

Table S1

Review of the morphological analysis of orbital region, eye tunics, eyelids and orbital glands of the Caniformia suborder.

| Infraorder | <i>Parvordo</i> | Family | Species | Skull with orbital region | Eye tunics | Upper and lower eyelids | Superficial gland of the third eyelid with third eyelid | Deep gland of the third eyelid | Lacrimal gland | Reference |
|------------|-----------------|---------|------------------------------|---------------------------|--------------------------------|-------------------------|---|--------------------------------|----------------|---|
| Canoidea | | Canidae | <i>Canis familiaris</i> | + | + | + | + | A | + | [24,84,85,86,107,111,113,135,143,150,151,152,158,165-168,170-174] |
| | | | <i>Cerdocyon thous</i> | + | + AED, CD TeED | + | + | | + | [25,67,87,97,175] |
| | | | <i>Chrysocyon brachyurus</i> | + | + | + | + | | + | [97] |
| | | | <i>Canis lupus</i> | | + cornea AED, CD TeED | | | | | |
| | | | <i>Canis dingo</i> | | + | | | | | [25,66,84,86] |
| | | | <i>Vulpes corsac</i> | | + cornea | | | | | [84,86] |

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|--|--|---|---|--|---|---|---|---|----------------------------------|
| | | <i>Vulpes vulpes</i> | | + lens pupil retina AED, CD,TeEd | | | | | [84,86] [25,66,69,96,115] |
| | | <i>Vuples lagopus</i> | | + retina AED, CD TeED | | | | | [25,115] |
| | | <i>Canis lupus</i> | | + AED | | | | | [66] |
| | | <i>Canis lupus</i> <i>lupus</i> | | + lens pupil | | | | | [96] |
| | | <i>Canis latrans</i> | + | + | | | | | [175] |
| | | <i>Canis rufus</i> | + | + | | | | | |
| | | <i>Lycaon pictus</i> <i>pictus</i> | + | + | + | + | A | + | [68] |
| | | <i>Lycalopex</i> <i>culpaeus</i> | + | | | | | | [176] |
| | | <i>Vulpes lagopus</i> | + | | | | | | [127] |
| | | <i>Nyctereutes</i> <i>procyonoides</i> | + | | | | | | [130] |
| | | <i>Urocyon</i> <i>cinereoargenteus</i> | | + lens AED, CD TeED | | | | | [25,66,177] |
| | | <i>Speothos</i> <i>venaticus</i> | | + AED, CD TeED | | | | | [25] |

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|-----------|--------|-------------------------------|--------------------------------|---|---------------------------------|---|---|---|---------------------|
| | | | <i>Alopex lagopus</i> | | + tapetum | | | | [171] |
| Arctoidea | Ursida | Ursidae | <i>Ursus arctos horribilis</i> | + | + | | | | [26,178] |
| | | | <i>Melursus ursinus</i> | + | + AED, CD TeED tapetum | | | | [25,32,33,178] |
| | | <i>Ursus arctos</i> | | + | + AED, CD TeED | | | | [25,28,29,30,31,66] |
| | | <i>Ursus americanus</i> | | | + retina AED, CD TeED | | | | [23,25,66] |
| | | <i>Ursus maritimus</i> | | | + retina | | | | [178] |
| | | <i>Selenarctos thibetanus</i> | | | + AED, CD, TeED | | | | [25] |
| | | <i>Ursus malayanus</i> | | | + central area | | | | [24] |
| | | <i>Callorhinus ursinus</i> | | | + retina | | | | [179] |
| | | <i>Zalophus californianus</i> | | | + | + | + | + | [91,104,139,180] |

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|--|------------|------------|---------------------------------|---------|---|--|---|-----------------------------|
| | Pinnipedia | Otariidae | <i>Phoca largha</i> | + | | | | [181] |
| | | | <i>Eumetopias jubatus</i> | + | | | | [24,89] |
| | | | <i>Arctocephalus pusillus</i> | + | | | | [89] |
| | | | | + | | | | [75,83,119,121,131,138,182] |
| | | | | + | | | | |
| | | Odobenidae | <i>Odobenus rosmarus</i> | + | + | | + | [76,89,104,132,163,164] |
| | | | | + | + | | + | [75,83,131] |
| | | Phocidae | <i>Leptonychotes weddellii</i> | + | + | | | [92] |
| | | | <i>Halichoerus grypus</i> | + | | | | [106] |
| | | | | tapetum | | | | |
| | | | <i>Pusa caspica</i> | + | | | | [116,118] |
| | | | <i>Pusa sibirica</i> | retina | | | | [89,116,181] |
| | | | <i>Pagophilus groenlandicus</i> | + | | | | [116,117,122] |
| | | | <i>Cystophora cristata</i> | retina | | | | [103,106,111] |
| | | | | + | | | | |
| | | | <i>Phoca vitulina</i> | + | | | | [72,182] |

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|--|-------------|------------|--------------------------------|-------------------|-------------------------|--|---|--|----------------------|
| | | | <i>Ommatophoca rossi</i> | | + | | | | [24] [133] |
| | | | <i>Mirounga angustirostris</i> | | + | | + | | [180] |
| | | | <i>Mirounga sp.</i> | | + | | | | [104] |
| | | | | + | + | | | | [75,131,181,182,183] |
| | | Ailuridae | <i>Ailuropoda melanoleuca</i> | | + retina | | | | [100] |
| | | | <i>Ailurus fulgens</i> | | + AED, CD, TeED | | | | [25] |
| | | Mephitidae | <i>Mydaus sp.</i> | | + AED, CD, TeED | | | | [25] |
| | Musteloidea | | <i>Meles meles</i> | + AED, CD TeED | | | | | [25,66,128,130] |
| | | | <i>Martes foina</i> | + | | | | | [128] |
| | | | <i>Lutra lutra</i> | + | + AED <i>tapetum</i> | | | | [24,69,128,129,184] |
| | | | <i>Lutra annectens</i> | | + AED, CD TeED | | | | [25] |

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|--|--|------------|------------------------------|---|------------------------------|--|---|--|-------------------|
| | | Mustelidae | <i>Lutra marculicollis</i> | | + AED, CD TeED | | | | [25] |
| | | | <i>Mustela putorius furo</i> | + | + | | | | [161,184,185,186] |
| | | | <i>Mustela putorius</i> | + | + retina, tapetum | | | | [24,112,185] |
| | | | <i>Enhydra lutris</i> | | + retina pupil tapetum | | | | [99,105,181] |
| | | | <i>Mustela vison</i> | | + retina | | | | [162,187,188] |
| | | | <i>Mustela nivalis</i> | | + AED, CD, TeED | | + | | [25,69] |
| | | | <i>Vormela peregrusna</i> | | + AED, CD TeED | | | | [25] |
| | | | <i>Martes flavigula</i> | | + AED, CD TeED | | | | [25] |
| | | | <i>Martes martes</i> | | + tapetum | | | | |

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|-------------|--|----------------------------|--|---|--|--|---|--|-----------------------------|
| | | <i>Ictonyx striatus</i> | | + | <i>tapetum</i> | | | | [171] |
| Procyonidae | | <i>Procyon lotor</i> | | + | retina ciliary processes choroid AED, CD, TeED | | + | | [171] [24,25,66,126,162] |
| | | <i>Procyon cancrivorus</i> | | + | AED | | | | [69] |
| | | <i>Potos flavus</i> | | + | retina <i>tapetum</i> | | | | [24,126] |
| | | <i>Nasua nasua</i> | | + | retina <i>tapetum</i> | | | | [24,126] |
| | | <i>Bassariscus astutus</i> | | + | AED, CD TeED | | | | [25] |
| | | <i>Bassaricyon alleni</i> | | + | | | | | [24] |

A – absent, AED – axial eye diameter, CD – corneal diameter, TeED – transverse (equatorial) eye diameter, + presence of the anatomical study of the chosen structure

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