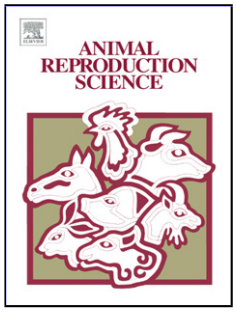

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Effect of carp pituitary homogenate (CPH) and sGnRHa (Ovaprim) on northern pike (*Esox lucius*) spermiation stimulation and its effect on quantity and quality of sperm

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Highlights

- Hormonal treatment had a positive effect on sperm maturation in northern pike, regardless of the hormonal preparation used
- The highest progressive motile sperm, straight-linear velocity and movement linearity was noted in fish treated with Ovaprim
- It was possible to collect sperm from non-hormonally manipulated fish however only a small amount of sperm characterised by lowered progressive motile sperm was noted.
- Seminal plasma osmotic pressure is a crucial regulatory factor determining northern pike sperm quantity and quality