Cologne Evolution Colloquium

SFB 680 Molecular Basis of Evolutionary Innovations

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Pair-rule patterning in Drosophila: what does it tell us about short-germ segmentation?

In Drosophila, segments are patterned simultaneously during the blastoderm stage ("long-germ" segmentation). In contrast, most arthropods pattern their segments sequentially, coincident with posterior growth ("short-germ" segmentation). In both cases, patterning is carried out by a group of transcription factors known as the "pair-rule" genes. The regulation of the pair-rule genes is thought to be very different in short-germ versus long-germ segmentation. In my talk, I will present new findings from Drosophila that suggest this is not the case. I will also propose a simple model for how long-germ segmentation may have evolved from short-germ segmentation.

Wendnesday, May 4, 2016, 17:00
University of Cologne, Institute for Genetics
Seminar Room 0.46

Hosted by **Matt Benton and Siegfried Roth**