

Spatial omics to quantitatively study tissue heterogeneity

Citation for published version (APA):

Dewez, F. (2021). *Spatial omics to quantitatively study tissue heterogeneity*. [Doctoral Thesis, Maastricht University]. Maastricht University. <https://doi.org/10.26481/dis.20211125fd>

Document status and date:

Published: 01/01/2021

DOI:

[10.26481/dis.20211125fd](https://doi.org/10.26481/dis.20211125fd)

Document Version:

Publisher's PDF, also known as Version of record

Please check the document version of this publication:

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Propositions accompanying the dissertation

Spatial Omics to Quantitatively Study Tissue Heterogeneity

by Frédéric Dewez

1. The comprehensive analysis of biological processes requires the study of these biomolecules in their spatial context. *This thesis.*
2. Mass spectrometry imaging (MSI) continues its development toward higher spatial resolution and cellular sensitivity but still lacks chromatographic separation to eliminate ion suppression. *This thesis.*
3. The novel use of multiple labels as internal standards provides an improved solution for local differences in ionization efficiency to quantify more accurately target compound concentrations. *This thesis.*
4. The work described in this thesis is a major step forward in establishing a link between spatial information in biological tissue specimens and omics approaches. *This thesis.*
5. The investigation of intratumor heterogeneity is of utmost interest for the scientific community to better understand the evolution of cancer. *This thesis, impact.*
6. Research means that you don't know, but are willing to find out. *Charles F. Kettering.*
7. One of the ways to learn is to know when you're making failures. *Robert Genn.*
8. Produire beaucoup, ne publier que le meilleur. (Produce a lot, publish only the best). *Jules Renard.*
9. I am a sore loser. When I play, it is to win.