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JOURNAL ARTICLE

Journal of

Validation of an improved in vitro bioassay to measure LH in diverse species

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Cultured Leydig tumor cells (MA-10) respond to luteinizing hormone (LH) by synthesizing and secreting progesterone (P). The specificity of the response to LH prompted us to develop this system for use as a simple and rapid in vitro bioassay for LH. The aims of this study were to (1) improve sensitivity and reproducibility, and (2) optimize the assay for use in diverse animal species. A minimum sensitivity was observed at 0.05 mlU/well of LH with 0.5 x 10(4) cells/well for 1.5



diverse animal species, and should provide insight regarding the role of bioactive LH in physiological and pathological conditions.

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