

# BIOLOGY *of* REPRODUCTION

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## Commentary

Who Needs Cytoplasm? Genomic Preservation for the 21st Century ..... Article 140

*William V. Holt*

In this issue of *Biology of Reproduction*, Graves-Herring et al. demonstrate a new method for long-term preservation of the female genome.

## Minireview

INSL3 as a Biomarker of Leydig Cell Functionality ..... Article 147

*Richard Ivell, John D. Wade, and Ravinder Anand-Ivell*

In the male, the peptide hormone INSL3 is uniquely produced by the Leydig cells of the testis in a constitutive and differentiation-dependent manner, acting as an ideal biomarker for testis development and function.

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The first cell segregation into inner cell mass and trophectoderm lineages is maintained in bovine blastocysts but not in mouse blastocysts.

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*Lauro González-Fernández, Beatriz Macías-García, Shavahn C. Loux, Dickson D. Varner, and Katrin Hinrichs*

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*Noelia Mendoza, Adriana Casao, Rosaura Pérez-Pé, José A. Cebrián-Pérez, and Teresa Muiño-Blanco*

Seminal plasma proteins support survival of ram spermatozoa acting not only at the plasma membrane but also by inhibition of capacitation; seminal plasma proteins interfere with the extrinsic and the intrinsic apoptotic pathways.

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