

10.1071/RD16301\_AC

© CSIRO 2017

Supplementary Material: *Reproduction, Fertility and Development*, 2017, 29(12), 2479–2495.

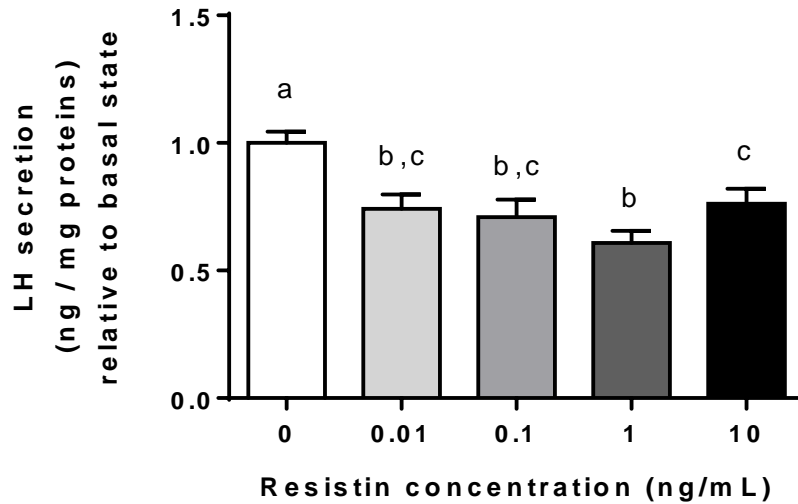
## Supplementary Material

### **Visfatin and resistin in gonadotroph cells: expression, regulation of LH secretion and signalling pathways**

*Virginie Maillard<sup>A,B</sup>, Sébastien Elis<sup>A</sup>, Alice Desmarchais<sup>A</sup>, Céline Hivelin<sup>A</sup>, Lionel Lardic<sup>A</sup>, Didier Lomet<sup>A</sup>, Svetlana Uzbekova<sup>A</sup>, Philippe Monget<sup>A</sup> and Joëlle Dupont<sup>A</sup>*

<sup>A</sup>UMR85 PRC, INRA, CNRS, IFCE, Université de Tours, 37380 Nouzilly, France.

<sup>B</sup>Corresponding author. Email: virginie.maillard@inra.fr



**Fig. S1.** Effects of recombinant mouse resistin (produced in eukaryotic cells and likely to be in the hexameric form) on LH secretion from L $\beta$ T2 gonadotroph cells. Recombinant mouse (rm) resistin (5335-RN), ordered from R&D Systems (Lille, France), was produced in the mouse myeloma cell line NSO and represents the hexameric form of resistin. Using RIA, LH secretion was measured in the culture medium of L $\beta$ T2 cells, which were serum-starved overnight and then cultured in DMEM with 1% antibiotics for 24 h in the presence or not of the rm resistin (0.01, 0.1, 1 and 10 ng mL<sup>-1</sup>). The number of cells per well was estimated by measuring the protein concentration in the cell layer from each well using the BCA protein quantification kit. The results are expressed as the LH concentration (ng mL<sup>-1</sup>)/protein concentration (mg mL<sup>-1</sup>) per well. The data are representative of six independent experiments with each condition in three to five replicates and are presented as mean  $\pm$  s.e. The one-way ANOVA showed significant differences ( $P < 0.0001$ ). Different letters indicate a significant difference (uncorrected Fisher's LSD post-hoc test,  $P < 0.05$ ).