

**DNA comparisons in genomics
a reference-based perspective**

Mokveld, T.O.

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Propositions

accompanying the dissertation

DNA COMPARISONS IN GENOMICS A REFERENCE-BASED PERSPECTIVE

by

Tom Onno MOKVELD

1. The complex reality of genomes should be reflected in graphical structures, rather than linear reference genomes. [This thesis]
2. The democratization of genomics will lead to a privacy nightmare.
3. A critical attitude does not mean being opposable for the sake of being opposable.
4. Lack of consensus in methodologies to analyze, as well as interpret, data is a hindrance to advances in the metagenomics field of research. [This thesis]
5. The failure to appreciate the value of different knowledge systems can lead to a loss of important cultural traditions and wisdom.
6. Technological advancements in NIPT will challenge current understandings of informed consent. [This thesis]
7. The media has played a pivotal role in the way refugees are perceived and portrayed in the Netherlands, often causing damage to their reputation.
8. A product that is introduced to the market to help make consumers' lives easier should not be forced to also serve as a testing ground for citizens.
9. Globalization itself can lead to a pressure on globalization as can be seen in the spread of far-right ideas.
10. Advances in technology have created a disconnect between humans and their ability to understand and control them.

These propositions are regarded as opposable and defensible, and have been approved as such by the promoters prof. dr. ir. M.J.T. Reinders and dr. ir. Z. Al-Ars.