

RELATION OF POST-THAW SPERM DNA DAMAGE AND LIPID PEROXIDATION WITH FREEZABILITY IN BOARS

J. Gómez-Fernández¹, C. Tomás², E. Mocé², E. Gómez-Izquierdo¹, E. de Mercado¹

¹ Centro de Pruebas de Porcino, ITACyL. Hontalbilla (Segovia). Spain.

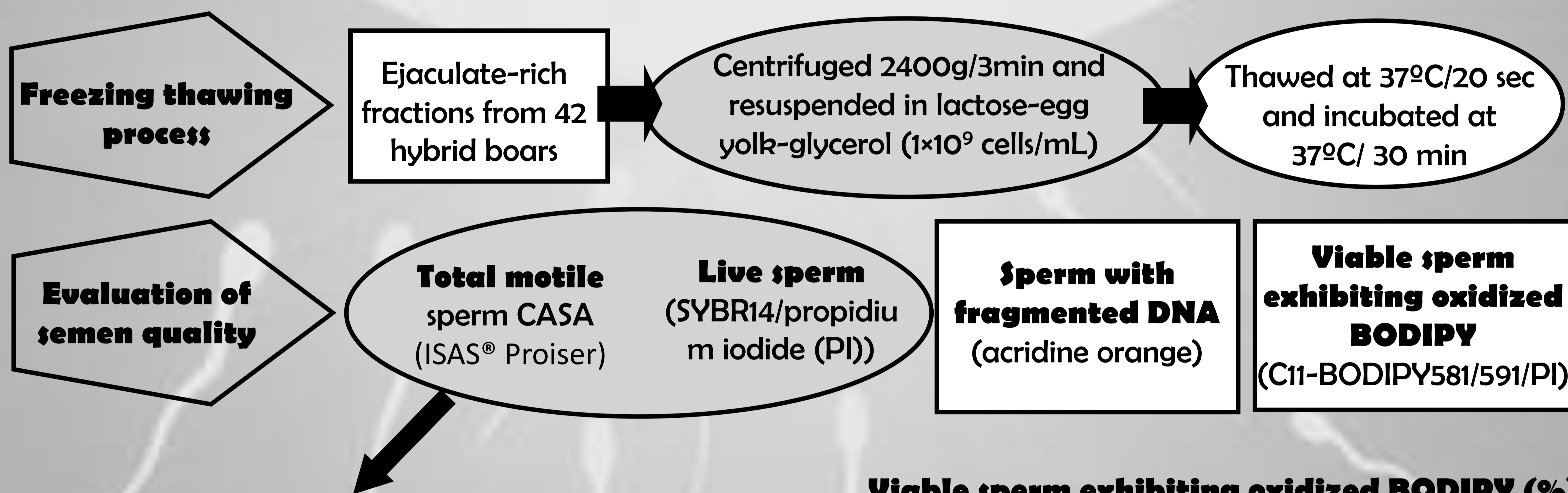
² CITA-IVIA. Segorbe (Castellón). Spain



Introduction and Aims

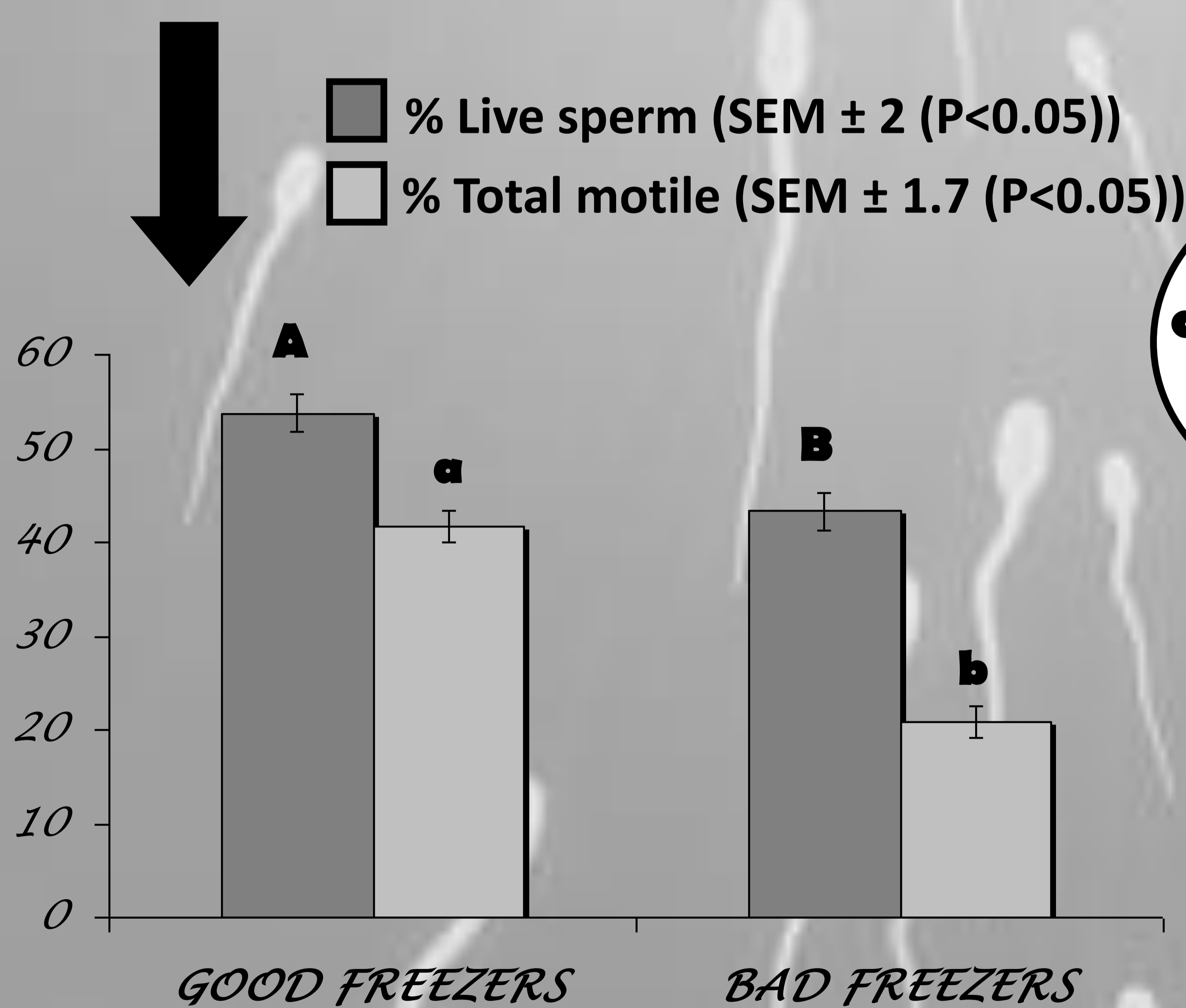
The cryopreservation process may induce reactive oxygen species formation in the sperm that provokes membrane lipid peroxidation (LP) and DNA damage. The aim of this study was to determine if the post-thaw sperm DNA damage and the LP could be related to the freezability in boars

Material and Methods

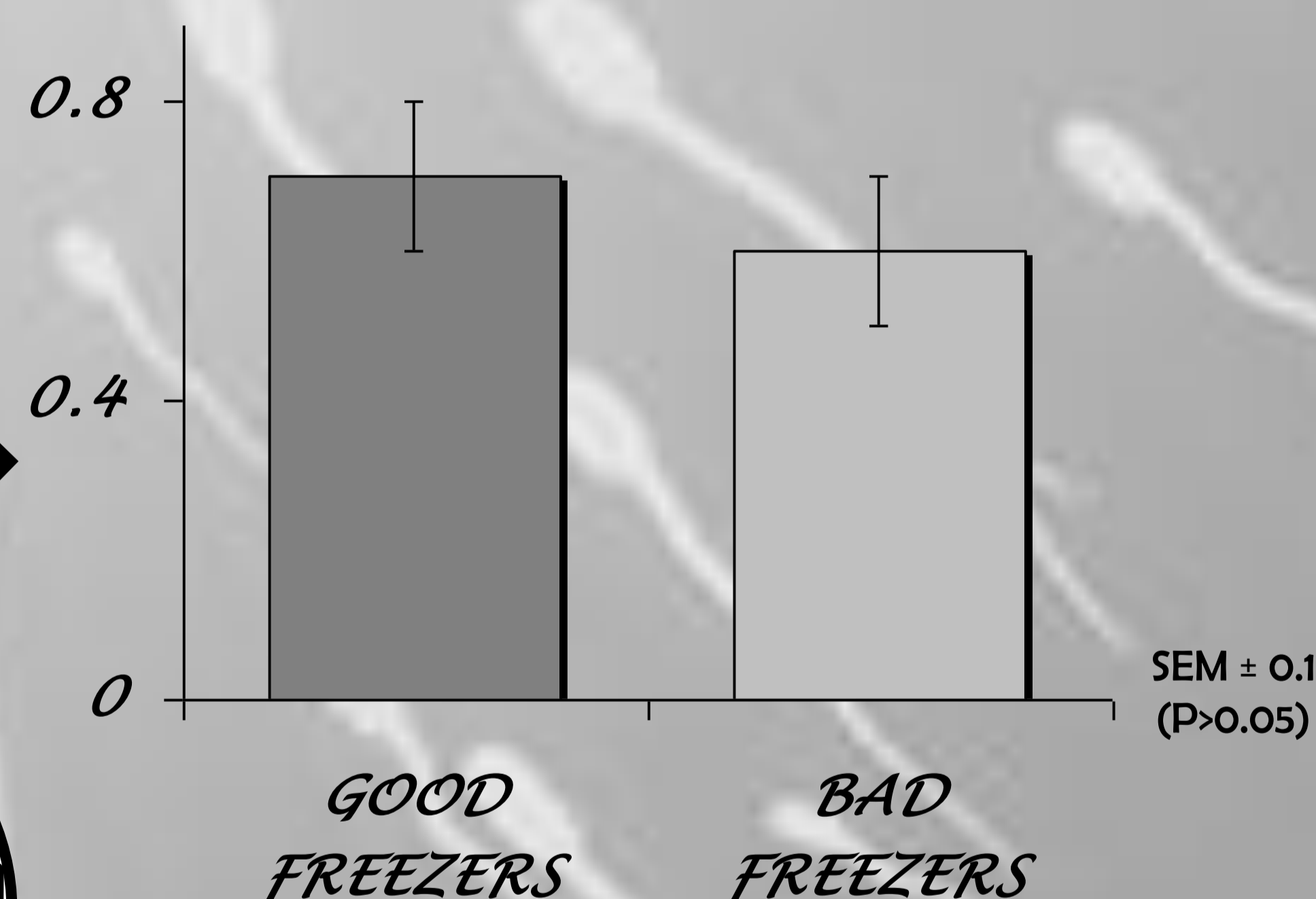


Two groups of sperm were determined according to freezability (G: Good freezability, and B: Bad freezability)

Results



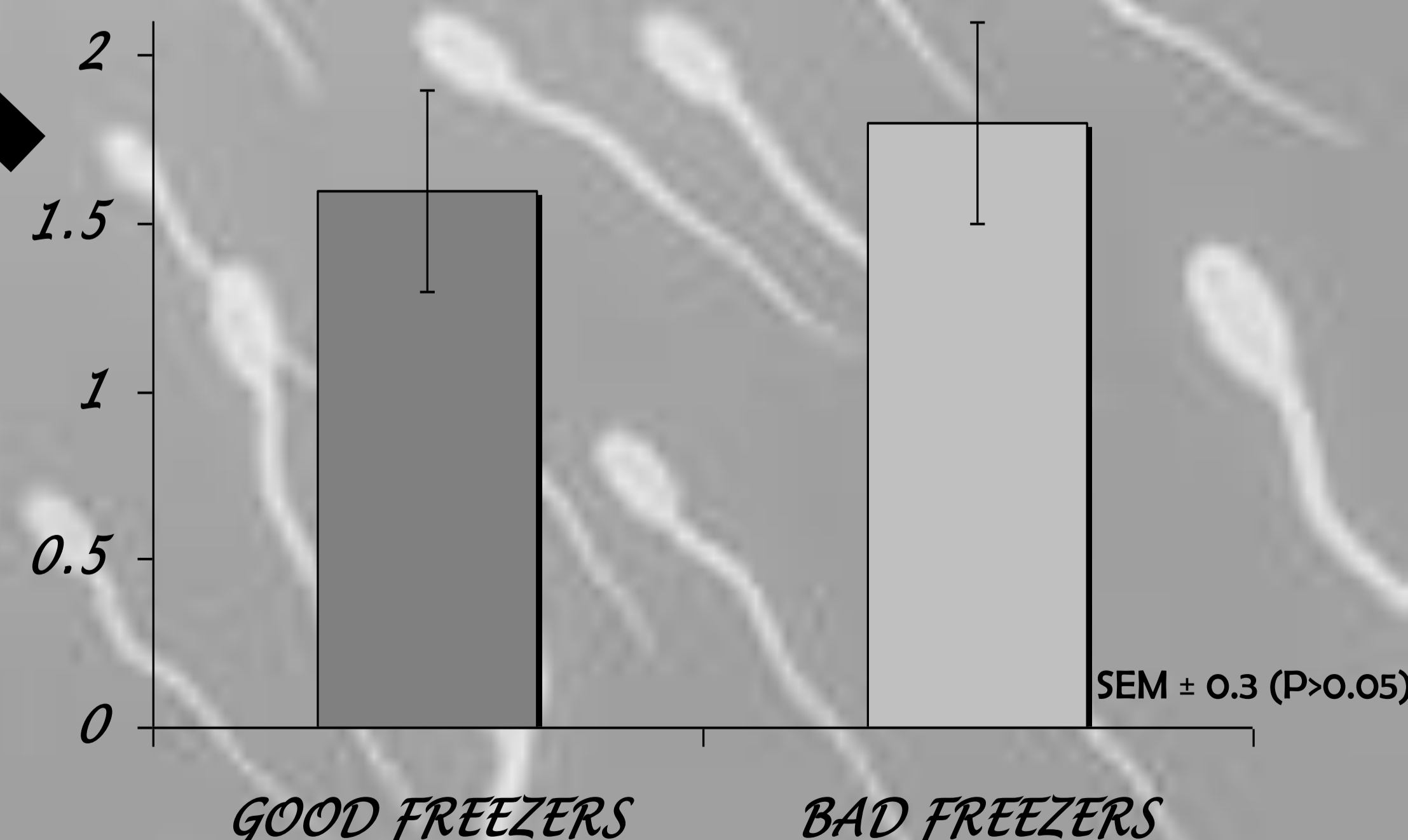
Viable sperm exhibiting oxidized BODIPY (%)



There are not differences

Were not correlated with the Freezing Group

Sperm with fragmented DNA (%)



There are not differences

Conclusion

The relation between boar sperm freezability and the post-thaw DNA damage and lipid peroxidation seems unlikely