

Dynamic computational models of cell-extracellular matrix and cell-cell interactions

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Propositions

Accompanying the dissertation

Dynamic Computational Models of Cell-Extracellular Matrix and Cell-Cell Interactions

by Zeynep Karagöz Maastricht, 9th January 2024

- "It's the question that drives us, Neo. It's the question that brought you here. You know the question, just as I did." – Trinity (The Matrix)
- 2. Finding the answer to the question "How do cells sense?" is essential for advancing regenerative medicine. this thesis
- The level of complexity in biological systems makes it necessary to reduce the system to its minimal components to understand the essential mechanisms of action. – this thesis
- 4. Computational biology is a great companion to regenerative medicine. this thesis
- 5. Boosting computational exposure in university-level biology studies can demystify computational biology.
- 6. Fibrosis, a multiscale biological conundrum, will find its solution in the embrace of multiscale models. this thesis
- 7. "(...) so many out-of-the-way things had happened lately, that Alice had begun to think that very few things were really impossible." Lewis Carroll (Alice's Adventures in Wonderland)
- 8. Improvements in the field of (biological) data management are critical for all the fields of biomedical and life sciences.
- All computational models need to be stored in properly managed databases and openly shared with the scientific community. – this thesis
- 10. "The data-driven approach's strength lies in its adaptability, yet its greatest challenge arises from the dependence on high-quality gold standards, as their precision fundamentally shapes the efficacy of predictions in guiding experimental biology." Casey S. Greene, Olga G. Troyanskaya
- 11. "When you have to fight for existence, fighting can become an existence."
 - Sara Ahmed (The Feminist Killjoy Handbook)