Benefits of 'zombie' cells: Senescent cells aid regeneration in salamanders

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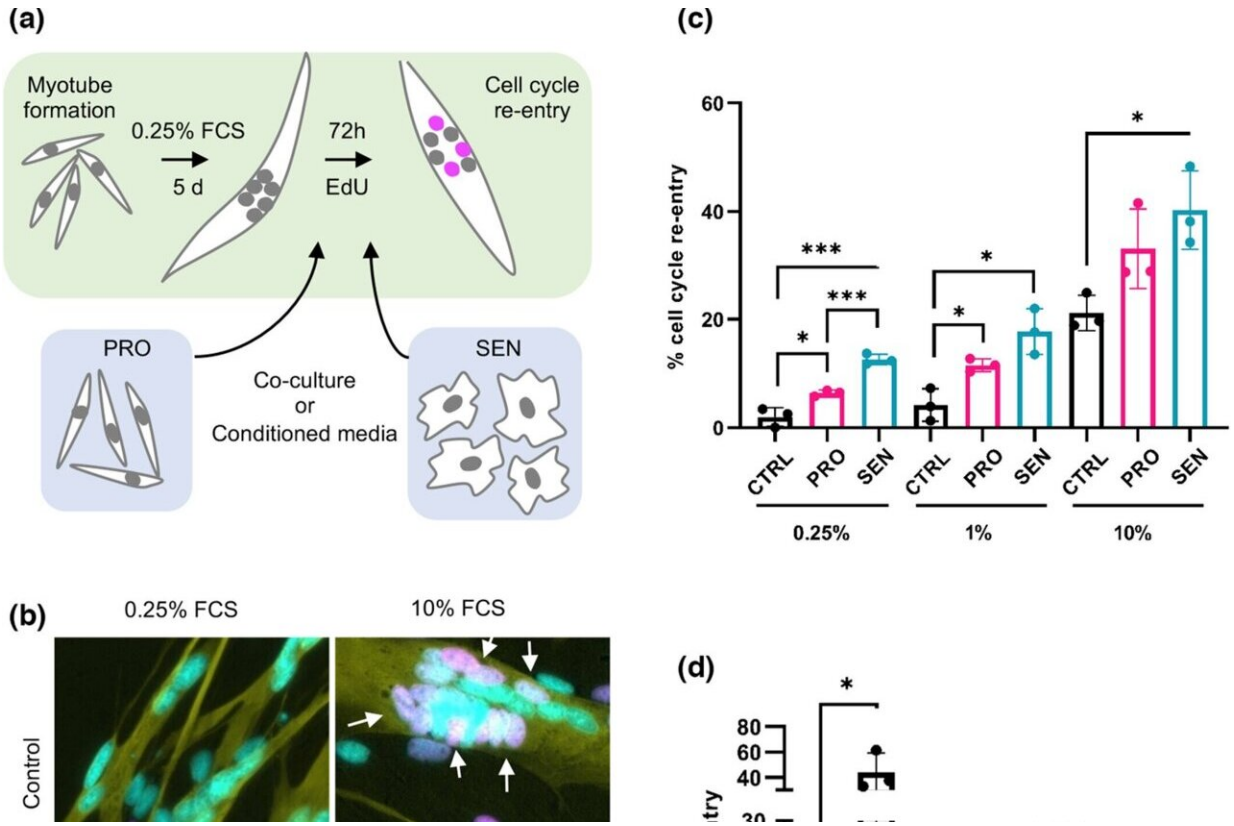

Senescent cells promote dedifferentiation of newt myotubes through a paracrine mechanism. (a) Schematic representation of the experimental set-up. (b) Representative images of myotubes following immunostaining against MyHC (yellow), EdU (magenta) and Hoechst (cyan) labeling. White arrows indicate EdU+ nuclei within myotubes. (c) Quantification of the proportion of myotube nuclei undergoing cell cycle re-entry for the indicated conditions, 72 h post-treatment. PRO and SEN indicate co-culture with the respective cell populations. (d) Quantification of the proportion of myotube nuclei undergoing cell cycle re-

entry for the indicated conditions, 72 h post-treatment. Myotubes were co-cultured or treated with conditioned media derived from the indicated populations. Two-tailed unpaired student's t tests were used to compare data sets (*p