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David, Helen and Marian Woodward Award

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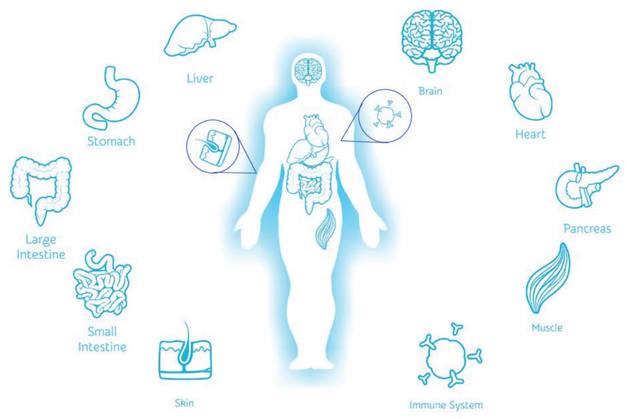
Neuropeptides influence regeneration and stem cell function

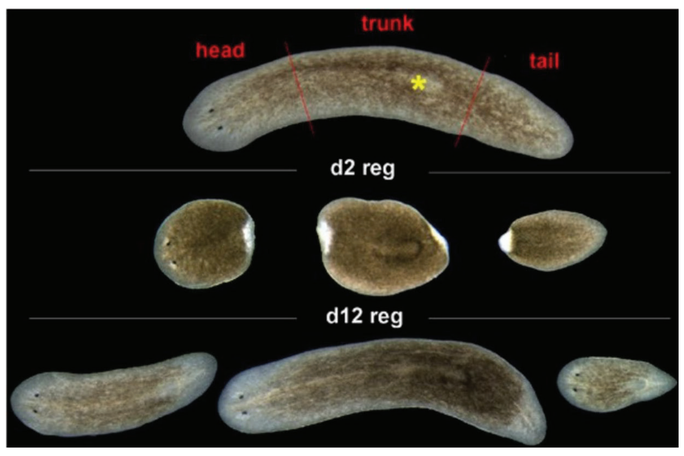
By using an animal capable of robust regeneration we can elucidate how neuropeptide signaling influences both regeneration and stem cell function.

Advancements in regeneration could lead to therapies for injury and disease



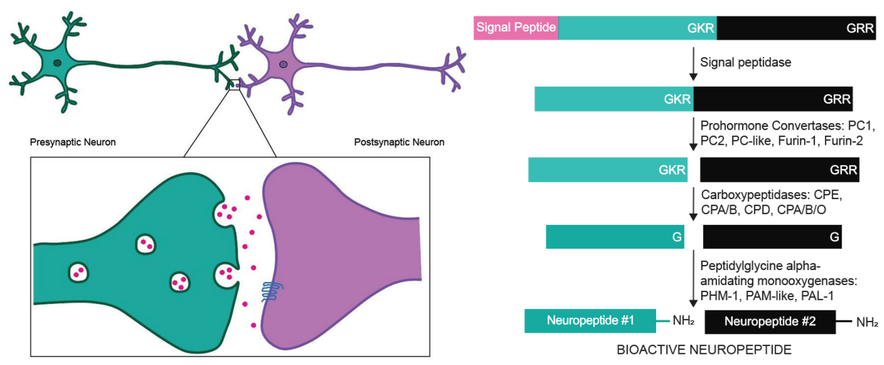
Organs: ©Alexandragl

What are planarians?

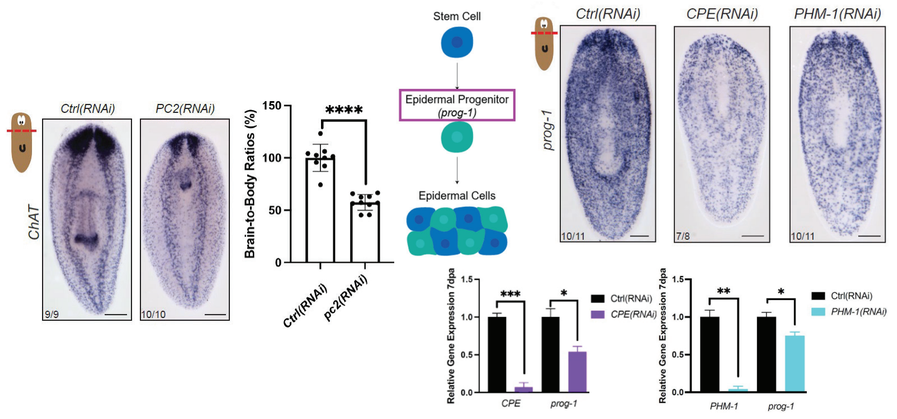


Adell et al., 2014.

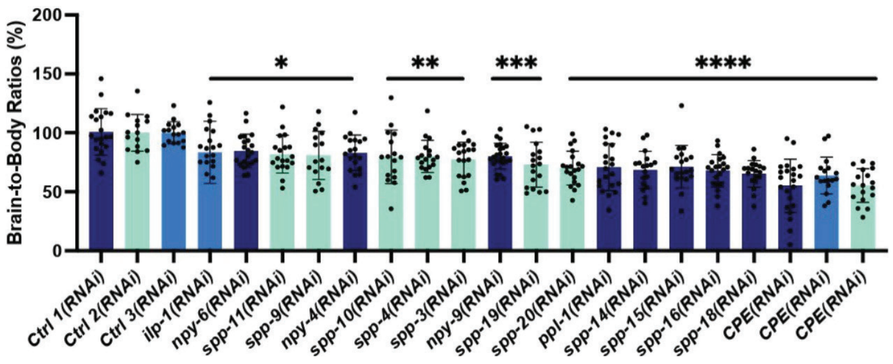
Neuropeptides act as neuromodulators and signaling molecules



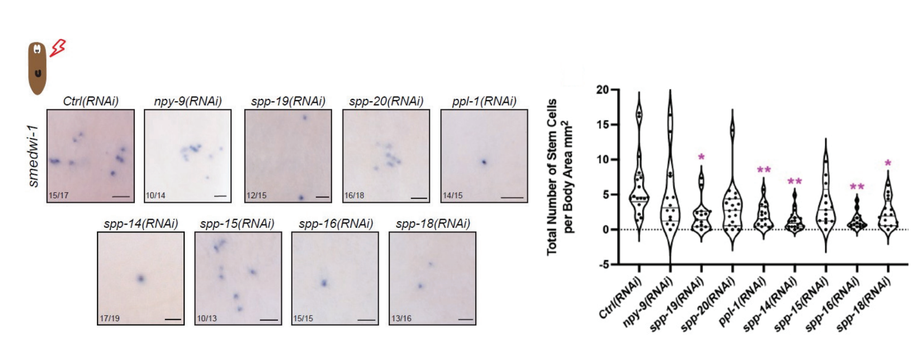
Neuropeptide processing enzymes influence brain regeneration and stem cell function



Neuropeptides are needed for successful brain regeneration



Neuropeptides are necessary for stem cell survival



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