55015

FI

v.10:2-16

v.12:1-8

v.14:4

cop.2

INC.

CENTRAL CIRCULATION BOOKSTACKS

The person charging this material is responsible for its return to the library from which it was borrowed on or before the **Latest Date** stamped below.

Theft, mutilation, and underlining of books are reasons for disciplinary action and may result in dismissal from the University.

TO RENEW CALL TELEPHONE CENTER, 333-8400

UNIVERSITY OF ILLINOIS LIBRARY AT URBANA-CHAMPAIGN

~~MAY 16 1992~~

BUILDING USE ONLY

APR 19 1992

1992

When renewing by phone, write new due date below previous due date.

79521 L162

590.5
FI
14⁴, cop. 2

FIELD MUSEUM OF NATURAL HISTORY

PUBLICATION 246

ZOOLOGICAL SERIES

VOL. XIV, No. 4

CONTENTS
TO
VOLUME XIV
NUMBERS I to 3

WILFRED H. OSGOOD
Curator, Department of Zoology
EDITOR

THE LIBRARY OF THE
FEB 14 1938
UNIVERSITY OF ILLINOIS

CHICAGO, U. S. A.

1928

Natural History Library

PUBLICATIONS
OF
FIELD MUSEUM OF NATURAL
HISTORY

ZOOLOGICAL SERIES

VOLUME XIV

THE LIBRARY OF THE
FEB 14 1938
UNIVERSITY OF ILLINOIS
CHICAGO, U. S. A.

1921 - 1925

FIELD MUSEUM OF NATURAL HISTORY

PUBLICATION 246

ZOOLOGICAL SERIES

VOL. XIV, No. 4

CONTENTS
TO
VOLUME XIV
NUMBERS 1 to 3

WILFRED H. OSGOOD
Curator, Department of Zoology
EDITOR

CHICAGO, U. S. A.

1928

500.5
F I
v. 144
Cop. 2

18 Feb 38 WR

CONTENTS

A Monographic Study of the American Marsupial, <i>Caenolestes</i> . By Wilfred H. Osgood.....	1-156
The Brain of <i>Caenolestes obscurus</i> . By C. Judson Herrick.....	157-162
Review of Living <i>Caenolestids</i> with Description of a New Genus from Chile. By Wilfred H. Osgood.....	163-172
The Brains of the South American Marsupials <i>Caenolestes</i> and <i>Orolestes</i> . By Jeannette Brown Obenchain.....	173-232

LIST OF ILLUSTRATIONS

PLATES

- I. *Caenolestes obscurus*.
- II. External characters.
- III. General musculature after removal of superficial fascia.
- IV. Muscles and glands of the head and neck.
- V. Muscles of the legs.
- VI. Muscles of throat and inner side of thigh.
- VII. Parts of alimentary system.
- VIII. Reproductive organs.
- IX. Dissections of male organs.
- X. Parts of reproductive, alimentary and respiratory systems.
- XI. Cervical vertebrae.
- XII. Bones of sternum, hind leg and thoracic region.
- XIII. Scapula, pelvis and lumbar vertebrae.
- XIV. Sacral and caudal vertebrae.
- XV. Humerus, ulna and radius.
- XVI. Manus and pes.
- XVII. Longitudinal section of skull.
- XXVIII. Dentition and hard palate.
- XIX. Fig. 1. Mounted skeleton of *Nesogale dobsoni*.
Fig. 2. Mounted skeleton of *Caenolestes obscurus*.
- XX. Skull of *Caenolestes*.
- XXI. Dorsal and lateral surfaces of brain.
- XXII. Ventral view of brain.
- XXIII. Figs. 1, 1a, 1b. Skull of *Caenolestes obscurus*.
Figs. 2, 2a, 2b. Skull of *Orolestes inca*.
Figs. 3, 3a, 3b, 3c. Skull of *Rhyncholestes raphanurus*.
- XXIV. *Orolestes inca*. Dorsal view of brain.
- XXV. *Orolestes inca*. Ventral view of brain.
- XXVI. *Orolestes inca*. Fig. 3. Lateral view of brain. Fig. 4. Median section of brain.
- XXVII. Median surface of hemisphere. Fig. 5. *Orolestes inca*. Fig. 6. *Caenolestes obscurus*.
- XXVIII. Figs. 7-10. Cerebella of *Caenolestes*, *Notoryctes* and *Perameles*. Fig. 11. Development of mammalian "hippocampal figure."
- XXIX. Figs. 12-15. Reconstructions of hemispheres. Fig. 16. Ventral diverticulum of recessus superior.
- XXX. Fig. 17. Dissected diagram of hippocampus of *Caenolestes*. Fig. 18. Temporal hippocampus of *Didelphis*.
- XXXI. Temporal recurving of hippocampus. Fig. 19. *Hypsiprymnus*. Fig. 20. Rabbit. Fig. 21. *Felis leo*. Fig. 22. *Notoryctes*.
- XXXII. Transverse sections of brain of *Caenolestes*.
- XXXIII. Transverse sections of brain of *Caenolestes*.
- XXXIV. Transverse sections of brain of *Caenolestes*.
- XXXV. Transverse sections of brain of *Caenolestes*.
- XXXVI. Transverse sections of brain of *Caenolestes*.

MAP

Records of *Caenolestes* and *Orolestes*.....

Page 16

INDEX

Names of new family, genus and species are printed in **bold-faced** type.

Abductor caudae externus.....	38	Epitrochlearis	40
Abductor digiti indicis.....	47	Ethmoid	101
Abductor digiti minimi.....	47	Extensor brevis digitorum.....	54
Abductor pollicis.....	47	Extensor carpi radialis brevis.....	44
Abductor pollicis longus.....	44	Extensor carpi radialis longus.....	44
Abductors.....	46-47	Extensor carpi ulnaris.....	45
Aberrant bundle.....	200	Extensor caudae lateralis.....	39
Accessory olfactory bulb.....	189	Extensor digitorum communis.....	45
Accessory olfactory nucleus.....	194	Extensor digitorum lateralis.....	45
Acromio-deltoidaeus.....	40	Extensor hallucis longus.....	55
Acromio-trapezius.....	24	Extensor indicis.....	46
Adductor brevis.....	48	Extensor longus digitorum.....	55
Adductor longus.....	47	External Characters.....	19
Adductor magnus.....	47		
Adductors.....	46-57	Fasciculus aberrans.....	200
Alimentary Canal.....	69	Femoro-coccygeus.....	48
Amygdaloid complex.....	185-201	Fimbrio-alvear fissure.....	184
Anconeus.....	42	Fimbrio-dentate fissure.....	184
Anterior olfactory nucleus.....	191	Fissura amygdaloidea.....	181
Arm.....	89	Fissura rhinalis arcuata.....	179
Auditory ossicles.....	107	Flexor accessorius.....	52
Auriculo-occipitalis.....	23	Flexor carpi radialis.....	42
		Flexor carpi ulnaris.....	42
Biceps brachii.....	41	Flexor digitorum fibularis.....	51
Biceps femoris.....	49	Flexor digitorum profundus.....	43
Biventer cervicis.....	25	Flexor digitorum sublimis.....	43
Brachialis anticus.....	41	Flexor digitorum tibialis.....	52
Brachioradialis (Supinator longus).....	44	Flexors.....	46
Braincase.....	99	Foot.....	95
Brain stem.....	160	Forearm.....	89
Buccinator.....	31	Frontals.....	103
Canines.....	118	Gastrocnemius.....	50
Caudal vertebrae.....	84	Gemelli.....	37
Caudofemoralis.....	48	Genioglossus.....	33
Cerebellum.....	159-186	Genio-hyoideus.....	32
Cerebral hemispheres.....	158	Glands.....	73
Cervical vertebrae.....	77	Gluteus maximus.....	36
Cervico-auricularis.....	23	Gluteus medius.....	36
Choriod fissure.....	185	Gluteus minimus.....	37
Circulatory System.....	77	Gracilis.....	50
Clastrum.....	221		
Cleido-mastoideus.....	33	Habits.....	17
Cleido-occipitalis.....	34	Hand.....	92
Complexus.....	25	Hippocampal commissure.....	210
Coracobrachialis brevis.....	41	Hippocampal fissure.....	184
Cremaster.....	35	Hippocampal formation.....	206
		Hyoglossus.....	33
Dentition.....	111	Hyoid.....	106
Digastricus.....	32		
Diprotodonty.....	128	Iliacus.....	37
Distribution.....	15	Iliococcygeus.....	39
Dorso-cuticularis.....	23		

- Iliocostalis.....29
 Incisors.....116
 Infracoccygeus.....39
 Infraspinatus.....40
 Interossei.....46
 Intestines.....72
 Ischiococcygeus.....39

 Lacrymals.....103
 Larynx.....77
 Latissimus dorsi.....24
 Leg.....93
 Levator scapulae.....24
 Liver.....73
 Longissimus.....28
 Longissimus capitis.....25
 Longus colli.....27
 Lumbar vertebrae.....84
 Lumbricales.....56
 Lungs.....76

 Mammae.....75
 Mandible.....108
 Mandibulo-auricularis.....31
 Masseter.....30
 Maxillae.....102
 Measurements.....21
 Molars.....102
 Mouth.....69
 Muscles of the abdomen.....35
 Muscles of the anterior limb.....40
 Muscles of the back.....24
 Muscles of the forefoot.....46
 Muscles of the head.....30
 Muscles of the hind foot.....56
 Muscles of the hind limb.....47
 Muscles of the neck.....32
 Muscles of the sacrum.....36
 Muscles of the skin.....22
 Muscles of the tail.....38
 Muscles of the thorax.....34
 Mylo-hyoideus.....33
 Myrmecoboides.....139

 Nasals.....101
 Neopallium.....180

 Obliquus capitis inferior.....26
 Obliquus capitis superior.....26
 Obliquus externus abdominis.....35
 Obliquus internus abdominis.....35
 Obturator externus.....38
 Obturator internus.....37
 Occipitals.....104
 Oesophagus.....71
 Olfactory areas.....189
 Olfactory bulbs.....158-178
 Omo-cleido-transversarius.....34
 Omo-hyoideus.....33
 Orolestes.....168-178

 Palatine.....105
 Palmaris longus.....42
 Pancreas.....74
 Parietals.....103
 Parolfactory nuclei.....199
 Pectineus.....48
 Pectoral girdle.....87
 Pectoralis major.....34
 Pectoralis minor.....34
 Pelyvic girdle.....88
 Periotic.....106
 Peroneus brevis.....52
 Peroneus longus.....53
 Peroneus tertius.....53
 Phylogeny.....140
 Plantaris.....51
 Popliteus.....55
 Premaxillae.....102
 Premolars.....119
 Pronator quadratus.....44
 Pronator teres.....42
 Psoas magnus.....30
 Psoas parvus.....30
 Pterygoideus externus.....31
 Pterygoideus internus.....31
 Pubococcygeus.....39
 Pyriformis.....37
 Pyriform lobe.....180-200

 Quadratus femoris.....37
 Quadratus lumborum.....29

 Rectus abdominis.....35
 Rectus capitis anticus major.....27
 Rectus capitis anticus minor.....27
 Rectus capitis lateralis.....27
 Rectus capitis posterior major.....26
 Rectus capitis posterior minor.....26
 Rectus capitis posterior superficialis.....26
 Rectus femoris.....49
 Respiratory System.....76
 Retractor naris.....32
 Rhinal fissure.....180
 Rhomboideus.....24
Rhyncholestes.....169
Rhyncholestes raphanurus.....170
 Ribs.....86

 Sacral vertebrae.....84
 Sacrococcygeus.....39
 Sacrospinalis.....29
 Salivary glands.....74
 Sartorius.....50
 Scalenus.....35
 Semimembranosus.....50
 Semispinalis cervicis.....28
 Semitendinous.....49
 Septal region.....199
 Serratus magnus.....34
 Serratus posterior inferior.....25

Serratus posterior superior.....	25	Thoracic vertebrae.....	82
Skeleton	77	Thymus	75
Skull	99	Thyrohyoideus.....	33
Sphenoid bones.....	105	Thyroid	75
Spinalis dorsi.....	27	Tibialis anticus.....	53
Spino-deloideus.....	40	Tibialis posticus.....	54
Spino-trapezius	24	Tongue	70
Spleen	74	Trachea	77
Splenius	25	Transversus abdominis.....	35
Squamosal.....	103	Triceps brachii.....	41
Sterno-hyoideus.....	32	Tuberculum olfactorium.....	185, 195
Sterno-mastoideus.....	33	Turbinals	101
Sterno-thyroideus	32	Tympanic.....	106
Sternum	86		
Stomach	71	Urinogenital System.....	61
Stria terminalis.....	204		
Styloglossus	33	Vacuities	107
Subclavius.....	34	Vastus externus.....	49
Subcrureus	49	Vastus internus	49
Subscapularis.....	40	Vomer	105
Supinator (brevis).....	45		
Supracostalis.....	34	Wynyardia	136
Supraspinatus.....	40	Wynyardiidae	138
Taxonomy.....	140	Zygomata	103
Temporalis	30	Zygomaticus	32
Teres major.....	41		
Thigh	93		

THE LIBRARY OF THE
FEB 14 1938
UNIVERSITY OF ILLINOIS

3 0112 040456151