

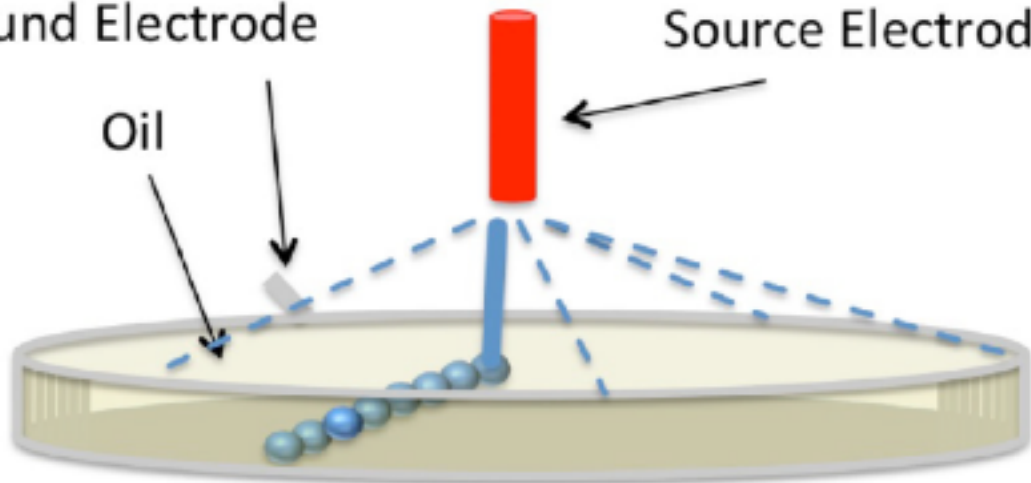
Radboud University Nijmegen



Ground Electrode

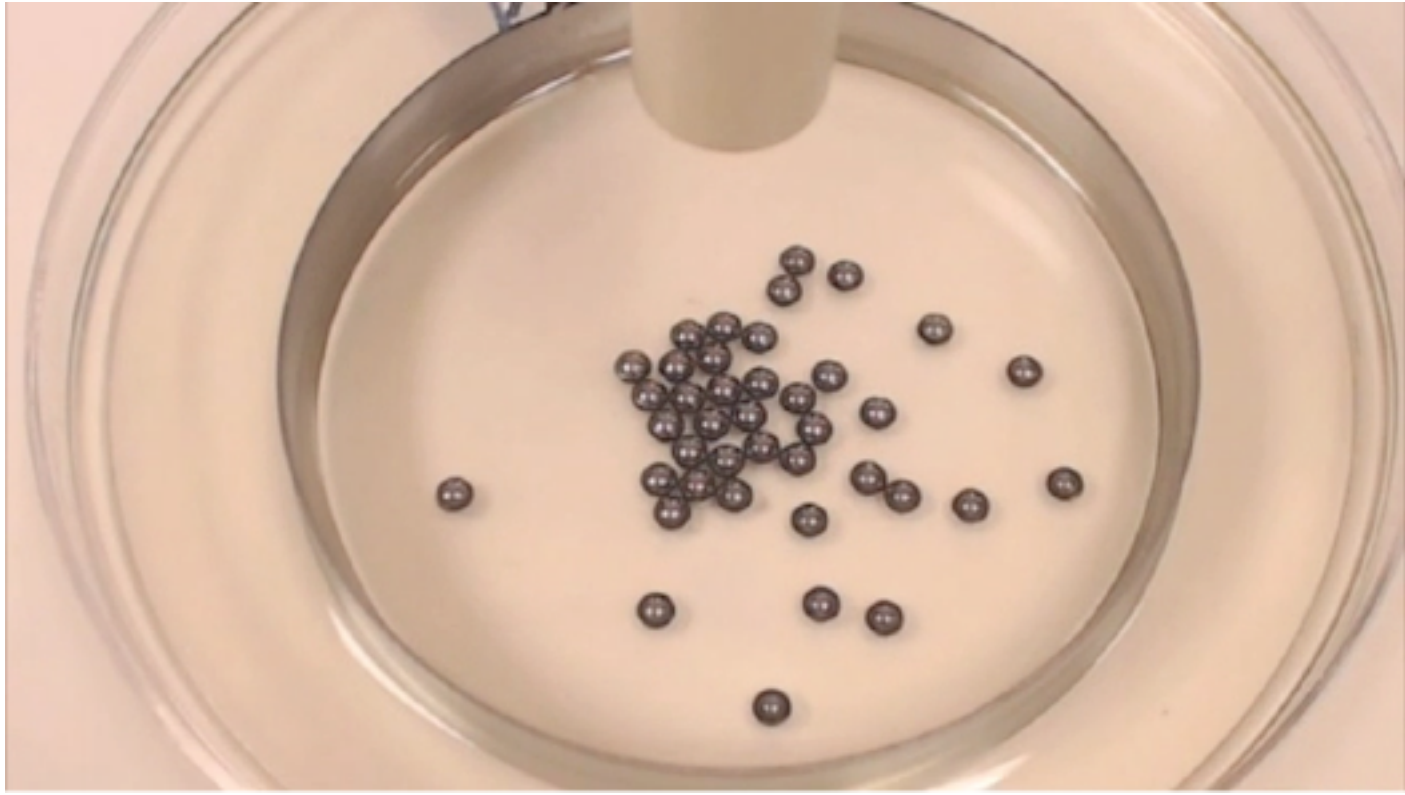
Source Electrode

Oil



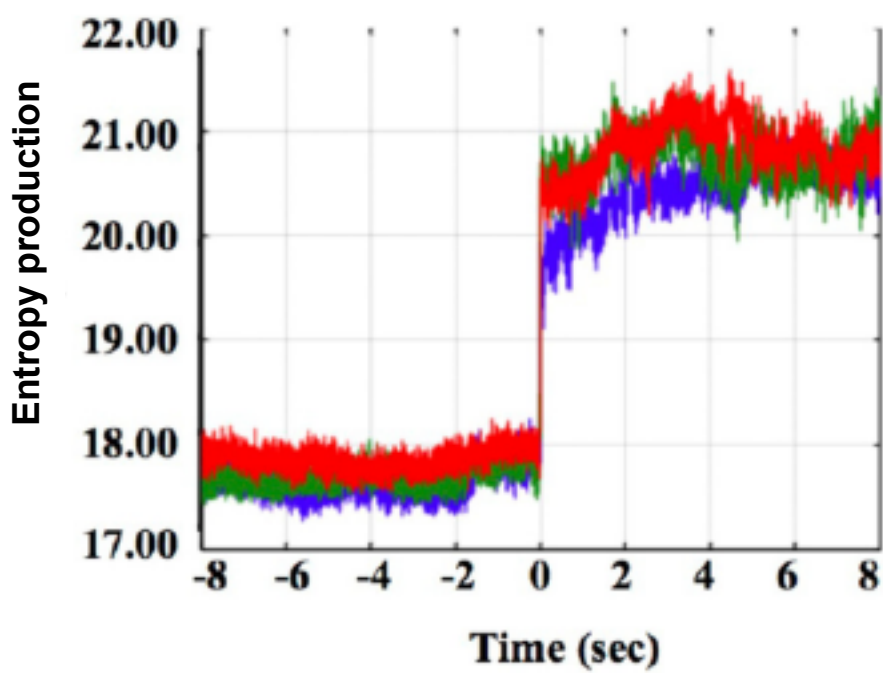
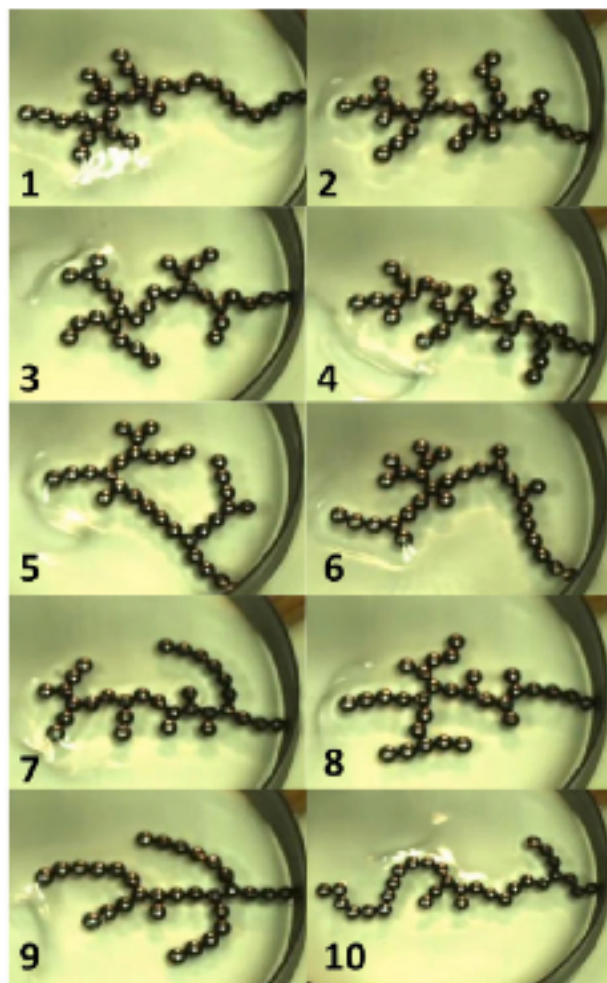
Complex behavior (physical) principles & laws (bottom-up)



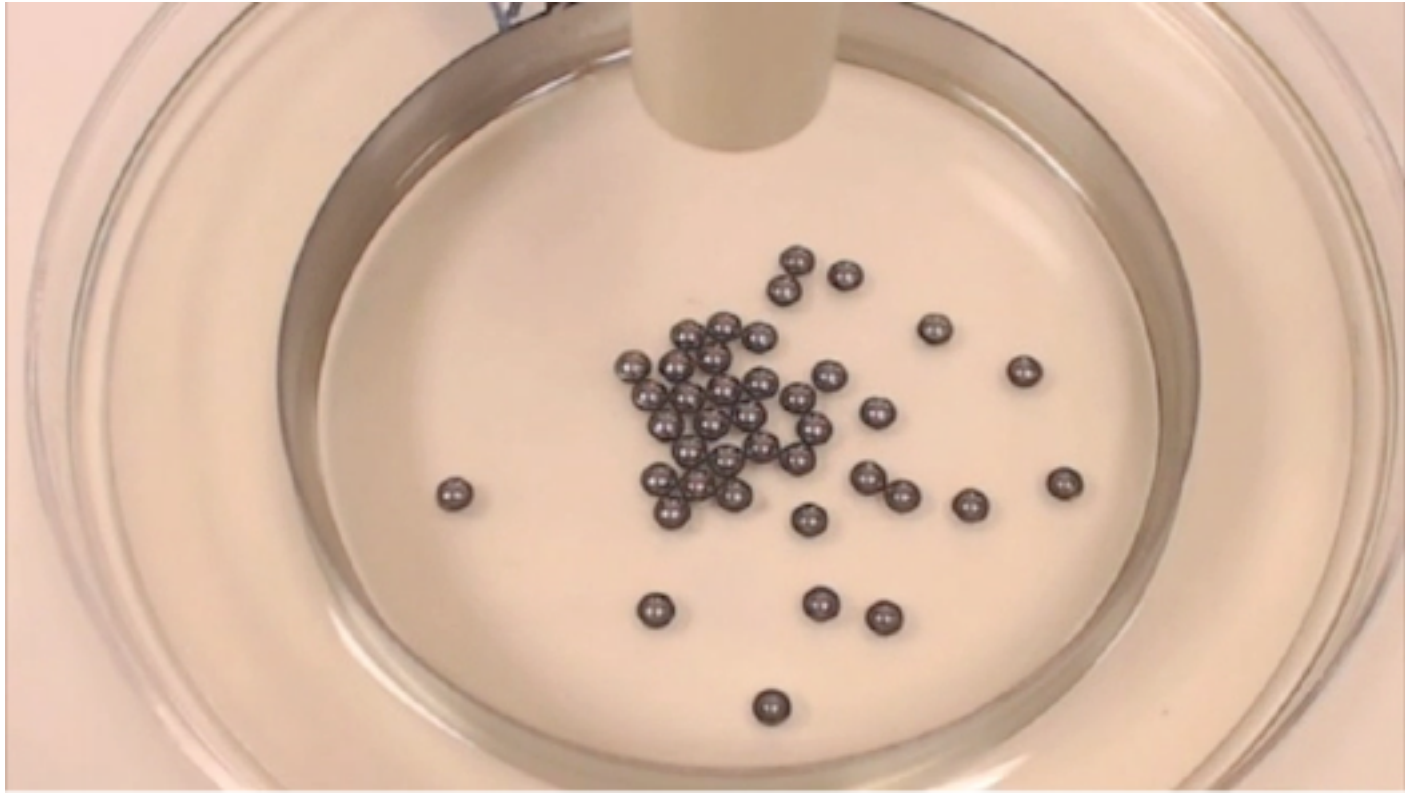


self-organisation:

Tree formation

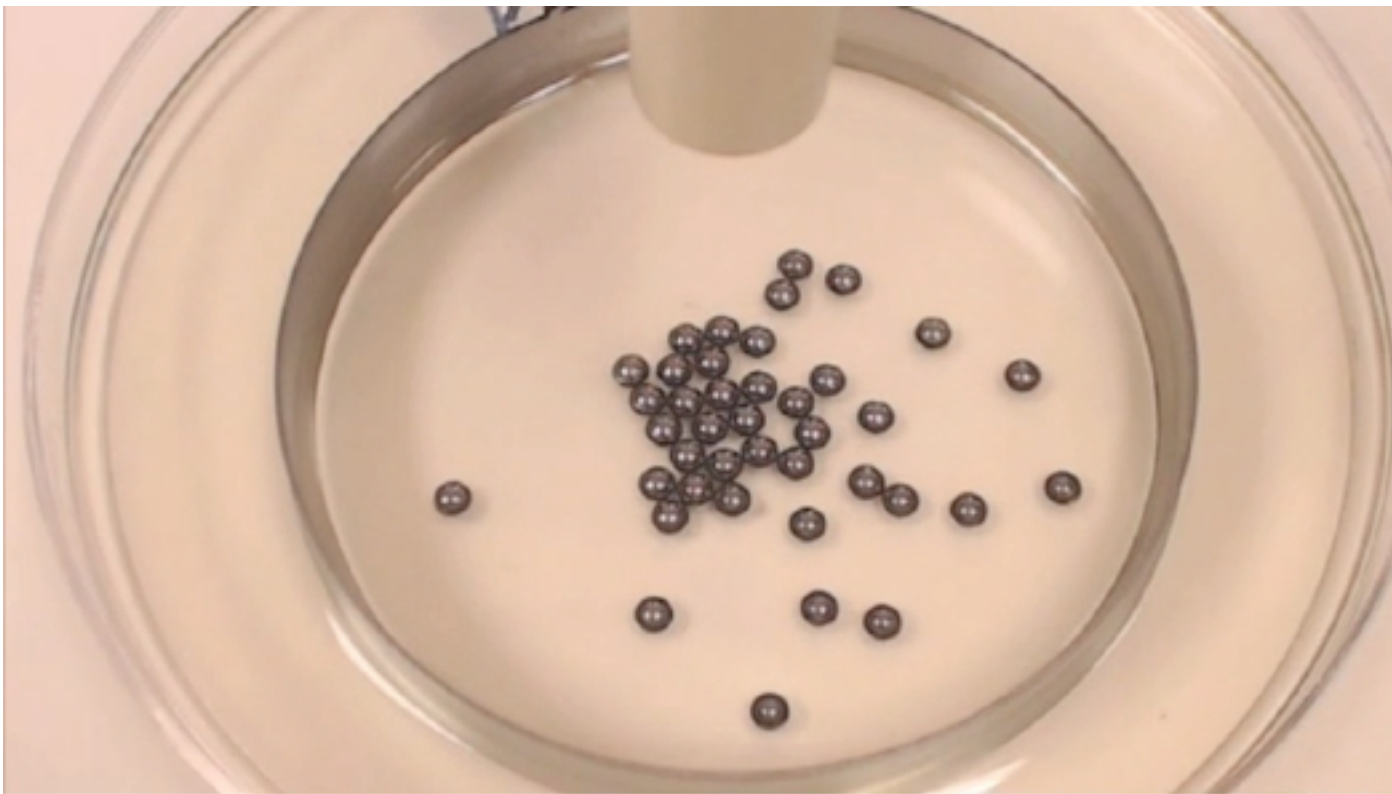
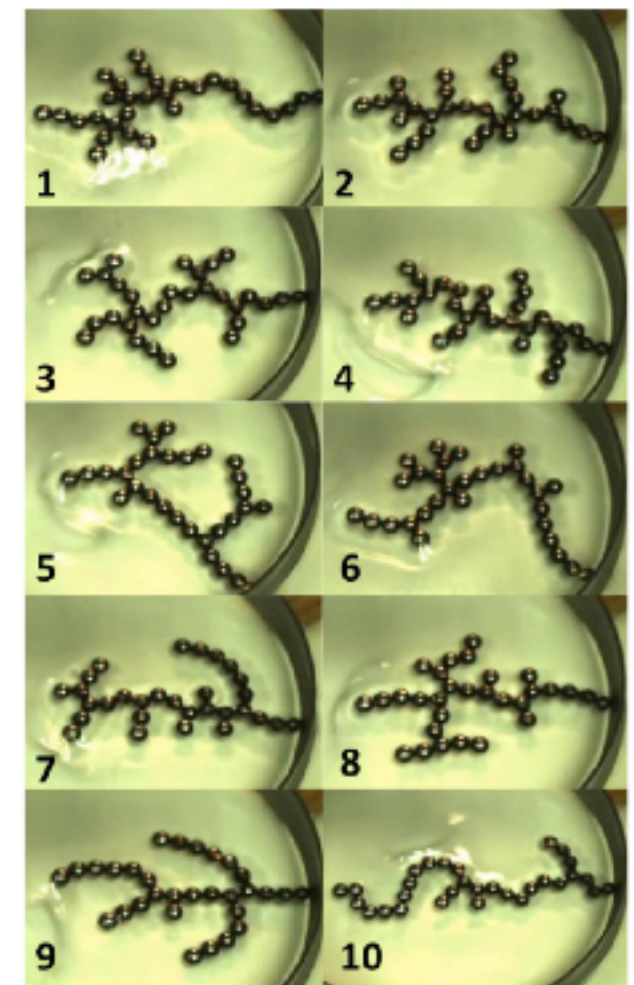
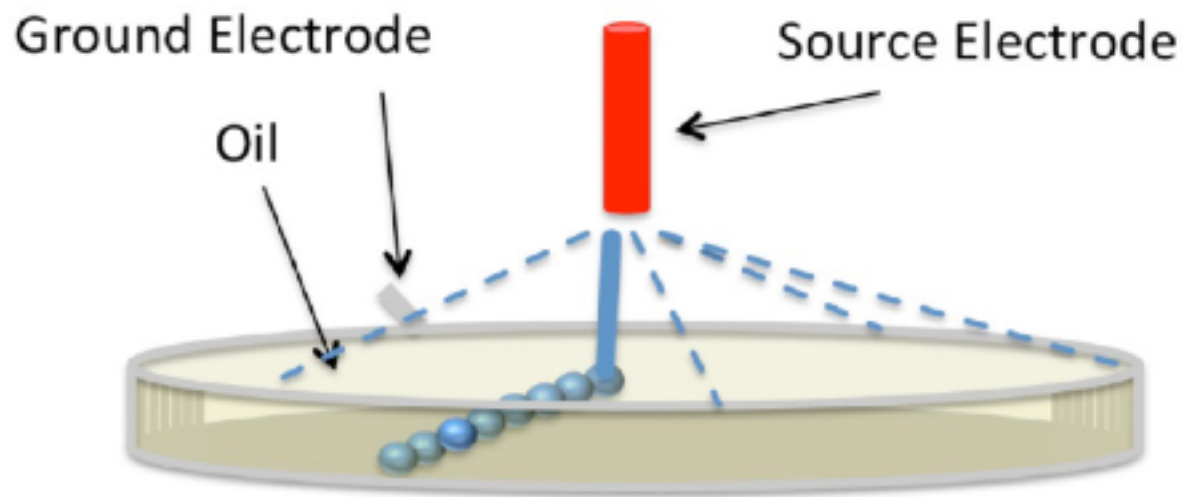


Kondepudi D, Kay B, Dixon J. (2017). Dissipative structures, machines, and organisms: A perspective. *Chaos*, 27(10), 104607.

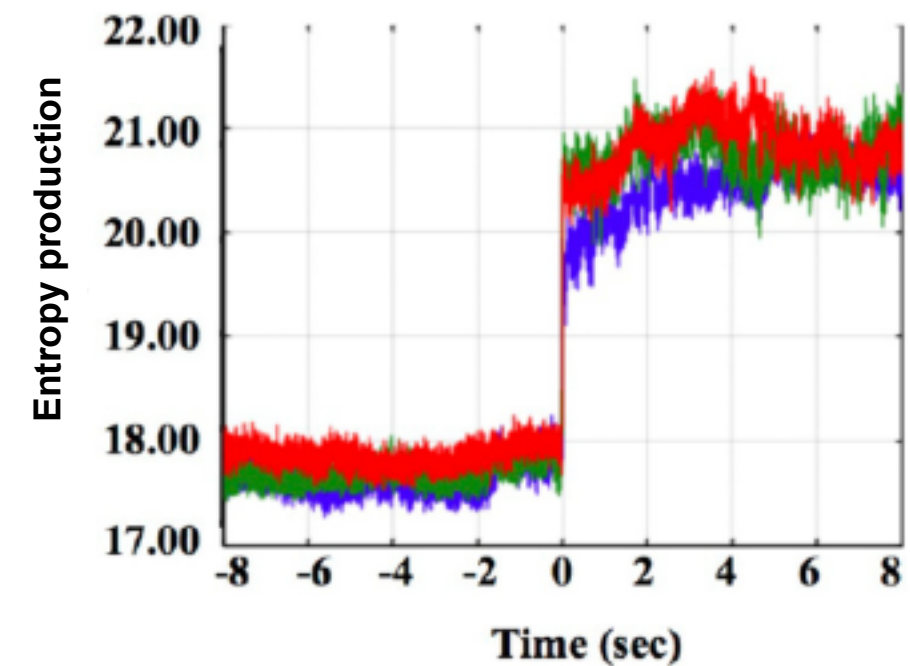




Complex behaviour from (physical) principles & law



self-organisation: Tree formation



Complex behaviour from (physical) principles & laws (bottom-up)



**self-repair:
Resilience to perturbation**

