

OSCARS

Open Science Clusters' Action
for Research & Society

Funded Project

MultiCellML-TDR - Standard and FAIR TDR for Comp. Models of Multicellular Biological Systems

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Implemented by



ZIH
Information Services and
High Performance Computing

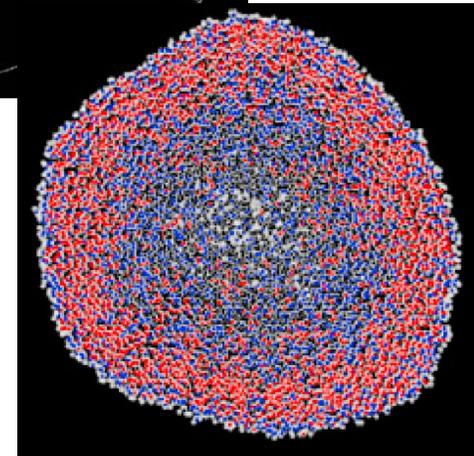
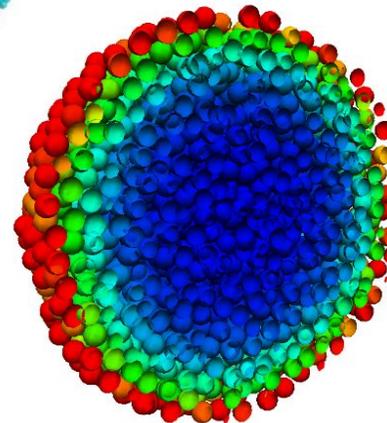
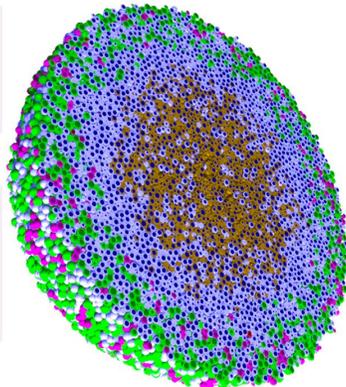
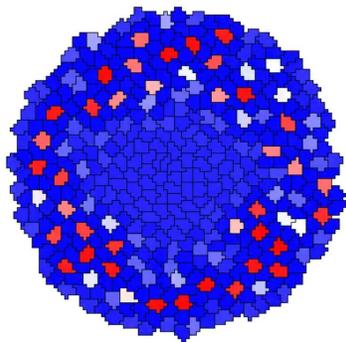
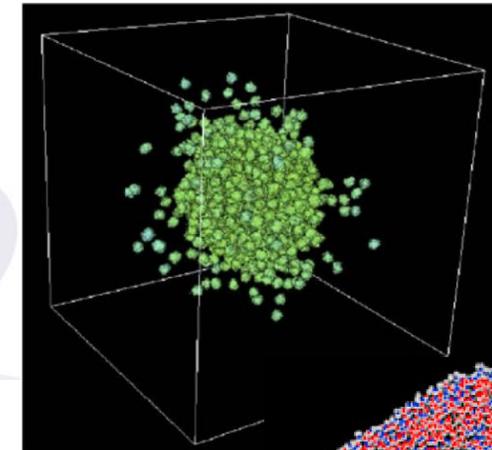
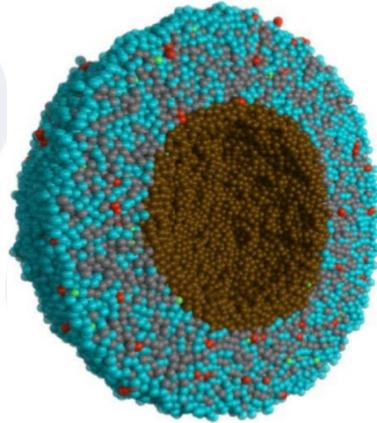
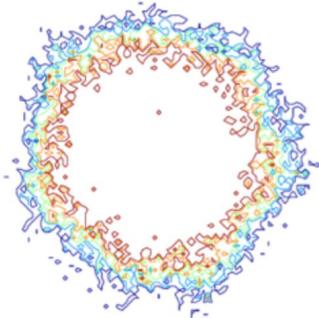
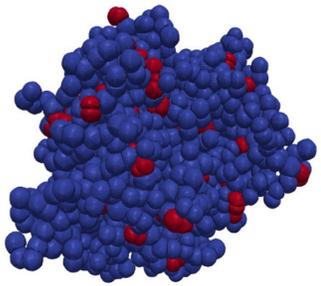


the **combine**
computational modeling in biology network

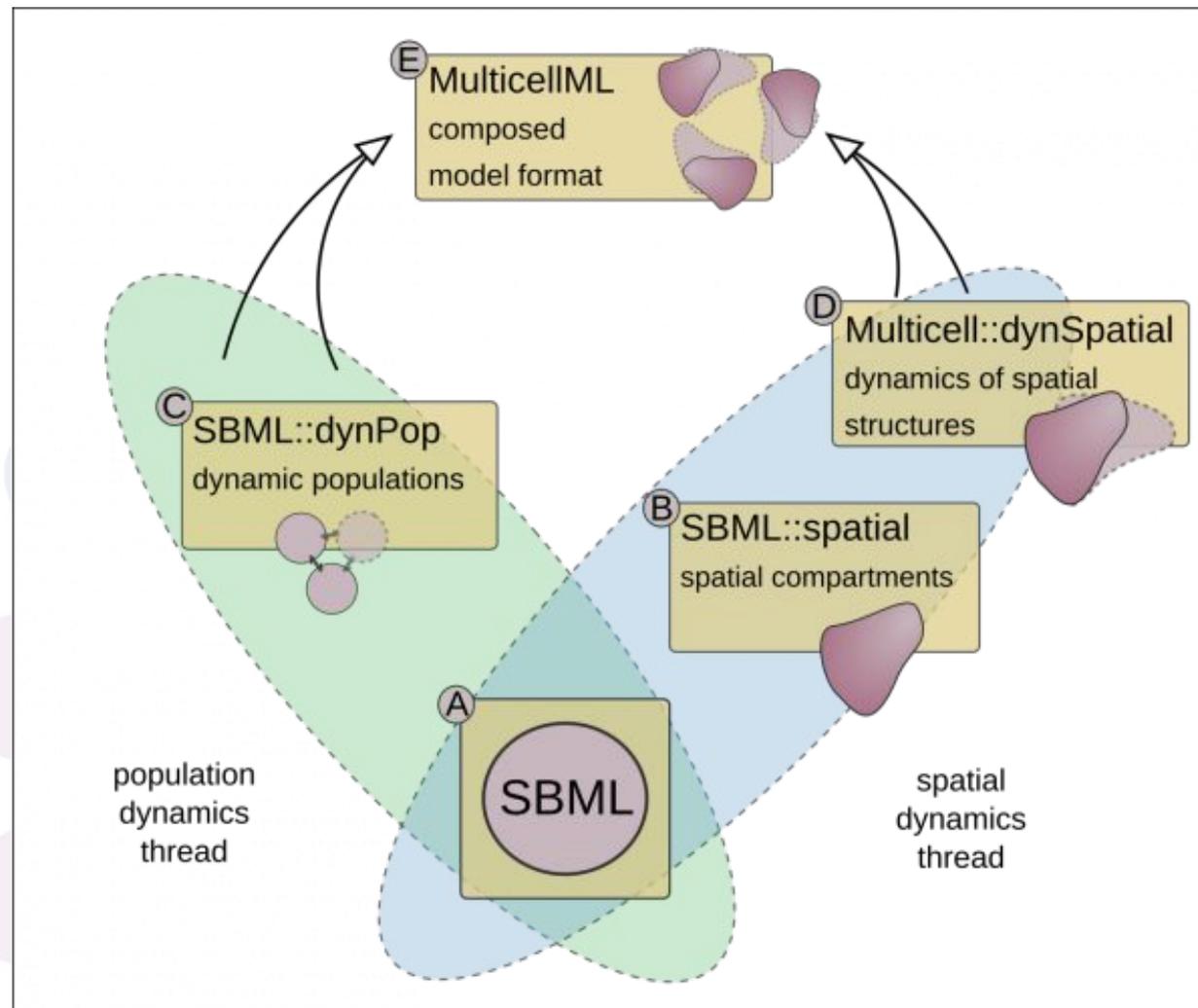


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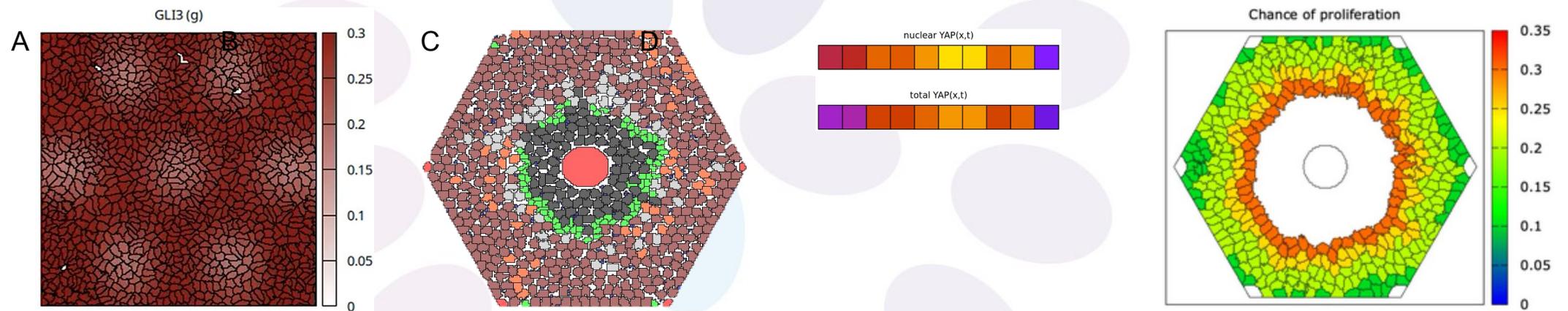
Fragmented modeling and simulation approaches across computational life sciences
-> hinders collaborative progress, e.g. tumor spheroid models:



Standardisation in
collaboration with



1. **Standardization** (MultiCellML) renders computational biology models interoperable and reusable (FAIR) -> **enable collaboration**
2. **Model repository** (TDR), simulation services and training resources will be integrated with the EOSC services: Identifiers.org (ELIXIR), FAIRDOMHub (ELIXIR Germany), FAIRsharing and WorkflowHub (ELIXIR UK) and TeSS (ELIXIR UK and ELIXIR Estonia) -> **EOSC-Node | Life Sciences Connect**
3. **Liver disease models** as proof-of-concept -> **Virtual Human Twin**
incl. integration of liver models from 4 repositories within EOSC:



(A) <https://www.ebi.ac.uk/biomodels/MODEL2009110001>, (B) <https://identifiers.org/morpheus/M9496>,

(C) <https://fairdomhub.org/models/760>, (D) <https://seek.lisym.org/models/19>



Project homepage: <https://MultiCellML.org>