

PhD position in Spine Regeneration and Axial Skeletogenesis

available at the **Institute of Cardiovascular Organogenesis and Regeneration, WWU Münster (Germany)**

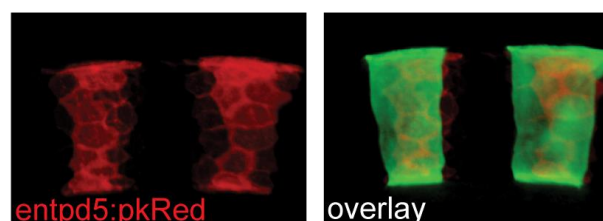
in the research group of **Prof. Stefan Schulte-Merker**

<https://www.medizin.uni-muenster.de/icor/research/>

We offer an exciting international research environment to study the genetic and cellular mechanisms that govern spine formation and spine regeneration. By using genetic approaches (zebrafish, mice) combined with high-resolution confocal live-imaging we are investigating the mechanisms of spine formation and regeneration at cellular and molecular resolution.

The PhD project will involve the generation of tissue specific and inducible knock-out models in zebrafish and state-of-the-art in vivo imaging approaches to dissect genetic pathways governing osteoblast behaviour during development and regeneration.

We are looking for highly motivated candidates with a solid background in genetics, molecular biology and cell biology. Experience working with zebrafish and mice is desired but not mandatory. Fluency in spoken and written English is required.



Lleras Forero, L., et al., Schulte-Merker, S. (2018) Segmentation of the axial skeleton relies on notochord sheath cells and not on the segmentation clock. **eLife** <https://elifesciences.org/articles/33843>

Wopat, S, et al. (2018) Spine Patterning is Guided by the Notochord Sheath. **Cell Reports**, 22, 2026-2038.

Lopez-Baez, JC, et al. (2018) Wilms Tumor 1b defines a wound-specific sheath cell population associated with notochord repair. **eLife** <https://elifesciences.org/articles/30657>

Please send your complete application documents (CV, references) electronically to:

schultes@ukmuenster.de