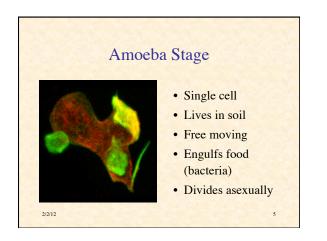
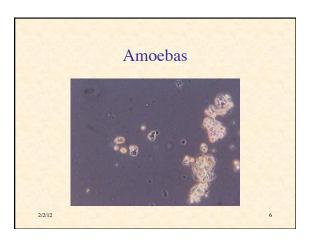


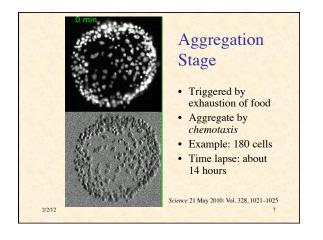


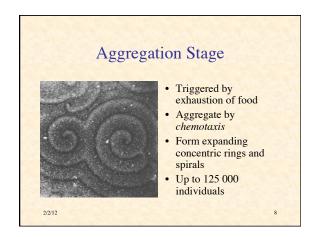
2/2/12

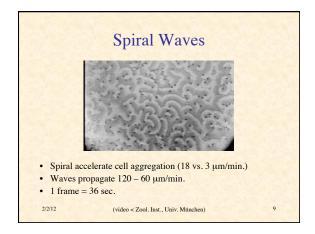
 One stack can assemble another

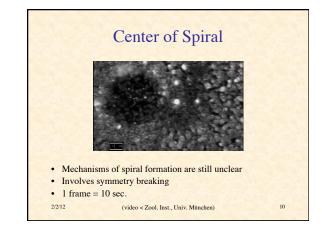


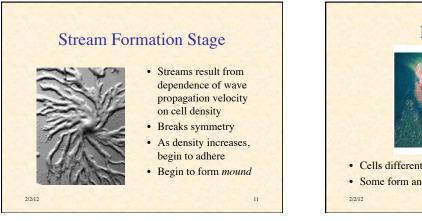


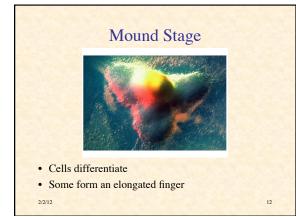


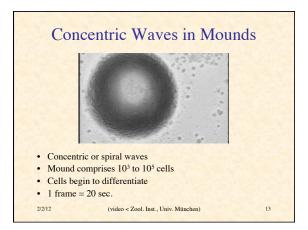


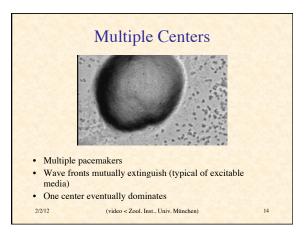


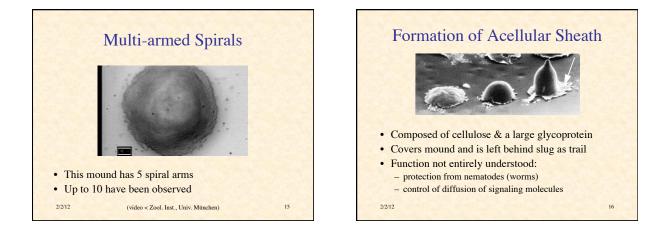


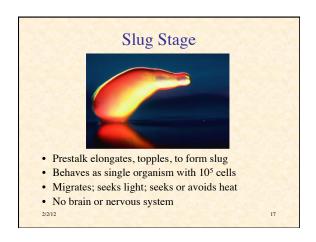


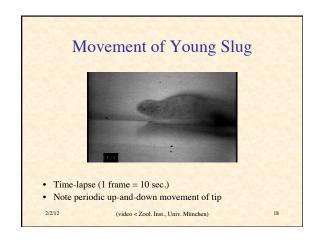




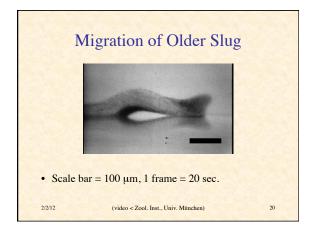


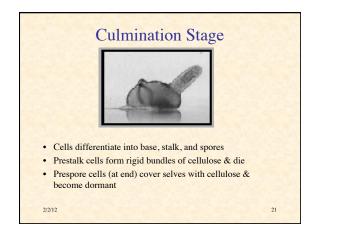


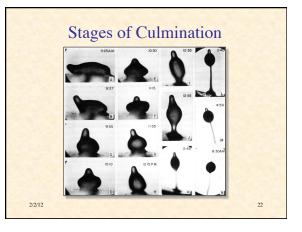


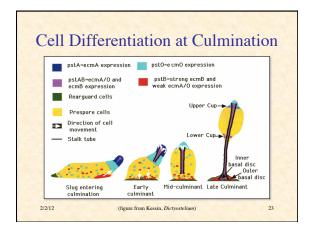


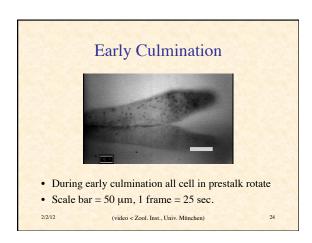


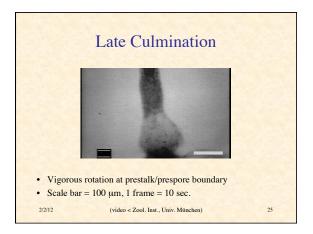




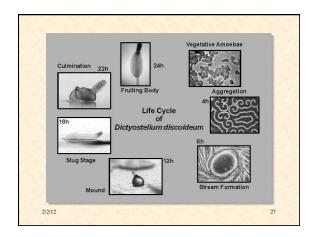












## Cooperation and Altruism in Dicty

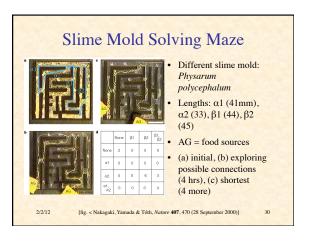
- Cooperation is essential to Dicty signaling and aggregation
- "Altruism" is essential in stalk formation
- How is cooperation encouraged and cheating discouraged?
- In one case the same gene prevents cheating and allows cohesion

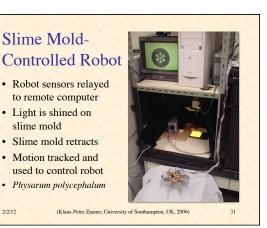
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• Green-beard genes?

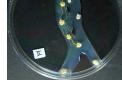
2/2/12

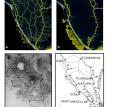




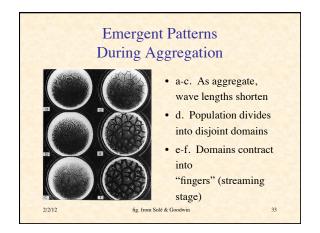


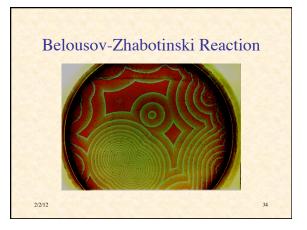
Slime Mold Computation of Roman Road Network

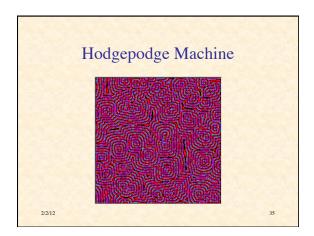


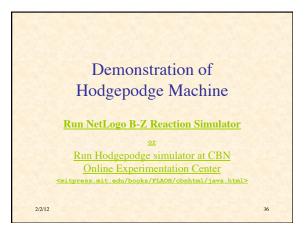


2/2/12 Strano, Adamatzky & Jones, Int. J. Nanotech. & Mol. Comp., in press 32









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## Universal Properties

- What leads to these expanding rings and spirals in very different systems?
- Under what conditions do these structures form?
- What causes the rotation?
- These are all examples of excitable media

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	Reading	
	Read Flake, ch. 18	
2/2/12	2D	38