

Review of: "Morphomechanics: An Extended View"

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Potential competing interests: No potential competing interests to declare.

This Review tackles a timely topic in biological discovery and the field of biofabrication. Morphomechanics is an extremely interesting topic that can guide bioassembly sciences in completely unexplored directions; thus, its relevance in the field is high. The manuscript is well organized, and the topic coverage is complete. The style is really catchy, and I believe scientists of different fields can get passionate about this topic, also in view of its clarity. I wondered if it would still be possible to extend the discussion about the concept of morphomechanics in view of engineering activities. One example is research focused on control vs. self-organized bioassembly and the resulting behaviors, such as research on xenobots which report on unexpected abilities (like environmentally conditioned self-replication from the debris stage and navigated motility in complex environments). : <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10442684/> What type of experimental approach should we adopt to further investigate morphomechanics? What are the most important takeaways for biomedical applications, such as controllable tissue engineering processes?

In conclusion, I found this manuscript inspirational, sufficiently informative, well-written, and timely. I recommend it for publication and hope it will be read by many.