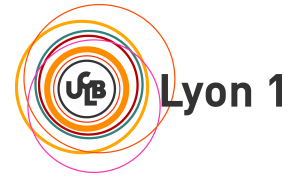


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LES SÉMINAIRES DE L'INMG

*Live imaging of regenerating legs: cell
dynamics and progenitors*

Par

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<https://averof-lab.org/web/research.html>

**Vendredi 10 novembre 2017
11 heures**

**Amphithéâtre
CNRS Rhône Auvergne
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69100 Villeurbanne
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Abstract :

Regeneration is a complex and dynamic process, mobilising diverse cell types and remodelling tissues over a long time period. Compared with embryonic development, it is less genetically tractable and less accessible for direct observation. I will describe our recent efforts to establish a small crustacean, *Parhyale hawaiensis*, as an experimental model for studying regeneration. Using transgenic markers and live imaging we are starting to describe the cell behaviours and progenitors that underpin limb regeneration. We find that crustacean limb regeneration relies lineage-committed progenitor cells: muscles derive from satellite-like stem cells, whereas epidermis regenerates from existing epidermal cells.

Publications :

Konstantinides N and Averof M (2014) A common cellular basis for muscle regeneration in arthropods and vertebrates. *Science* 343: 788-791 [PubMed](#)

Alwes F, Enjolras C and Averof M (2016) Live imaging reveals the progenitors and cell dynamics of limb regeneration. *eLife* 5: e19766 [PubMed](#)