

The canid pest ejector challenge: controlling urban foxes while keeping domestic dogs safe

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Appendix S1. Ethogram used to classify the behaviour of the species visiting the ejector area

Behaviour	Description
Scent mark	The animal is marking the area with urine or faeces.
Smell ejector	The animal is smelling the ejector directly and close.
Bit ejector	The animal abruptly bites the ejector, but does not pull, nor chew.
Remove ejector	The animal pulls the ejector up and completely out of the ground.
Cautious towards the ejector	The animal looks shyly or cautiously at the ejector. In the case of dogs or foxes, the animal stares at the ejector and even pulls the head back, stretching the front. The animal's body is rigidly maintained close to the ground.
Chew ejector bait head	The animal is actively chewing the ejector without pulling it.
Dig close to the ejector	The animal is digging or disturbing the ground around the ejector.
Pull up the ejector	The animal is evidently pulling up the ejector with its mouth. In the case of the canids, this could be noticeable by the arching of the spine, upwards or downwards. It is not a brief display; therefore, it is possible to see more than one picture of the canid pulling up the ejector.
Aware of the camera trap	The animal is conscious of the presence of the camera and is looking directly at it.
Camera-shy reaction	The animal runs away from the camera suddenly, which could be due to the camera trigger sound or the infrared flash.
Smell the area	The animal smells and explores the area, but not the ejector.
Indifferent	The animal walks by, without smelling or paying any attention to the ejector

Appendix S2. Species recorded in the study and their interactions with the ejector

For the elaboration of this table, records of behaviour separated 1 h from each other were considered as independent, because of the diversity of species and differences in ranging behaviours

Species	Scent mark	Smell ejector	Bit ejector	Remove ejector	Cautious towards ejector	Chew ejector	Dig close to the ejector	Pull up ejector	Aware of the camera	Camera-shy response	Smell the area	Indifferent
<i>Acridotheres tristis</i>	0	0	0	0	0	0	0	0	1	0	0	52
<i>Alectura lathamii</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Anser anser</i>	0	0	0	0	0	0	0	0	1	0	0	0
<i>Bos taurus</i>	0	7	0	0	0	0	0	0	2	0	2	2
<i>Calyptrorhynchus funereus</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Canis familiaris</i>	12	44	7	10	1	10	1	21	0	0	56	22
<i>Chenonetta jubata</i>	0	0	0	0	0	0	0	0	5	0	0	30
<i>Chroicocephalus novaehollandiae</i>	0	0	0	0	0	0	0	0	0	0	0	6
<i>Colluricincla harmonica</i>	0	0	0	0	0	0	0	0	0	0	0	2
<i>Columba livia</i>	0	0	0	0	0	0	0	0	1	0	0	15
<i>Corcorax melanorhamphos</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Corvus coronoides</i>	0	0	8	1	3	1	0	0	1	0	0	10
<i>Corvus mellori</i>	0	0	0	0	0	0	0	0	0	0	0	3
<i>Cracticus torquatus</i>	0	0	0	0	0	0	0	0	0	0	0	2
<i>Dacelo novaeguineae</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Dama dama</i>	0	1	0	0	0	0	0	0	0	0	3	2
<i>Egretta novaehollandiae</i>	0	0	0	0	0	0	0	0	1	0	0	3
<i>Falco berigora</i>	0	0	0	0	0	1	0	0	1	0	0	0
<i>Felis catus</i>	0	22	2	0	6	4	0	1	17	0	18	24
<i>Gallinula tenebrosa</i>	0	0	0	0	0	0	0	0	1	0	0	5

<i>Grallina cyanoleuca</i>	0	0	0	0	0	0	0	0	1	0	0	42
<i>Gymnorhina tibicen</i>	0	11	0	0	0	29	0	0	24	0	6	44
<i>Lepus europeus</i>	0	0	0	0	0	0	0	0	4	0	3	11
<i>Leucosarcia melanoleuca</i>	0	0	0	0	0	0	0	0	0	0	0	2
<i>Macropus giganteus</i>	0	14	0	0	1	0	0	0	17	0	40	41
<i>Macropus robustus</i>	0	10	0	0	0	0	0	0	20	0	38	19
<i>Macropus sp.</i>	0	0	0	0	0	0	0	0	1	0	1	11
<i>Malurus cyaneus</i>	0	0	0	0	0	0	0	0	0	0	0	5
<i>Manorina melanocephala</i>	0	0	0	0	0	0	0	0	0	0	0	10
<i>Ocyphaps lophotes</i>	0	1	0	0	0	0	0	0	1	0	0	16
<i>Oryctolagus cuniculus</i>	0	1	0	0	1	0	0	0	7	3	7	33
<i>Ovis orientalis</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Perameles nasuta</i>	0	1	0	0	0	0	0	0	0	0	6	0
<i>Platycercus elegans</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Platycercus eximius</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Porphyrio melanotus</i>	0	0	0	0	0	0	0	0	0	0	0	4
<i>Psophodes olivaceus</i>	0	0	0	0	0	0	0	0	1	0	0	2
<i>Rattus rattus</i>	0	59	3	0	3	120	0	0	84	1	166	142
<i>Rhipidura leucophrys</i>	0	0	0	0	0	0	0	0	1	0	0	0
<i>Spilopelia chinensis</i>	0	0	0	0	0	0	0	0	1	0	0	5
<i>Strepera graculina</i>	0	0	0	0	0	1	0	0	1	0	0	0
<i>Streptopelia chinensis</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Sturnus vulgaris</i>	0	0	0	0	0	0	0	0	0	0	0	6
<i>Sus scrofa</i>	0	0	0	0	0	0	0	0	0	0	1	0
<i>Tachyglossus aculeatus</i>	0	0	0	0	0	0	0	0	0	0	0	2
<i>Threskiornis molucca</i>	0	1	1	0	0	5	0	0	5	0	0	49
<i>Tiliqua scincoides</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Trichosurus vulpecula</i>	4	18	2	0	10	8	0	1	17	0	42	27

<i>Turdus merula</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Vanellus miles</i>	0	0	0	0	0	0	0	0	2	0	0	28
<i>Varanus varius</i>	0	0	0	0	0	0	0	0	1	0	0	1
<i>Vombatus ursinus</i>	0	1	0	0	0	0	0	0	0	0	0	2
<i>Vulpes vulpes</i>	24	52	12	9	49	19	12	34	55	16	64	34
<i>Wallabia bicolor</i>	0	32	3	0	12	0	0	0	21	0	82	24
