

SFB 960-/BZR – Kolloquium

03. November 2015, 17.00 Uhr
H53

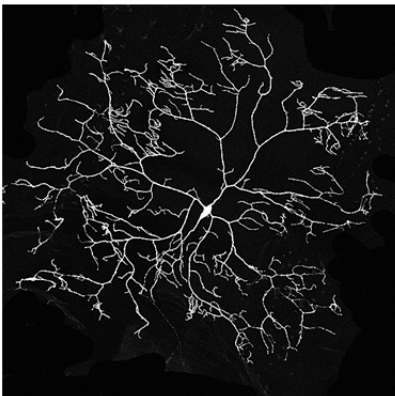
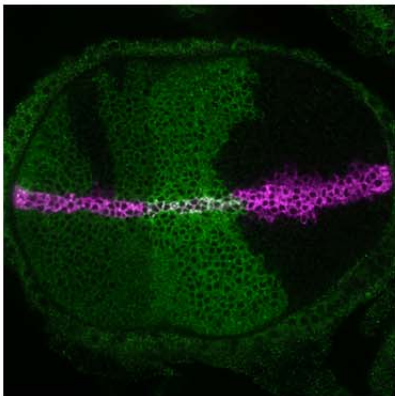


Dr. Phillip Port

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Novel CRISPR tools to investigate post-transcriptional gene regulation in neurons

Modern genome editing technologies allow the targeted manipulation of genomes with unprecedented ease and precision. It is now possible to introduce novel mutations at single nucleotide resolution and to integrate exogenous sequences at predefined loci. We have developed a comprehensive toolbox for CRISPR/Cas genome engineering in the model organism *Drosophila melanogaster*, consisting of transgenic *cas9* strains and versatile gRNA expression plasmids. I will discuss how these tools can be used for various applications, including germ line mutagenesis, precise knock-ins and tissue specific genetic screens. I will also present how we use genome engineering to gain novel insights into the mechanism and functional relevance of mRNA localisation in the nervous system.



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