

Complete list of anatomical measurements
Supplementary material
Appendix 3 of

Anatomical atlas of the quail's ear (*Coturnix coturnix*)

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Table 1 Measurements on the middle-ear structures of the quail

Structure	Measurement	Right ear	Left ear	Mean
Columella	Length (mm)	1.66	1.66	1.66
Columella-footplate	Max. diameter of footplate lengthwise (mm)	1.14	1.19	1.17
	Max. diameter footplate across (mm)	0.82	0.82	0.82
	Area (mm ²)	0.79	0.77	0.78
	Angle Stapes/footplate vertical in°	91.30	92.10	91.70
	Angle Stapes/footplate horizontal in °	96.10	91.40	93.75
Fenestra vestibularis	Max. diameter lengthwise (mm)	1.30	1.34	1.32
	Max. diameter crosswise (mm)	1.00	0.99	1.00
	Area (mm ²)	1.05	1.01	1.03

Table 2 Measurements on the cochlea, angles between semicircular canals and corresponding canals and basicranial length of the quail

Structure	Measurements	Right ear	Left ear	Mean
Cochlea	Length of cochlea (mm)	4.82	4.82	4.82
	Diameter at the height of the bottom end of Fenestra cochleae (mm)	1.11	1.10	1.11
Angles between semicircular canals	Ductus semicircularis anterior/posterior (°)	103.20	92.30	97.75
	Ductus semicircularis anterior/lateralis (°)	93.70	101.30	97.50
	Ductus semicircularis posterior/lateralis (°)	85.30	83.10	84.20
Angles/Planes of corresponding canals of different sides	Ductus semicircularis anterior of right side and Ductus semicircularis posterior of left side (RALP) (°)			11.70
	Ductus semicircularis anterior of left side and Ductus semicircularis posterior of right side (LARP) (°)			-1.00
	Ductus semicircularis lateralis of right and left side(RLLL) (°)			2.60
Basicranial length	Combined length (mm) of Os basioccipitale and Os parashenoidale			13.63

Table 3 Measurements on the semicircular canals of quail

Ductus semicircularis anterior	Right ear	Left ear	Mean
Height (inner diameter) (mm)	3.84	3.93	3.89
Height (one canal included) (mm)	4.35	4.45	4.40
Width (inner diameter) (mm)	2.45	2.59	2.52
Width (external diameter) (mm)	3.59	3.72	3.66
Largest diameter (internal) (mm)	4.11	4.19	4.15
Largest diameter (external) (mm)	4.98	5.09	5.04
Height/width ratio	1.57	1.52	1.54
Diameter of canal (mm)	0.55	0.50	0.53
Diameter of canal in right angle (mm)	0.47	0.51	0.49
Area that is encircled by semicircular canal (canal included)	14.01	14.45	14.23
Ampulla max. diameter across (mm)	1.25	1.21	1.23
Ampulla max. diameter lengthwise (mm)	1.32	1.24	1.28
Ampulla max.diameter across in plane of longitudinal measurement (mm)	1.08	1.10	1.09
Canal circumference (mm)	12.38	12.58	12.48
Ductus semicircularis posterior	Right ear	Left ear	Mean
Height (external diameter) towards Ductus semicircularis lateralis (mm)	2.46	2.43	2.45
Height (inner diameter) towards Ductus semicircularis lateralis(mm)	1.85	1.82	1.84
Height (inner diameter) (mm)	2.24	2.18	2.21
Height (one canal included) (mm)	2.84	2.71	2.78
Width (inner diameter) (mm)	2.96	3.05	3.01
Width (external diameter) (mm)	4.13	4.12	4.13
Height/width ratio	0.76	0.71	0.74
diameter of canal (mm)	0.58	0.49	0.54
Diameter of canal in right angle (mm)	0.49	0.49	0.49
Area that is encircled by semicircular canal (canal included)	11.20	11.11	11.16
Ampulla max. diameter across (mm)	1.23	1.18	1.21
Ampulla max. diameter lengthwise (mm)	1.13	1.18	1.16
Ampulla max.diameter across in plane of longitudinal measurement (mm)	1.05	1.11	1.08
Canal circumference (mm)	9.38	9.35	9.37
Ratio: Length till crossing lateral semicircular canal (caudal part/rostral part)	0.34	0.30	0.32
Ductus semicircularis lateralis	Right ear	Left ear	Mean
Height (inner diameter) towards Ductus semicircularis posterior (mm)	1.97	2.00	1.99
Height (one canal included) towards Ductus semicircularis posterior (mm)	2.64	2.51	2.58
Height (inner diameter) (mm)	2.24	2.42	2.33
Height (one canal included) (mm)	2.84	3.00	2.92
Width (inner diameter) (mm)	3.83	3.76	3.80
Width (external diameter) (mm)	4.93	4.96	4.95
Height/width ratio	0.58	0.64	0.61
Diameter of canal (mm)	0.63	0.50	0.57
Diameter of canal in right angle (mm)	0.54	0.63	0.59
Area that is encircled by semicircular canal (canal included)	15.09	14.83	14.96
Ampulla max. diameter across (mm)	1.21	1.22	1.22
Ampulla max. diameter lengthwise (mm)	1.32	1.31	1.32
Ampulla max.diameter across in plane of longitudinal measurement (mm)	1.19	1.20	1.20
Canal circumference (mm)	11.39	11.46	11.43
Ratio: Length to crossing posterior semicircular canal (bottompart/upperpart)	0.27	0.30	0.29