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Cross-modal individual vocal recognition in the domestic horse (*Equus caballus*).

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Horses fulfill many of the criteria for a species in which it would be adaptive to be capable of individual recognition: they are highly social, form strong and long lasting bonds, their affiliations are rarely kin based, they have a fission-fusion social structure and they possess inter and intra-group dominance hierarchies.

We used a novel cross-modal, expectancy violation paradigm to provide the first systematic evidence that a non-human animal - the domestic horse- is capable of cross modal recognition. We believe this paradigm could provide an ideal way to study individual recognition across a wide range of species.

For full published details see: Proops L, McComb K, Reby D (2009) Cross-modal individual recognition in domestic horses (*Equus caballus*). Proc Natl Acad Sci U S A 106: 947-951. Doi: 10.1073/pnas.0809127105