

Vangl2 promotes the formation of long cytonemes to enable distant Wnt/ β -catenin signalling

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Description of additional supplementary information

Title: Supplementary Movie 1A:

Description: 3D rotation of clonal cells in a *Tg(vangl2:GFP-Vangl2)* embryo at 5hpf. Clonal cells express mem-mCherry to show Vangl2-GFP on cytoneme tips. Example A. Scale bar 10 μ m.

Title: Supplementary Movie 1B:

Description: 3D rotation of clonal cells in a *Tg(vangl2:GFP-Vangl2)* embryo at 5hpf. Clonal cells express mem-mCherry to show Vangl2-GFP on cytoneme tips. Example B. Scale bar 10 μ m.

Title: Supplementary Movie 2A:

Description: 3D rotation of clonal cells in a *Tg(vangl2:GFP-Vangl2)* embryo at 5hpf. Clonal cells express Ror2-mCherry to show Vangl2-GFP on cytoneme tips. Example A. Scale bar 10 μ m.

Title: Supplementary Movie 2B:

Description: 3D rotation of clonal cells in a *Tg(vangl2:GFP-Vangl2)* embryo at 5hpf. Clonal cells express Ror2-mCherry to show Vangl2-GFP on cytoneme tips. Example B. Scale bar 10 μ m.

Title: Supplementary Movie 3:

Description: 3D rotation of clonal cells in a zebrafish embryo at 5hpf. Clonal cells express Wnt8a-GFP and mem-mCherry to show Wnt8a positive cytonemes. Scale bar 10 μ m.

Title: Supplementary Movie 4:

Description: 3D rotation of clonal cells in a zebrafish embryo at 5hpf. Clonal cells express Wnt8a-GFP and Vangl2 and mem-mCherry to show multiple contact points of Wnt8a positive cytonemes. Scale bar 10 μ m.

Title: Supplementary Movie 5:

Description: 3D rotation of clonal cells in a zebrafish embryo at 5hpf. Clonal cells express Wnt8a-GFP and Vangl2^{10A} and mem-mCherry to show fewer Wnt8a positive cytonemes. Scale bar 10 μ m

Title: Supplementary Movie 6:

Description: 3D rotation of clonal cells in a zebrafish embryo at 5hpf. Clonal cells express Wnt8a-GFP and Vangl2 and IRSp53^{4K} and mem-mCherry to show fewer Wnt8a positive cytonemes and ruffled protrusions. Scale bar 10 μ m

Title: Supplementary Movie 7:

Description: Zebrafish PAC2 cells transfected with Wnt8a-GFP and mem-mCherry. Time stamp and scale bar (30 μ m) included in movie. 3 frames/second.