a multi-scale tumor ecosystem (this thesis).
2. In colon cancer, the spatial distribution of immune cells is more informative for biological interpretation than immune cell density alone (this thesis).
3. The true footprint of immune evasion in colon cancer is written not in global HLA downregulation, but in the locus-specific loss of highly divergent HLA alleles (this thesis).
4. An inflamed tumor is not necessarily an immune controlled tumor (this thesis).
5. Retrospective translational studies are the engine of biological discovery, but their findings must not be masqueraded as clinical biomarkers without prospective validation.
6. The future of cancer immunology lies not in the discovery of the next single marker, but in deciphering the spatial and molecular architecture of the tumor as an integrated system.
7. Scientific robustness is not strengthened by more complex methods, but by asking biologically precise questions and using methods appropriate to those questions.
8. The most meaningful cancer biomarkers are not those that classify tumors most efficiently, but those that improve our understanding of tumor biology.
9. What rises in scientific inquiry must ultimately fall into clarity.
10. In science, as in life, perfection is an illusion; true progress relies on acknowledging the 'things we wish we didn't do' and continuing to learn.
11. While we study cancer cells that desperately attempt to live forever, a scientist's true calling is best captured by Bon Jovi: 'I ain't gonna live forever, I just want to live while I'm alive.' (*Bon Jovi*)