

STMS Project Report

Sex development staging in European eel by testis germ cell determination.

This research stage has taken place on May 21-29, 2016. We have studied European eel testis sections and Luz Pérez has been trained in differentiating the different germ cell types, based on their morphology (e.g. staining, size and shape of the nuclei, presence and thickness of chromosomes and their contact with the inner nuclear membrane), and organization inside the spermatogenic cysts. Also, she has received training in the quantification of the different germ cell types using ImageJ. Future staging of European eel testis will be based on quantifying the proportion of the different germ cell types.

Finally, Luz Pérez has been trained in testis immunostaining with BrDU, and had a first overview in the testis culture system we have developed for adult zebrafish.

A handwritten signature in black ink, reading "Rüdiger Schulz". The signature is written in a cursive style with a large, stylized 'S' at the end.

Utrecht, May 29th 2016

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