

Córdoba

13-16 June 2012



nta de Castilla y León Conseiería de Agricultura v Ganaderí

RELATION OF THE REACTIVE OXYGEN SPECIES IN SEMINAL PLASMA WITH BOAR SPERM FREEZABILITY





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

¹ Centro de Pruebas de Porcino, ITACyL. Hontalbilla (Segovia). Spain. ² CITA-IVIA. Segorbe (Castellón). Spain

Introduction

Boar sperm have a high content of polyunsaturated fatty acids which are susceptible to lipid peroxidation in the presence of the reactive oxygen species (ROS). Furthermore it is known that incubation of sperm with the seminal plasma (SP) has an important role in future resistance to the process of

Aims

The aim of this study was to determine the possible relationship between levels of ROS in Seminal Plasma with the freezability of boar sperm

cryopreservation.

Material and Methods



Results

Sperm quality of groups of freezability



The results showed that there are not differences



resistance to the freezing process

2 groups were

determined by their



% Live sperm

between freezability groups in the amount of ROS in

their seminal plasma

% Total motile sperm



ROS levels in seminal plasma seem not affecting the future freezability of boar sperm