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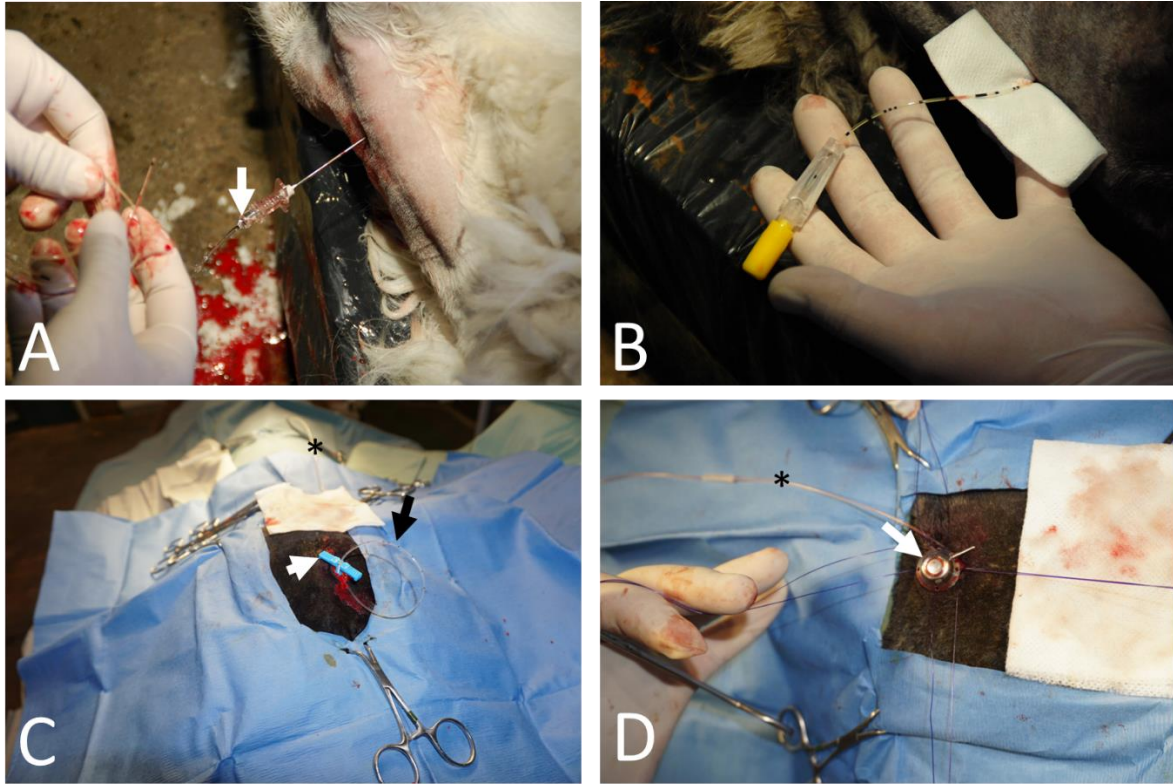
## Supplementary information

### Is seminal NGF-induced LH release in camelids mediated at the hypothalamus?

Carrasco RA<sup>1</sup>, Pezo S<sup>1</sup>, Zwiefelhofer EM<sup>1</sup>, Lanigan EE<sup>1</sup>, Singh J<sup>1</sup>, Berland MA<sup>2</sup>, Ulloa-Leal C<sup>2</sup>,  
Ratto MH<sup>2</sup>, Adams GP<sup>1\*</sup>.

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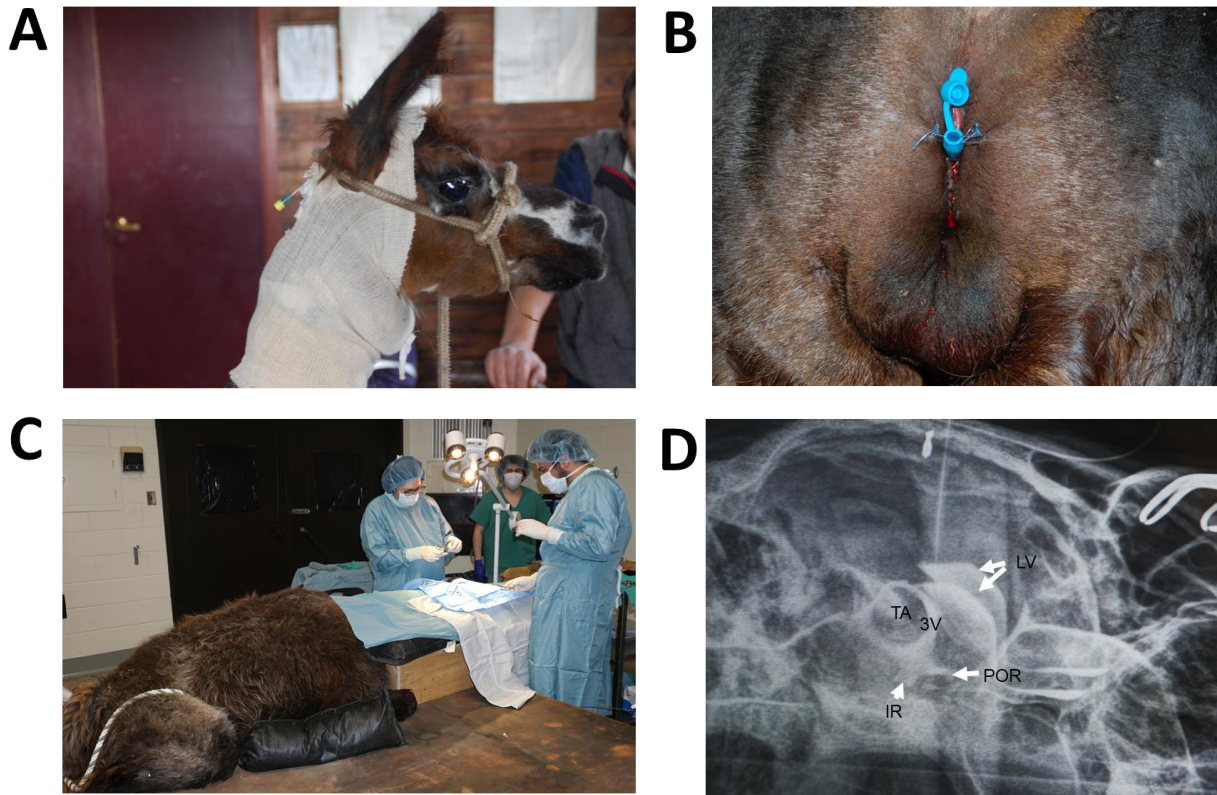
<sup>2</sup> Instituto de Ciencia Animal, Facultad de Ciencias Veterinarias, Universidad Austral de Chile, Valdivia, Chile.



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21 Supplementary Figure 1. Catheterization of the cisterna magna and the lateral ventricle in  
22 llamas. A. Catheter insertion in the cisterna magna, white arrow shows CSF outflow. B. Pediatric  
23 catheter used in CSF collection. C. Catheter for lateral ventricle CSF collection, white arrow  
24 shows the guiding sheath inserted in the skull and the catheter (black arrow) sliding through. D.  
25 shows the titanium port (white arrow) before subcutaneous placement.

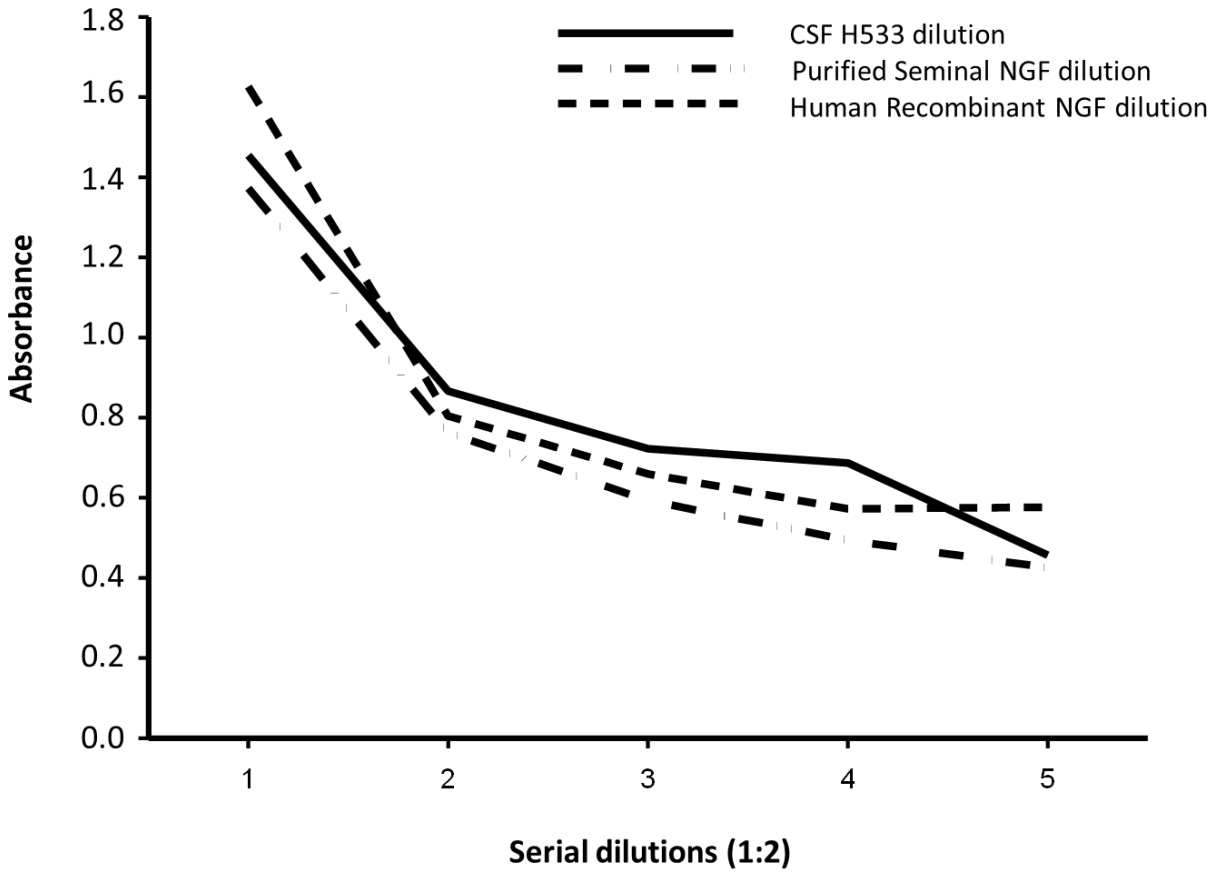
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28 Supplementary Figure 2. Cannulation of the cisterna magna and lateral ventricle in llamas. A. A  
29 female llama with a catheter inserted into the cisterna magna for measurement of NGF in the  
30 cerebrospinal fluid. B. A male llama with a perineal urethrostomy (note catheter inserted in  
31 urethra for collection of semen). C. Surgical placement of a cerebroventricular cannula in a  
32 llama. D. Ventriculography and visualization of the radiopaque contrast agent in a llama (lateral  
33 view, rostral to the right). White arrows indicate cerebroventricular structures.

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 36 Supplementary Figure 3. Displacement curves validating the detection of llama NGF using a  
 37 commercial NGF ELISA (developed for detection of human recombinant NGF) for measurement  
 38 of llama NGF.

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