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Semen Evaluation: Potential Predictor for Fertilization Capacity in Animals

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Abstract:

Semen may be assessed for use in artificial insemination, infertility issues, and as part of the standard reproduction soundness assessment. The economic significance of farm animals having excellent breeding efficiency highlights the need for precise semen fertility prediction. The traditional metrics that have received the greatest emphasis have been the sperm concentration, motility, and morphology in the ejaculate. All these characteristics, however, do not address sperm function, and their clinical usefulness in predicting fertility is debatable. In a previous issue, Albaqly et al. reported that sperm patterns of abnormal semen deteriorated in motility, concentration, morphology, and viability, which demonstrated its low fertilization capacity. The results of several laboratory assessments or the simultaneous analysis of various sperm characteristics must be integrated to find the overall influence of multiple independent sperm parameters in order to boost the prediction ability of the assessment.



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