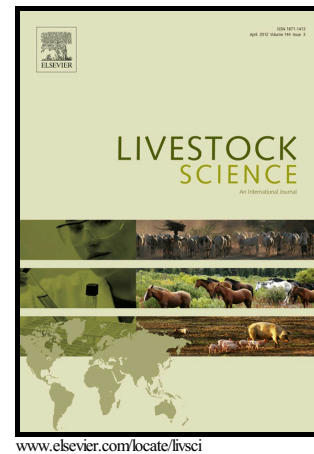


## Author's Accepted Manuscript

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PII: S1871-1413(17)30334-7  
DOI: <https://doi.org/10.1016/j.livsci.2017.11.005>  
Reference: LIVSCI3343

To appear in: *Livestock Science*

Received date: 15 March 2017  
Revised date: 20 October 2017  
Accepted date: 2 November 2017

Cite this article as: José Oliveira Carvalho, Roberto Sartori, Leandro Rodello, Gerson Barreto Mourão, Sony Dimas Bicudo and Margot A. Nunes Dode, Flow cytometry sex sorting affects bull sperm longevity and compromises their capacity to bind to oviductal cells, *Livestock Science*, <https://doi.org/10.1016/j.livsci.2017.11.005>

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**Flow cytometry sex sorting affects bull sperm longevity and compromises their capacity to bind to oviductal cells**

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**Abstract**

This study assessed the effect of flow cytometry sexing on sperm longevity and the capacity of sperm to bind to oviductal cells. Each ejaculate from four bulls was divided into two fractions: the first was immediately frozen as non sexed sperm (NS) and the second was sexed originating X- and Y-bearing sperm. The fourth treatment had sex-sorted X and Y sperm (XY) combined. Sperm from each group was assessed for sperm characteristics after thawing, after washing and at 2, 4, 8 and 12 h of incubation at 39°C in 5% CO<sub>2</sub> in air. For the binding test, sperm were incubated in sp-TALP medium for 30 min or 24 h with oviductal explants. Percentages of motility ( $58.1 \pm 4.3$  and  $35.2 \pm$

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