

## INFLUENCE OF DIFFERENT FACTORS ON SPERM CAPACITATION AND ACROSOME REACTION

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**Summary.** The research was done in the Laboratory of Animals Reproduction of Lithuanian Veterinary Academy. The aim of the investigation was to determinate the best factors for bull sperm capacitation and acrosome reaction. Many research apply different factors in the reaction we intend to detect only the most favourably acting factors. 14 factors were applied in our tests. It was determined that the best factors for bull sperm capacitation were BSA (x8)  $p < 0,01$ , follicular fluid (x8)  $0,1 < p < 0,05$  and coffeinum (x8)  $0,2 < p < 0,1$ . The influence of the other factors was unreliable.

Sperm acrosome reaction was most positively influenced by heparin, progesterone and capacitation time. A detailed investigation of these factors is intended.

**Keywords:** spermatozoa, capacitation, acrosome reaction.