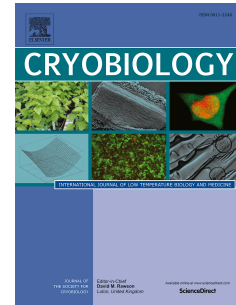


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Effect of trehalose- and sucrose-based extenders on equine sperm quality after vitrification: Preliminary results

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1 **Effect of trehalose- and sucrose-based extenders on equine sperm quality after**  
2 **vitrification: preliminary results**

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15  
16  
17 **ABSTRACT**

18 There has been a lack of research into equine sperm vitrification to date, but studies  
19 of other species suggest it may have significant potential. To evaluate the impact of  
20 various cryoprotectant agents (CPA) and vitrification on equine sperm quality, a  
21 controlled study was carried out. A total of 12 ejaculates were subjected to exposure  
22 to CPA and vitrification. Sperm was diluted in a range of CPA: fresh, control (BSA),  
23 sucrose (0.15M, 0.3M and 0.5M), trehalose (0.15M, 0.3M and 0.5M) and the  
24 combination of sucrose and trehalose (M1: 0.15M sucrose+0.5M trehalose; M2: 0.5M

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