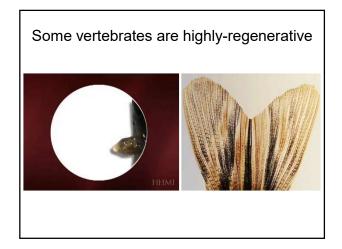
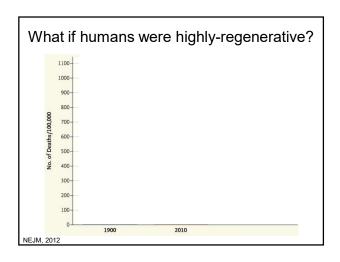


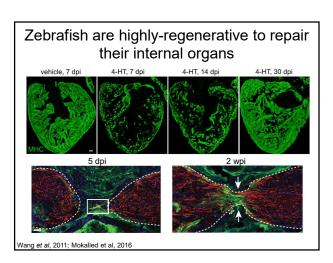
Topics for today

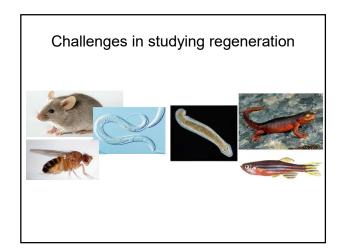
- 1.為什麼要研究再生?
- 2.如何利用斑馬魚研究再生?
- 3.人類有一天也可以斷肢再生嗎?

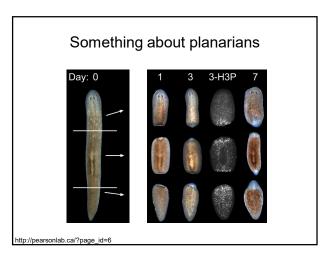


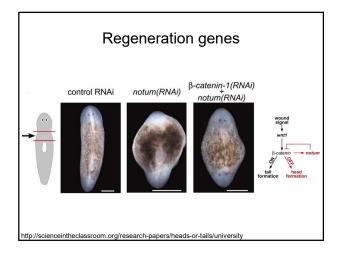


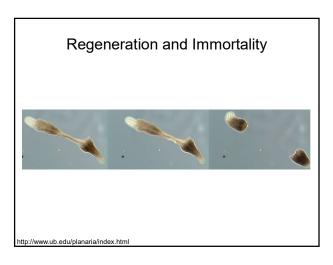


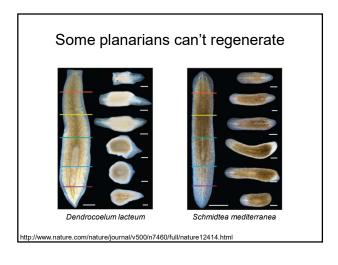


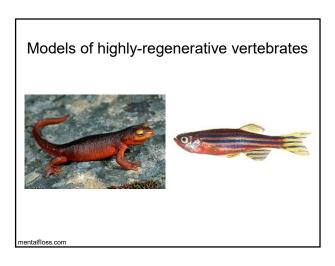


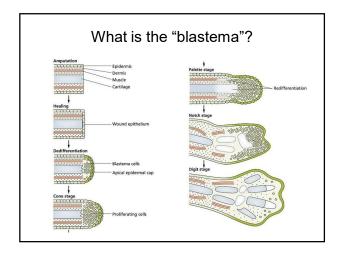


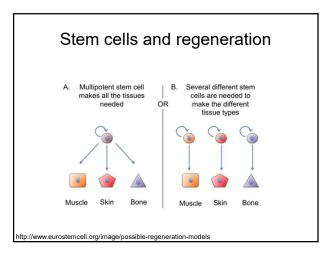


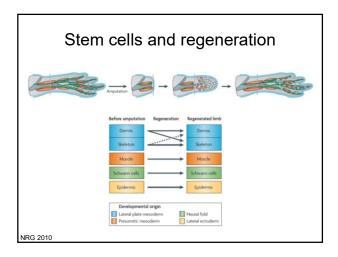


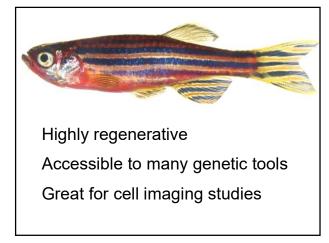


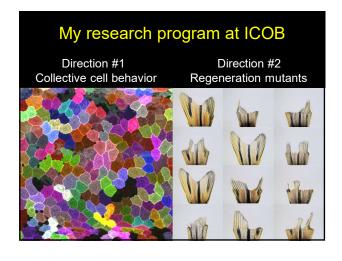


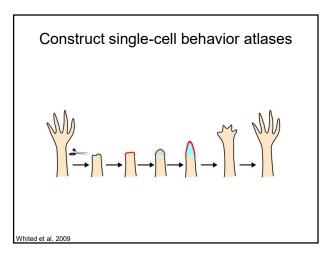




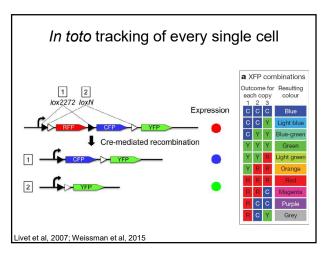


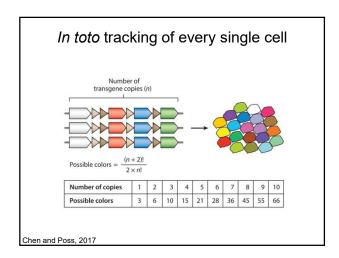




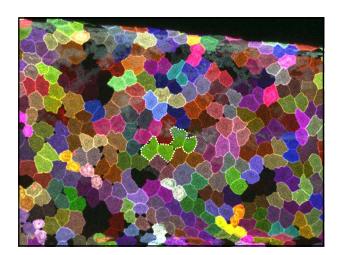


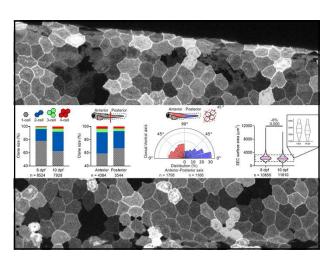


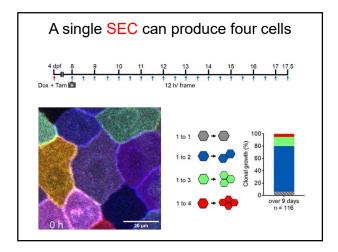


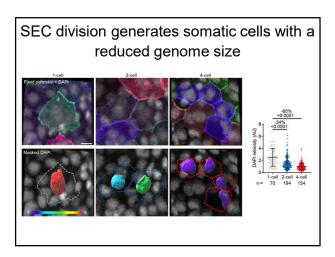


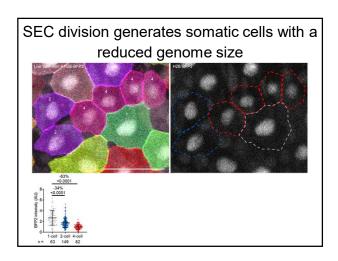












How did we come up with the name?

<u>Asynthetic Fission</u>

"a" as a prefix means "opposite"

"fission" means "splitting into two or more"

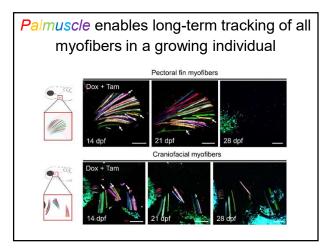
Chan et al., Nature 2022, PMID: 35477758

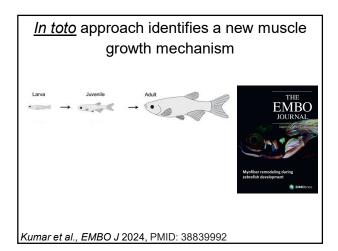
基礎研究

- 1. 正常細胞分裂- 發育 生長 繁殖 再生
- 2. 不正常細胞分裂- 癌症 疾病 老化
- 3. <u>明顯的例外</u>-基礎細胞分裂機制的研究
- 4. 斑馬魚是脊椎動物 其它細胞或物種

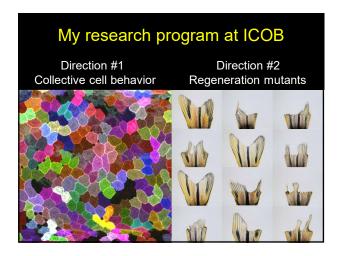




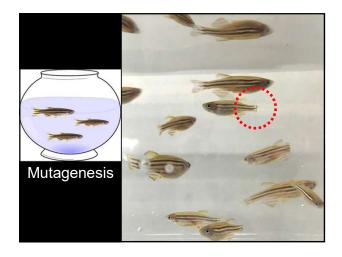


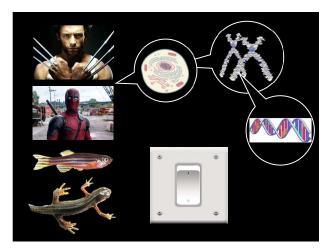


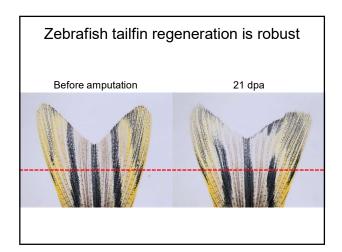
Any questions for the first part?

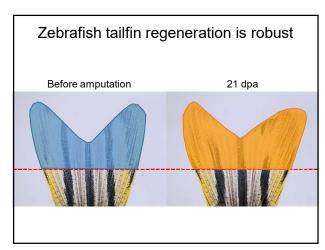


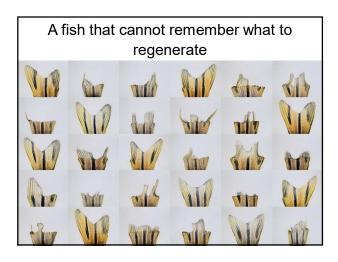


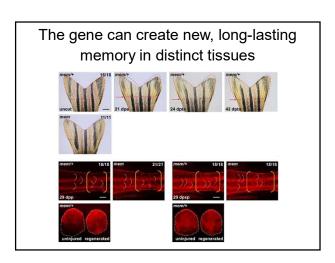


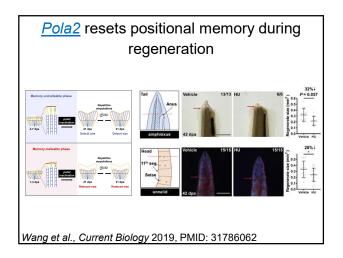


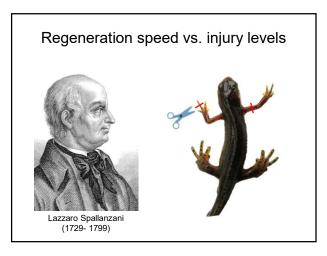


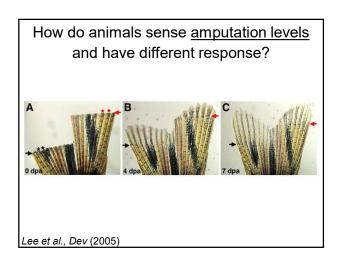


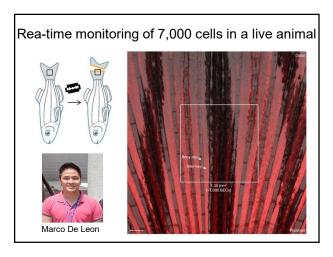


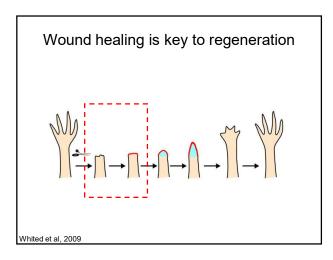


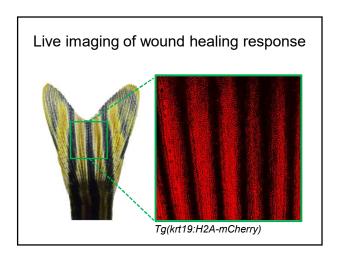


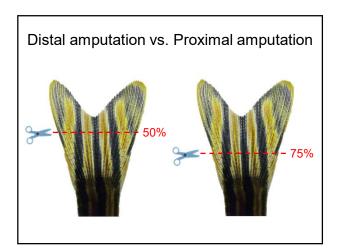


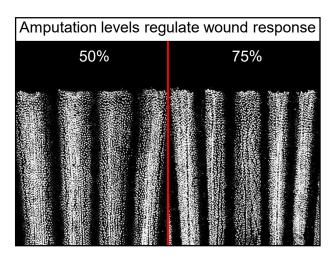


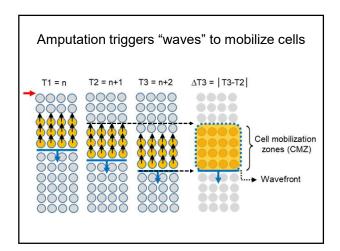


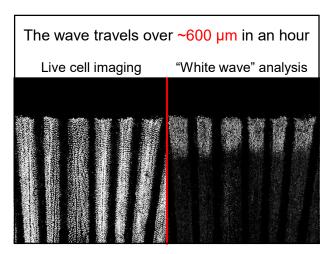


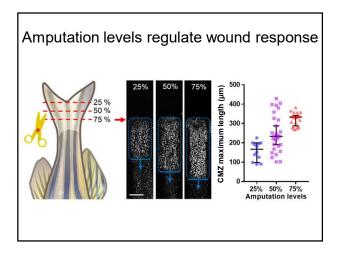


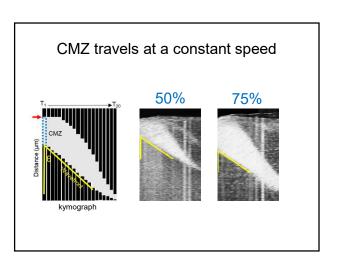


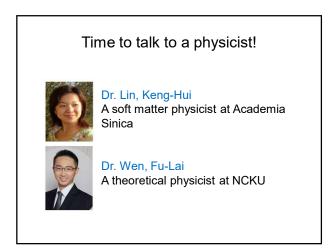


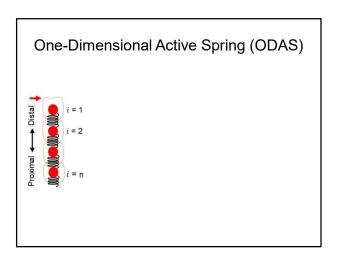


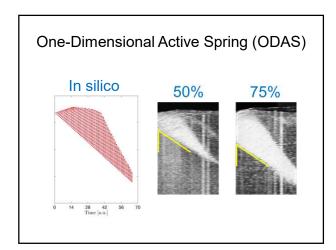


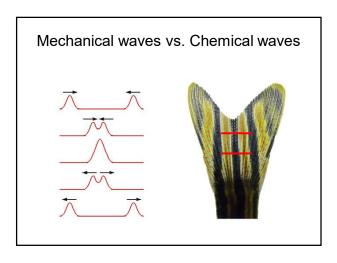


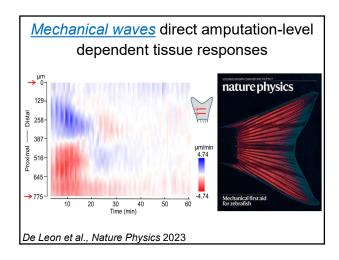


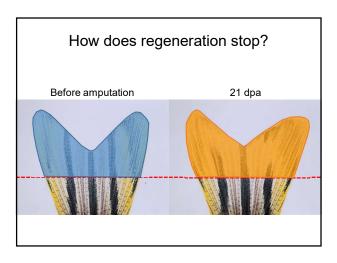


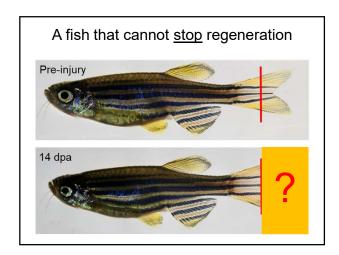


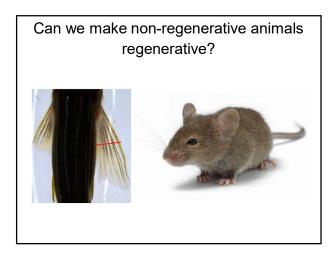


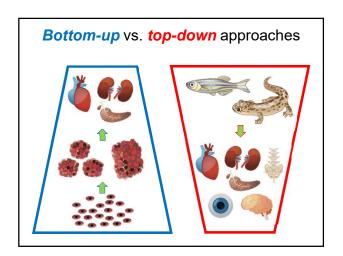












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