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Wulff, Tune; Nielsen, Michael Engelbrecht

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Regulation of annexins following infection like tissue damage – investigated by 2-dimensional gel electrophoresis

Tune Wulff and Michael Engelbrecht Nielsen
National Food Institute, Technical University of Denmark

Experimental model system

Result overview

Design: 14 rainbow trouts (640 g, 34 cm) were used for the experiment. Seven fish were injured and seven fish were uninjured followed by sampling at day 7. Samples were taken from the muscle tissue above the lateral line anterior to the dorsal fin. The colours indicate the different comparisons made within the experimental setup: Internal control v. wounding, External control v. wounding and Internal control v. external control.

Method

Number of proteins changing between the three comparisons presented in the experimental design. Differences are established based on a paired T-test (Internal control v. wounding) and a unaired T-test (External control v. wounding and Internal control v. external control).

Conclusion

- Annexin-4 and -5 are regulated by wounding
- Based on the interaction assigned in STRING following wounding Annexin-4 and 5- involved in regulating:
  - Muscle structure
  - Iron metabolism
  - Energy metabolism