

**Quantifying response and dynamics to pre-operative treatments in urothelial cancer
Mapping the tumor microenvironment for better response predictions**

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Propositions

accompanying the dissertation

Quantifying response and dynamics to pre-operative treatments in urothelial cancer

by

Alberto GIL JIMENEZ

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- 1.-** Response to neoadjuvant chemotherapy in urothelial cancer cannot be solely predicted with genomic data. (*, Chapter 2)
 - 2.** Tertiary lymphoid structures in the tumor microenvironment of urothelial cancer do not always have an anti-tumor immunity function. (*, Chapters 3, 4)
 - 3.** Spatial relationships of immune cells in the urothelial cancer tumor microenvironment better predict combination immune checkpoint inhibitors response than immune cell densities. (*, Chapter 5)
 - 4.** Unexpected behavior in biomarkers of immune checkpoint inhibitors response in urothelial cancer results from an incomplete understanding of the treatment and response mechanism. (*, Chapters 3, 4, and 5)
 - 5.** Every scientific paper containing a bioinformatics component should undergo mandatory code peer-review.
 - 6.** The lack of standardization and scrutiny of bioinformatic protocols, guidelines, and reports poses a risk to reproducibility, validity, and application of research outcomes
 - 7.** Inequalities are amplified by the systematic underrepresentation of sex, gender, and ethnic minorities in clinical trials and biomedical datasets.
 - 8.** Insufficient training in science communication is detrimental to the scientific endeavor and hinders knowledge dissemination within the scientific community and society.
 - 9.** Data and evidence must support political decisions.
 - 10.** Insufficient legal safeguards and protection for LGBTQ+ identities pose a risk to human rights.

(*) This proposition pertains to this dissertation

These propositions are regarded as opposable and defensible and have been approved as such by the promotor prof. dr. L. F. A. Wessels and copromotors dr. M. S. van der Heijden and dr. D. J. Vis.