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Influence of breed and seminal plasma on criopreservation of rooster (*Gallus gallus domesticus*) sperm. Castaño, C.; Romo, S.; Toledano-Díaz, A.; Gil, M. G.; Estesó, M. C.; López-Sebastián, A.; Santiago-Moreno, J. ; Olaizola Tolosana, A. M.; Albecia Martínez, A.; Blanco Alibés, M.; Bernués Jal, A.; Calvo Lacosta, J. H.; Latorre Górriz, M. A.; Palacio Liesa, J.; Ripoll García, G. ; Asociación Interprofesional para el Desarrollo Agrario , Zaragoza , Spain , XVII Jornadas sobre Producción Animal, Zaragoza, España, 30 y 31 de mayo de 2017 , 2017 , pp. 411-413

http://www.aida-itea.org/aida-itea/files/jornadas/2017/Libro%20Jornadas_AIDA%202017.pdf
<https://www.cabdirect.org/cabdirect/abstract/20173312837>

It is not well known the role of seminal plasma on freezing-thawing process in roosters (*Gallus gallus domesticus*). The aims of the present study were conducted to evaluate the influence of breed and the presence of seminal plasma on sperm viability of fresh and frozen-thawed sperm. We used pool semen samples from 12 Spanish chicken breeds (Black-Barred Andaluza, Black-Red Andaluza, Blue Andaluza, Black Castellana, Buff Prat, White Prat, Red-Barred Vasca, Red Villafranquina, Birchen, Leonesa, White-Faced Spanish, Quail Castellana and Quail Silver Castellana). Sperm viability was assessed by Propidium iodide and SYBR-14 as fluorochromes. Ours findings didn't reveal significant differences in fresh sperm viability among breeds. There weren't differences among breeds in freezing-thawing response of samples without seminal plasma. Sperm samples with seminal plasma returned highest viability data in White Prat. In contrast, the presence of seminal plasma returned lowest results in Black-Red Andaluza.

Editor(s): Olaizola Tolosana, A. M.; Albecia Martínez, A.; Blanco Alibés, M.; Bernués Jal, A.; Calvo Lacosta, J. H.; Latorre Górriz, M. A.; Palacio Liesa, J.; Ripoll García, G.

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Journal article: XVII Jornadas sobre Producción Animal, Zaragoza, España, 30 y 31 de mayo de 2017 2017 411-413

ISBN: 9788469730652

Publisher information: Asociación Interprofesional para el Desarrollo Agrario Zaragoza Spain

Language of Text: Spanish

URL: http://www.aida-itea.org/aida-itea/files/jornadas/2017/Libro%20Jornadas_AIDA%202017.pdf

URL: <https://www.cabdirect.org/cabdirect/abstract/20173312837>

Geographic Location: Spain

Organism descriptor(s): birds, fowls, *Gallus gallus*

Descriptor(s): breed differences, cryopreservation, fowl breeds, freezing, poultry, semen, semen preservation, seminal plasma, spermatozoa, thawing

Identifier: chickens, domesticated birds, sperm, sperm viability

Broad terms: Gallus gallus, Gallus, Phasianidae, Galliformes, birds, vertebrates, Chordata, animals, eukaryotes, Developed Countries, European Union Countries, Mediterranean Region, OECD Countries, Southern Europe, Europe

Record Number: 20173312837

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