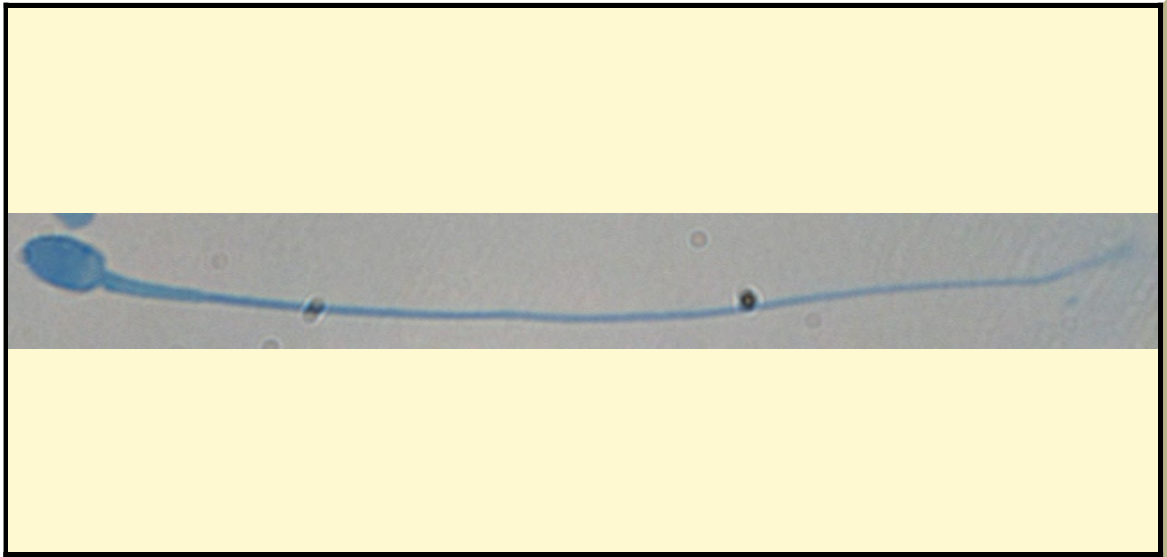


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Bonobo

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Mammalia

RP NUMBER

12-016

ORDER

Primates

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Round

FAMILY

Hominidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Pan

SPECIES

Pan paniscus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

4.63

Head Width

2.75

Midpiece Length

4.67

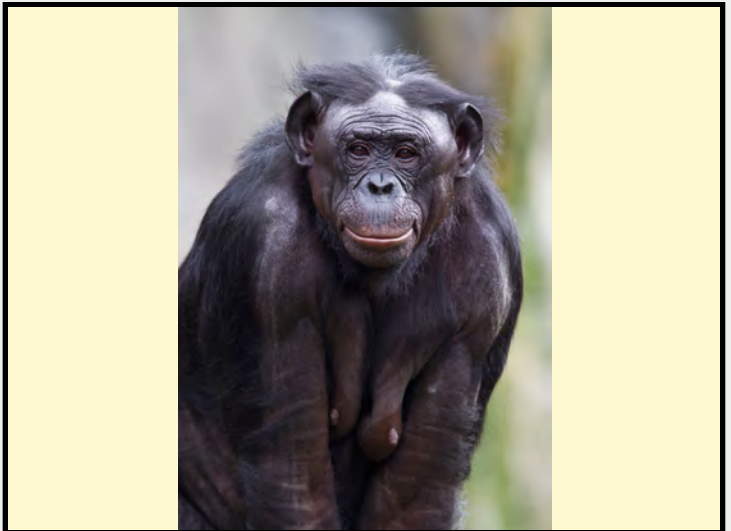
Tail Length

50.00

Measure Total

59.30

NOTES

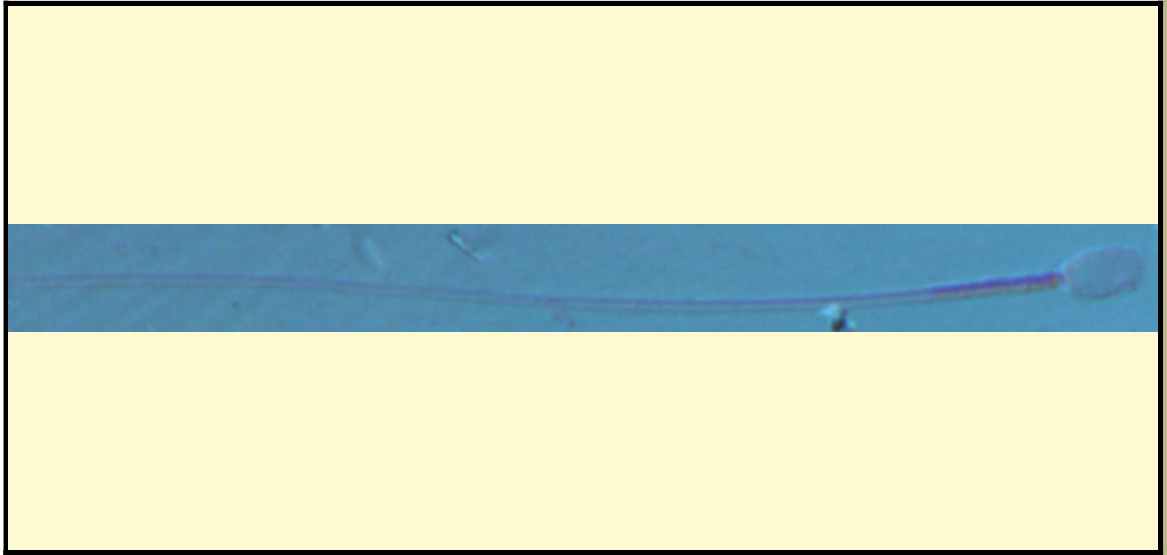


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Uakari

PICTURE



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CLASS

Mammalia

RP NUMBER

83-005

ORDER

Primates

STAIN

Pap

SUBORDER

HEAD SHAPE

Oval

FAMILY

Pitheciidae

ANIMAL PICTURE

SUBFAMILY

Opitheciinae

GENUS

Cacajao

SPECIES

Cacajao

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

5.00

Head Width

3.00

Midpiece Length

9.00

Tail Length

51.00

Measure Total

65.00

NOTES

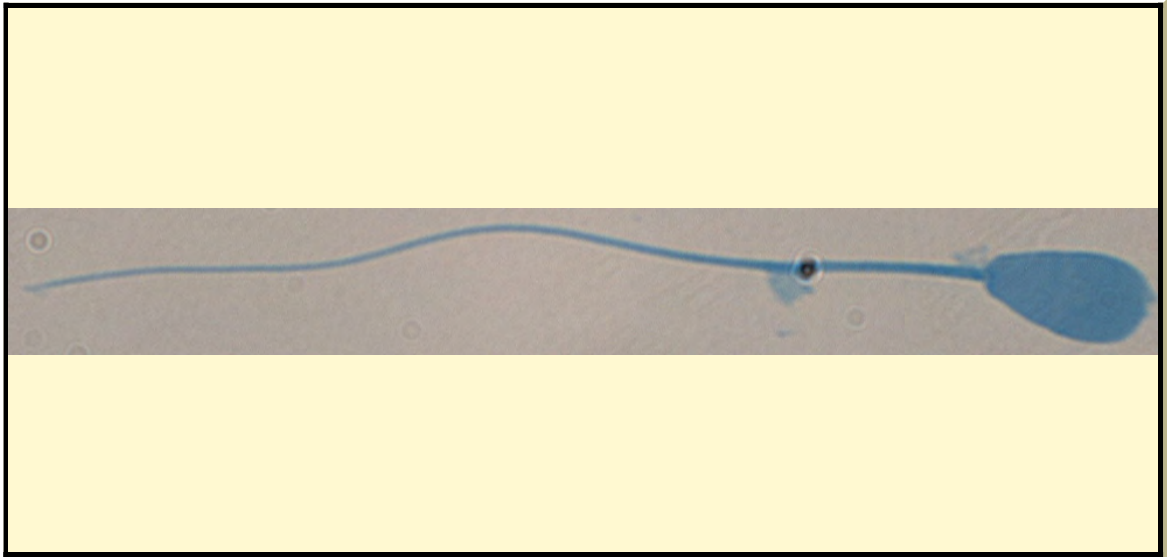


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Barasingha

PICTURE



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CLASS

Mammalia

RP NUMBER

13-003

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Rucervus

SPECIES

Rucervus duvaucellii

SUBSPECIES

MEASUREMENTS (μm)

Head Length

9.95

Head Width

4.98

Midpiece Length

13.93

Tail Length

41.79

Measure Total

65.67

NOTES



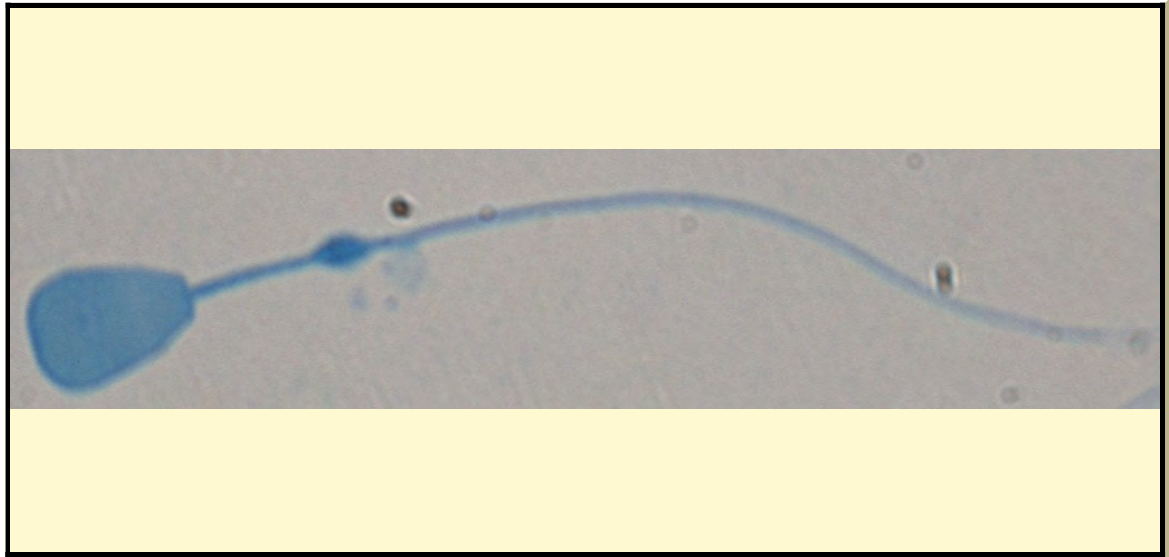
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Nubian Soemmerring's Gazelle

PICTURE



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CLASS

Mammalia

RP NUMBER

09-050

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Antilopinae

GENUS

Nanger

SPECIES

N. soemmerringii

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.13

Head Width

6.60

Midpiece Length

13.30

Tail Length

41.34

Measure Total

64.77



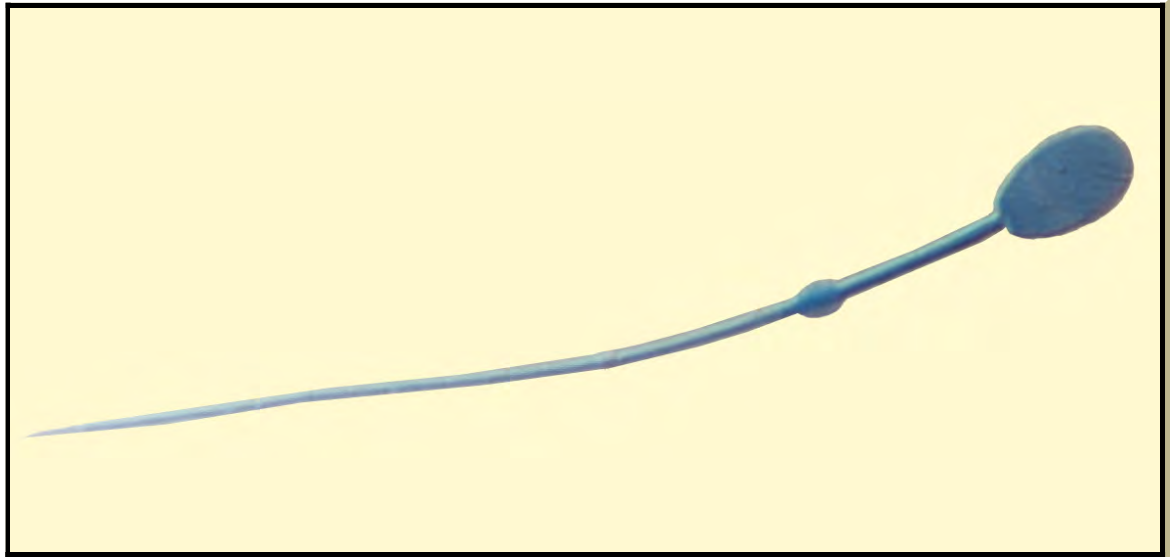
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Zulu Suni

PICTURE



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CLASS

Mammalia

RP NUMBER

04-147

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Antilopinae

GENUS

Neotragus

SPECIES

N. moschatus

SUBSPECIES

N. moschatus zuluensis

MEASUREMENTS (μm)

Head Length

9.71

Head Width

5.83

Midpiece Length

11.12

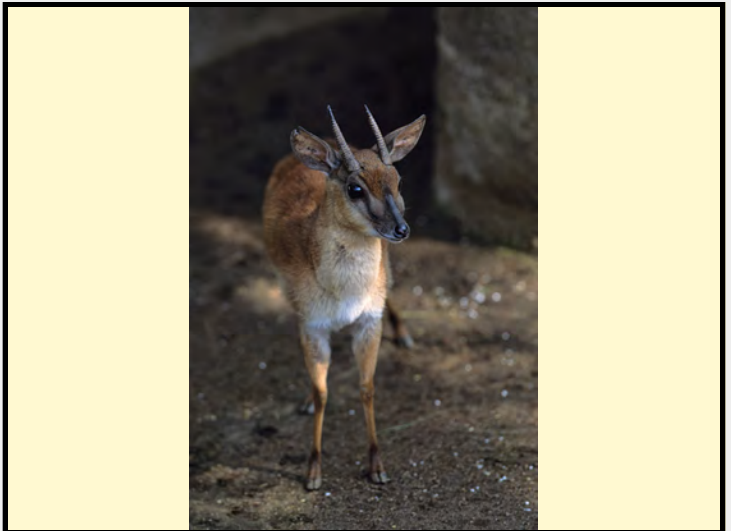
Tail Length

38.35

Measure Total

59.18

NOTES



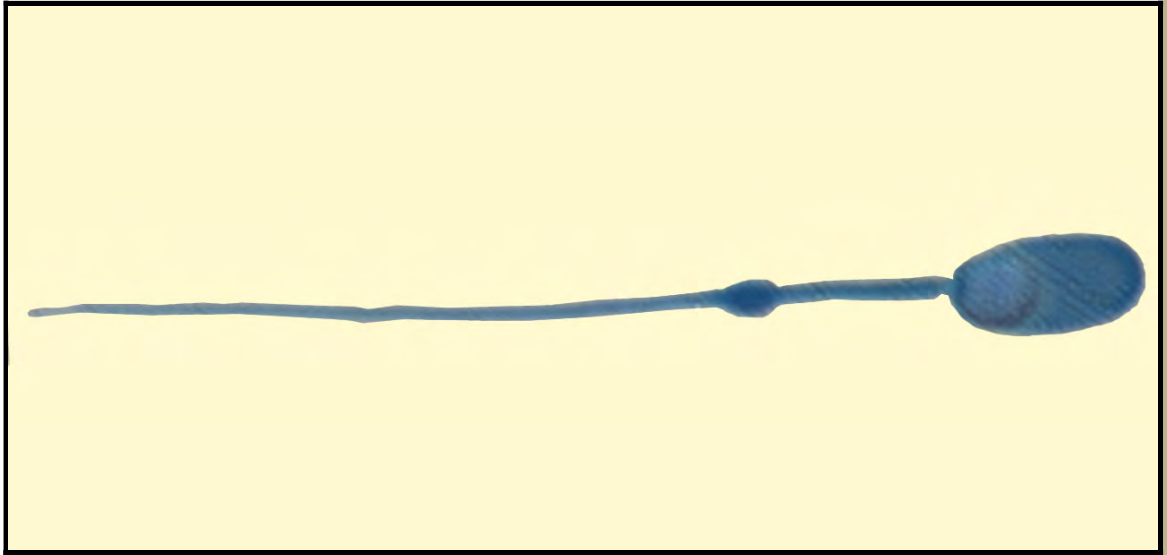
Cytoplasmic droplet present due to sperm being extracted directly from the vas deferens

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Bornean Bearded Pig

PICTURE



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CLASS

Mammalia

RP NUMBER

07-217 #2

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

Suiformes

HEAD SHAPE

Oval

FAMILY

Suidae

ANIMAL PICTURE

SUBFAMILY

Suinae

GENUS

Sus

SPECIES

S. barbatus

SUBSPECIES

S. barbatus barbatus

MEASUREMENTS (μ m)

Head Length

8.50

Head Width

4.50

Midpiece Length

12.50

Tail Length

31.50

Measure Total

52.50

NOTES



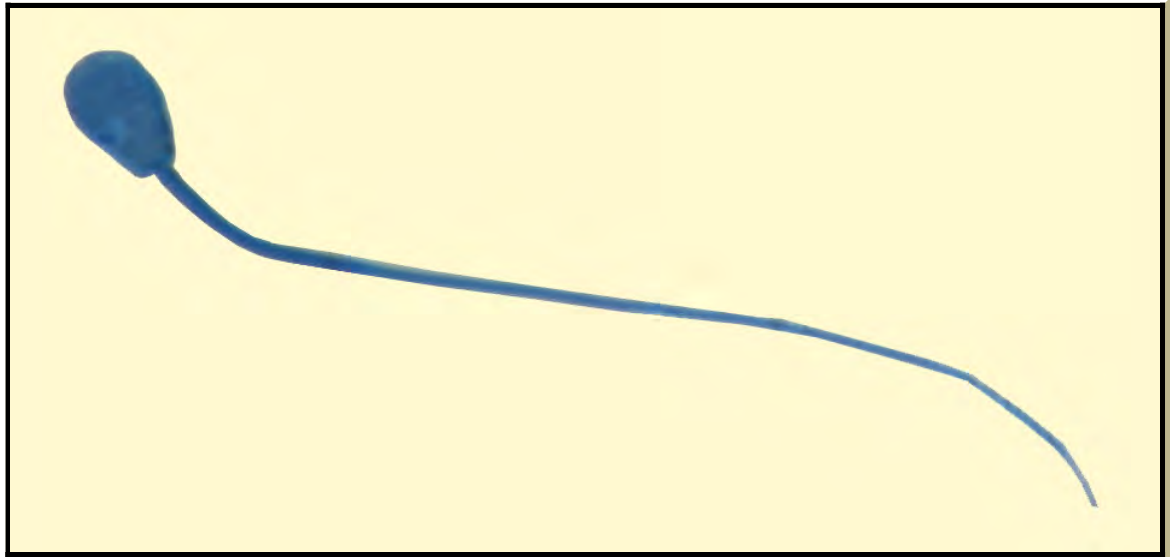
Head attachments seem to be slightly acentric, but unknown whether or not that is common.
Cytoplasmic droplet present due to sperm being extracted directly from the vas deferens

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Indian Hog Deer

PICTURE



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CLASS

Mammalia

RP NUMBER

04-135

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

Ruminantia

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Cervinae

GENUS

Axis

SPECIES

A. porcinus

SUBSPECIES

A. porcinus porcinus

MEASUREMENTS (μ m)

Head Length

8.72

Head Width

5.20

Midpiece Length

14.17

Tail Length

36.19

Measure Total

59.08



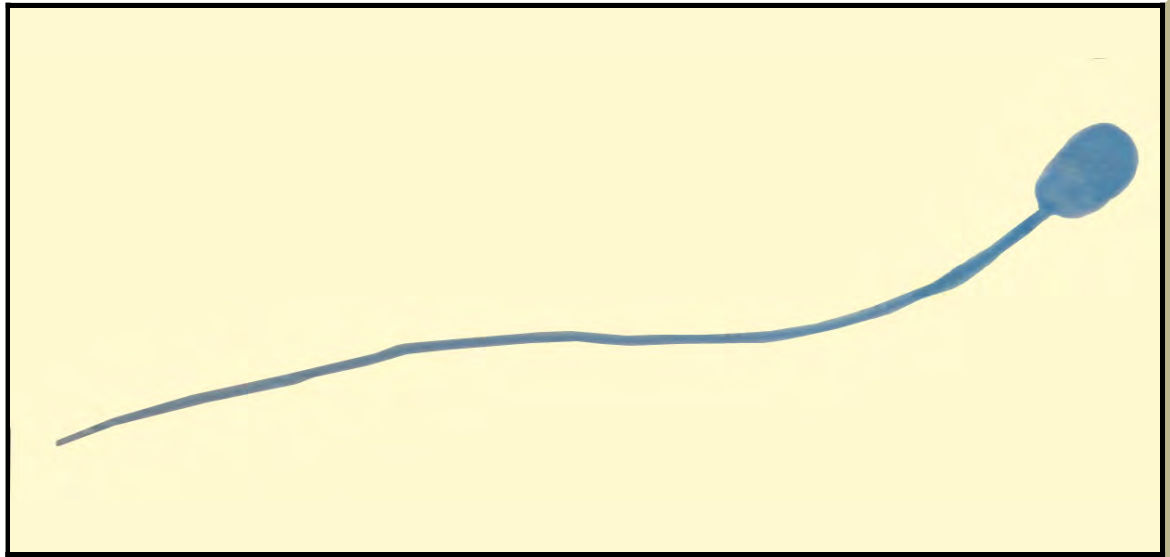
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Spectacled Bear

PICTURE



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CLASS

Mammalia

ORDER

Carnivora

SUBORDER

Caniformia

FAMILY

Ursidae

SUBFAMILY

Tremarctinae

GENUS

Tremarctos

SPECIES

T. ornatus

SUBSPECIES

RP NUMBER

08-052

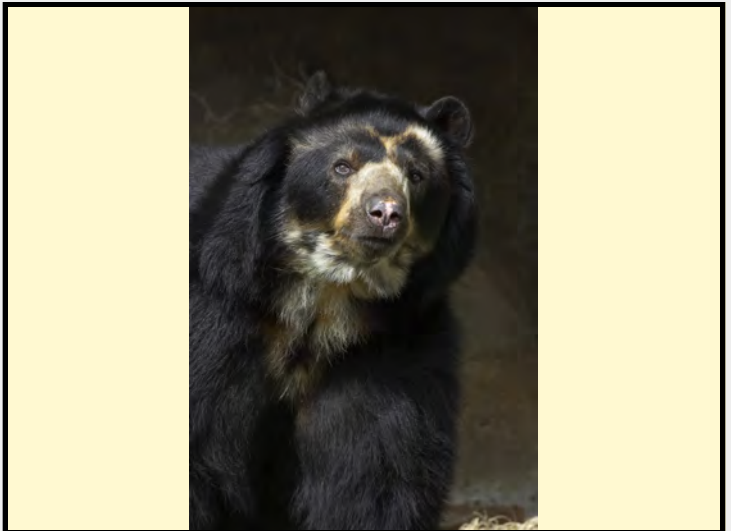
STAIN

Coomassie

HEAD SHAPE

Paddle

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

5.74

Head Width

4.14

Midpiece Length

7.16

Tail Length

55.36

Measure Total

68.26

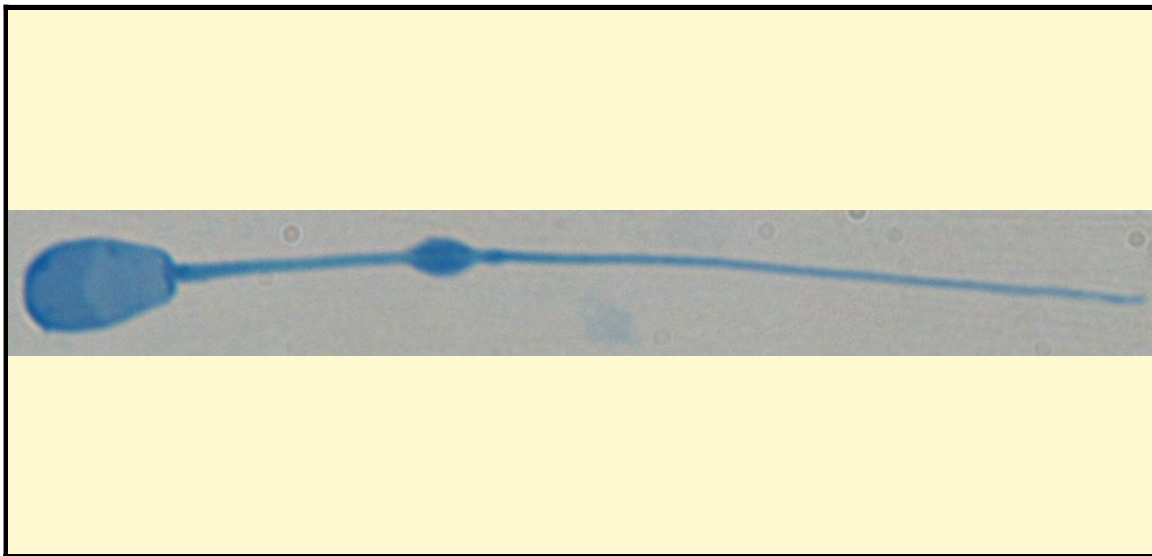
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Siberian Musk Deer

PICTURE



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CLASS

Mammalia

RP NUMBER

04-137

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

Ruminantia

HEAD SHAPE

Paddle

FAMILY

Moschidae

ANIMAL PICTURE

SUBFAMILY

Moschinae

GENUS

Moschus

SPECIES

M. moschiferus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.00

Head Width

5.00

Midpiece Length

15.00

Tail Length

43.00

Measure Total

66.00

NOTES



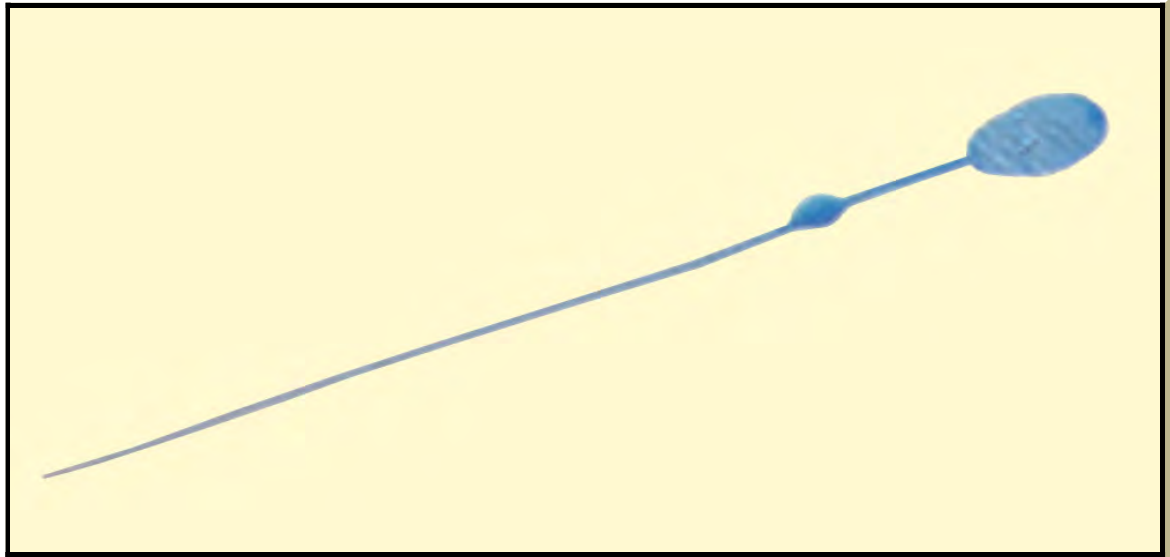
Cytoplasmic droplet present due to sperm being extracted directly from the vas deferens

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Nilgai

PICTURE



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CLASS

Mammalia

RP NUMBER

08-087

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Bovinae

GENUS

Boselaphus

SPECIES

B. tragocamelus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.62

Head Width

5.37

Midpiece Length

11.91

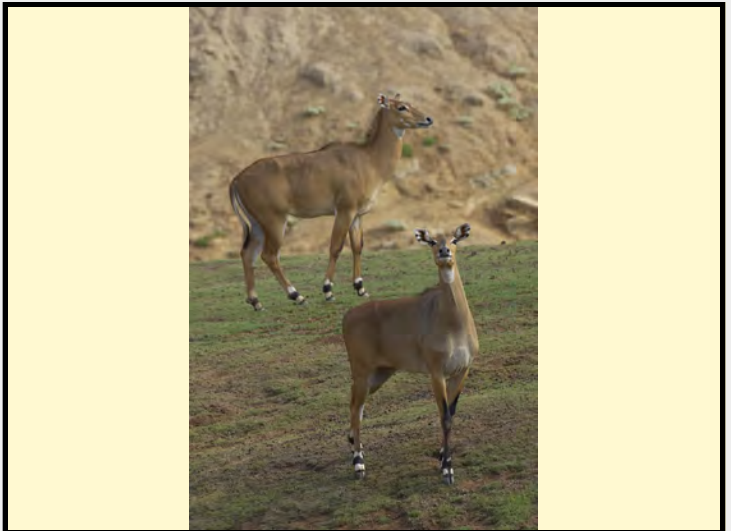
Tail Length

40.89

Measure Total

60.42

NOTES



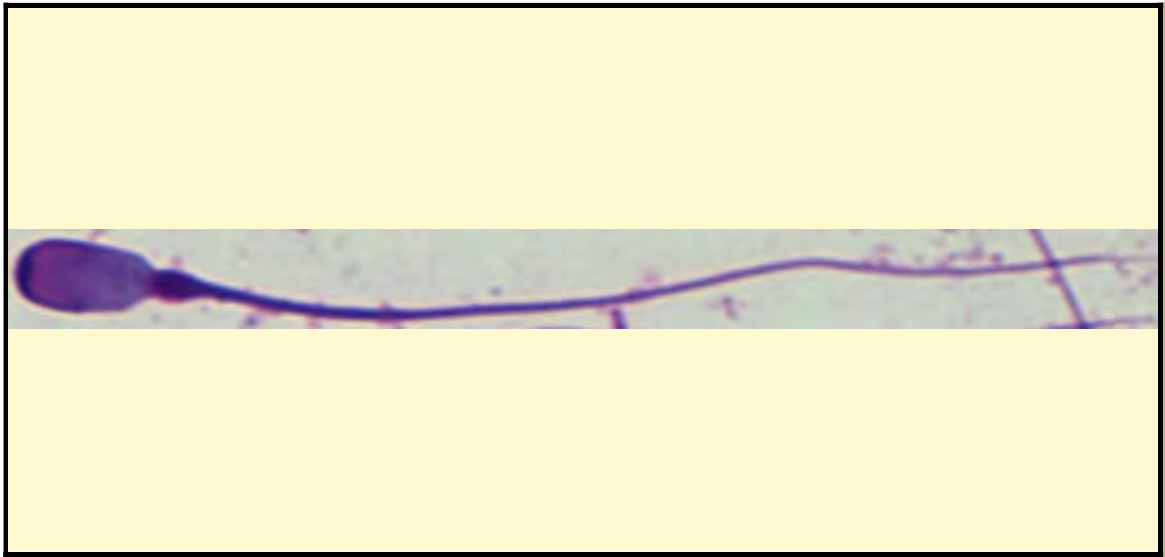
Cytoplasmic droplet present due to sperm being extracted directly from the vas deferens

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Chinese Bharal

PICTURE



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CLASS

Mammalia

RP NUMBER

06-024

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Caprinae

GENUS

Pseudois

SPECIES

P. nayaur

SUBSPECIES

P. nayaur szechuanensis

MEASUREMENTS (μ m)

Head Length

8.16

Head Width

4.53

Midpiece Length

14.80

Tail Length

43.46

Measure Total

66.43

NOTES

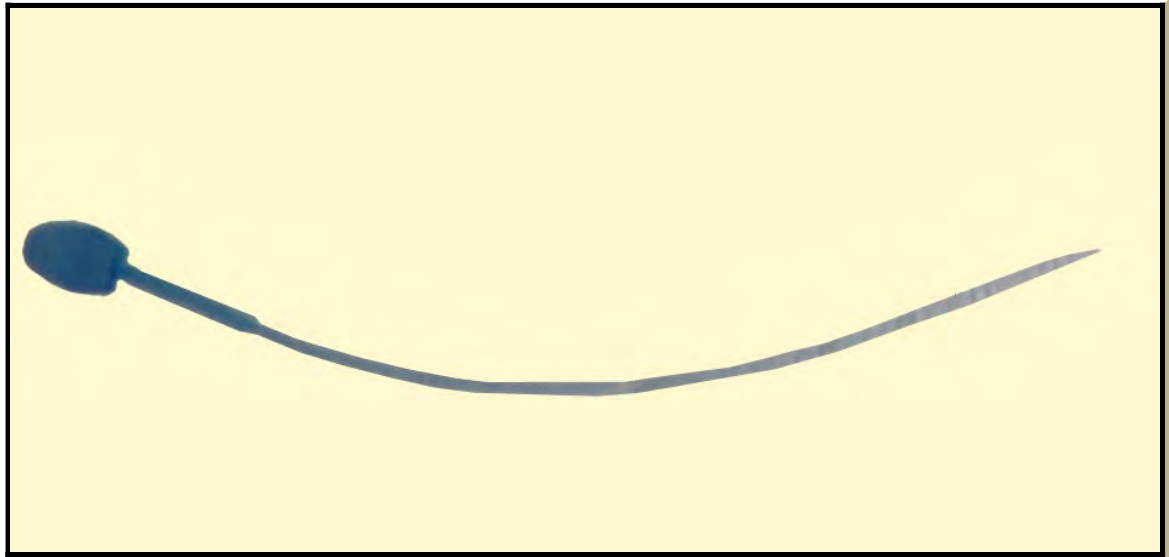


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Central American Agouti

PICTURE



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CLASS

Mammalia

RP NUMBER

08-053

ORDER

Rodentia

STAIN

Coomassie

SUBORDER

Hystricognatha

HEAD SHAPE

Round

FAMILY

Dasyproctidae

ANIMAL PICTURE

SUBFAMILY

Cuniculinae

GENUS

Dasyproctidae

SPECIES

D. punctata

SUBSPECIES

MEASUREMENTS (μm)

Head Length

4.67

Head Width

3.00

Midpiece Length

5.33

Tail Length

32.33

Measure Total

42.33

NOTES

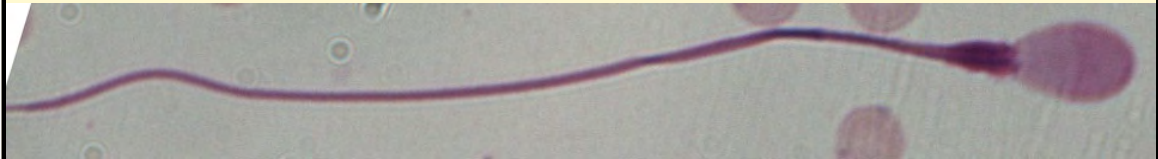


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Blesbok

PICTURE



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CLASS

Mammalia

RP NUMBER

08-056

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Round

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Alcelaphinae

GENUS

Damaliscus

SPECIES

D. Dorcas

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.70

Head Width

3.98

Midpiece Length

11.74

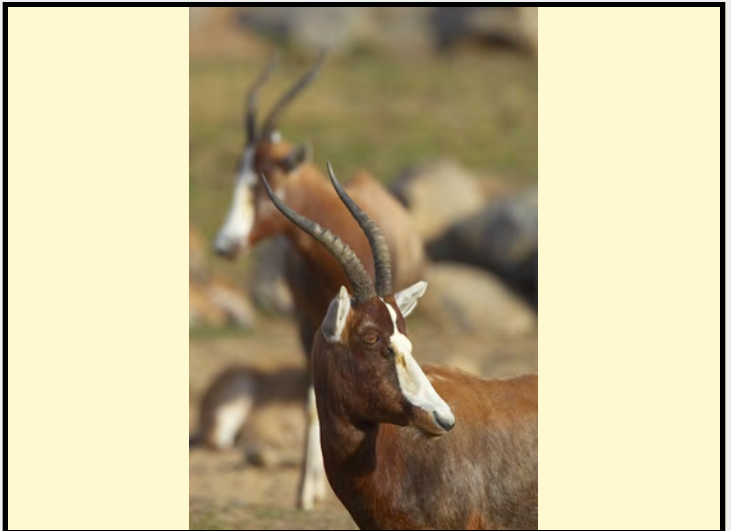
Tail Length

46.62

Measure Total

65.06

NOTES

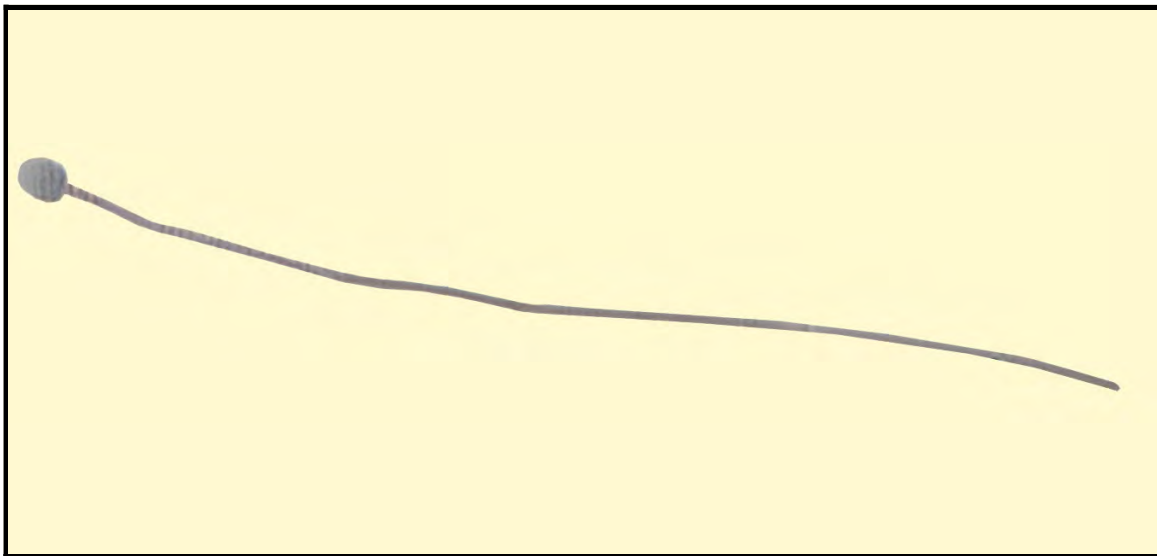


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Ruwenzori Long-haired Rousette (Fruit Bat)

PICTURE



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CLASS

Mammalia

RP NUMBER

03-081

ORDER

Chiroptera

STAIN

Pap

SUBORDER

Megachiroptera

HEAD SHAPE

Round

FAMILY

Pteropodidae

SUBFAMILY

GENUS

Rousettus

ANIMAL PICTURE

SPECIES

R. lanosus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

3.98

Head Width

3.12

Midpiece Length

15.57

Tail Length

68.16

Measure Total

87.71

NOTES



The entire tail is not captured in photograph of sperm because of its length.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

San Diego Gopher Snake

PICTURE



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CLASS

Reptilia

RP NUMBER

88-197

ORDER

Squamata

STAIN

Pap

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Acrochordidae

ANIMAL PICTURE

SUBFAMILY

Colubrinae

GENUS

Pituophis

SPECIES

P. melanoleucus

SUBSPECIES

P. melanoleucus annectens

MEASUREMENTS (μm)

Head Length

6.25

Head Width

2.50

Midpiece Length

3.75

Tail Length

77.50

Measure Total

87.50



NOTES

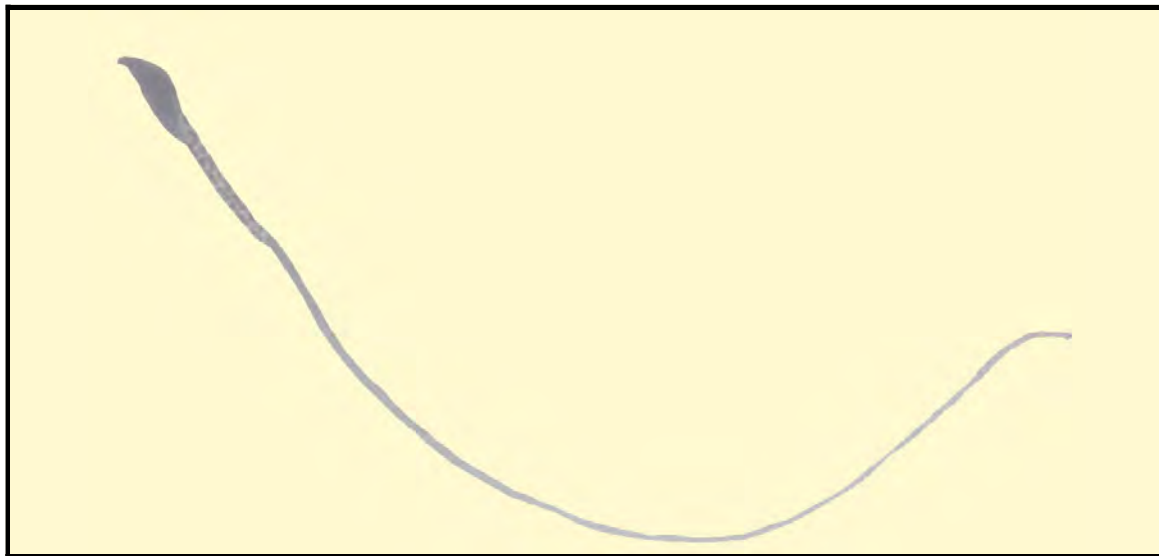
Due to length of tail, the picture does not encompass the entire sperm.
Sperm head slightly swollen due to processing.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Buergers' Tree Kangaroo

PICTURE



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CLASS

Mammalia

RP NUMBER

05-002

ORDER

Diprotodontia

STAIN

Pap

SUBORDER

Macropodiformes

HEAD SHAPE

Sickle

FAMILY

Macropodidae

ANIMAL PICTURE

SUBFAMILY

Macropodinae

GENUS

Dendrolagus

SPECIES

D. goodfellowi

SUBSPECIES

D. goodfellowi buergeri

MEASUREMENTS (μm)

Head Length

6.48

Head Width

3.11

Midpiece Length

8.32

Tail Length

88.27

Measure Total

103.07

NOTES



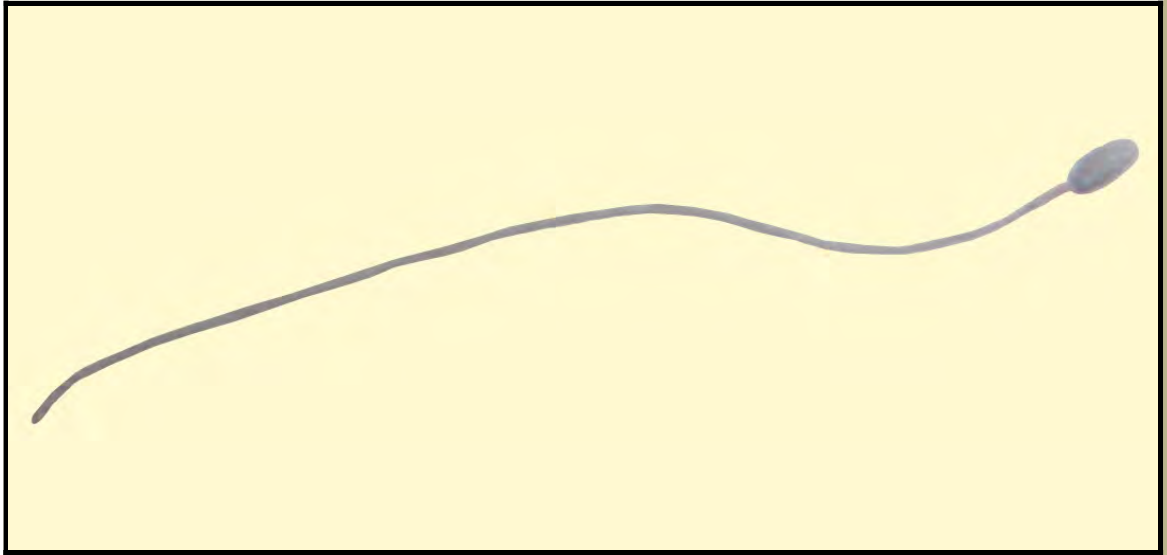
The entire tail is not captured in photograph because of its length.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Dwarf Mongoose

PICTURE



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CLASS

Mammalia

RP NUMBER

03-002

ORDER

Carnivora

STAIN

Pap

SUBORDER

Feliformia

HEAD SHAPE

Oval

FAMILY

Herpestidae

ANIMAL PICTURE

SUBFAMILY

Herpestinae

GENUS

Helogale

SPECIES

H. parvula

SUBSPECIES

MEASUREMENTS (μm)

Head Length

4.76

Head Width

2.59

Midpiece Length

9.87

Tail Length

47.00

Measure Total

61.63

NOTES

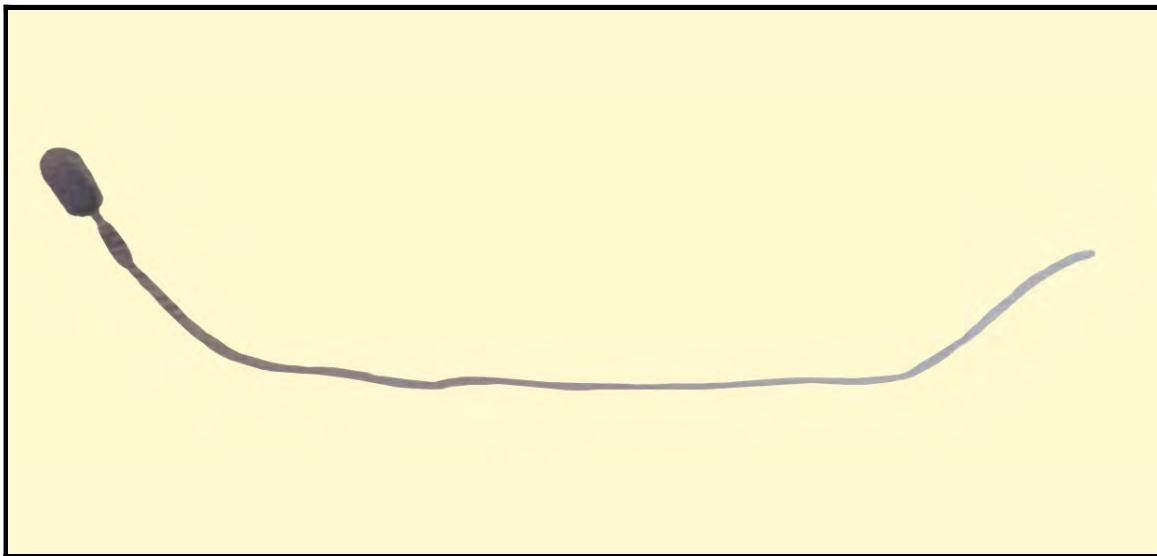


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Bottlenose Dolphin

PICTURE



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CLASS

Mammalia

RP NUMBER

03-216

ORDER

Cete

STAIN

Pap

SUBORDER

Cetacea

HEAD SHAPE

Oval

FAMILY

Delphinidae

ANIMAL PICTURE

SUBFAMILY

Delphininae

GENUS

Tursiops

SPECIES

T. aduncus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

4.72

Head Width

2.46

Midpiece Length

3.67

Tail Length

54.35

Measure Total

62.74

NOTES



Cytoplasmic droplet present due to sperm being extracted directly from the vas deferens
Photo credit: Chris Tubbs

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Grand Cayman Iguana

PICTURE



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CLASS

Sauropsida

RP NUMBER

04-099

ORDER

Squamata

STAIN

None

SUBORDER

Lacertilia

HEAD SHAPE

Filiform

FAMILY

Iguanidae

SUBFAMILY

GENUS

Cyclura

ANIMAL PICTURE

SPECIES

Cyclura lewisi

SUBSPECIES

MEASUREMENTS (μm)

Head Length

13.93

Head Width

1.99

Midpiece Length

3.98

Tail Length

69.65

Measure Total

87.56



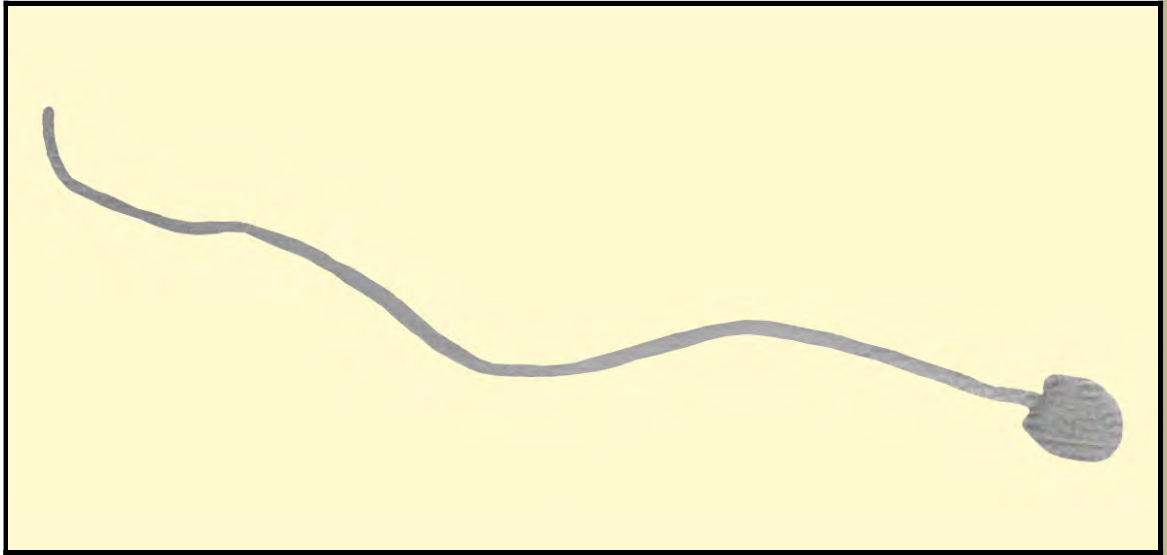
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

California Sea Lion

PICTURE



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CLASS

Mammalia

RP NUMBER

04-121

ORDER

Carnivora

STAIN

Pap

SUBORDER

Pinnipedia

HEAD SHAPE

Round

FAMILY

Otariidae

ANIMAL PICTURE

SUBFAMILY

Otariinae

GENUS

Zalophus

SPECIES

Z. californianus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

4.00

Head Width

3.00

Midpiece Length

3.00

Tail Length

29.00

Measure Total

36.00



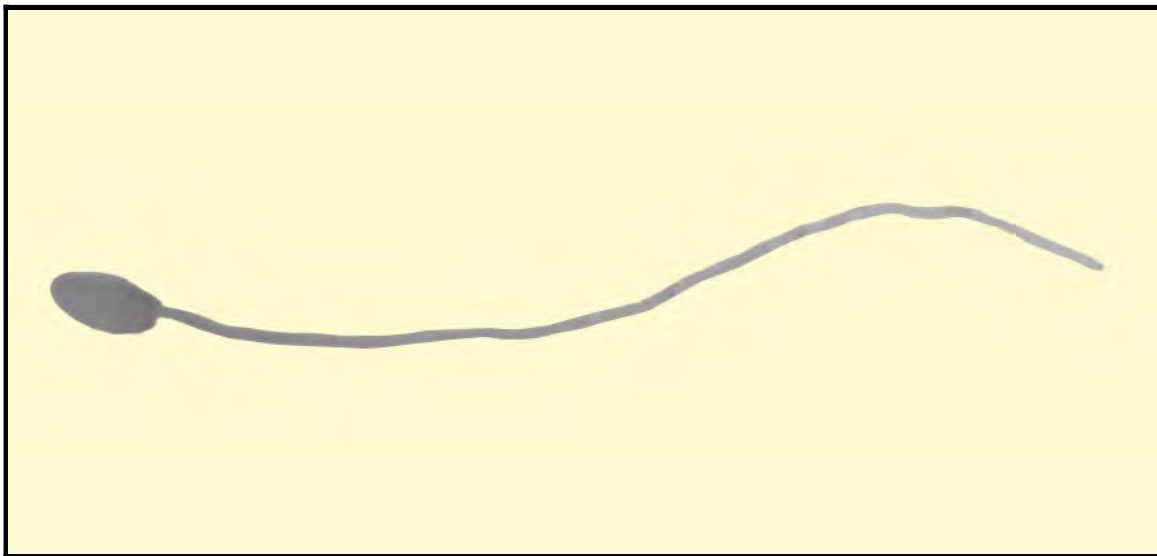
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Somali Wild Ass

PICTURE



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CLASS

Mammalia

RP NUMBER

03-059

ORDER

Perissodactyla

STAIN

Pap

SUBORDER

Hippomorpha

HEAD SHAPE

Oval

FAMILY

Equidae

SUBFAMILY

GENUS

Equus

ANIMAL PICTURE

SPECIES

E. africanus

SUBSPECIES

E. africanus somalicus

MEASUREMENTS (μm)

Head Length

6.32

Head Width

2.37

Midpiece Length

10.27

Tail Length

59.25

Measure Total

75.84

NOTES



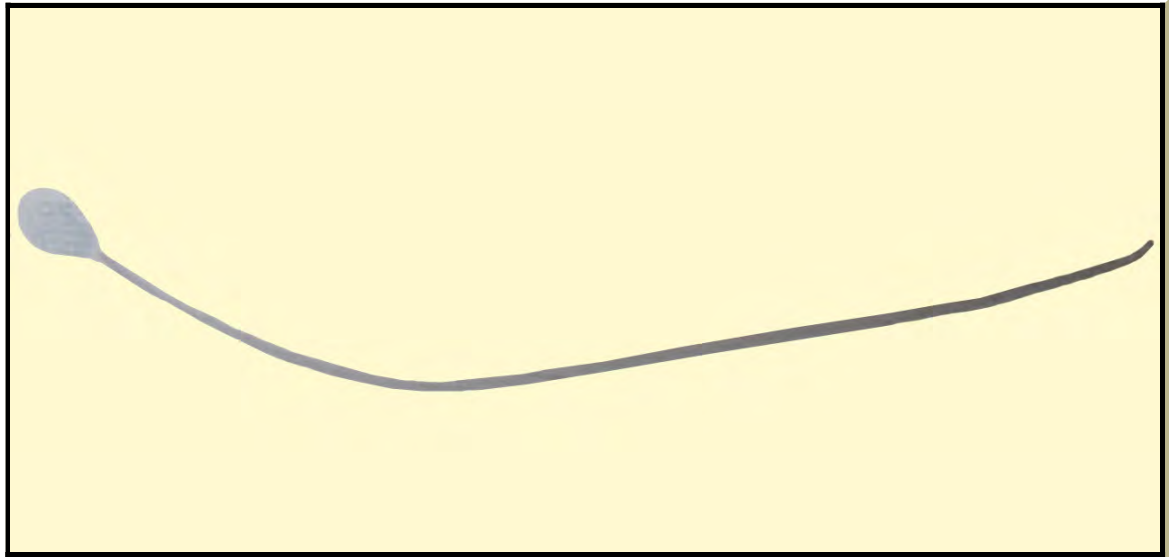
acentric head attachment is normal

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Kinkajou (Honey Bear)

PICTURE



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CLASS

Mammalia

RP NUMBER

04-103

ORDER

Carnivora

STAIN

Pap

SUBORDER

Caniformia

HEAD SHAPE

Round

FAMILY

Procyonidae

ANIMAL PICTURE

SUBFAMILY

Bassariscinae

GENUS

Potos

SPECIES

P. flavus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.53

Head Width

3.95

Midpiece Length

21.33

Tail Length

52.93

Measure Total

79.79

NOTES

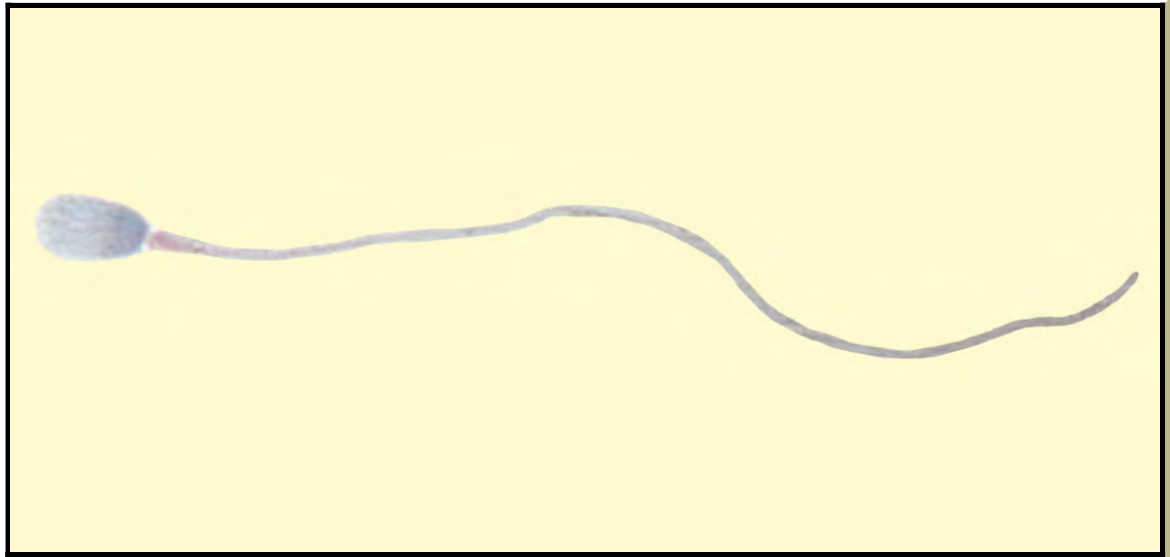


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Vaal Rhebok

PICTURE



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CLASS

Mammalia

RP NUMBER

03-071

ORDER

Artiodactyla

STAIN

Pap

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Peleinae

GENUS

Pelea

SPECIES

P. capreolus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

5.32

Head Width

3.99

Midpiece Length

10.32

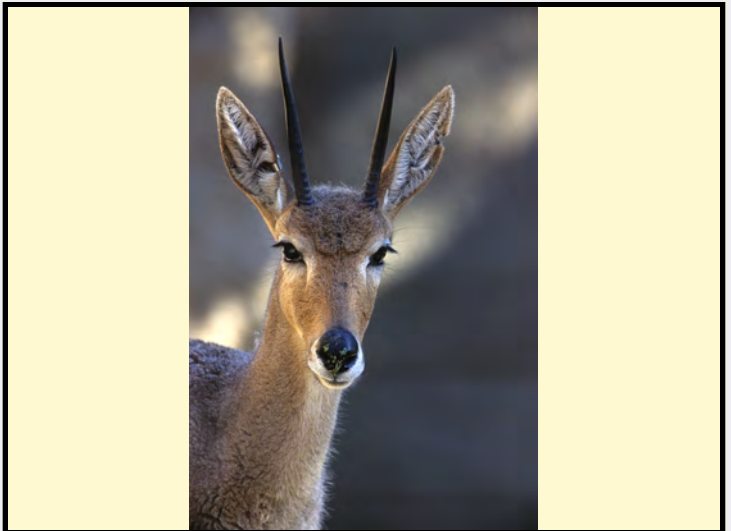
Tail Length

42.89

Measure Total

58.53

NOTES

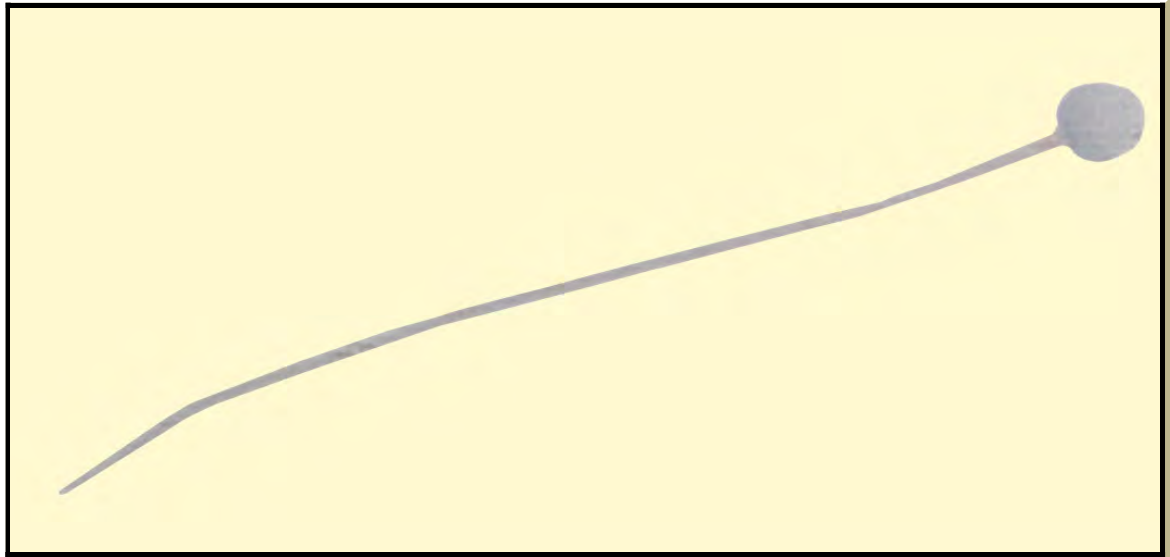


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Ring-Tailed Lemur

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Mammalia

ORDER

Primates

SUBORDER

Strepsirrhini

FAMILY

Lemuridae

SUBFAMILY

Lemurinae

GENUS

Lemur

SPECIES

L. catta

SUBSPECIES

RP NUMBER

04-156

STAIN

Pap

HEAD SHAPE

Round

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

4.00

Head Width

3.00

Midpiece Length

12.00

Tail Length

38.00

Measure Total

54.00

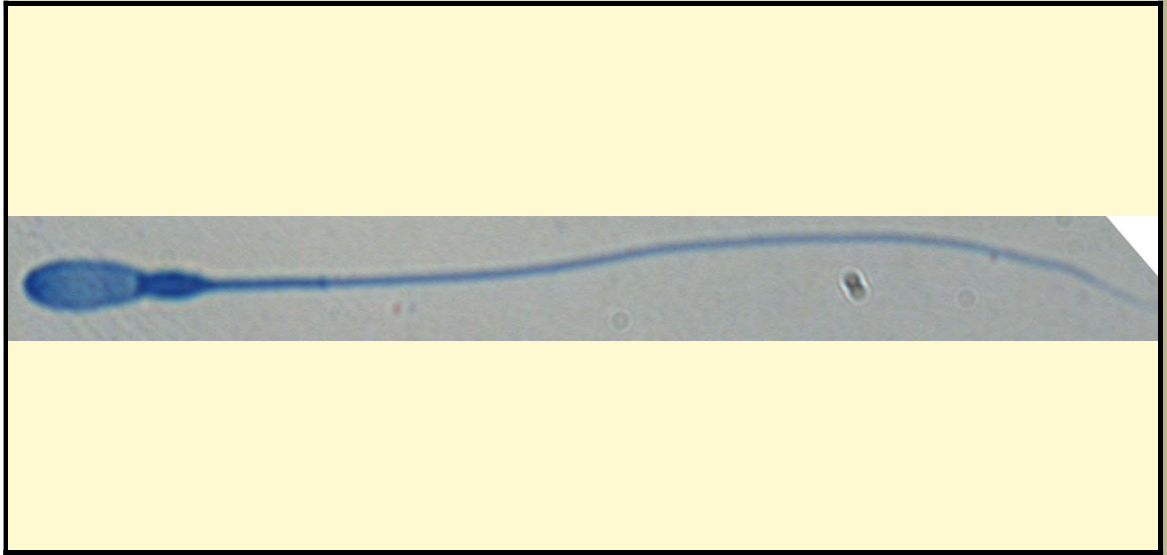
NOTES

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SPERM ATLAS

COMMON NAME

Okapi

PICTURE



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CLASS

Mammalia

RP NUMBER

12-129

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Giraffidae

ANIMAL PICTURE

SUBFAMILY

Giraffinae

GENUS

Okapia

SPECIES

O. johnstoni

SUBSPECIES

MEASUREMENTS (μm)

Head Length

4.46

Head Width

2.31

Midpiece Length

15.49

Tail Length

31.06

Measure Total

51.01

NOTES

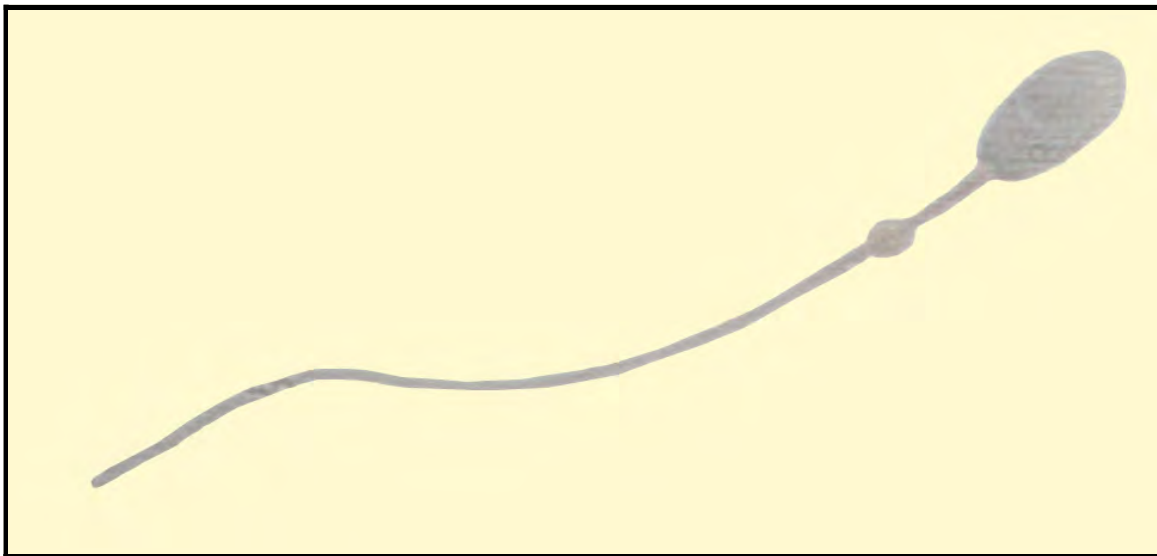


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Columbia Basin Pygmy Rabbit

PICTURE



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CLASS

Mammalia

RP NUMBER

06-100

ORDER

Lagomorpha

STAIN

Pap

SUBORDER

HEAD SHAPE

Oval

FAMILY

Leporidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Brachylagus

SPECIES

B. idahoensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.50

Head Width

4.00

Midpiece Length

15.00

Tail Length

25.50

Measure Total

48.00



NOTES

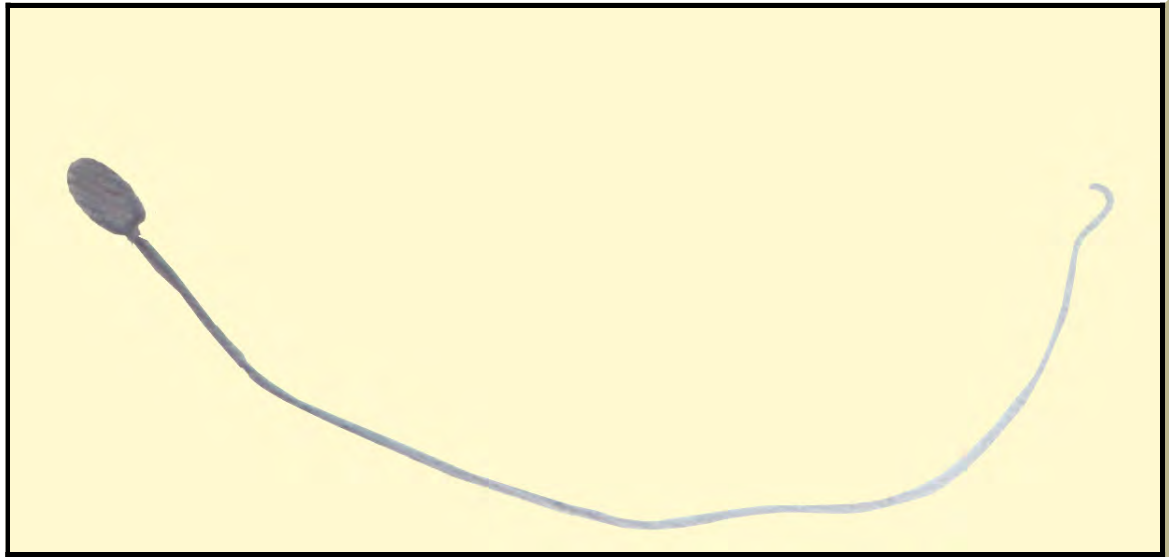
Cytoplasmic droplet present due to sperm being extracted directly from the vas deferens
Photo credit: Copyright Oregon Zoo

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

South African Aardvark

PICTURE



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CLASS

Mammalia

RP NUMBER

08-013

ORDER

Tubulidentata

STAIN

Pap

SUBORDER

HEAD SHAPE

Oval

FAMILY

Orycteropodidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Orycteropus

SPECIES

O. after

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

3.75

Midpiece Length

24.00

Tail Length

63.50

Measure Total

93.50



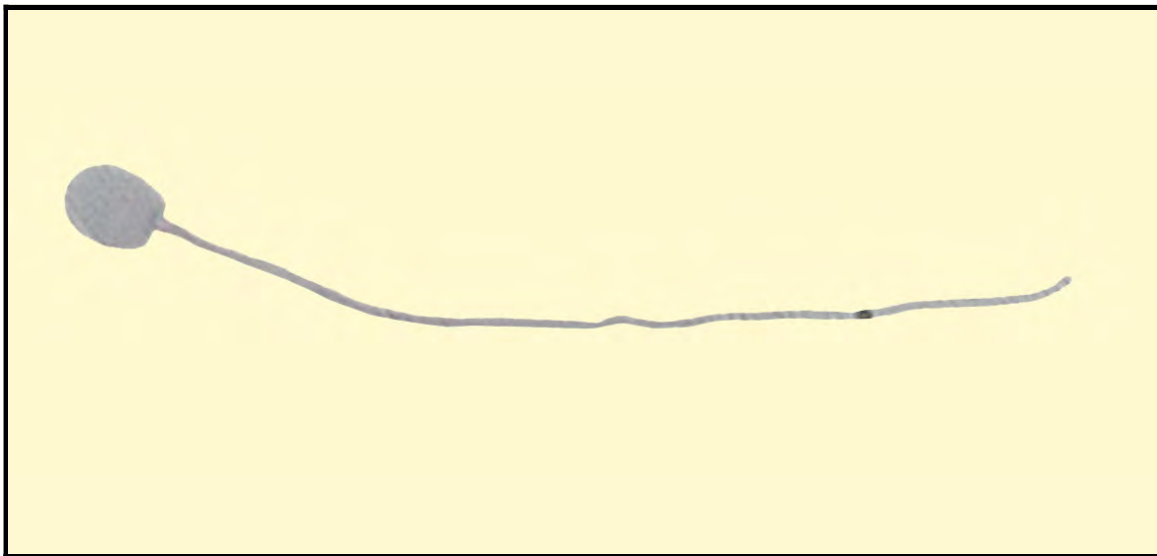
NOTES

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

European Otter

PICTURE



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CLASS

Mammalia

RP NUMBER

02-386

ORDER

Carnivora

STAIN

Pap

SUBORDER

Caniformia

HEAD SHAPE

Round

FAMILY

Mustelidae

ANIMAL PICTURE

SUBFAMILY

Lutrinae

GENUS

Lutra

SPECIES

L. lutra

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.49

Head Width

5.49

Midpiece Length

16.94

Tail Length

46.91

Measure Total

70.34

NOTES



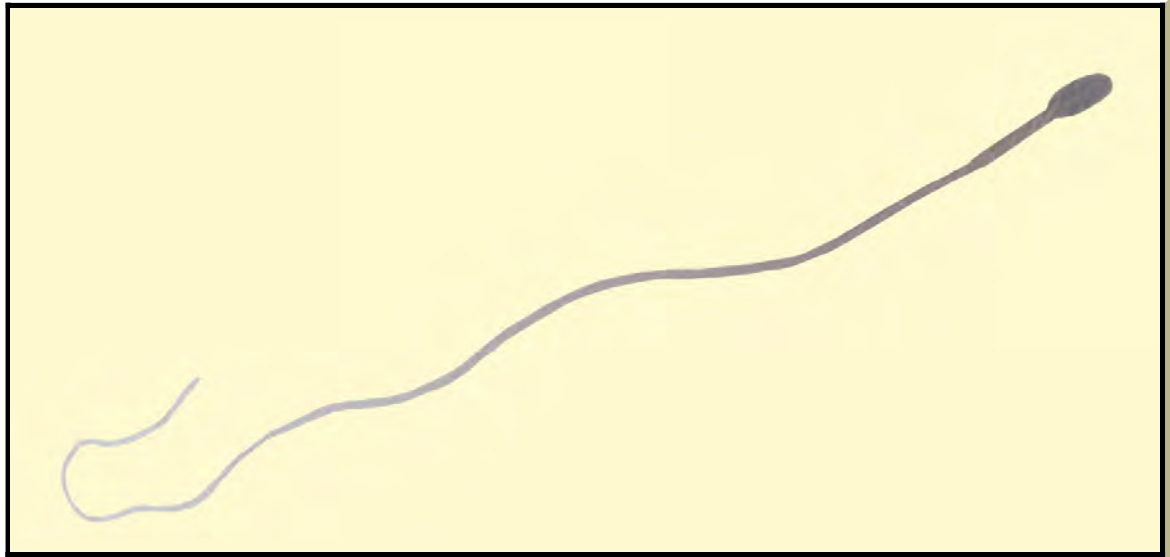
possibly normal acentric head attachments

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Feather-Tailed Glider

PICTURE



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CLASS

Mammalia

RP NUMBER

03-278

ORDER

Diprotodontia

STAIN

Pap

SUBORDER

Phalangerida

HEAD SHAPE

Oval

FAMILY

Acrobatidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Acrobates

SPECIES

Acrobates pygmaeus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.16

Head Width

3.58

Midpiece Length

12.00

Tail Length

83.27

Measure Total

102.43

NOTES

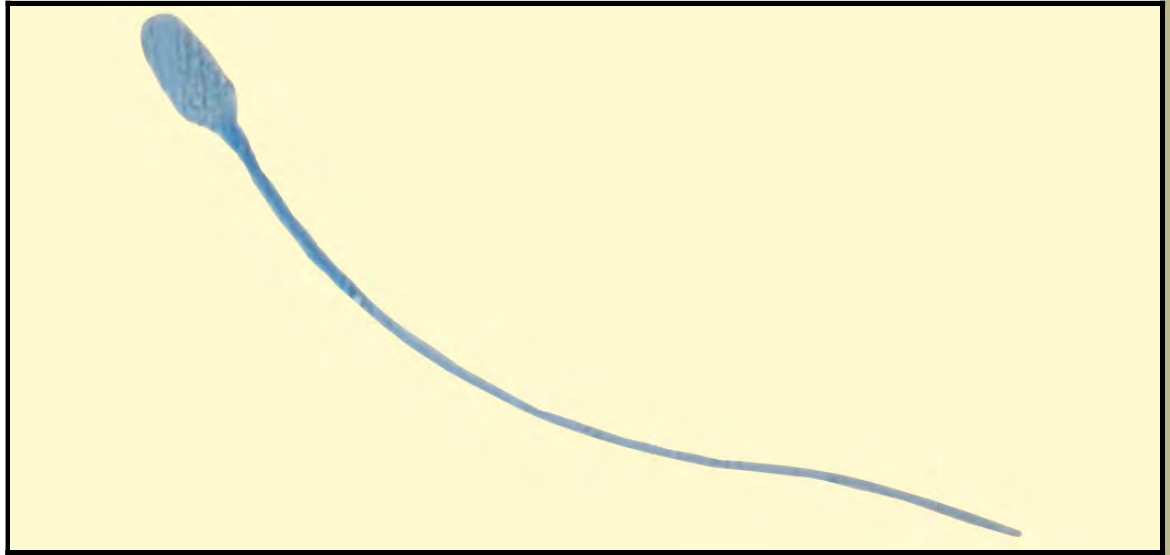


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Himalayan Tahr

PICTURE



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CLASS

Mammalia

RP NUMBER

05-007

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Caprinae

GENUS

Hemitragus

SPECIES

H. jemlahicus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.66

Head Width

3.58

Midpiece Length

10.18

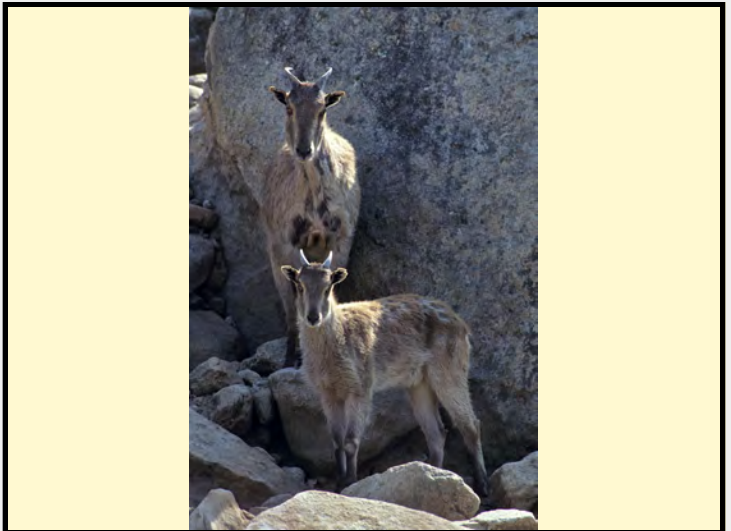
Tail Length

44.97

Measure Total

62.81

NOTES

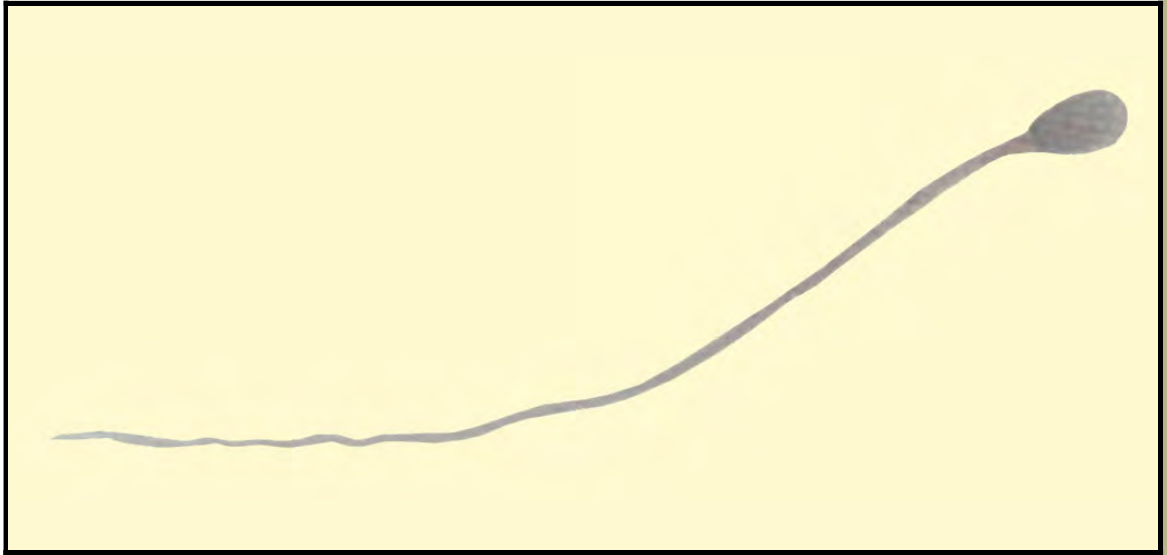


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Persian Leopard

PICTURE



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CLASS

Mammalia

ORDER

Carnivora

SUBORDER

Feliformia

FAMILY

Felidae

SUBFAMILY

Pantherinae

GENUS

Panthera

SPECIES

P. pardus

SUBSPECIES

P. pardus saxicolor

RP NUMBER

03-052

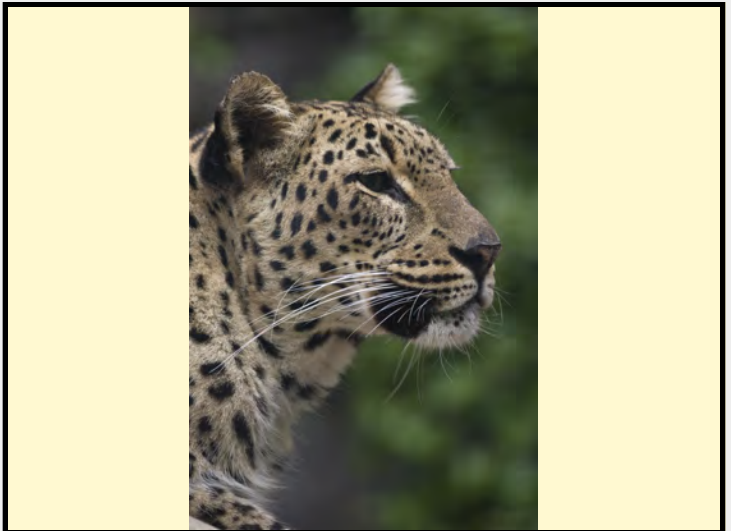
STAIN

Pap

HEAD SHAPE

Oval

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

4.48

Head Width

2.37

Midpiece Length

8.95

Tail Length

37.02

Measure Total

43.86

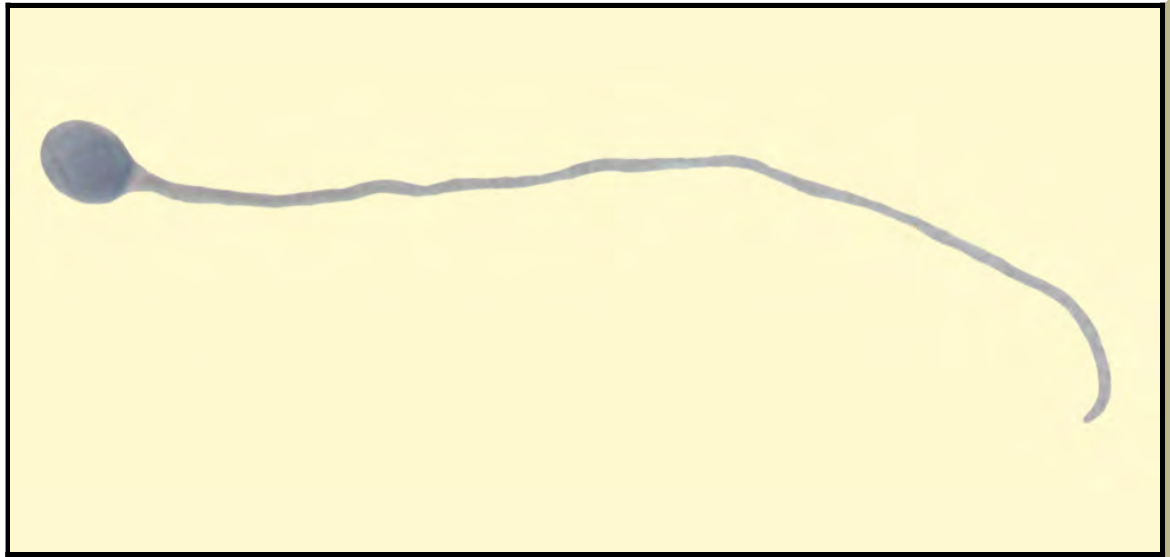
NOTES

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SPERM ATLAS

COMMON NAME

Allen's Swamp Monkey

PICTURE



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CLASS

Mammalia

RP NUMBER

03-177

ORDER

Primates

STAIN

Pap

SUBORDER

Haplorrhini

HEAD SHAPE

Round

FAMILY

Cercopithecidae

ANIMAL PICTURE

SUBFAMILY

Cercopithecidae

GENUS

Allenopithecus

SPECIES

A. nigroviridis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.62

Head Width

3.32

Midpiece Length

9.32

Tail Length

57.54

Measure Total

66.49

NOTES

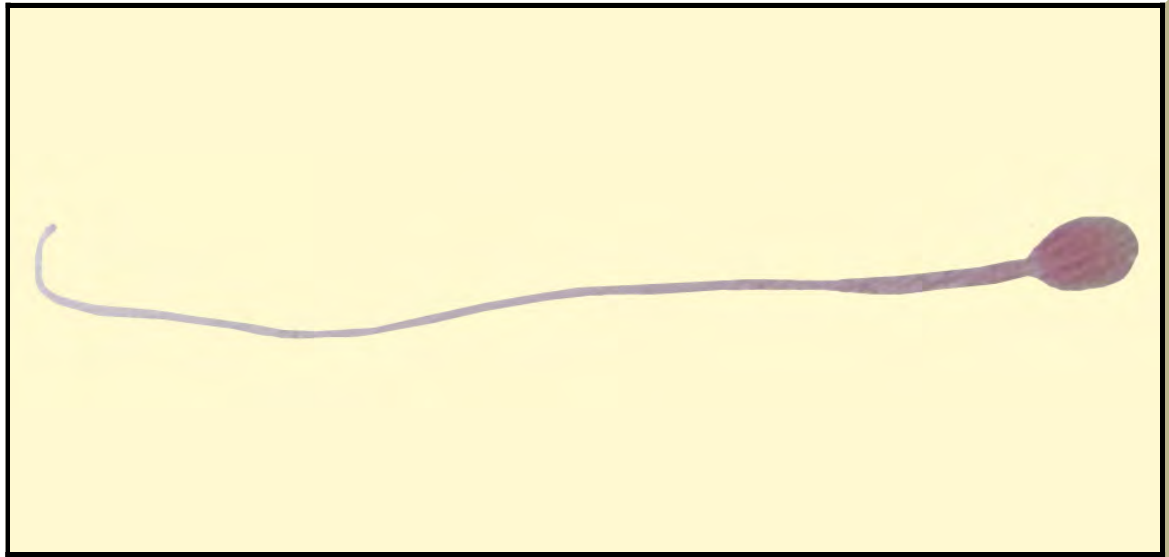


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

East African River Hippopotamus

PICTURE



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CLASS

Mammalia

RP NUMBER

87-146

ORDER

Artiodactyla

STAIN

H&E

SUBORDER

Suiformes

HEAD SHAPE

Round

FAMILY

Hippopotamidae

SUBFAMILY

Hippopotaminae

GENUS

Hippopotamus

ANIMAL PICTURE

SPECIES

H. amphibius

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

3.00

Head Width

Midpiece Length

4.00

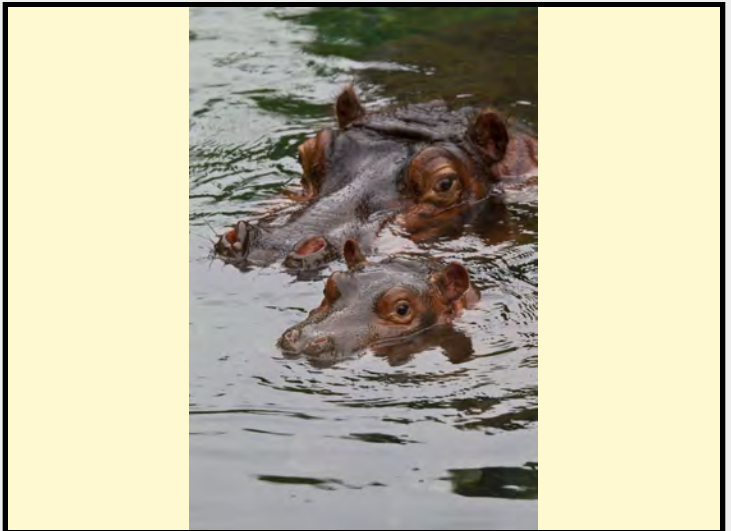
Tail Length

45.00

Measure Total

52.00

NOTES

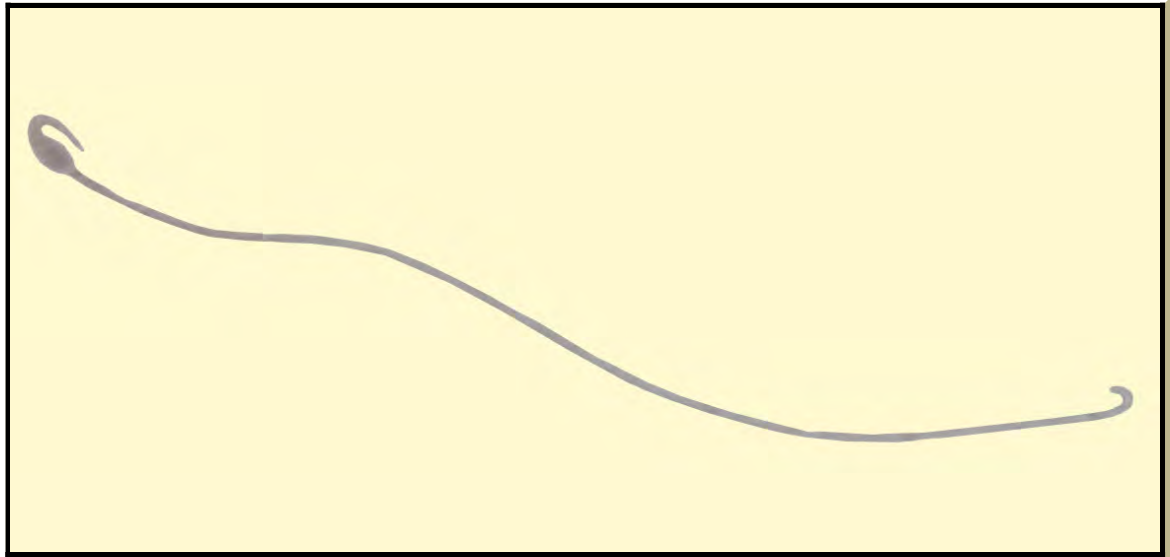


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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Cape Pouched Mouse

PICTURE



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CLASS

Mammalia

RP NUMBER

00-305

ORDER

Rodentia

STAIN

Pap

SUBORDER

Myomorpha

HEAD SHAPE

Hook

FAMILY

Nesomyidae

SUBFAMILY

Cricetomyinae

ANIMAL PICTURE

GENUS

Saccostomus

SPECIES

S. campestris

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.60

Head Width

2.17

Midpiece Length

13.50

Tail Length

89.66

Measure Total

108.77

NOTES

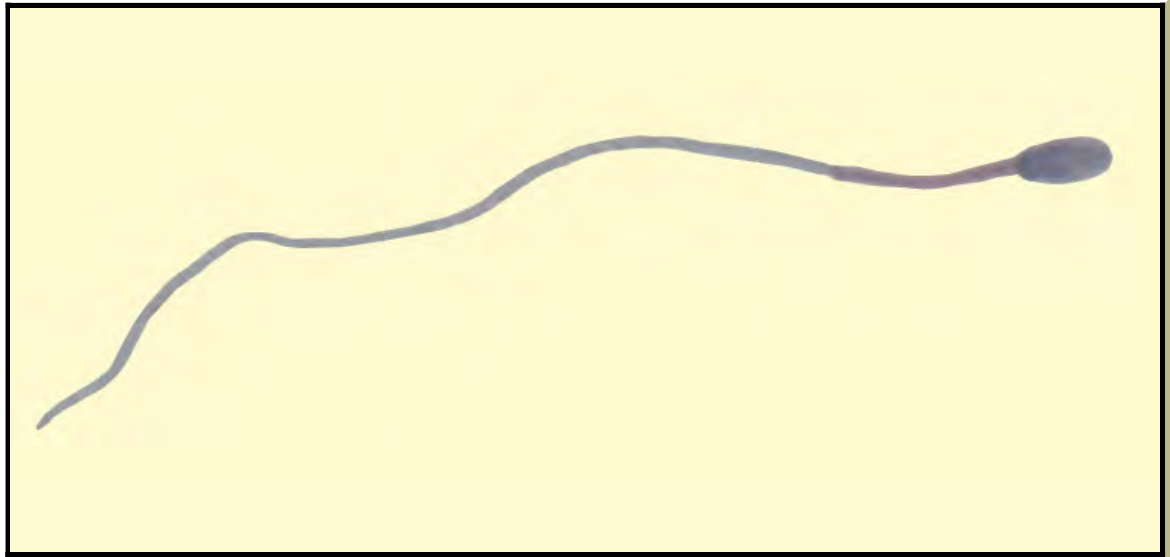


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Siberian Pallas' Cat

PICTURE



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CLASS

Mammalia

RP NUMBER

08-011

ORDER

Carnivora

STAIN

Pap

SUBORDER

Feliformia

HEAD SHAPE

Oval

FAMILY

Felidae

SUBFAMILY

Felinae

GENUS

Otocolobus

ANIMAL PICTURE

SPECIES

O. manul

SUBSPECIES

O. manul manul



MEASUREMENTS (μm)

Head Length

5.00

Head Width

2.00

Midpiece Length

9.00

Tail Length

41.00

Measure Total

55.00

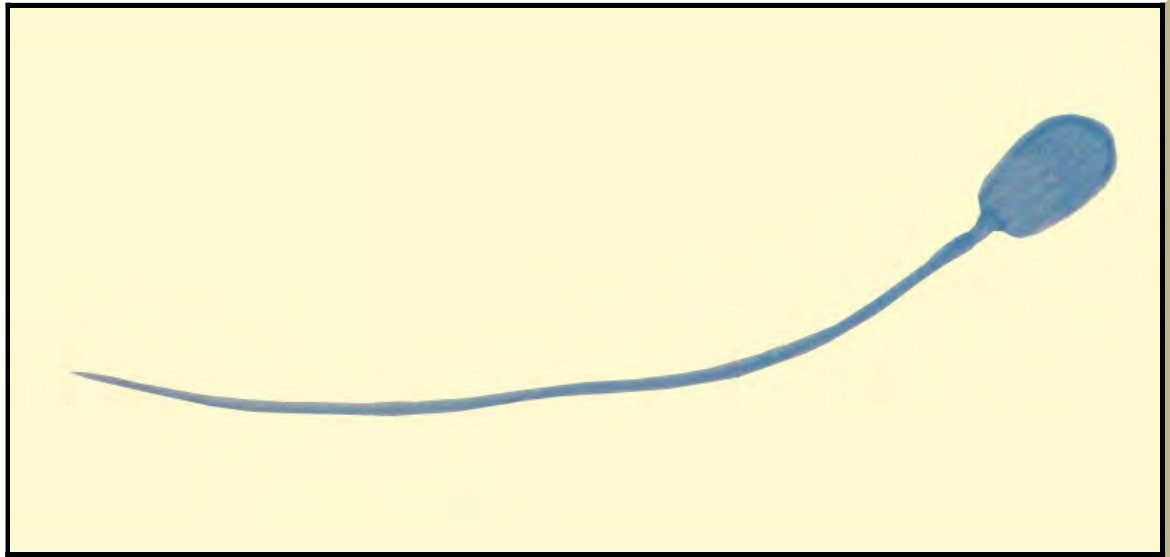
NOTES

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SPERM ATLAS

COMMON NAME

Warthog

PICTURE



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CLASS

Mammalia

ORDER

Artiodactyla

SUBORDER

Suiformes

FAMILY

Suidae

SUBFAMILY

Suinae

GENUS

Phacochoerus

SPECIES

P. africanus

SUBSPECIES

RP NUMBER

09-051

STAIN

Coomassie

HEAD SHAPE

Paddle

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

8.21

Head Width

4.97

Midpiece Length

15.89

Tail Length

26.70

Measure Total

50.80

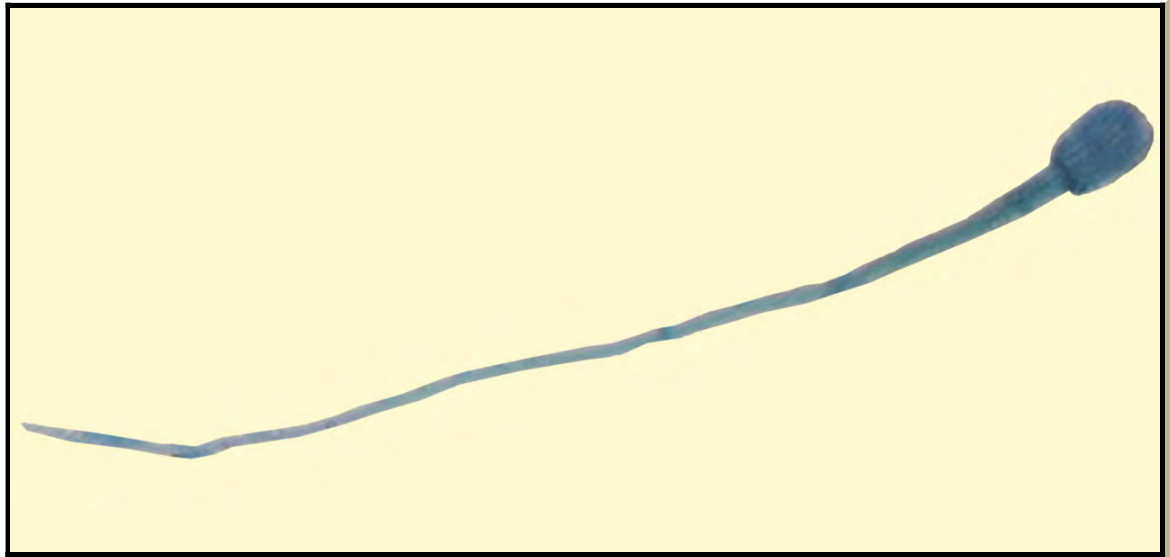
NOTES

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Sun Bear

PICTURE



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CLASS

Mammalia

ORDER

Carnivora

SUBORDER

Caniformia

FAMILY

Ursidae

SUBFAMILY

Ursinae

GENUS

Helarctos

SPECIES

H. malayanus

SUBSPECIES

H. malayanus

RP NUMBER

05-109

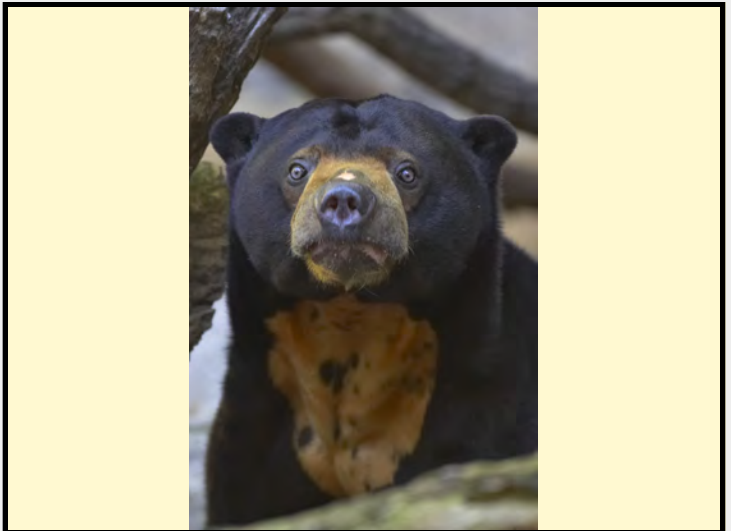
STAIN

Coomassie

HEAD SHAPE

Oval

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

4.72

Head Width

3.48

Midpiece Length

7.97

Tail Length

49.76

Measure Total

62.45

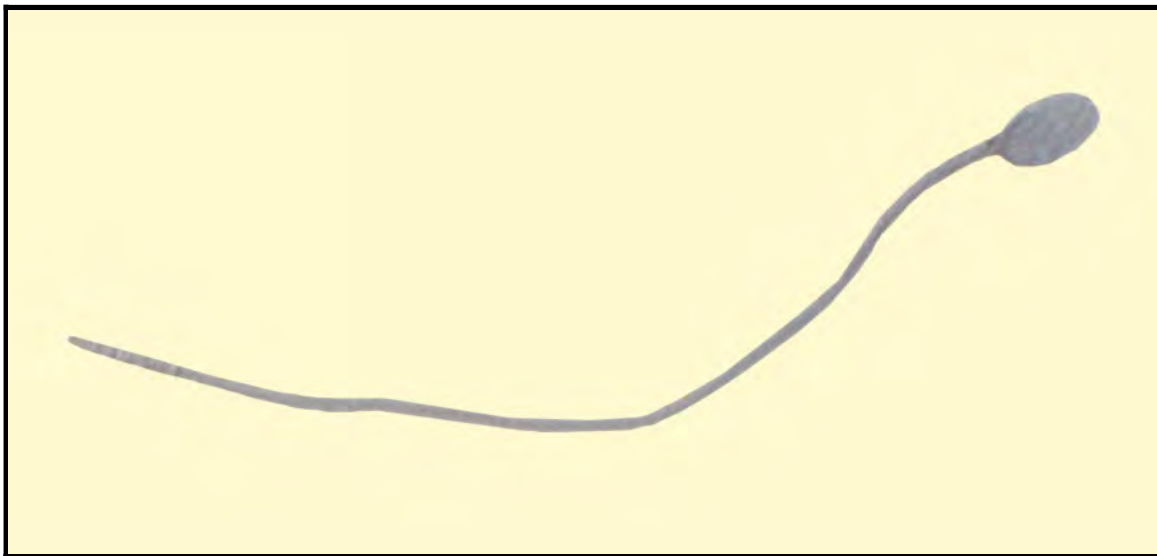
NOTES

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SPERM ATLAS

COMMON NAME

Eastern Kiang

PICTURE



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CLASS

Mammalia

RP NUMBER

07-205

ORDER

Perissodactyla

STAIN

Pap

SUBORDER

Hippomorpha

HEAD SHAPE

Oval

FAMILY

Equidae

SUBFAMILY

GENUS

Equus

ANIMAL PICTURE

SPECIES

E. kiang

SUBSPECIES

E. kiang holdereri

MEASUREMENTS (μ m)

Head Length

5.50

Head Width

3.00

Midpiece Length

9.00

Tail Length

43.50

Measure Total

58.00

NOTES



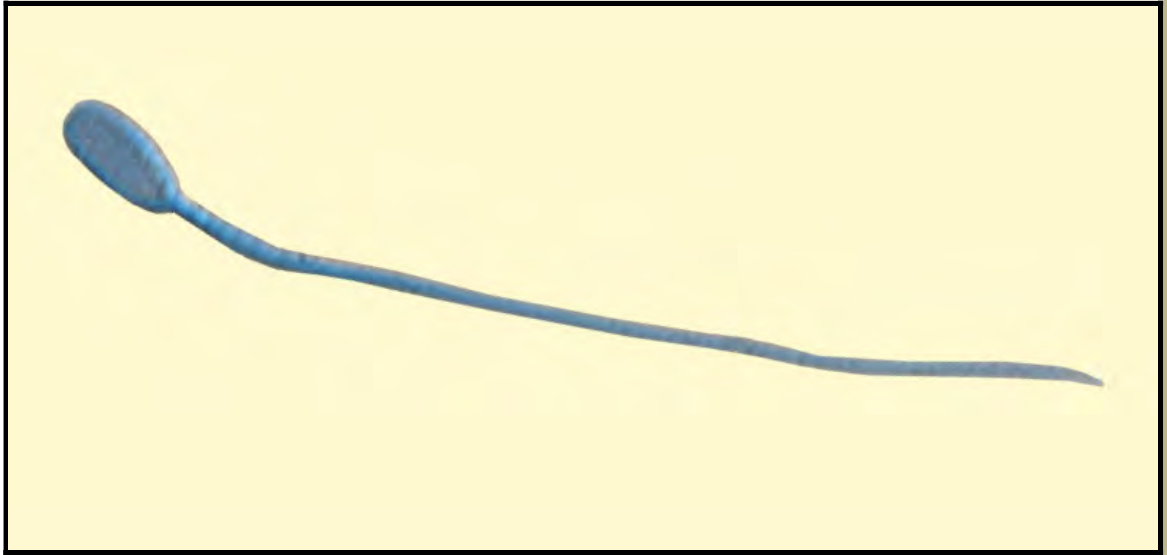
Most sperm appear to have accentric head attachments.

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Guanaco

PICTURE



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CLASS

Mammalia

RP NUMBER

09-061

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

Tylopoda

HEAD SHAPE

Oval

FAMILY

Camelidae

ANIMAL PICTURE

SUBFAMILY

Camelinae

GENUS

Lama

SPECIES

L. guanicoe

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.00

Head Width

3.00

Midpiece Length

15.00

Tail Length

35.00

Measure Total

56.00

NOTES

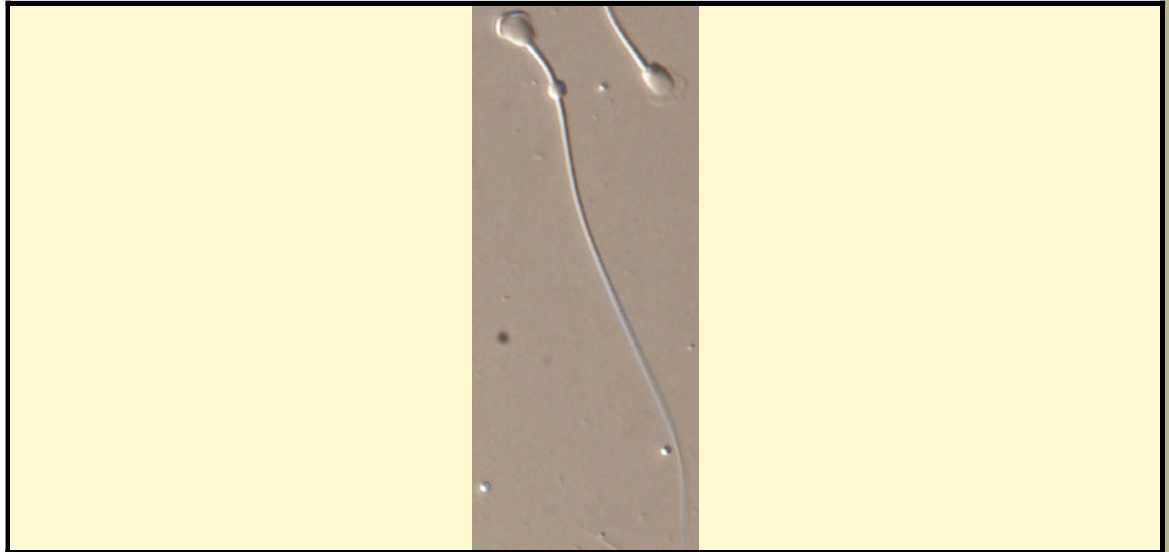


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Bengal Slow Loris

PICTURE



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CLASS

Mammalia

RP NUMBER

04-176

ORDER

Primates

STAIN

None

SUBORDER

Euprimates

HEAD SHAPE

Round

FAMILY

Lorisidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Nycticebus

SPECIES

N. bengalensis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.50

Head Width

3.75

Midpiece Length

12.00

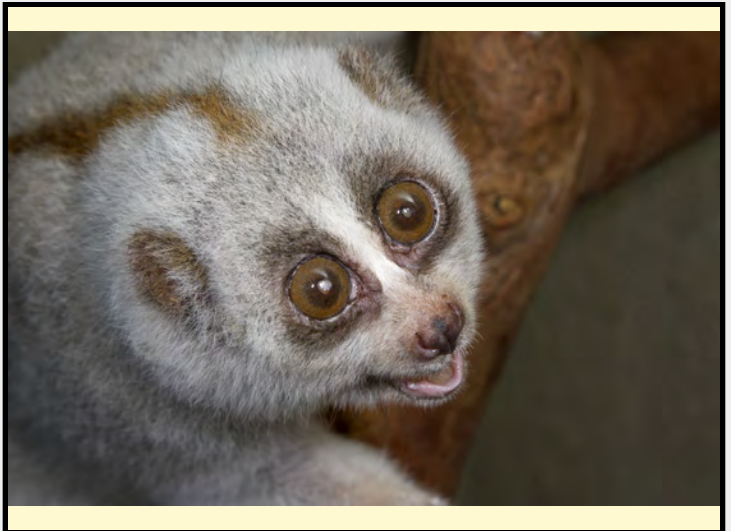
Tail Length

55.00

Measure Total

72.50

NOTES

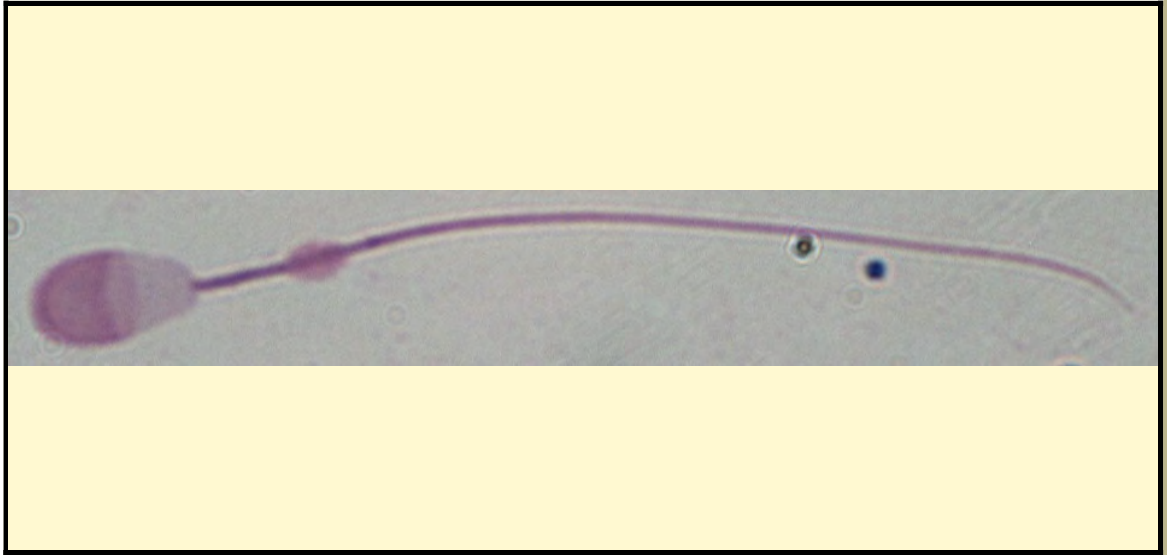


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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Kenya Impala

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Aepycerotinae

GENUS

Aepyceros

SPECIES

A. melampus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

8.92

Head Width

5.71

Midpiece Length

11.77

Tail Length

38.36

Measure Total

56.05

NOTES

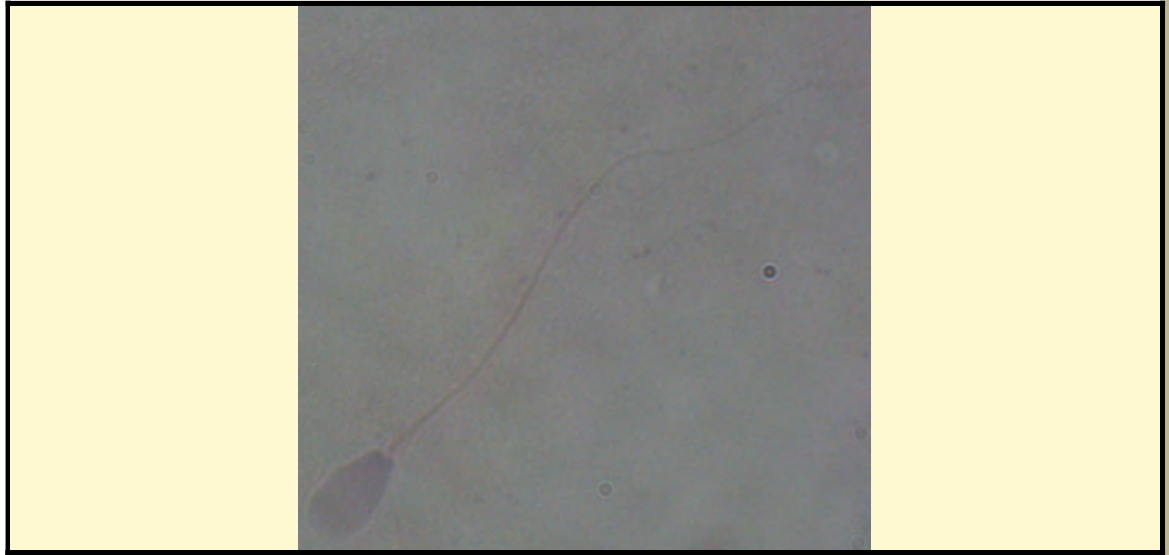


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Javan Rusa

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Artiodactyla

STAIN

Pap

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Cervinae

GENUS

Rusa

SPECIES

R. timorensis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

9.14

Head Width

5.16

Midpiece Length

12.23

Tail Length

35.83

Measure Total

57.21



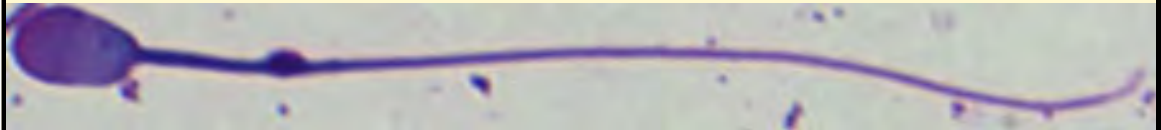
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Addax

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

FAMILY

Bovidae

HEAD SHAPE

Oval

SUBFAMILY

Hippotraginae

GENUS

Addax

ANIMAL PICTURE

SPECIES

A. nasomaculatus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.92

Head Width

4.29

Midpiece Length

10.71

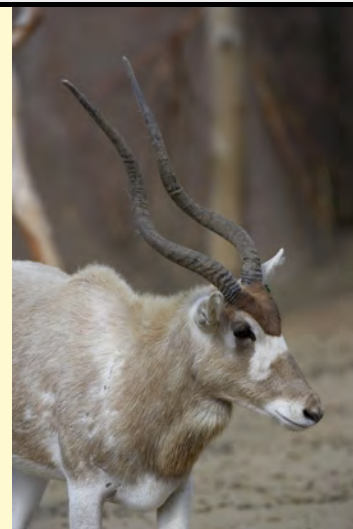
Tail Length

41.76

Measure Total

59.39

NOTES

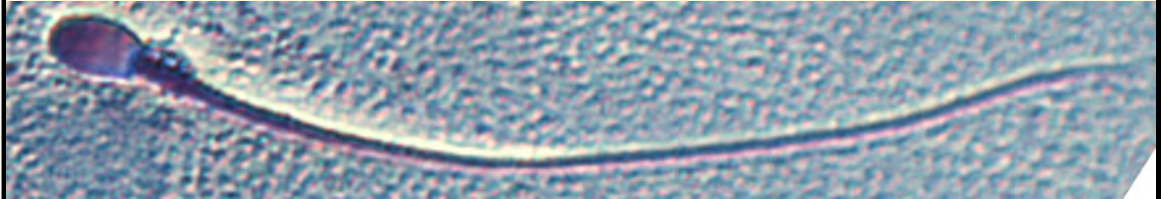


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Malayan Tiger

PICTURE



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CLASS

Mammala

RP NUMBER

ORDER

Carnivora

STAIN

Pope

SUBORDER

FAMILY

Felidae

HEAD SHAPE

Round

SUBFAMILY

GENUS

Panthera

ANIMAL PICTURE

SPECIES

P. tigris

SUBSPECIES

P. t. jacksoni

MEASUREMENTS (μm)

Head Length

4.00

Head Width

3.00

Midpiece Length

7.00

Tail Length

46.00

Measure Total

57.00



NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Pere David's Deer

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Cervinae

GENUS

Elaphurus

SPECIES

E. davidianus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.83

Head Width

5.25

Midpiece Length

12.30

Tail Length

39.50

Measure Total

59.63

NOTES

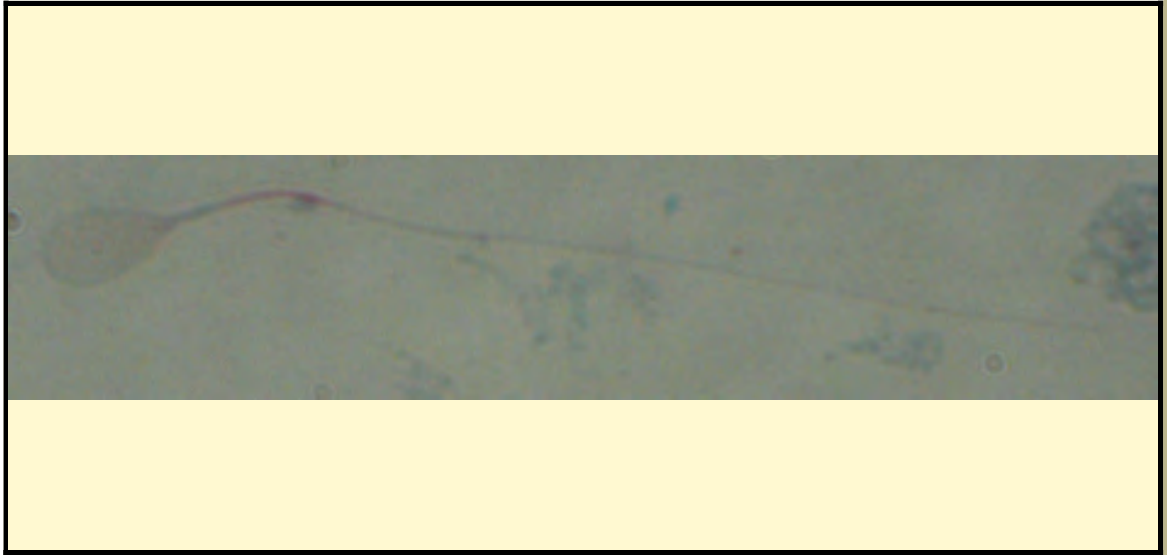


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Speke's Gazelle

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Artiodactyla

STAIN

Pap

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Antilopinae

GENUS

Gazella

SPECIES

G. spekei

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

4.00

Midpiece Length

10.00

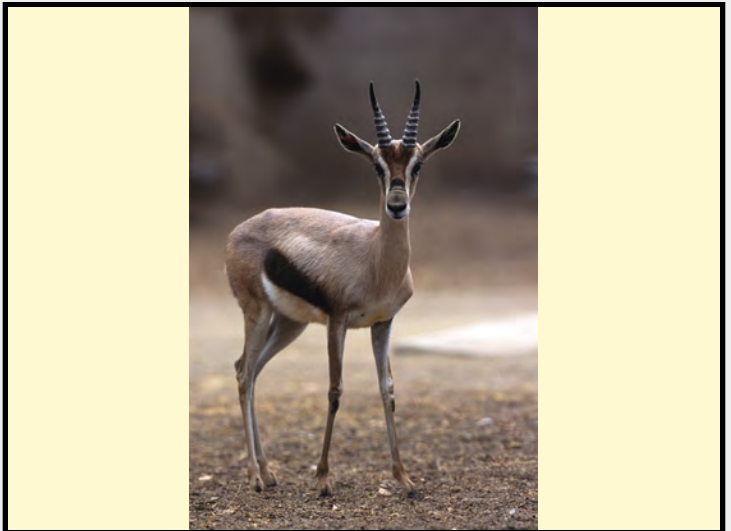
Tail Length

45.00

Measure Total

65.00

NOTES

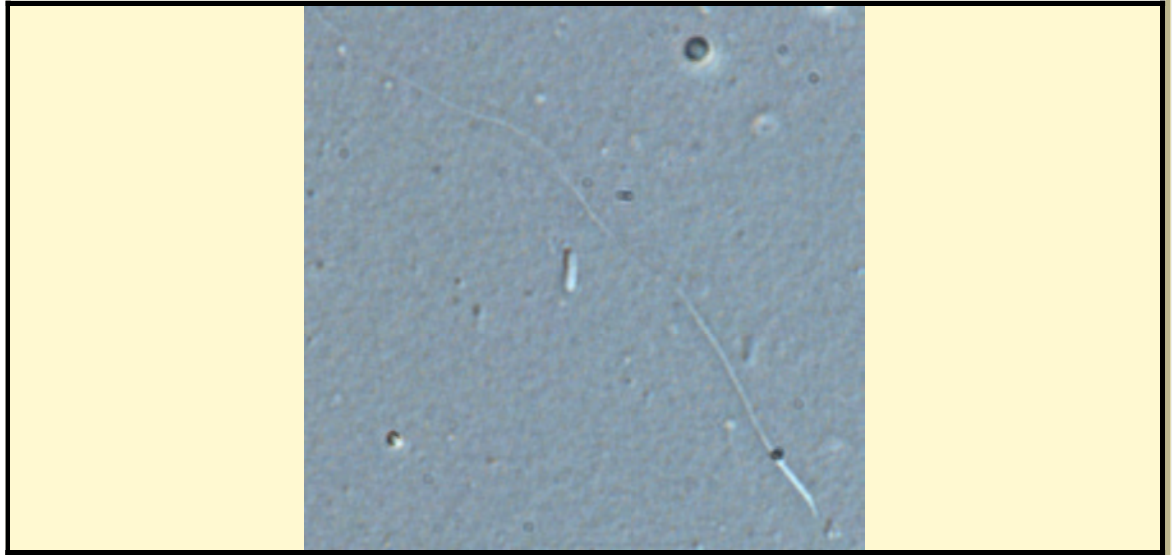


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Trans-pecos Copperhead

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Reptilia

RP NUMBER

12-010

ORDER

Squamata

STAIN

None

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Viperidae

SUBFAMILY

Crotalinae

ANIMAL PICTURE

GENUS

Agkistrodon

SPECIES

Agkistrodon contortix

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.00

Head Width

1.00

Midpiece Length

35.00

Tail Length

40.00

Measure Total

83.00



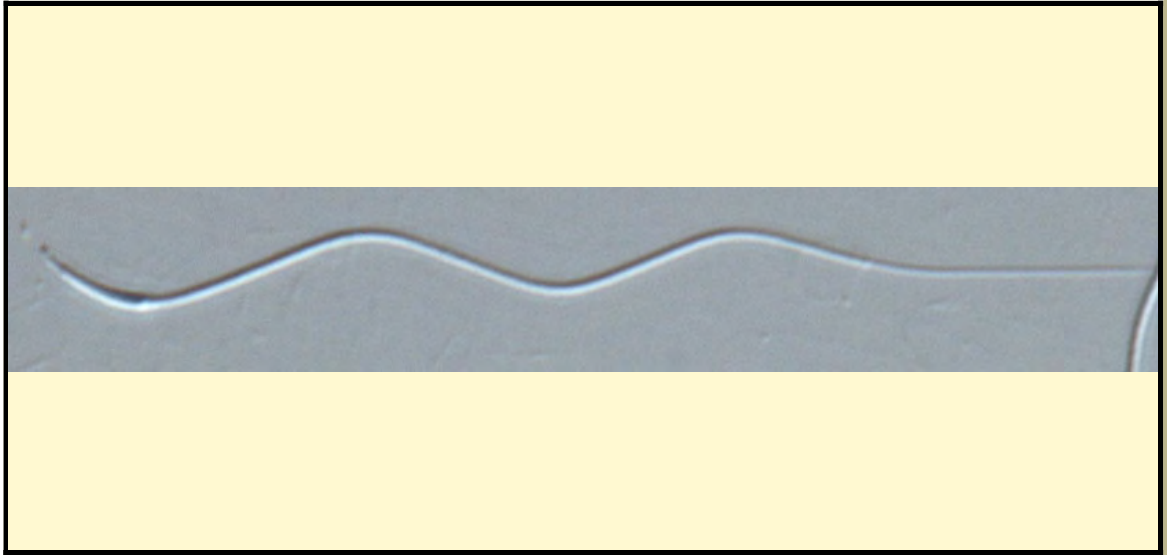
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Red Spitting Cobra

PICTURE



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CLASS

Reptilia

RP NUMBER

12-017

ORDER

Squamata

STAIN

None

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Elapidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Naja

SPECIES

Naja pallida

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

12.00

Head Width

1.00

Midpiece Length

65.00

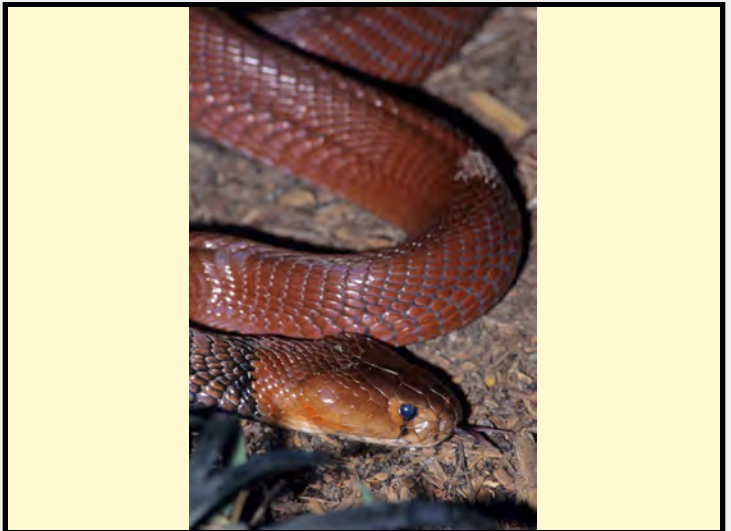
Tail Length

22.00

Measure Total

99.00

NOTES



SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Echidna

PICTURE



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CLASS

Mammalia

RP NUMBER

12-049

ORDER

Monotremata

STAIN

None

SUBORDER

HEAD SHAPE

Helical

FAMILY

Tachyglossidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Tachyglossus

SPECIES

Tachyglossus Aculeatus

SUBSPECIES

MEASUREMENTS (µm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total



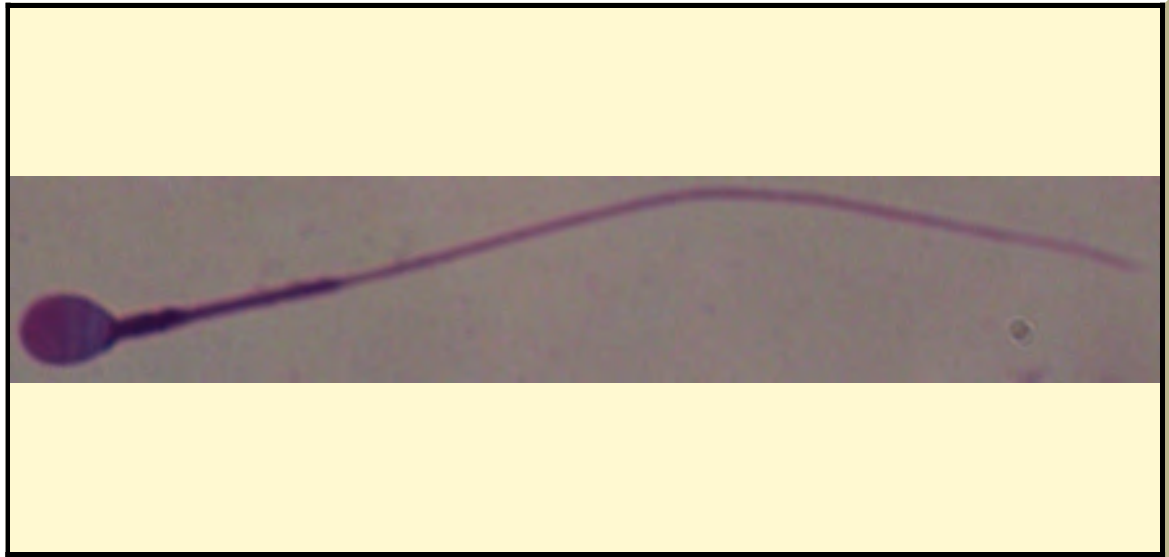
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
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SPERM ATLAS

COMMON NAME

Silvered leaf monkey

PICTURE



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CLASS

Mammalia

RP NUMBER

15-198

ORDER

Primates

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Round

FAMILY

Cercopithecidae

ANIMAL PICTURE

SUBFAMILY

GENUS

trachypithecus

SPECIES

trachypithecus cristatus cris

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

3.00

Midpiece Length

11.00

Tail Length

42.00

Measure Total

59.00

NOTES



SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Fiji Island Banded Iguana

PICTURE



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CLASS

Reptilia

RP NUMBER

12-058

ORDER

Squamata

STAIN

Pope

SUBORDER

FAMILY

Iguanidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Brachylophus

ANIMAL PICTURE

SPECIES

Brachylophus Fasciatus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

20.00

Head Width

1.25

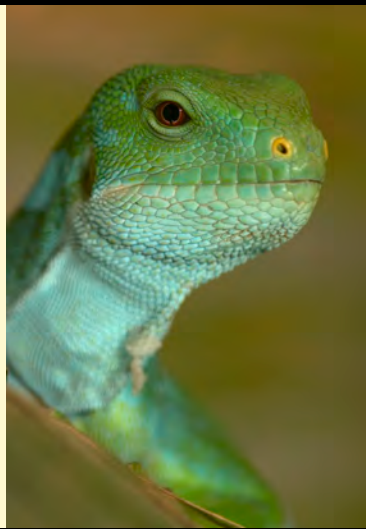
Midpiece Length

Tail Length

62.50

Measure Total

82.50



NOTES

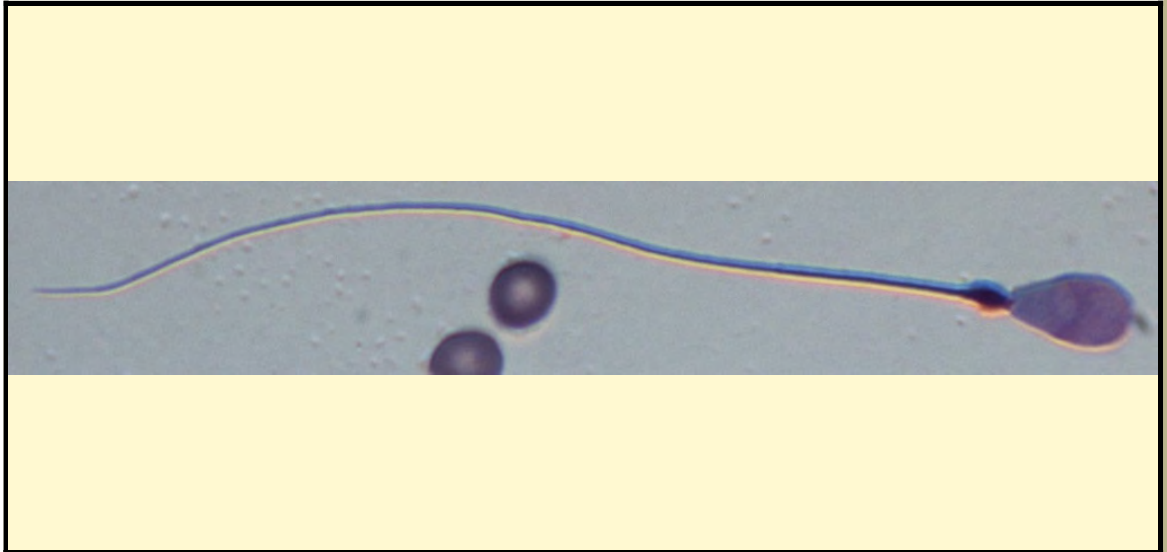
midpiece could not be distinguished from tail

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Desert Big Horn (Sheep)

PICTURE



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CLASS

Mammalia

RP NUMBER

12-048

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Caprinae

GENUS

Ovis

SPECIES

Ovis canadensis

SUBSPECIES

Ovis canadensis nelsoni

MEASUREMENTS (μ m)

Head Length

7.50

Head Width

4.00

Midpiece Length

14.00

Tail Length

54.00

Measure Total

75.50

NOTES



SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
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SPERM ATLAS

COMMON NAME

Long-tailed Hornbill

PICTURE



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CLASS

Aves

RP NUMBER

12-083

ORDER

Coraciiformes

STAIN

None

SUBORDER

FAMILY

Bucerotidae

HEAD SHAPE

Filiform

SUBFAMILY

Bucerotinae

GENUS

Tropicranus

ANIMAL PICTURE

SPECIES

Tropicranus albocristatus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

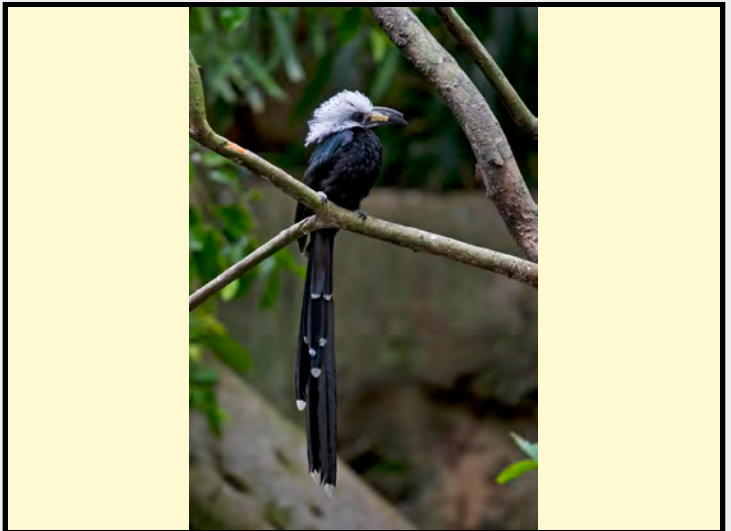
Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



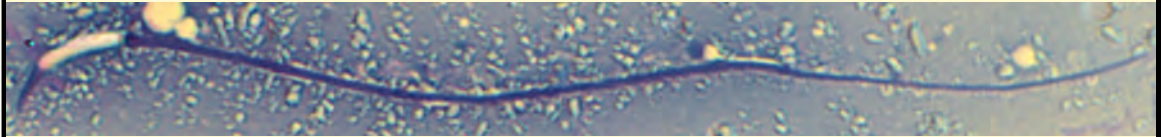
The midpiece of this sperm is abnormally curved

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Mexican Lancehead Rattlesnake

PICTURE



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CLASS

Reptilia

RP NUMBER

12-086

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Viperidae

SUBFAMILY

Crotalinae

ANIMAL PICTURE

GENUS

Crotalus

SPECIES

Crotalus polystictus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

9.00

Head Width

1.50

Midpiece Length

53.00

Tail Length

25.00

Measure Total

87.00

NOTES

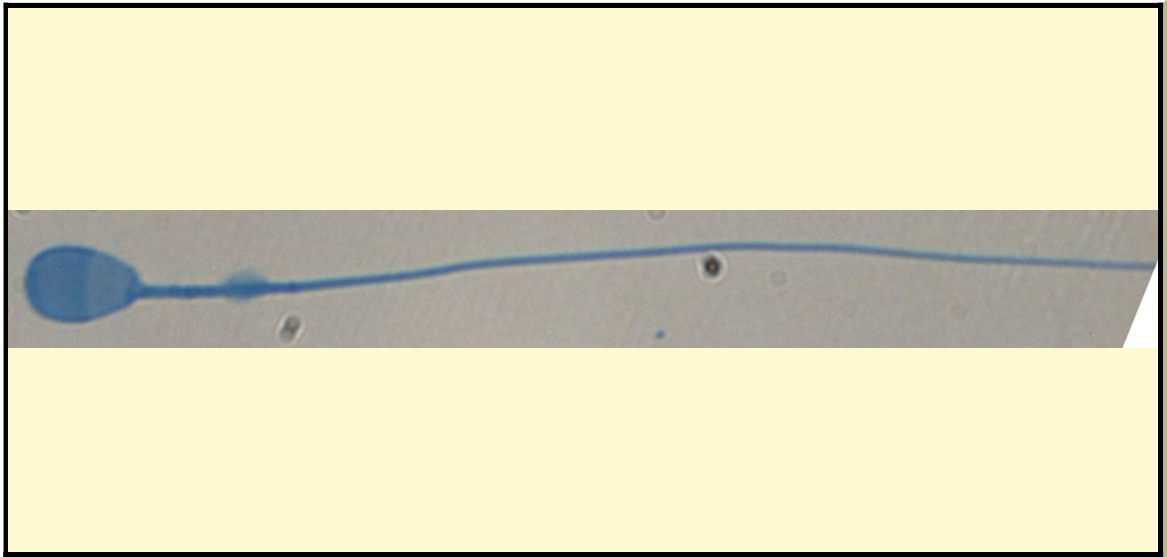


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Black Bear

PICTURE



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CLASS

Mammalia

RP NUMBER

12-090

ORDER

Carnivora

STAIN

Pope

SUBORDER

HEAD SHAPE

Round

FAMILY

Ursidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Ursus

SPECIES

Ursus americanus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

5.00

Head Width

4.00

Midpiece Length

8.00

Tail Length

57.00

Measure Total

70.00



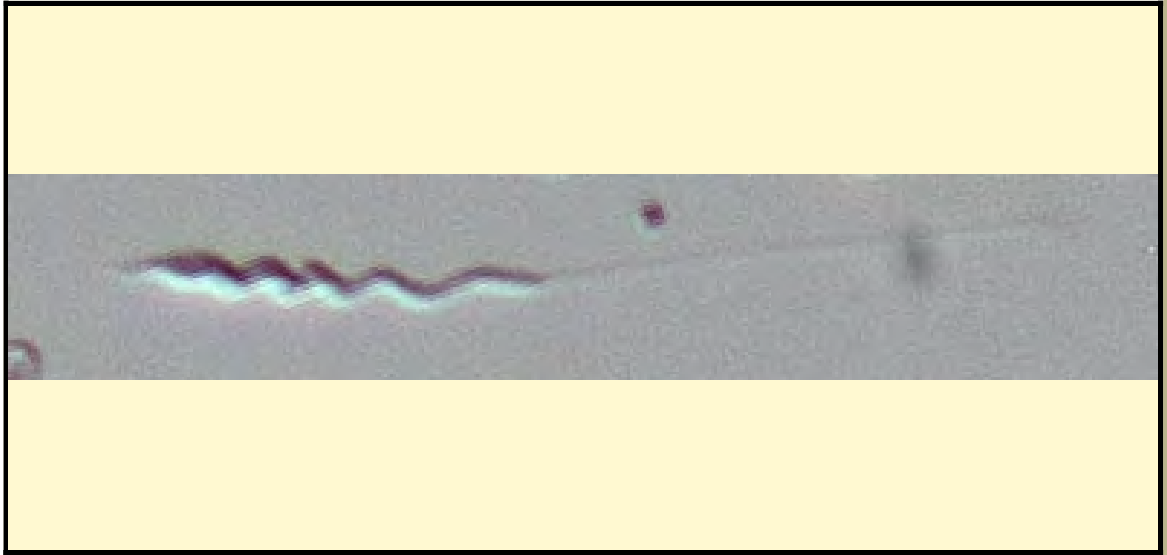
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

'Alala (Hawaiian Crow)

PICTURE



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CLASS

Aves

RP NUMBER

ORDER

Passeriformes

STAIN

None

SUBORDER

FAMILY

Corvidae

HEAD SHAPE

Helical

SUBFAMILY

GENUS

Corvus

ANIMAL PICTURE

SPECIES

Corvus Hawaiiensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

17.00

Head Width

2.00

Midpiece Length

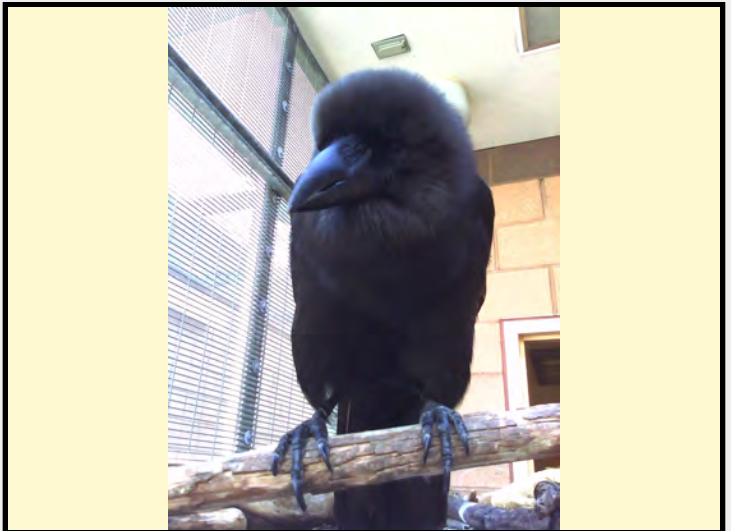
Tail Length

19.00

Measure Total

39.00

NOTES



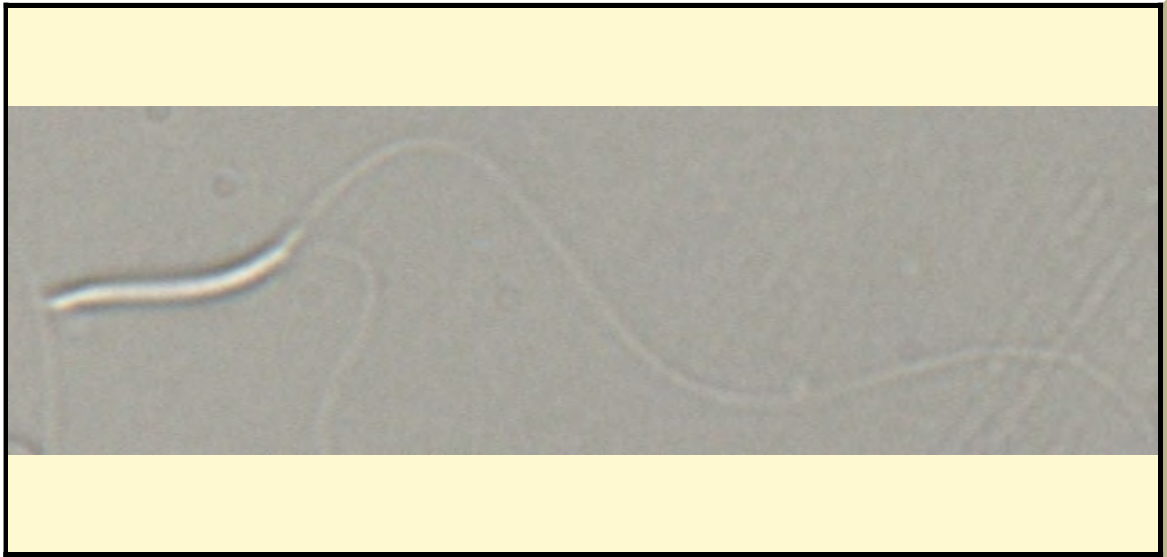
Kinohi sperm
Photo credit Carly Young

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Sarus Crane

PICTURE



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CLASS

Aves

RP NUMBER

12-108

ORDER

Gruiformes

STAIN

None

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Gruidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Grus

SPECIES

Grus antigone

SUBSPECIES

MEASUREMENTS (μ m)

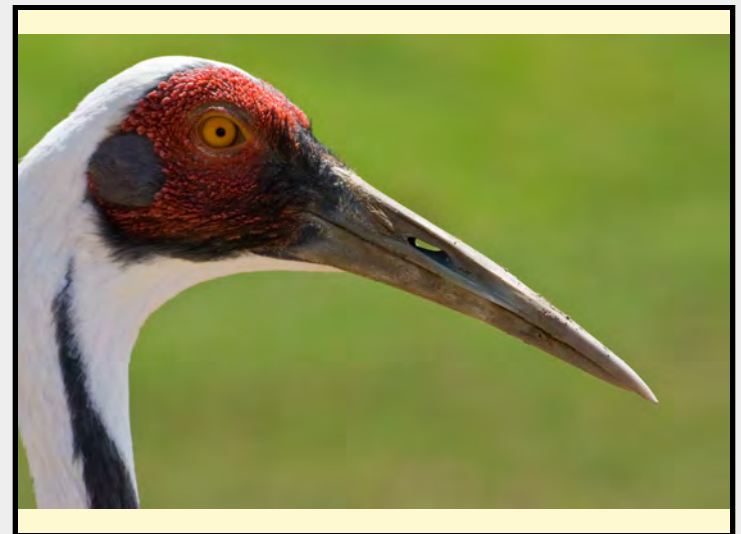
Head Length

Head Width

Midpiece Length

Tail Length

Measure Total



NOTES

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Bongo

PICTURE



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CLASS

Mammalia

RP NUMBER

11-061

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

FAMILY

Bovidae

HEAD SHAPE

Paddle

SUBFAMILY

Bovinae

ANIMAL PICTURE

GENUS

Tragelaphus

SPECIES

Tragelaphus eurycerus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

9.00

Head Width

4.00

Midpiece Length

11.00

Tail Length

32.00

Measure Total

52.00

NOTES

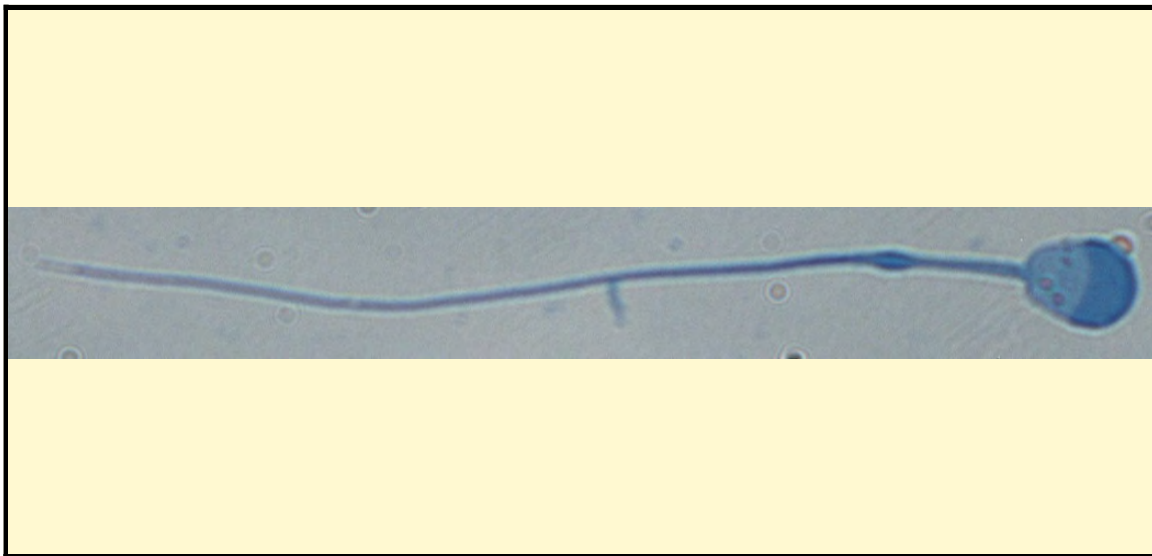


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Cape Clawless Otter

PICTURE



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CLASS

Mammalia

RP NUMBER

11-041

ORDER

Carnivora

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Round

FAMILY

Mustelidae

SUBFAMILY

Lutrinae

ANIMAL PICTURE

GENUS

Aonyx

SPECIES

Aonyx capensis capensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.00

Head Width

5.00

Midpiece Length

8.00

Tail Length

32.00

Measure Total

47.00

NOTES

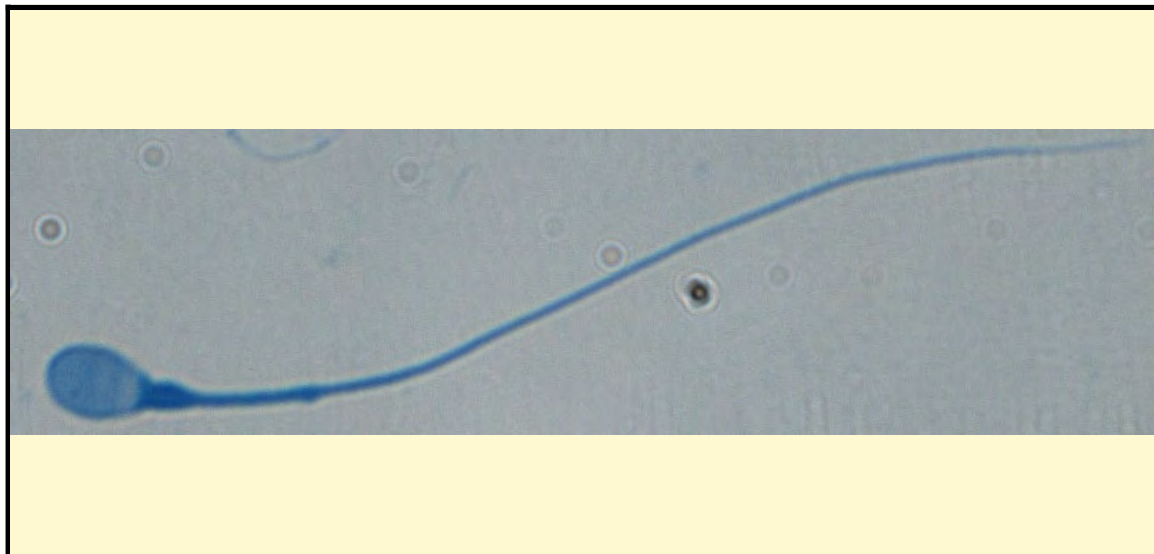


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Francois' Langur

PICTURE



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CLASS

Mammalia

RP NUMBER

11-049

ORDER

Primates

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Round

FAMILY

Cercopithecidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Trachypithecus

SPECIES

Trachypithecus francoisi

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

5.00

Head Width

3.00

Midpiece Length

10.00

Tail Length

45.00

Measure Total

60.00

NOTES

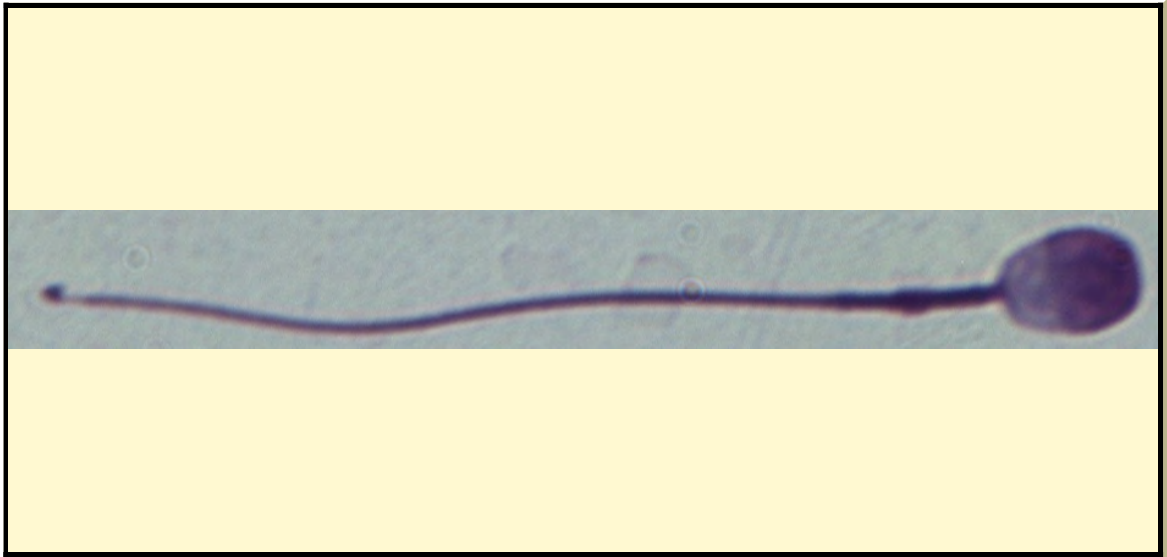


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Lowland Paca

PICTURE



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CLASS

Mammalia

RP NUMBER

10-129

ORDER

Rodentia

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cuniculidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Cuniculus

SPECIES

Cuniculus Paca

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

5.00

Head Width

3.00

Midpiece Length

7.00

Tail Length

26.00

Measure Total

38.00



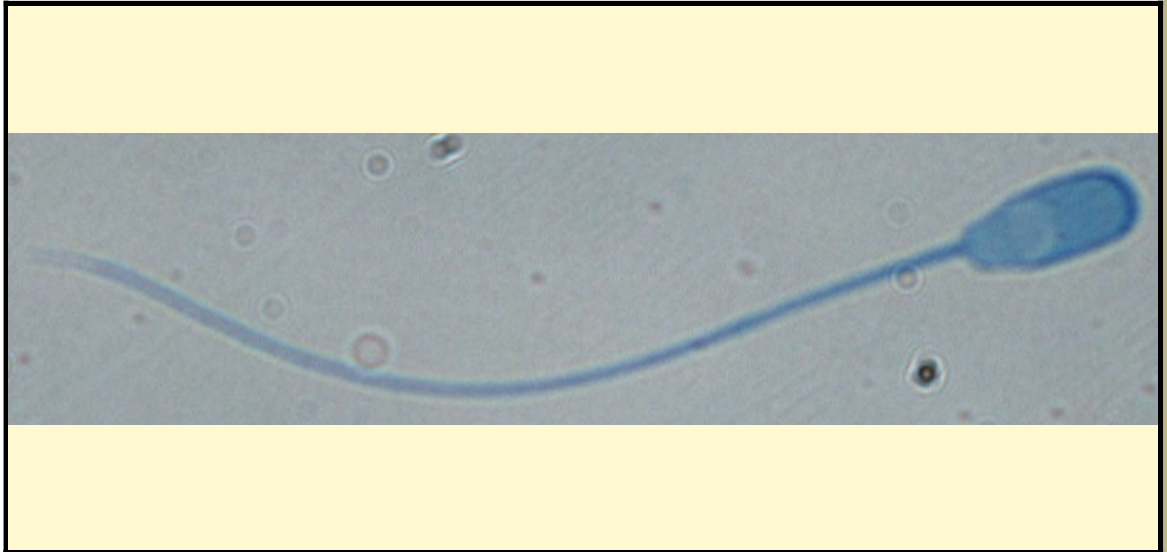
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Pot-bellied Pig

PICTURE



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CLASS

Mammalia

RP NUMBER

12-039

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Suidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Sus

SPECIES

Sus scrofa

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES

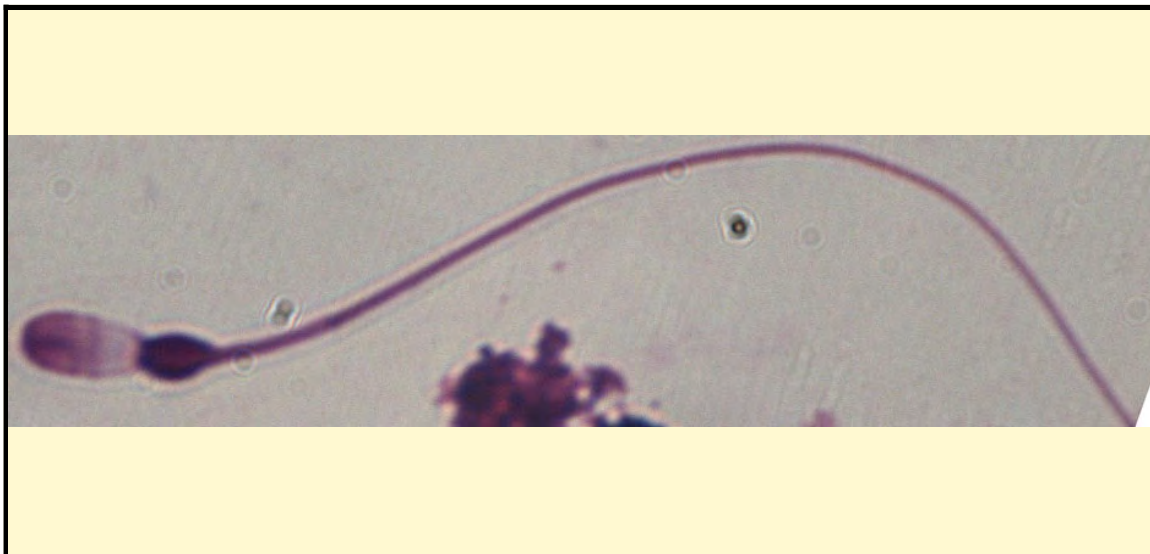


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Cape aardwolf

PICTURE



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CLASS

Mammalia

RP NUMBER

86-116

ORDER

Carnivora

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Hyaenidae

SUBFAMILY

Protelinae

GENUS

Proteles

ANIMAL PICTURE

SPECIES

Proteles cristata cristata

SUBSPECIES

MEASUREMENTS (µm)

Head Length

6.00

Head Width

Midpiece Length

5.00

Tail Length

52.00

Measure Total

63.00

NOTES



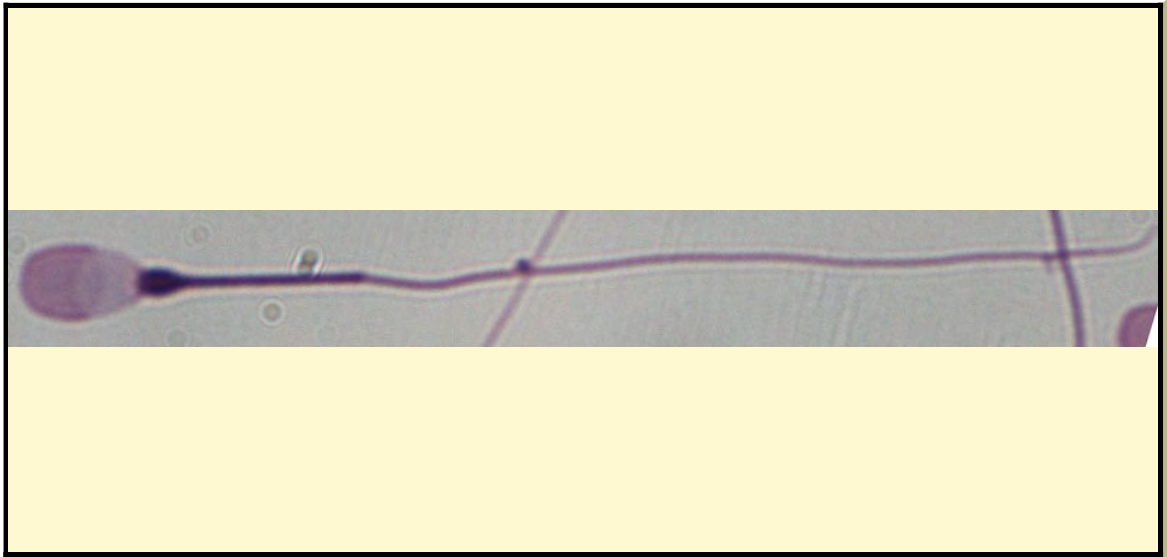
the sperm was epididymal therefore there is a cytoplasmic droplet present
sample was thawed therefore there is debris present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Lowland Anoa

PICTURE



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CLASS

Mammalia

RP NUMBER

10-113

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Bovinae

GENUS

Bubalus

SPECIES

Bubalus depressicornis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

8.00

Head Width

4.00

Midpiece Length

17.00

Tail Length

32.00

Measure Total

57.00

NOTES



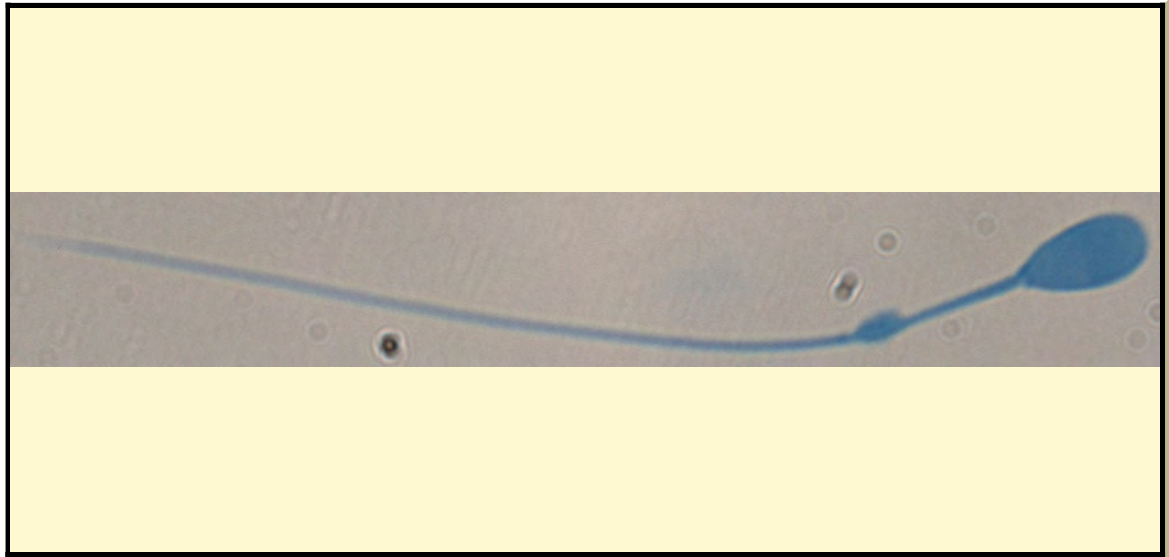
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Fringe-eared oryx

PICTURE



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CLASS

Mammalia

RP NUMBER

13-001

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Hippotraginae

GENUS

Oryx

SPECIES

Oryx beisa callotis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

4.00

Midpiece Length

11.00

Tail Length

41.00

Measure Total

58.00

NOTES



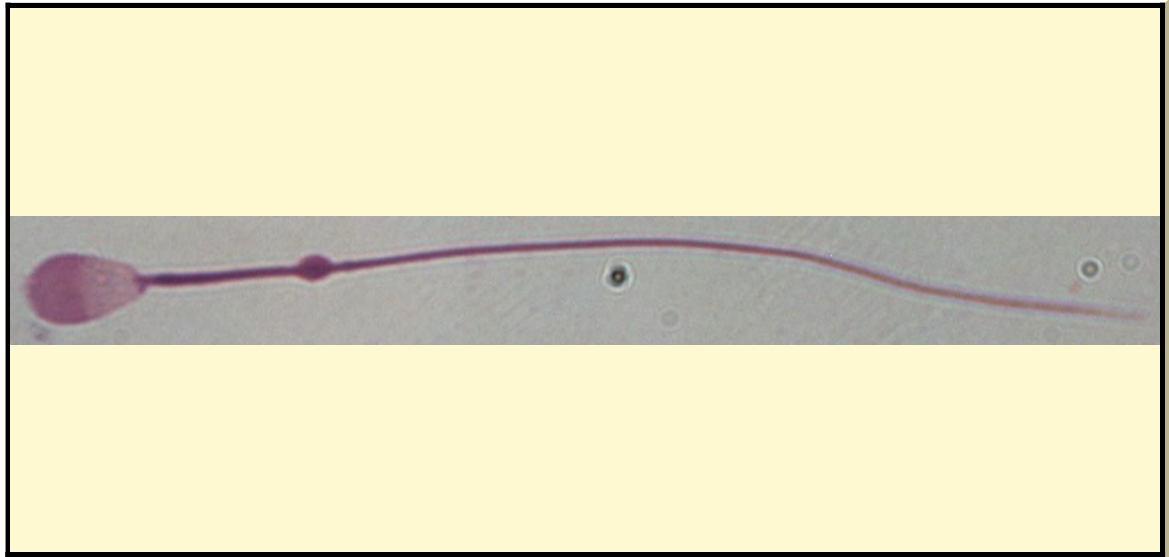
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Fennec Fox

PICTURE



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CLASS

Mammalia

RP NUMBER

10-004

ORDER

Carnivora

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Canidae

SUBFAMILY

ANIMAL PICTURE

GENUS

vulpes

SPECIES

Vulpes zerda

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.00

Head Width

4.00

Midpiece Length

13.00

Tail Length

37.00

Measure Total

56.00

NOTES



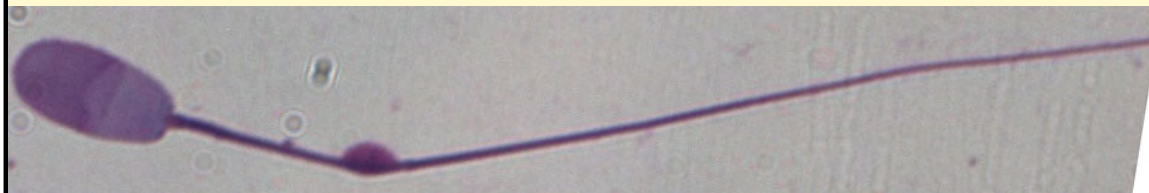
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Lesser Kudu

PICTURE



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CLASS

Mammalia

RP NUMBER

11-133

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

FAMILY

Bovidae

HEAD SHAPE

Paddle

SUBFAMILY

GENUS

Tragelaphus

ANIMAL PICTURE

SPECIES

Tragelaphus imberbis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.00

Head Width

5.00

Midpiece Length

15.00

Tail Length

45.00

Measure Total

68.00

NOTES

the sperm was epididymal therefore there is a cytoplasmic droplet present



SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Lion-tailed Macaque

PICTURE



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CLASS

Mammalia

RP NUMBER

10-069

ORDER

Primates

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Round

FAMILY

Cercopithecidae

ANIMAL PICTURE

SUBFAMILY

GENUS

macaca

SPECIES

Macaca silenus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

4.74

Head Width

3.16

Midpiece Length

11.85

Tail Length

43.45

Measure Total

60.04

NOTES

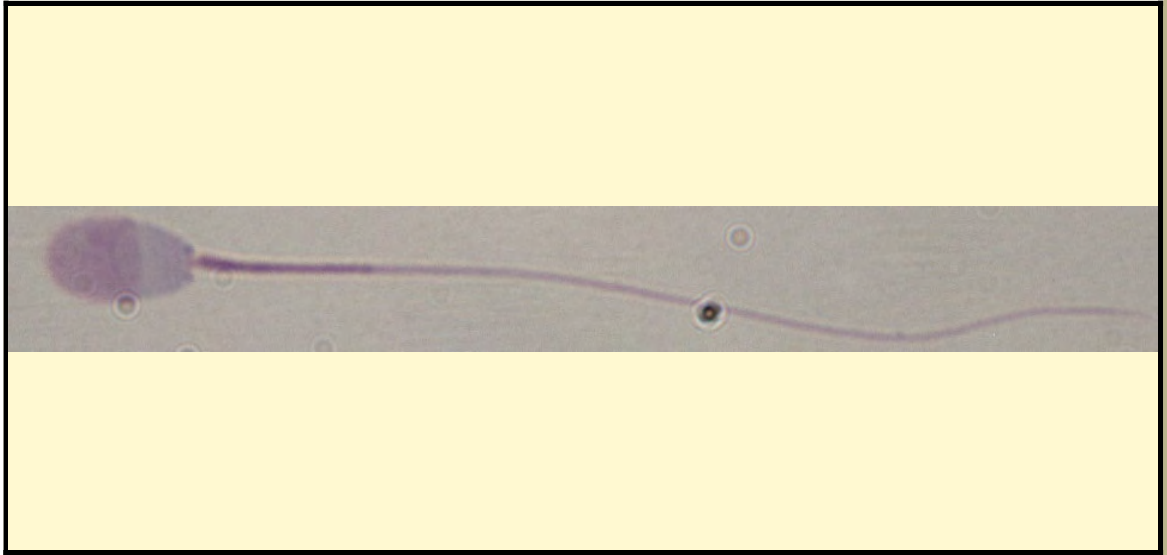


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Malayan Sambar

PICTURE



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CLASS

Mammalia

RP NUMBER

11-072

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Cervinae

GENUS

Cervus

SPECIES

Cervus unicolor equina

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.00

Head Width

4.00

Midpiece Length

15.00

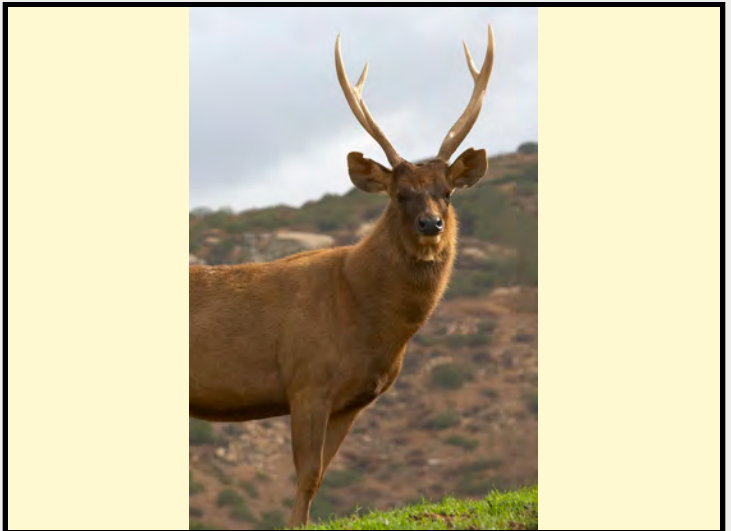
Tail Length

40.00

Measure Total

63.00

NOTES

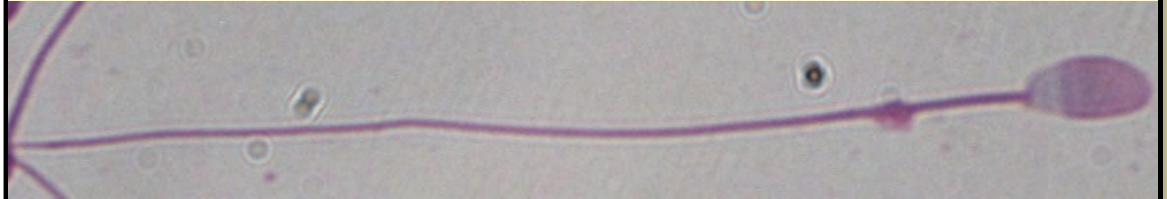


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Persian Onager

PICTURE



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CLASS

Mammalia

RP NUMBER

09-131

ORDER

Perissodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Equidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Equus

SPECIES

Equus hemionus onager

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

12.00

Head Width

5.00

Midpiece Length

20.00

Tail Length

85.00

Measure Total

117.00

NOTES



the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Przewalski's Horse

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Perissodactyla

STAIN

Giemsa

SUBORDER

FAMILY

Equidae

HEAD SHAPE

Oval

SUBFAMILY

GENUS

Equus

ANIMAL PICTURE

SPECIES

Equus Ferus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.60

Head Width

2.80

Midpiece Length

6.40

Tail Length

44.00

Measure Total

56.00

NOTES



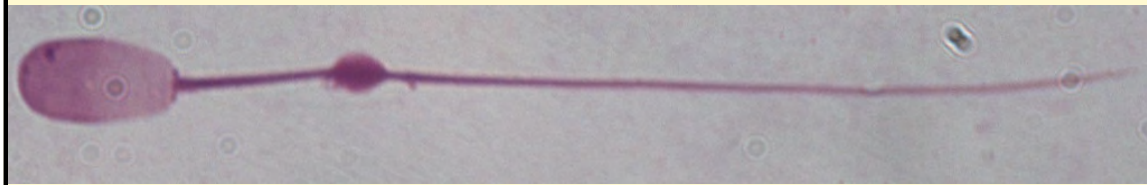
Overlapping sperm in two areas

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Lowland Nyala

PICTURE



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CLASS

Mammalia

RP NUMBER

12-040

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

FAMILY

Bovidae

HEAD SHAPE

Paddle

SUBFAMILY

GENUS

Tragelaphus

ANIMAL PICTURE

SPECIES

Tragelaphus angasii

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

10.00

Head Width

4.00

Midpiece Length

18.00

Tail Length

33.00

Measure Total

66.00

NOTES

the sperm was epididymal therefore there is a cytoplasmic droplet present

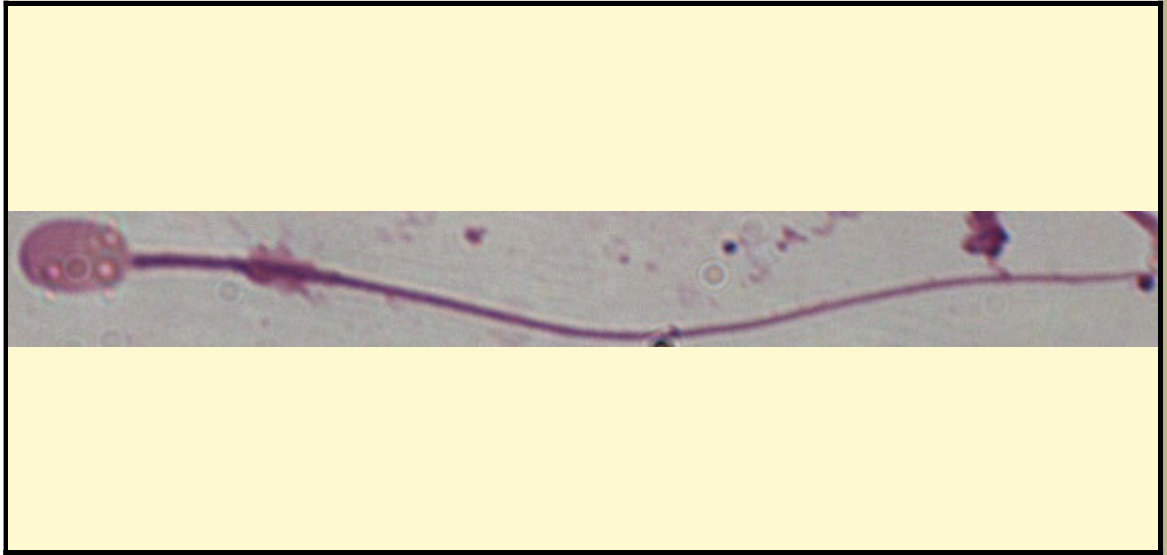


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Angolan Roan Antelope

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Hippotragus

SPECIES

Hippotragus equinus cottoni

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

4.00

Midpiece Length

20.00

Tail Length

38.00

Measure Total

64.00

NOTES



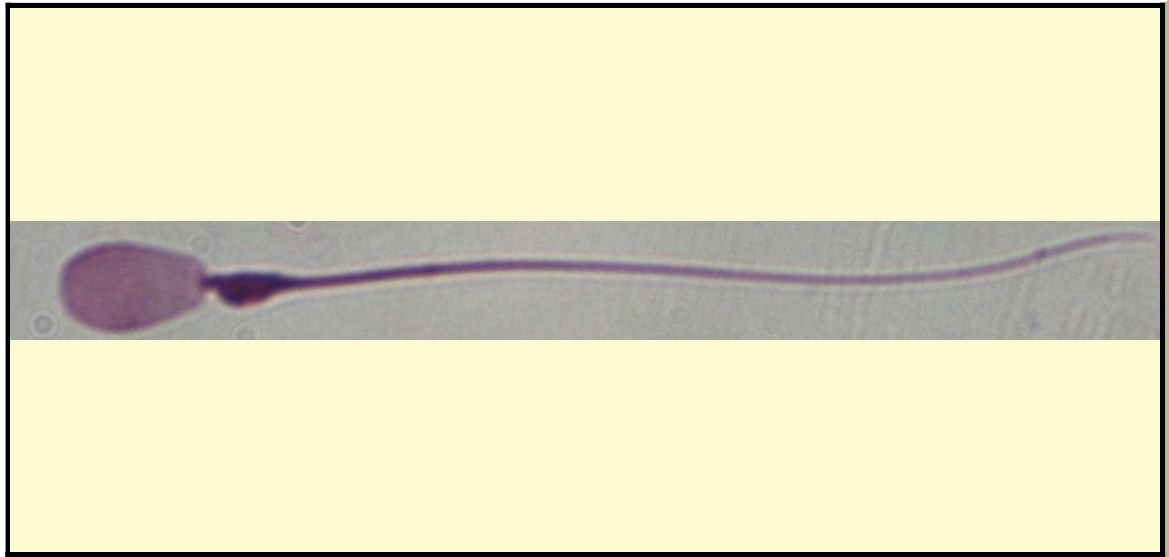
thawed sperm , therefore there is background material and some artifact bubbles

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Indochinese Sika

PICTURE



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CLASS

Mammalia

RP NUMBER

11-135

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Cervinae

GENUS

Cervus

SPECIES

Cervus nippon pseudaxis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.00

Head Width

4.00

Midpiece Length

11.00

Tail Length

41.00

Measure Total

59.00

NOTES



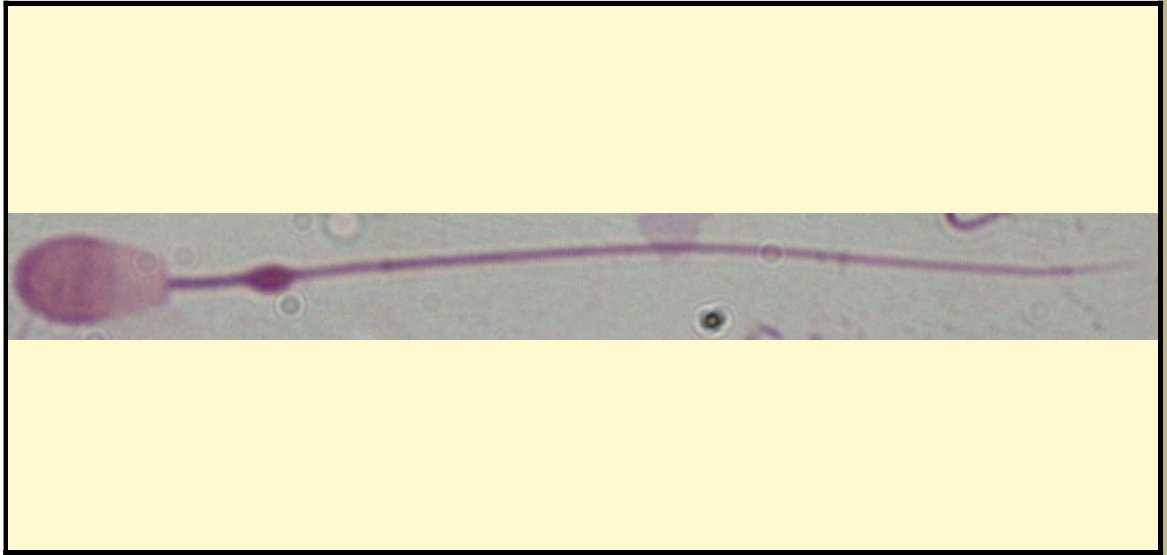
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

West Caucasian Tur

PICTURE



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CLASS

Mammalia

RP NUMBER

09-165

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Capra

SPECIES

Capra Caucasica

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.00

Head Width

4.00

Midpiece Length

12.00

Tail Length

30.00

Measure Total

50.00

NOTES



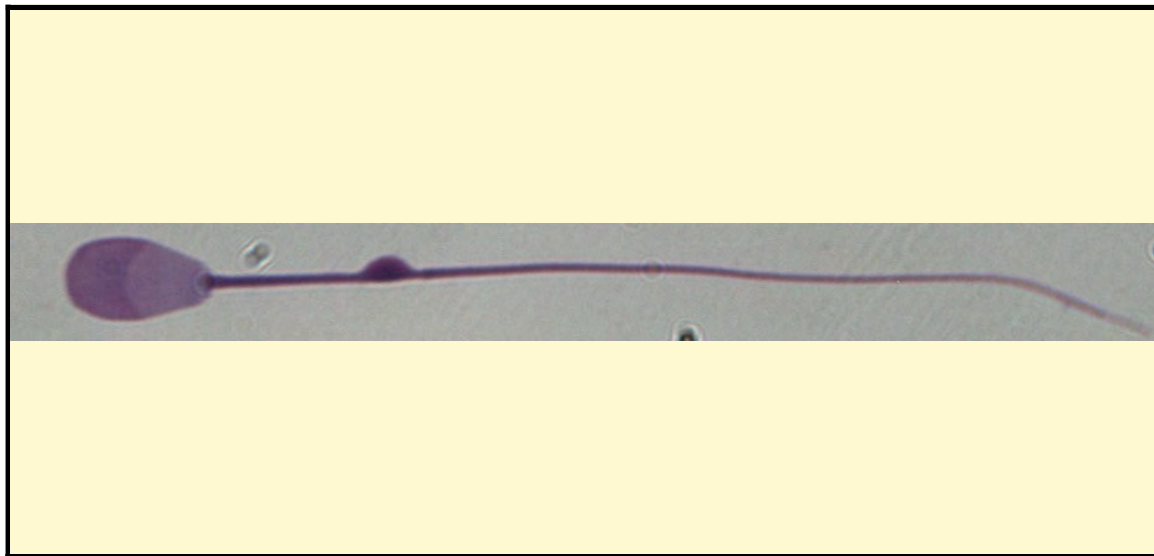
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

White-lipped deer

PICTURE



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CLASS

Mammalia

RP NUMBER

10-013

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

SUBFAMILY

Cervinae

GENUS

Cervus

ANIMAL PICTURE

SPECIES

Przewalskium albirostris

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.00

Head Width

4.00

Midpiece Length

12.00

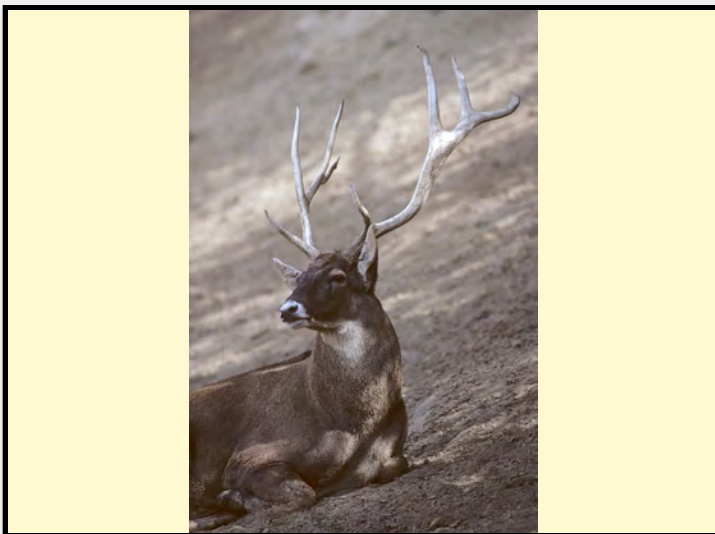
Tail Length

44.00

Measure Total

64.00

NOTES



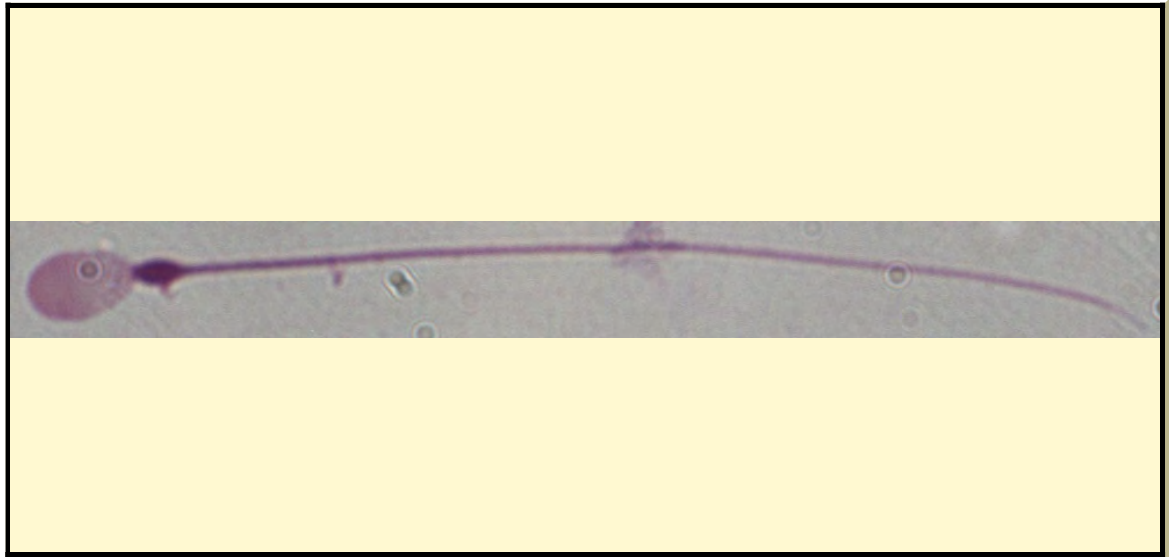
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Zambian Sable Antelope

PICTURE



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CLASS

Mammalia

RP NUMBER

10-128

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Hippotragus

SPECIES

Hippotragus niger

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.00

Head Width

5.00

Midpiece Length

17.00

Tail Length

60.00

Measure Total

84.00

NOTES



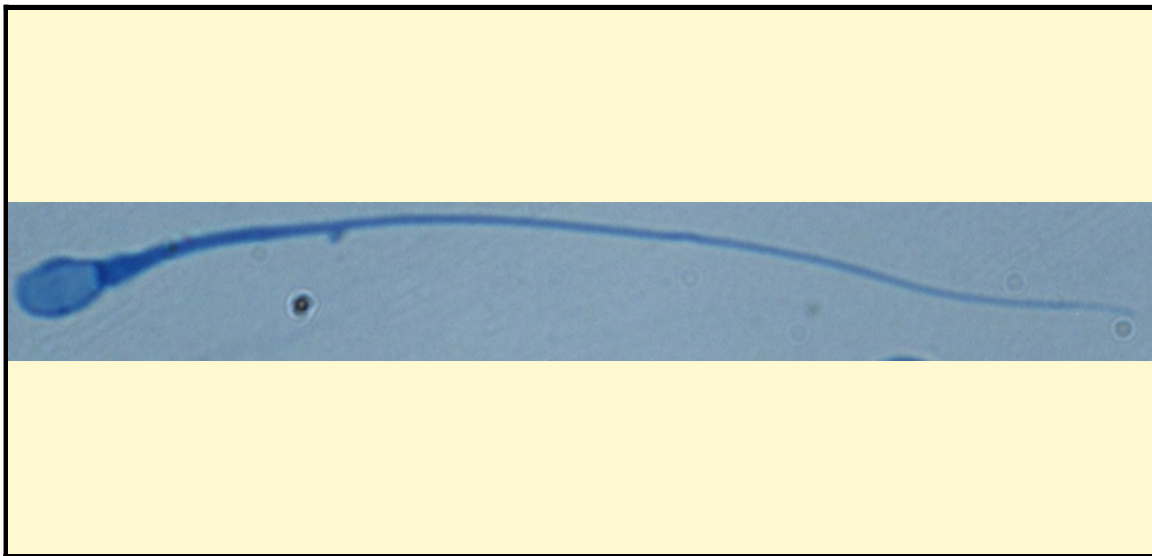
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Sumatran Tiger

PICTURE



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CLASS

Mammalia

RP NUMBER

12-098

ORDER

Carnivora

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Round

FAMILY

Felidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Panthera

SPECIES

Panthera tigris

SUBSPECIES

Panthera tigris sumatrae

MEASUREMENTS (μ m)

Head Length

3.95

Head Width

3.16

Midpiece Length

7.90

Tail Length

47.40

Measure Total

59.25



NOTES

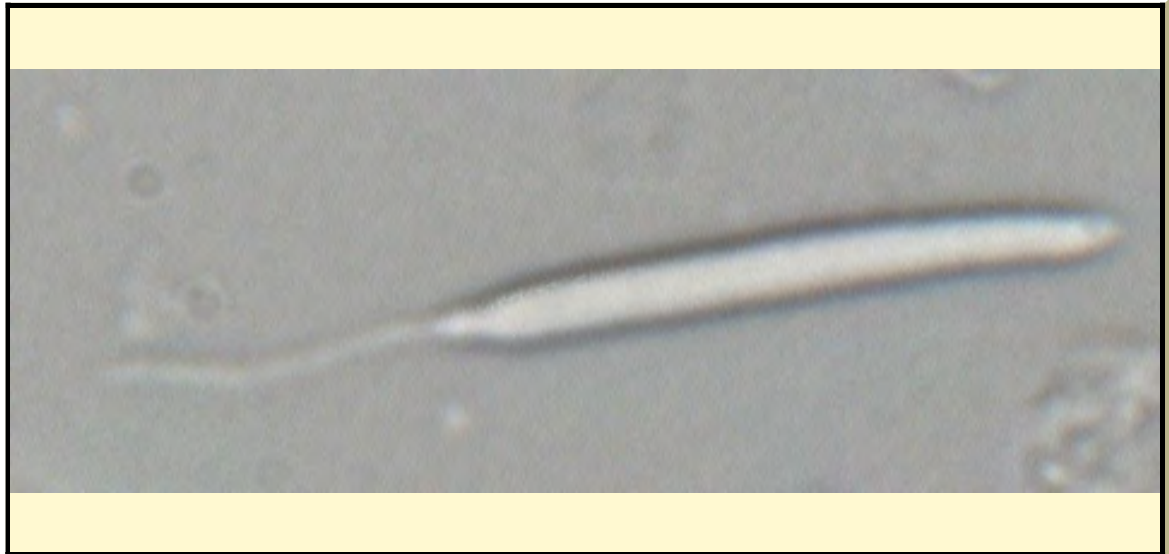
sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Mountain Yellow Legged Frog

PICTURE



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CLASS

Amphibia

RP NUMBER

12-147

ORDER

Anura

STAIN

None

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Ranidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Rana

SPECIES

Rana muscosa

SUBSPECIES

12-147

MEASUREMENTS (μm)

Head Length

35.00

Head Width

3.75

Midpiece Length

Tail Length

27.50

Measure Total

62.50



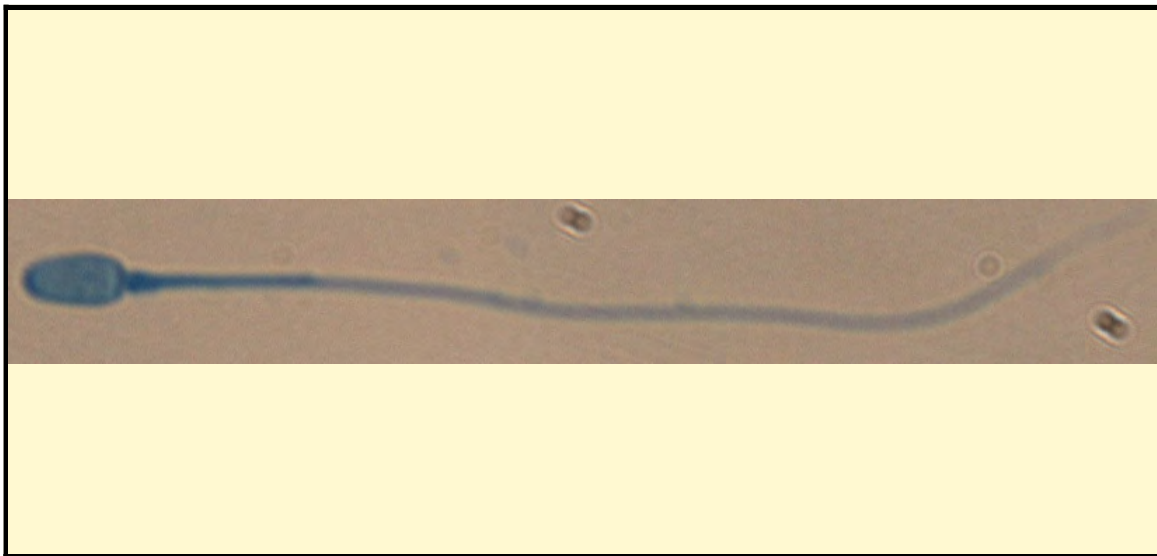
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Turkmenistan Caracal

PICTURE



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CLASS

Mammalia

RP NUMBER

12-189

ORDER

Carnivora

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Oval

FAMILY

Felidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Caracal

SPECIES

Caracal Caracal Schmitzi

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

5.00

Head Width

2.00

Midpiece Length

12.00

Tail Length

43.00

Measure Total

60.00

NOTES



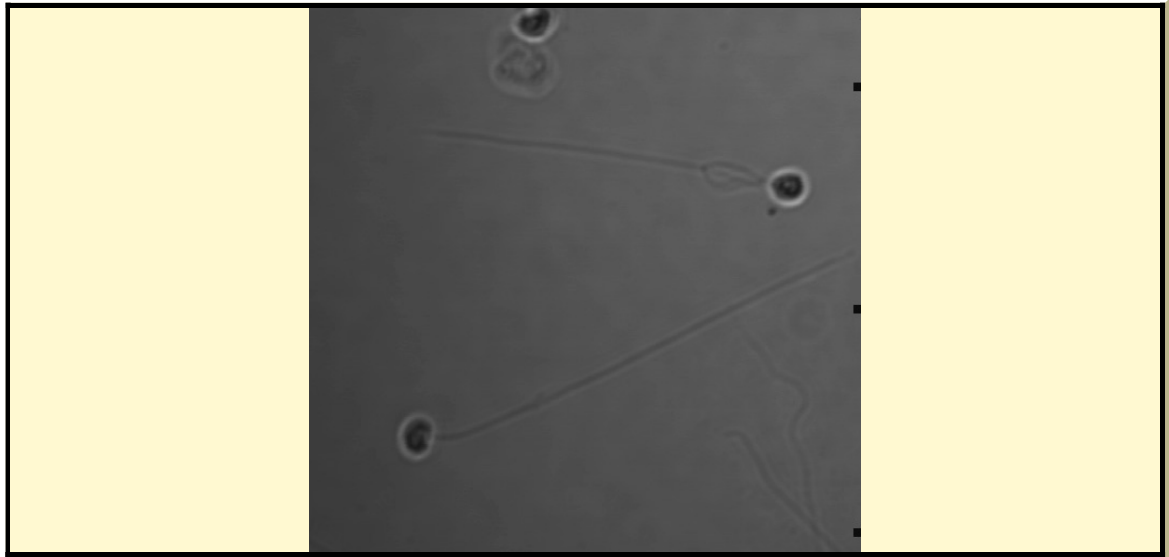
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Atlantic Croaker

PICTURE



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CLASS

Actinopterygii

RP NUMBER

ORDER

Perciformes

STAIN

SUBORDER

HEAD SHAPE

FAMILY

Sciaenidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Micropogonias

SPECIES

Micropogonias undulatus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



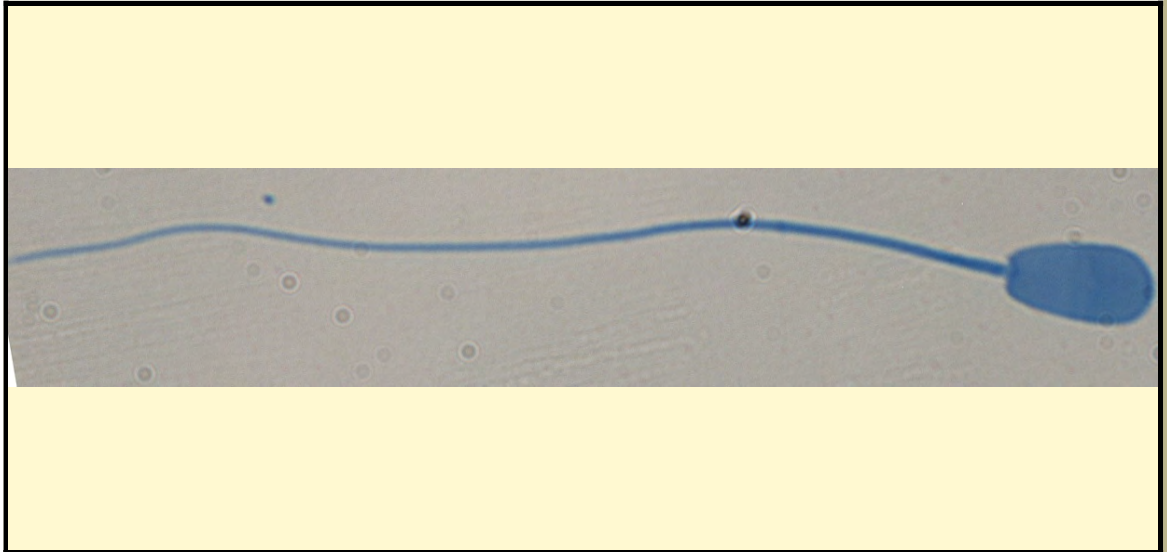
Sperm photo credit Chris Tubbs
A. Croaker photo credit Wenxian Tan

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Javan Banteng

PICTURE



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CLASS

Mammalia

RP NUMBER

12-138

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Bos

SPECIES

Bos javanicus javanicus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.00

Head Width

4.50

Midpiece Length

15.00

Tail Length

40.00

Measure Total

62.00



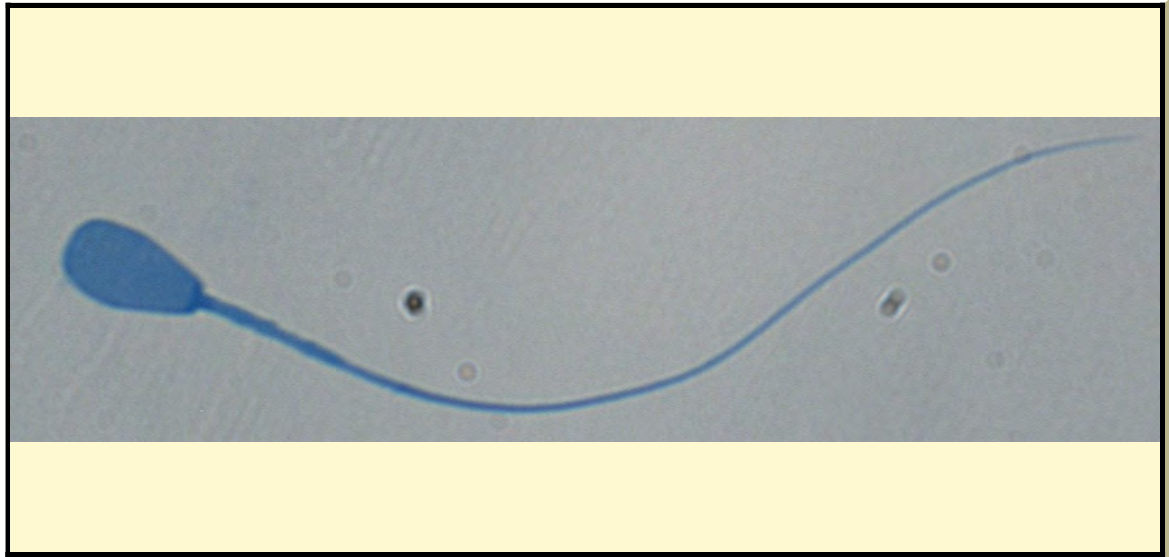
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

East African Sitatunga

PICTURE



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CLASS

Mammalia

RP NUMBER

12-133

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Tragelaphus

SPECIES

Tragelaphus spekii spekii

SUBSPECIES

MEASUREMENTS (μm)

Head Length

8.00

Head Width

4.50

Midpiece Length

12.00

Tail Length

35.00

Measure Total

55.00

NOTES

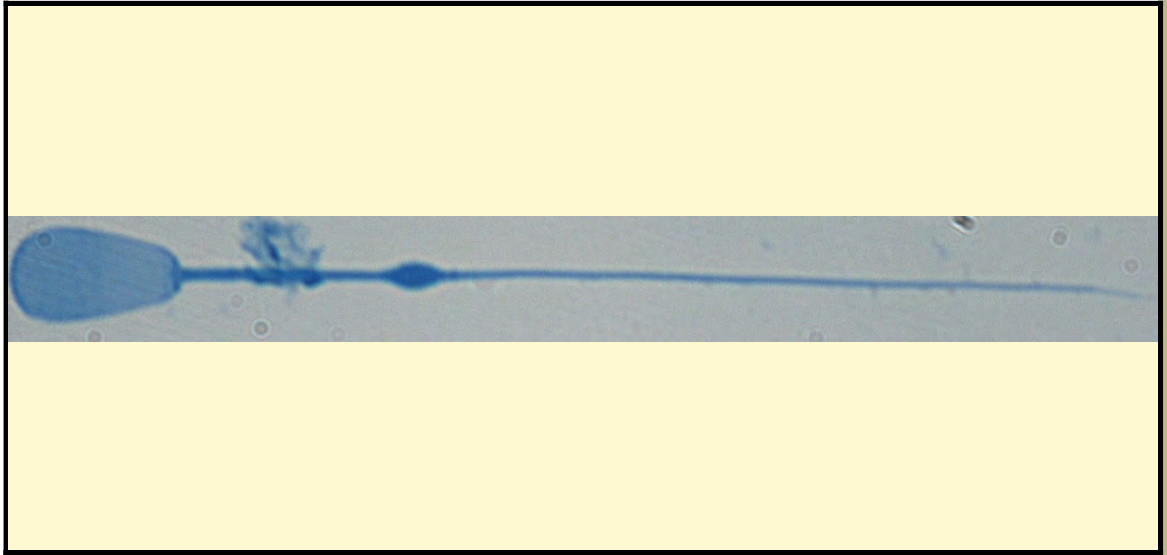


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Southeastern Crowned Duiker

PICTURE



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CLASS

Mammalia

RP NUMBER

11-055

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Cephalophinae

GENUS

Sylvicapra

SPECIES

Sylvicapra grimmia caffra

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.00

Head Width

5.00

Midpiece Length

15.00

Tail Length

40.00

Measure Total

65.00

NOTES



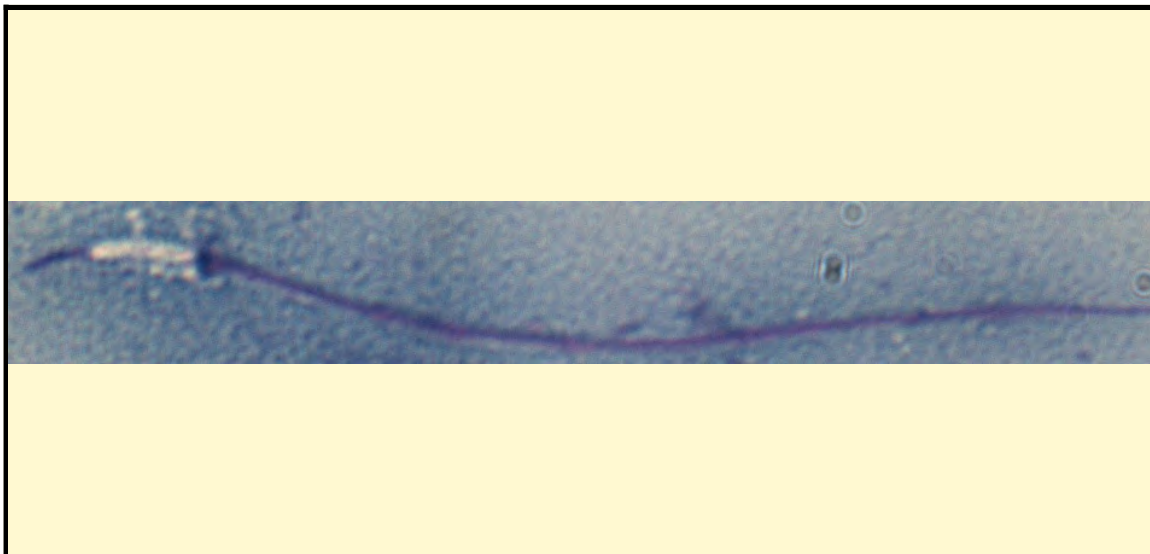
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

South American Bushmaster

PICTURE



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CLASS

Reptilia

RP NUMBER

13-027

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Viperidae

SUBFAMILY

Crotalinae

ANIMAL PICTURE

GENUS

Lachesis

SPECIES

Lachesis Muta Muta

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

1.50

Midpiece Length

50.00

Tail Length

25.00

Measure Total

86.00

NOTES



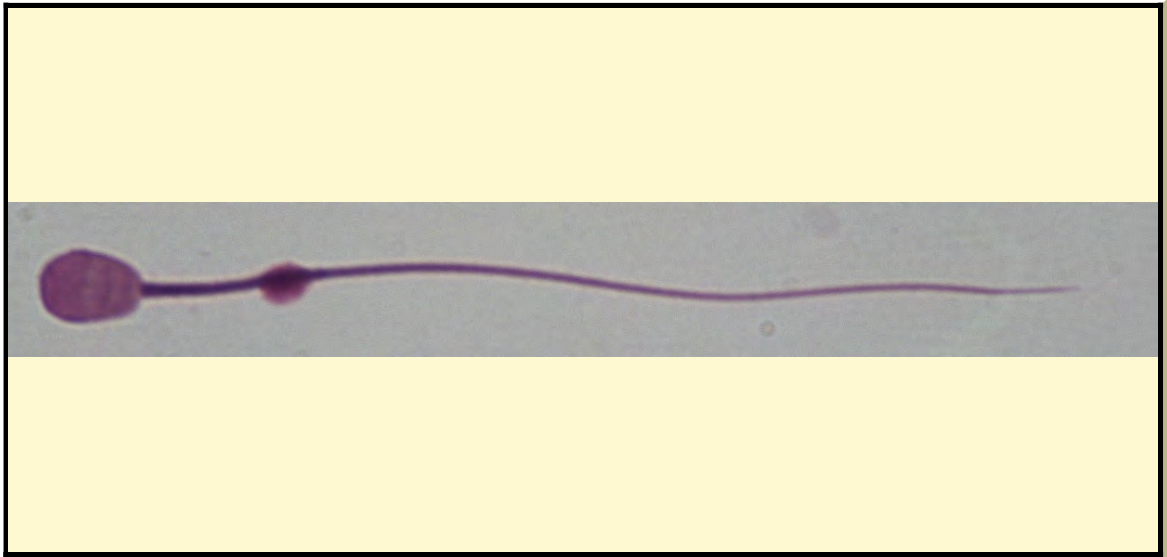
Sperm is longer than the picture
Sperm is testicular

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Gemsbok

PICTURE



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CLASS

Mammalia

RP NUMBER

11-123

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Hippotraginae

GENUS

Oryx

SPECIES

Oryx gazella

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.00

Head Width

4.00

Midpiece Length

10.00

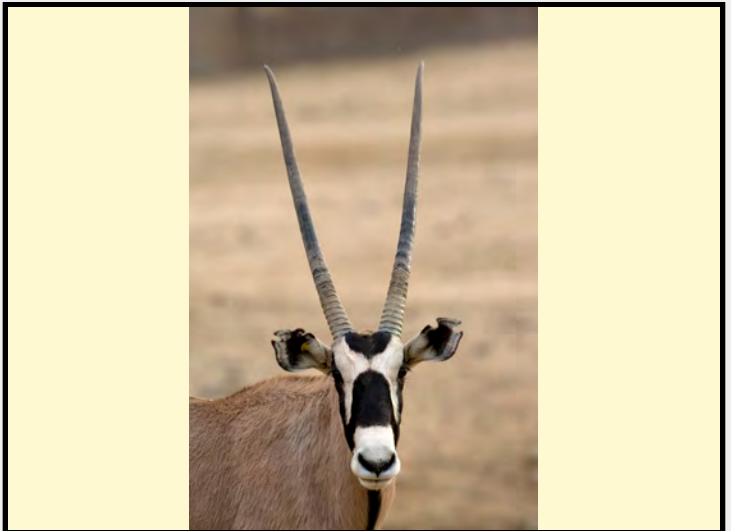
Tail Length

35.00

Measure Total

54.00

NOTES



the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Brown eared-pheasant

PICTURE



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CLASS

Aves

RP NUMBER

90-076

ORDER

Galliformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Phasianidae

ANIMAL PICTURE

SUBFAMILY

Phasianinae

GENUS

Crossoptilon

SPECIES

Crossoptilon mantchuricum

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

1.50

Midpiece Length

4.00

Tail Length

65.00

Measure Total

80.00

NOTES



Midpiece was hard to distinguish from tail

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Komodo Dragon

PICTURE



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CLASS

Reptilia

RP NUMBER

13-047

ORDER

Squamata

STAIN

Pope

SUBORDER

Lacertilia

HEAD SHAPE

Filiform

FAMILY

Varanidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Varanus

SPECIES

Varanus komodoensis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

12.00

Head Width

1.50

Midpiece Length

Tail Length

56.00

Measure Total

68.00

NOTES



Sample was sent from the Forth Worth Zoo
Could not distinguish the midpiece from the tail so the length is combined

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Killer Whale (orca)

PICTURE



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CLASS

Mammalia

RP NUMBER

88-204

ORDER

Cetacea

STAIN

H&E

SUBORDER

Odontoceti

HEAD SHAPE

Round

FAMILY

Delphinidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Orcinus

SPECIES

Orcinus orca

SUBSPECIES

MEASUREMENTS (μm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total



NOTES

This sample was from a Sea World animal

Animal Photo Credit: http://www.free-picture.net/albums/fishes/whales/killer-whale_1379938609.jpg

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Uganda Giraffe (Rothschild Giraffe)

PICTURE



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CLASS

Mammalia

RP NUMBER

99-253

ORDER

Artiodactyla

STAIN

Pap

SUBORDER

HEAD SHAPE

Oval

FAMILY

Giraffidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Giraffa

SPECIES

giraffa camelopardalis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.40

Head Width

3.20

Midpiece Length

10.40

Tail Length

45.60

Measure Total

62.40

NOTES



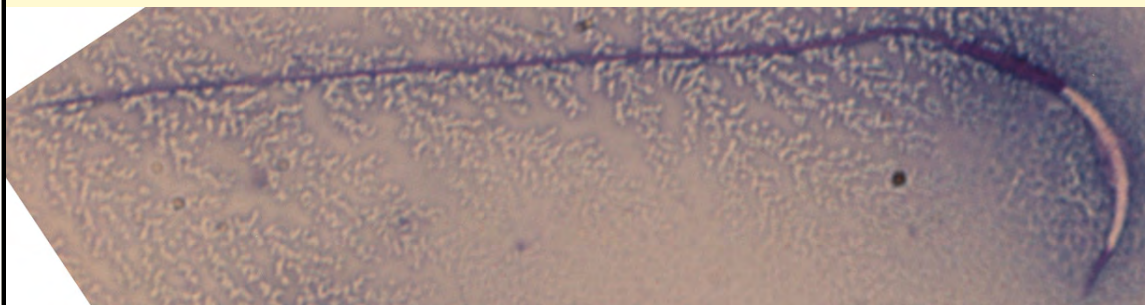
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Green Anole

PICTURE



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CLASS

Reptilia

RP NUMBER

13-071

ORDER

Squamata

STAIN

Pope

SUBORDER

Iguania

HEAD SHAPE

Filiformal

FAMILY

Polychrotidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Anolis

SPECIES

Anolis carolinensis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

14.00

Head Width

1.25

Midpiece Length

10.00

Tail Length

56.00

Measure Total

80.00

NOTES



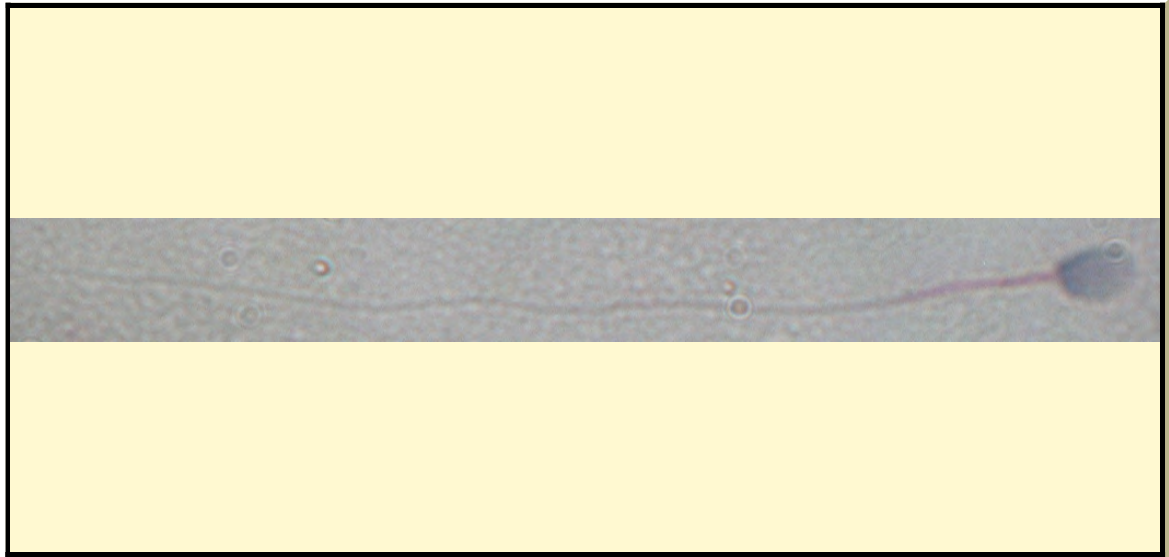
Sperm was retrieved from the testicle and therefore has a cytoplasmic droplet.
Animal Photo Credit: http://upload.wikimedia.org/wikipedia/commons/thumb/e/e0/Green_Anole_-_Florida_Botanical_Gardens.jpg/512px-Green_Anole_-_Florida_Botanical_Gardens.jpg

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Mainland Drill

PICTURE



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CLASS

Mammalia

RP NUMBER

03-156

ORDER

Primates

STAIN

Pap

SUBORDER

HEAD SHAPE

Oval

FAMILY

Cercopithecidae

SUBFAMILY

GENUS

Mandrillus

ANIMAL PICTURE

SPECIES

Mandrillus leucophaeus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

4.00

Head Width

3.00

Midpiece Length

9.00

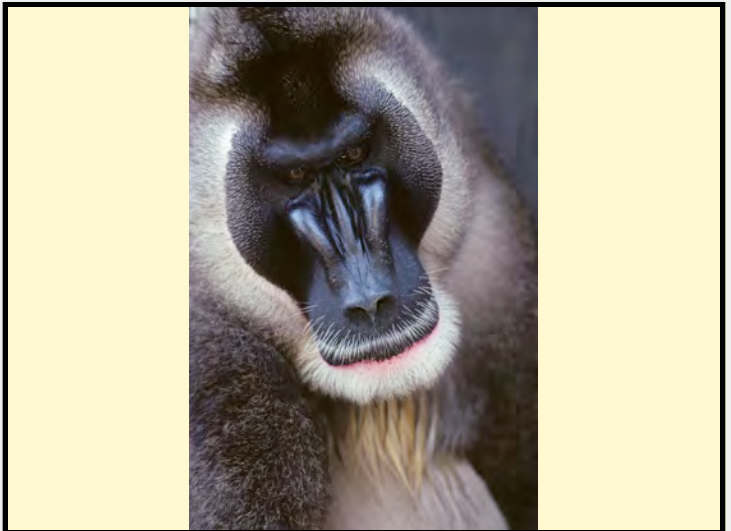
Tail Length

57.00

Measure Total

70.00

NOTES

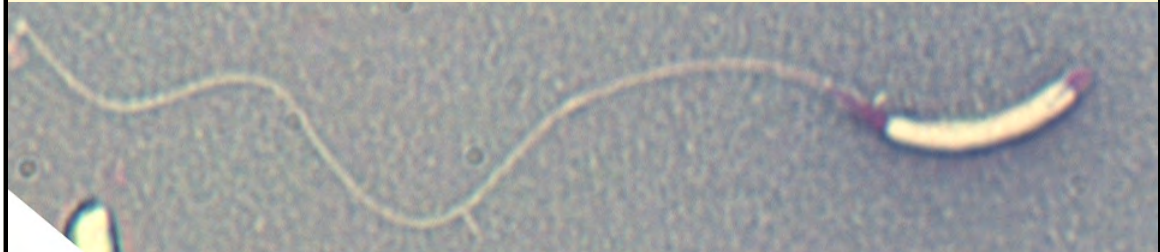


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Demoiselle Crane

PICTURE



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CLASS

Aves

RP NUMBER

ORDER

Gruiformes

STAIN

Pope

SUBORDER

FAMILY

Gruidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Anthropoides

ANIMAL PICTURE

SPECIES

Anthropoides virgo

SUBSPECIES

MEASUREMENTS (μm)

Head Length

12.00

Head Width

1.00

Midpiece Length

Tail Length

50.00

Measure Total

62.00

NOTES



Midpiece not able to be measured. Tail measurement is a best approximation.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Binturong

PICTURE



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CLASS

Mammalia

RP NUMBER

03-262

ORDER

Carnivora

STAIN

Pap

SUBORDER

HEAD SHAPE

Oval

FAMILY

Viverridae

SUBFAMILY

ANIMAL PICTURE

GENUS

Arctictis

SPECIES

Arctictis binturong

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

4.00

Head Width

2.00

Midpiece Length

15.00

Tail Length

57.00

Measure Total

76.00



NOTES

Also known as a bearcat

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Banded Linsang

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Mammalia

RP NUMBER

98-360

ORDER

Carnivora

STAIN

Pap

SUBORDER

HEAD SHAPE

Oval

FAMILY

Prionodontidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Prionodon

SPECIES

Prionodon linsang

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

4.00

Head Width

1.60

Midpiece Length

20.00

Tail Length

48.00

Measure Total

72.00

NOTES

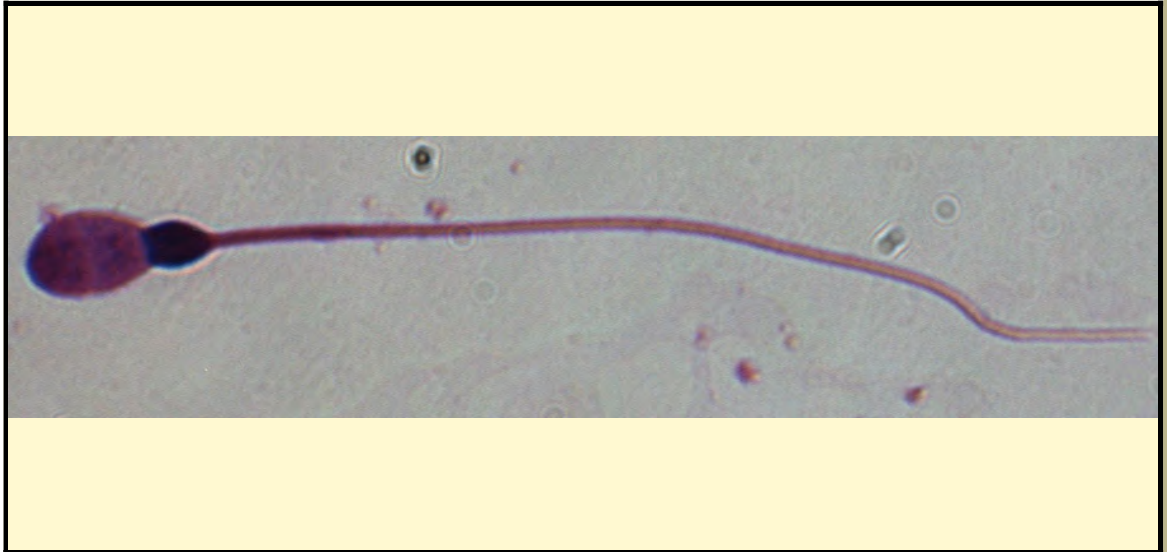


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Royal Antelope

PICTURE



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CLASS

Mammalia

RP NUMBER

13-110

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Neotragus

SPECIES

Neotragus pygmaeus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.00

Head Width

4.00

Midpiece Length

13.00

Tail Length

41.00

Measure Total

60.00

NOTES



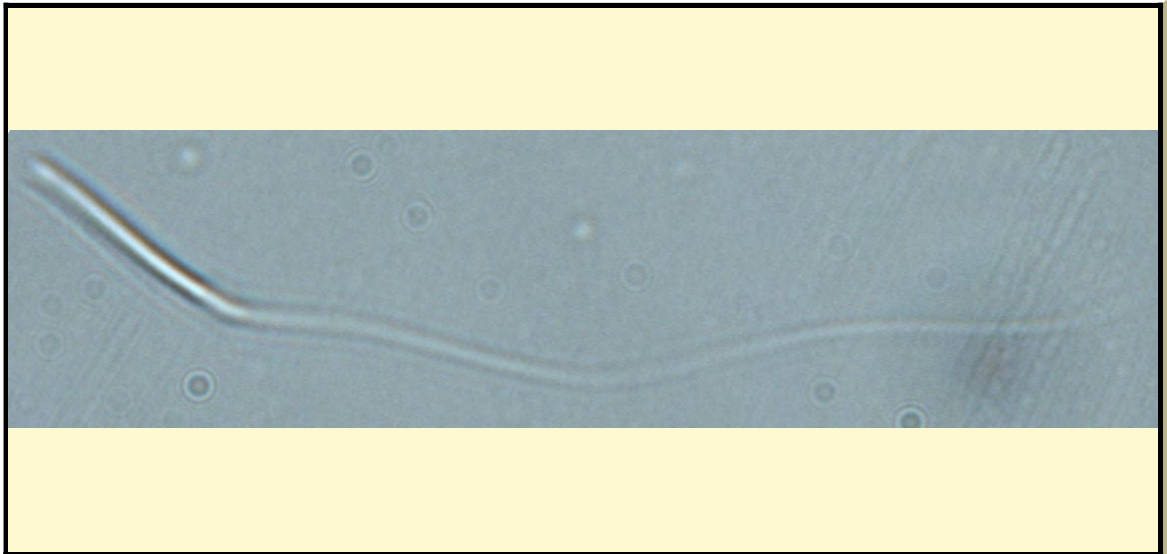
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Smew

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Aves

RP NUMBER

13-120

ORDER

Anseriformes

STAIN

None

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Anatidae

ANIMAL PICTURE

SUBFAMILY

Merginae

GENUS

Mergellus

SPECIES

Mergus albellus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.00

Head Width

1.00

Midpiece Length

Tail Length

17.00

Measure Total

24.00

NOTES



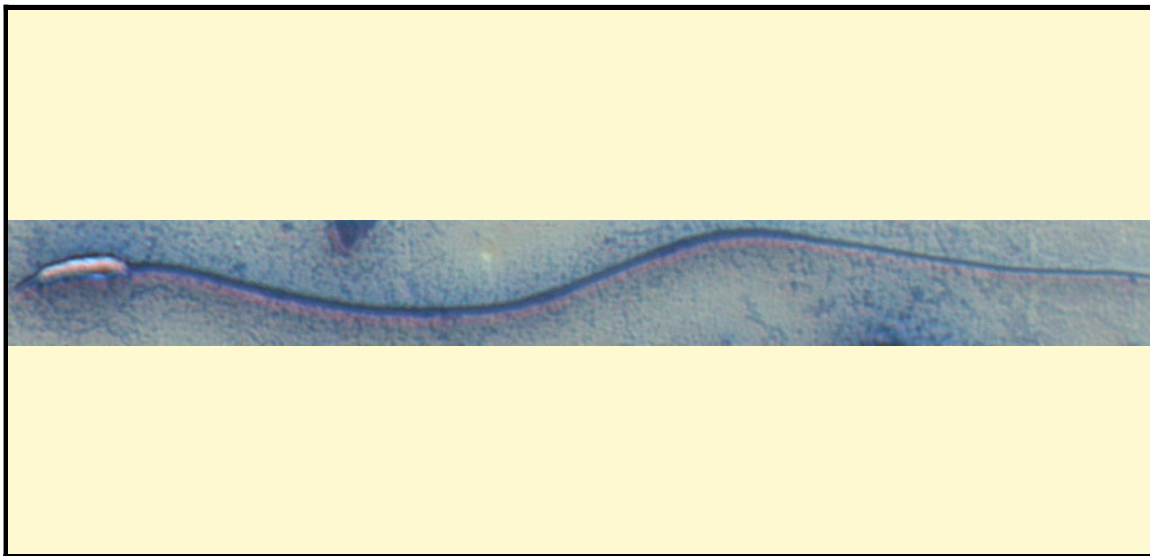
No midpiece was discernible

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Ethiopian Mountain Adder

PICTURE



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CLASS

Reptilia

RP NUMBER

13-132

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Viperidae

SUBFAMILY

Viperinae

GENUS

Bitis

ANIMAL PICTURE

SPECIES

Bitis parviocula

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

11.00

Head Width

1.25

Midpiece Length

53.00

Tail Length

26.00

Measure Total

90.00

NOTES



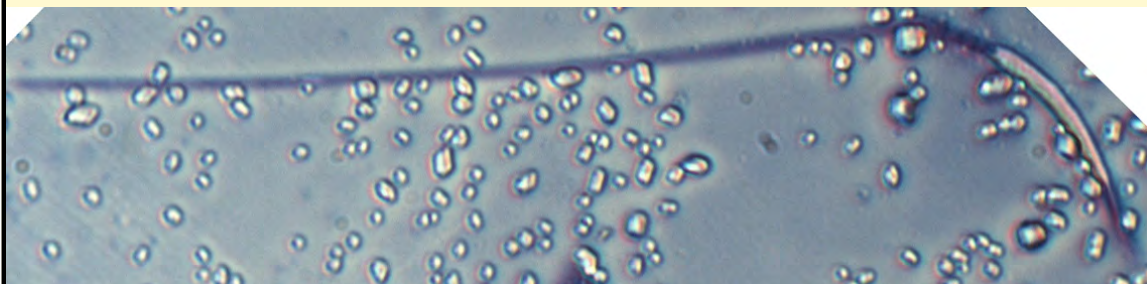
Animal Photo Credit: Vic Murayama

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Green Iguana

PICTURE



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CLASS

Reptilia

RP NUMBER

13-136

ORDER

Squamata

STAIN

Pope

SUBORDER

FAMILY

Iguanidae

HEAD SHAPE

Filiformal

SUBFAMILY

GENUS

Iguana

ANIMAL PICTURE

SPECIES

Iguana iguana

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

17.00

Head Width

1.00

Midpiece Length

7.00

Tail Length

60.00

Measure Total

84.00

NOTES



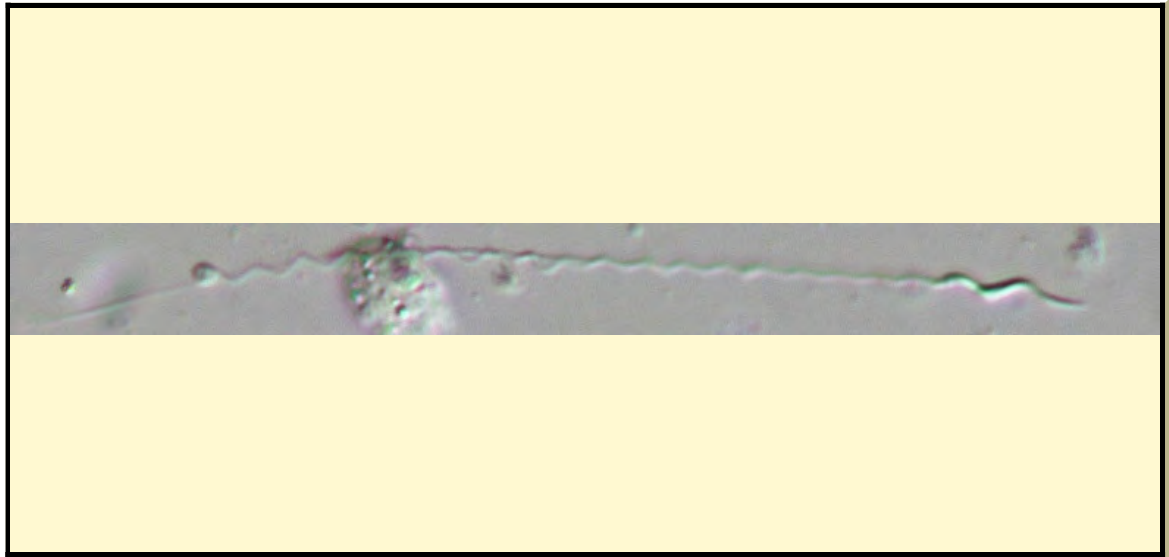
Specimen sent from University of Florida

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Maui Parrotbill

PICTURE



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CLASS

Aves

RP NUMBER

13-140

ORDER

Passeriformes

STAIN

None

SUBORDER

HEAD SHAPE

Helical

FAMILY

Fringillidae

ANIMAL PICTURE

SUBFAMILY

Drepanidinae

GENUS

Pseudonestor

SPECIES

Pseudonestor xanthophrys

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



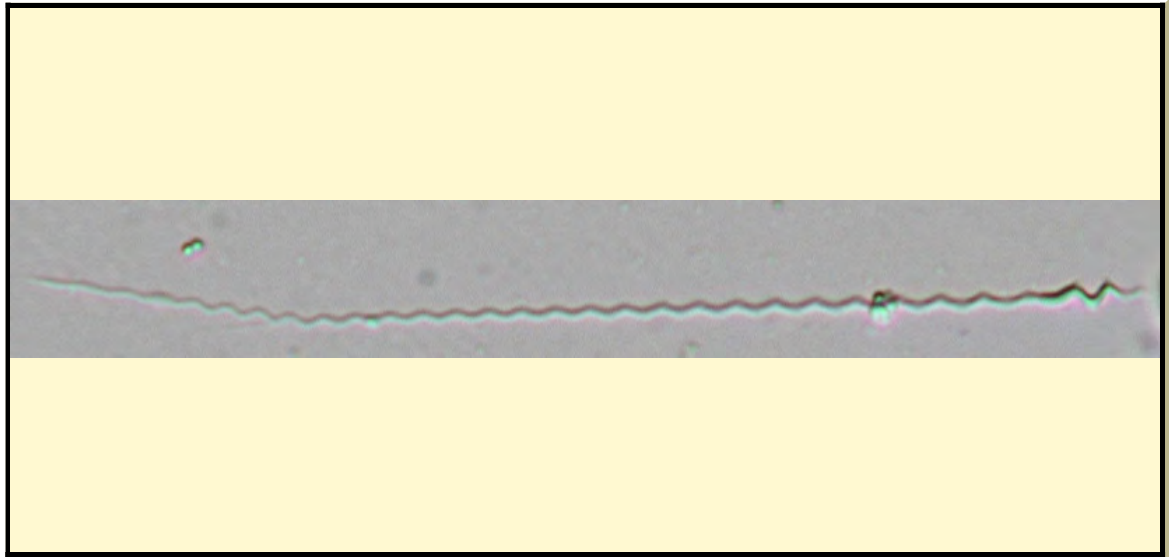
Cellular debris around tail due to the post mortem sample.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Puaiohi

PICTURE



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CLASS

Aves

RP NUMBER

13-144

ORDER

Passeriformes

STAIN

None

SUBORDER

HEAD SHAPE

Helical

FAMILY

Turdidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Myadestes

SPECIES

Myadestes palmeri

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.00

Head Width

1.00

Midpiece Length

Tail Length

95.00

Measure Total



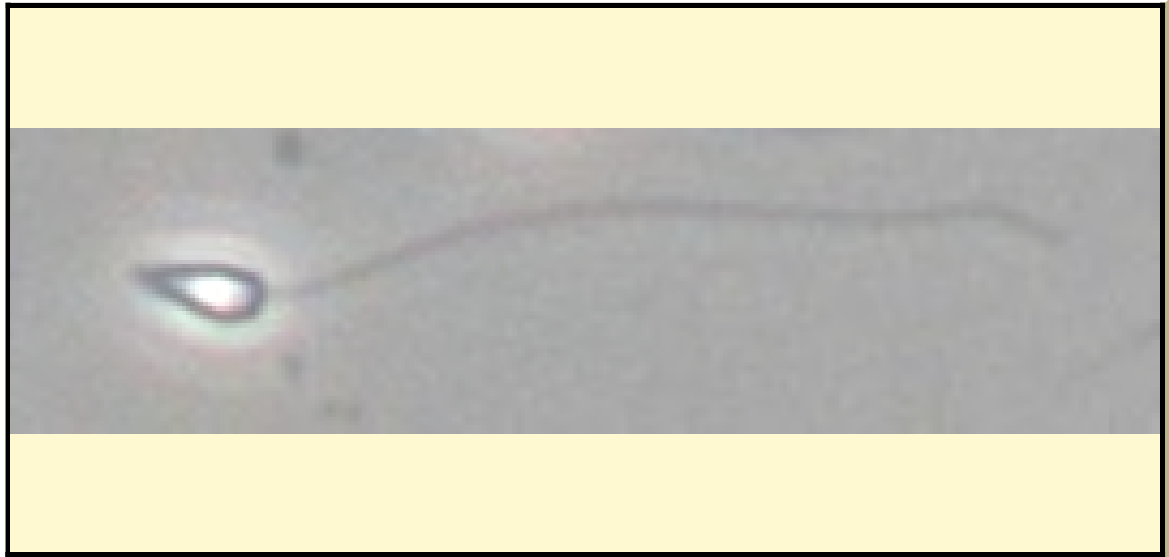
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Atlantic Purple Sea Urchin

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Echinoidea

RP NUMBER

ORDER

Echinoida

STAIN

None

SUBORDER

HEAD SHAPE

Conical

FAMILY

Strongylocentrotidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Strongylocentrotus

SPECIES

Strongylocentrotus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



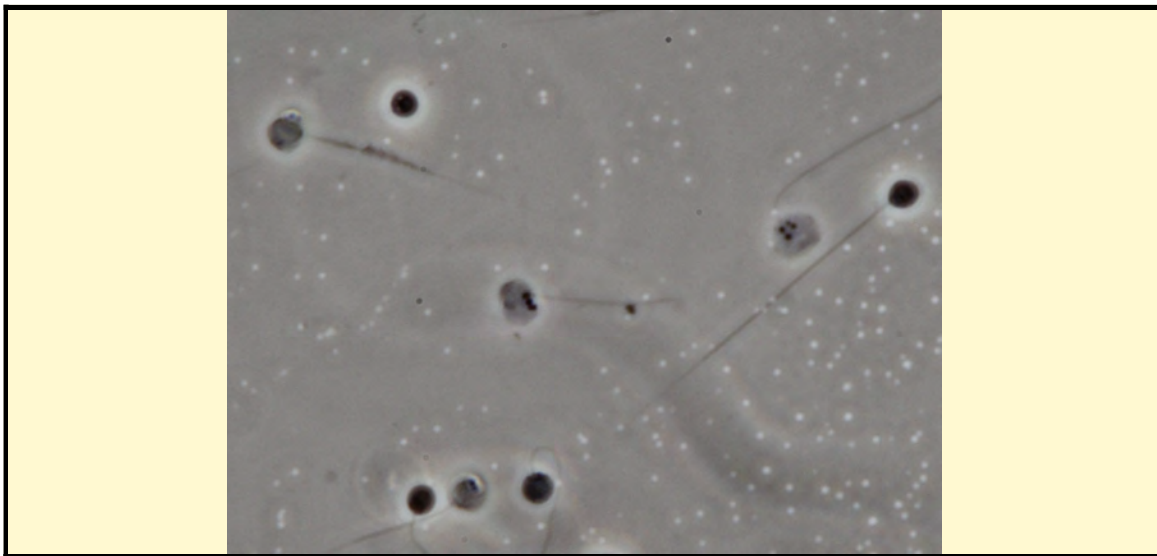
Sperm Photo Credit: Dr. Scott Applebaum
urchin photo credit: <http://www.animalstown.com/animals/s/sea-urchin/wallpapers/sea-urchin-wallpaper-01.php>

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Pacific Oyster

PICTURE



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CLASS

Bivalvia

RP NUMBER

ORDER

Ostreoida

STAIN

None

SUBORDER

FAMILY

Ostreidae

HEAD SHAPE

Round

SUBFAMILY

GENUS

Crassostrea

ANIMAL PICTURE

SPECIES

Crassostrea gigas

SUBSPECIES

MEASUREMENTS (µm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



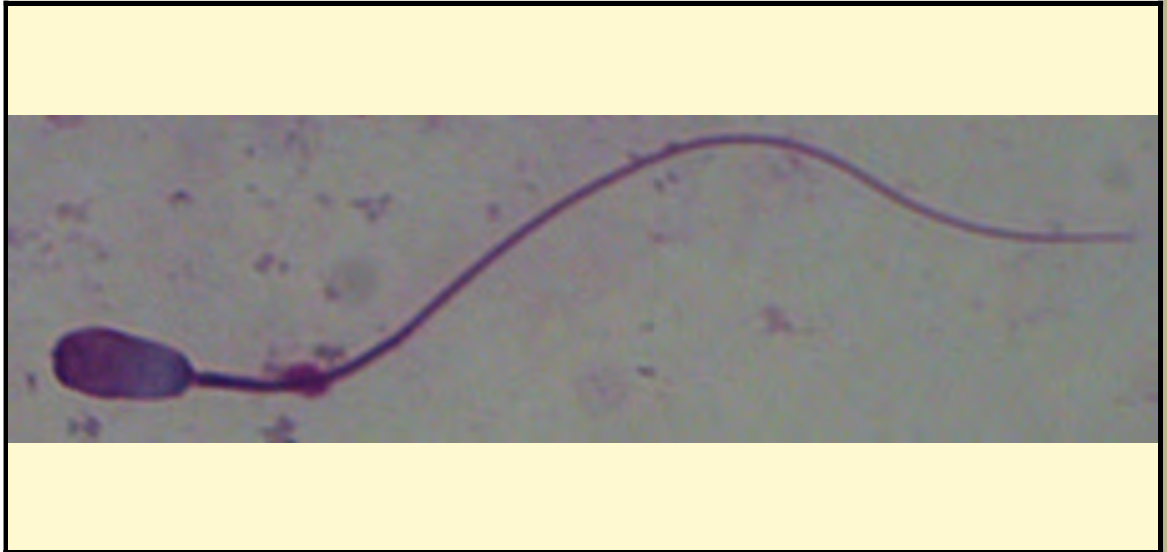
sperm and oysters photo credit: Dr. Scott Applebaum

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Baja Pronghorn

PICTURE



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CLASS

Mammalia

RP NUMBER

15-126

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Antilocapridae

ANIMAL PICTURE

SUBFAMILY

GENUS

Antilocapra

SPECIES

SUBSPECIES

Antilocapra americana

MEASUREMENTS (μm)

Head Length

7.50

Head Width

4.00

Midpiece Length

11.00

Tail Length

42.00

Measure Total

60.50



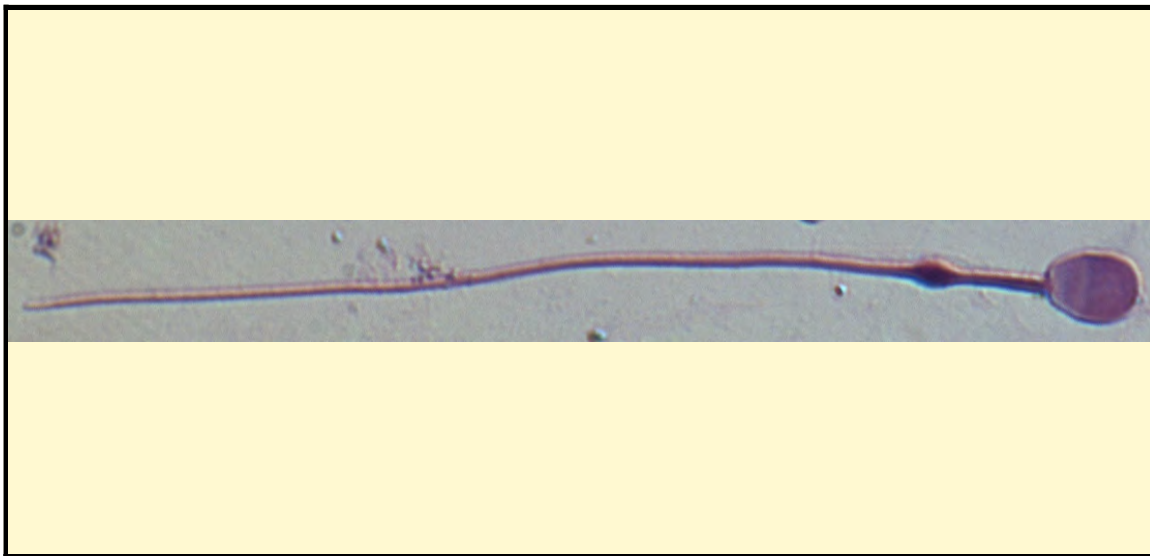
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Manchurian Brown Bear

PICTURE



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CLASS

Mammalia

RP NUMBER

13-196

ORDER

Carnivora

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Round

FAMILY

Ursidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Ursus

SPECIES

Ursus arctos lasiotus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.00

Head Width

5.00

Midpiece Length

10.00

Tail Length

49.00

Measure Total

66.00

NOTES



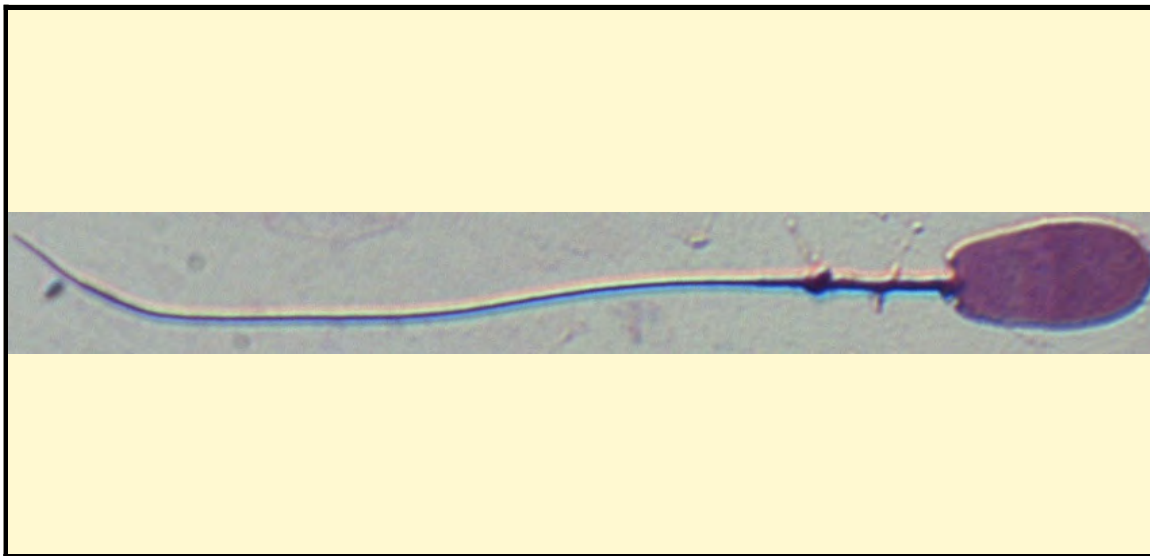
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Southern Pudu

PICTURE



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CLASS

Mammalia

RP NUMBER

13-193

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Pudu

SPECIES

Pudu puda

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

9.00

Head Width

6.00

Midpiece Length

8.00

Tail Length

40.00

Measure Total

57.00



NOTES

the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Chevrotain

PICTURE



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CLASS

Mammalia

RP NUMBER

06-102

ORDER

Artiodactyla

STAIN

Pap

SUBORDER

FAMILY

Tragulidae

HEAD SHAPE

Round

SUBFAMILY

GENUS

Tragulus

ANIMAL PICTURE

SPECIES

Tragulus javanicus ravus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

4.50

Head Width

4.00

Midpiece Length

8.00

Tail Length

25.00

Measure Total

37.50

NOTES



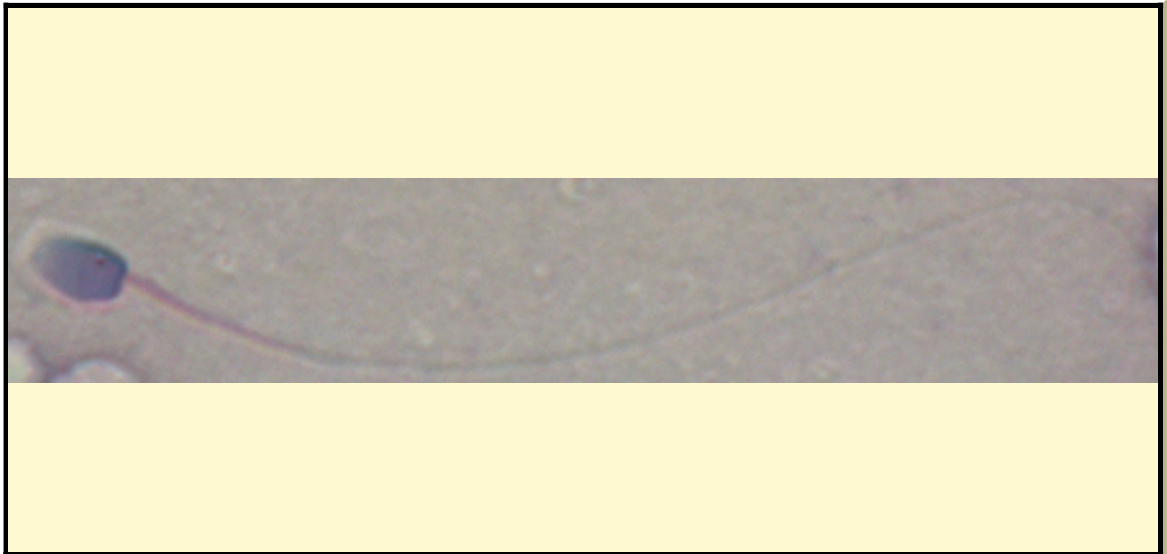
sperm looks to have accentric head attachment

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

L'hoests Guenon

PICTURE



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CLASS

Mammalia

RP NUMBER

06-227

ORDER

Primates

STAIN

Pap

SUBORDER

HEAD SHAPE

Oval

FAMILY

Cercopithecidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Cercopithecus

SPECIES

Cercopithecus lhoesti

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

4.00

Head Width

2.50

Midpiece Length

41.00

Tail Length

9.00

Measure Total

54.00

NOTES

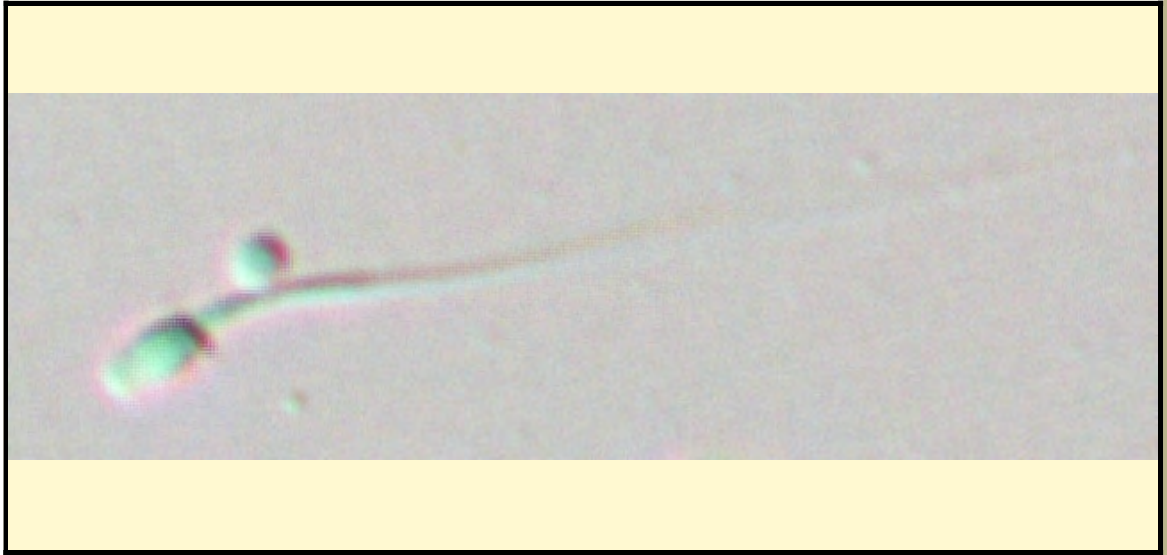


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Clouded Leopard

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Mammalia

RP NUMBER

13-243

ORDER

Carnivora

STAIN

None

SUBORDER

HEAD SHAPE

Oval

FAMILY

felidae

SUBFAMILY

pantheridae

ANIMAL PICTURE

GENUS

neofelis

SPECIES

neofelis nebulosa nebulosa

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES

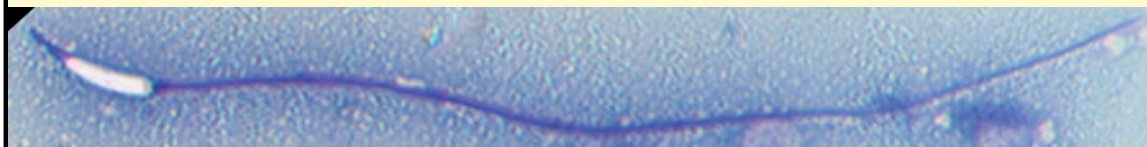


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Mang Mountain Pit Viper

PICTURE



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CLASS

Reptilia

RP NUMBER

13-245

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Sickle

FAMILY

Viperidae

SUBFAMILY

Crotalinae

ANIMAL PICTURE

GENUS

Trimeresurus

SPECIES

Trimeresurus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.00

Head Width

1.00

Midpiece Length

45.00

Tail Length

23.00

Measure Total

78.00

NOTES

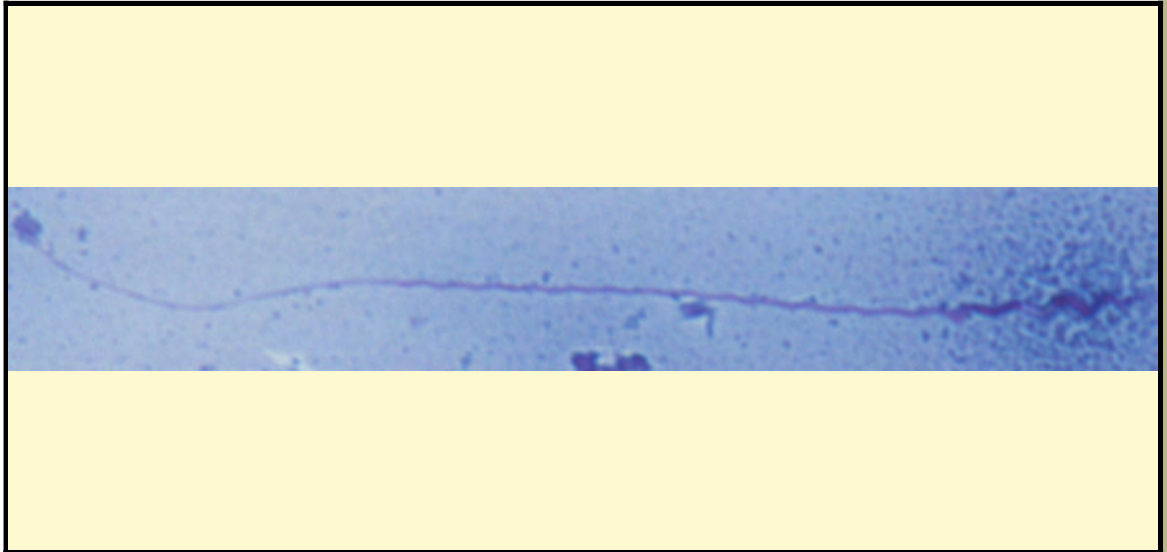


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Palila

PICTURE



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CLASS

Aves

RP NUMBER

13-265

ORDER

Passeriformes

STAIN

Pope

SUBORDER

Passeri

HEAD SHAPE

Helical

FAMILY

Fringilidae

ANIMAL PICTURE

SUBFAMILY

Carduelinae

GENUS

Loxioides

SPECIES

Loxioides bailleui

SUBSPECIES

MEASUREMENTS (μm)

Head Length

20.00

Head Width

1.00

Midpiece Length

62.00

Tail Length

44.00

Measure Total

126.00

NOTES



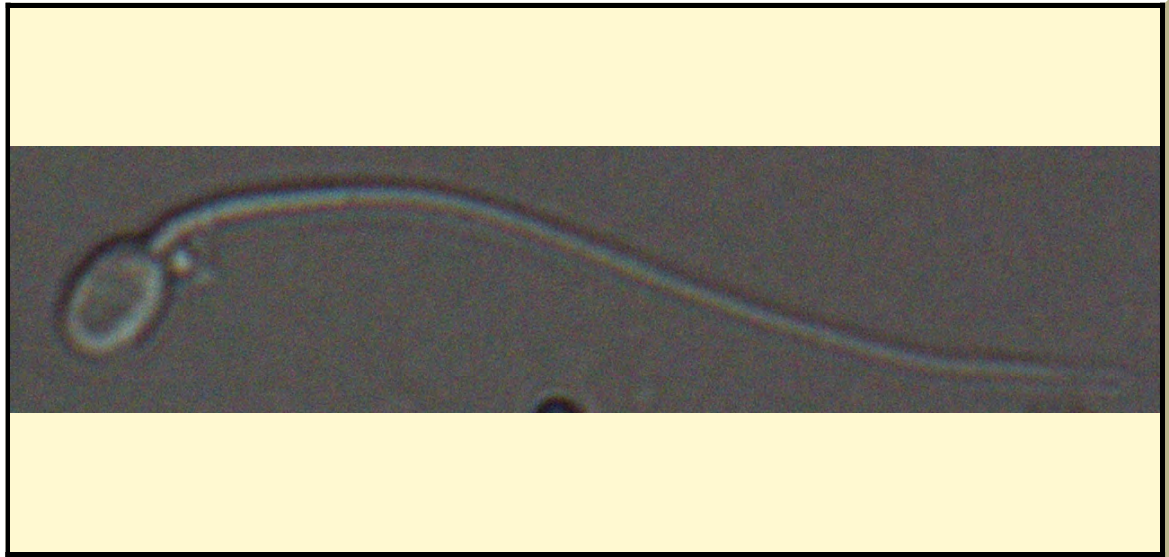
Sample sent from Keauhou Bird Conservation Center

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

South African Rock Hyrax

PICTURE



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CLASS

Mammalia

RP NUMBER

13-272

ORDER

Hyracoidea

STAIN

None

SUBORDER

HEAD SHAPE

Round

FAMILY

Procaviidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Procavia

SPECIES

Procavia Capensis Capensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

5.63

Head Width

3.75

Midpiece Length

15.00

Tail Length

35.00

Measure Total

55.63

NOTES



SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Gerenuk

PICTURE



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CLASS

Mammalia

RP NUMBER

14-021

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Antilopinae

GENUS

Litocranius

SPECIES

Litocranius walleri walleri

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.00

Head Width

4.00

Midpiece Length

13.00

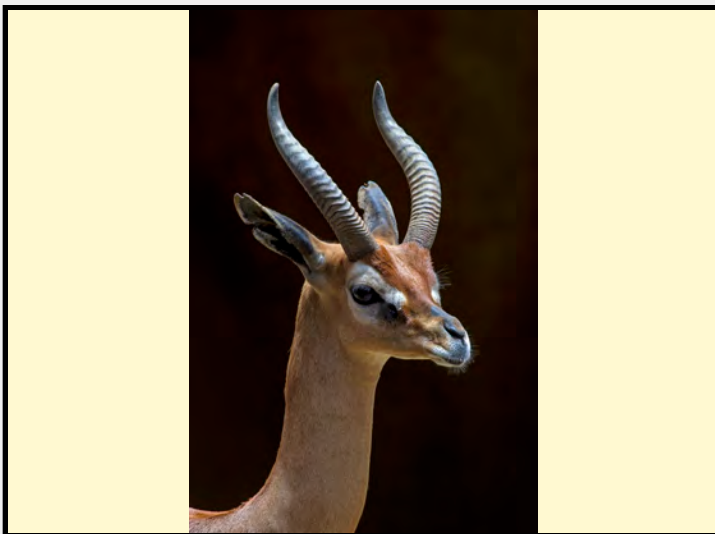
Tail Length

33.00

Measure Total

54.00

NOTES



the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Papuan Mountain-pigeon

PICTURE



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CLASS

Aves

RP NUMBER

14-040

ORDER

Columbiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Columbidae

SUBFAMILY

GENUS

Gymnophaps

ANIMAL PICTURE

SPECIES

Gymnophaps albertisii

SUBSPECIES

MEASUREMENTS (μm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES

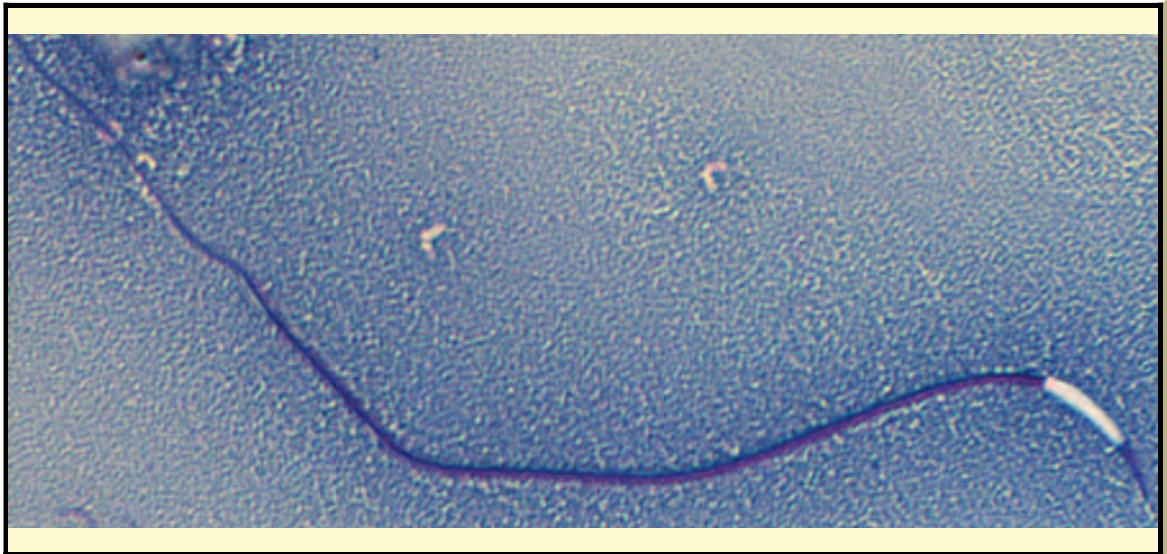


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Black Milksnake

PICTURE



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CLASS

Reptilia

RP NUMBER

14-043

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Colubridae

ANIMAL PICTURE

SUBFAMILY

Colubrinae

GENUS

Lampropeltis

SPECIES

Lampropeltis triangulum

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

13.00

Head Width

1.00

Midpiece Length

68.00

Tail Length

30.00

Measure Total

111.00

NOTES

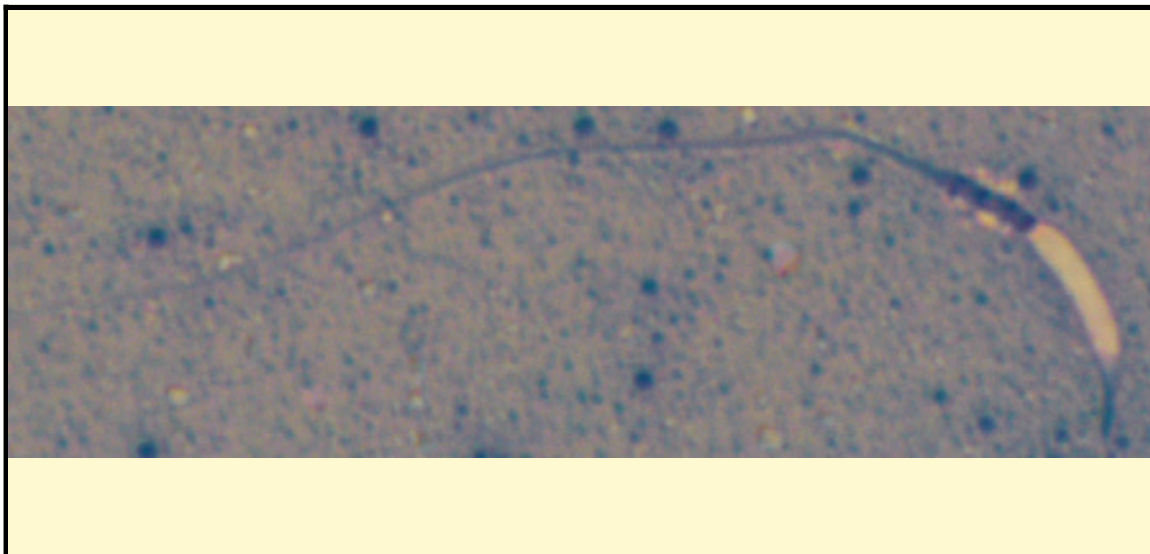


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Rough-necked Monitor

PICTURE



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CLASS

Reptilia

RP NUMBER

14-065

ORDER

Squamata

STAIN

Pope

SUBORDER

Lacertilia

HEAD SHAPE

Filiform

FAMILY

Varanidae

SUBFAMILY

GENUS

Varanus

ANIMAL PICTURE

SPECIES

Varanus rudicollis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

1.50

Midpiece Length

5.00

Tail Length

33.00

Measure Total

49.00

NOTES



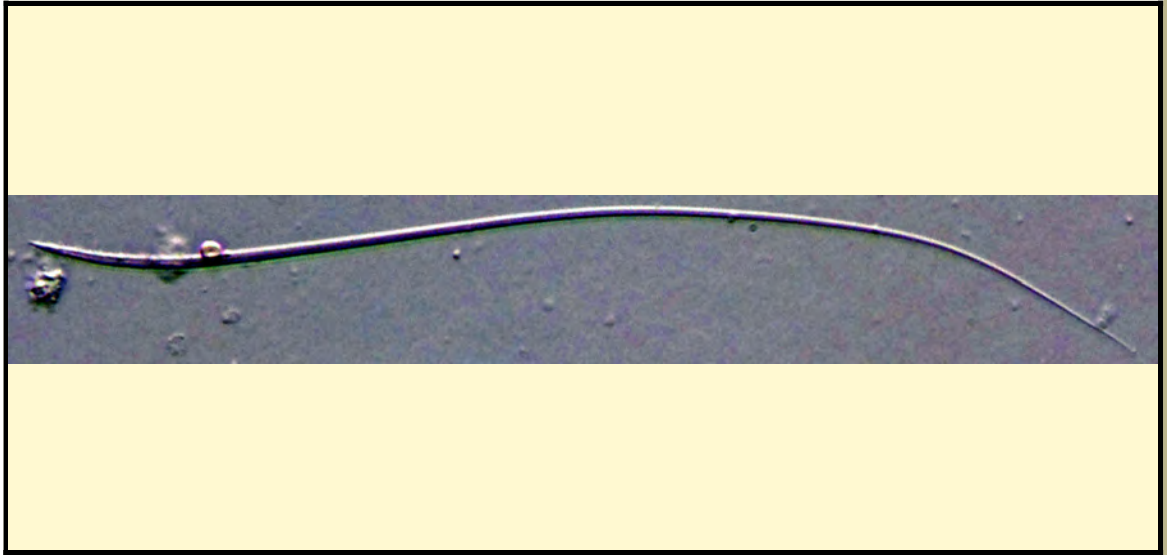
Animal photo credit: Con Foley at http://www.pbase.com/con_foley/image/150904670

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Stripe faced dunnart

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Dasyuromorphia

STAIN

None

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Dasyuridae

SUBFAMILY

GENUS

Sminthopsis

ANIMAL PICTURE

SPECIES

Sminthopsis macroura

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total



NOTES

the sperm was epididymal therefore there is a cytoplasmic droplet present

Sperm photo credit: Natalie Calatyud

Animal Photo credit: Gerhard Koertner

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Oriental Fire-bellied toad

PICTURE



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CLASS

Amphibia

RP NUMBER

14-124

ORDER

Anura

STAIN

None

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Bombinatoridae

SUBFAMILY

GENUS

Bombina

ANIMAL PICTURE

SPECIES

Bombina orientalis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

9.00

Head Width

1.00

Midpiece Length

Tail Length

8.00

Measure Total

17.00

NOTES



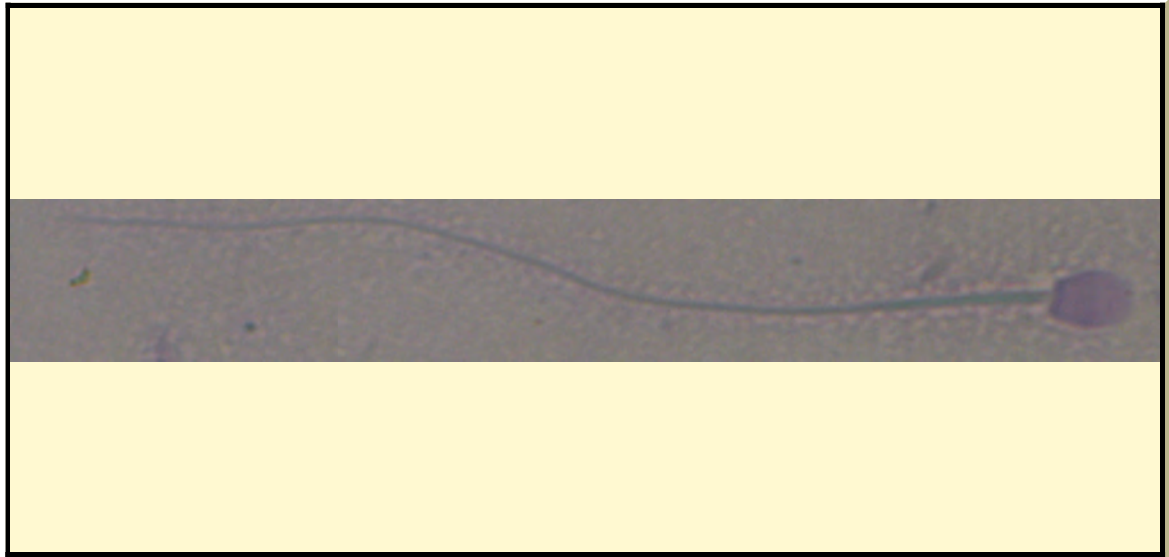
The midpiece not able to be distinguished to measure
sample was testicular

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Polar Bear

PICTURE



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CLASS

Mammalia

RP NUMBER

14-151

ORDER

Carnivora

STAIN

Pap

SUBORDER

HEAD SHAPE

Round

FAMILY

Ursidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Ursus

SPECIES

Ursus maritimus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.00

Head Width

4.00

Midpiece Length

11.00

Tail Length

31.00

Measure Total

47.00

NOTES

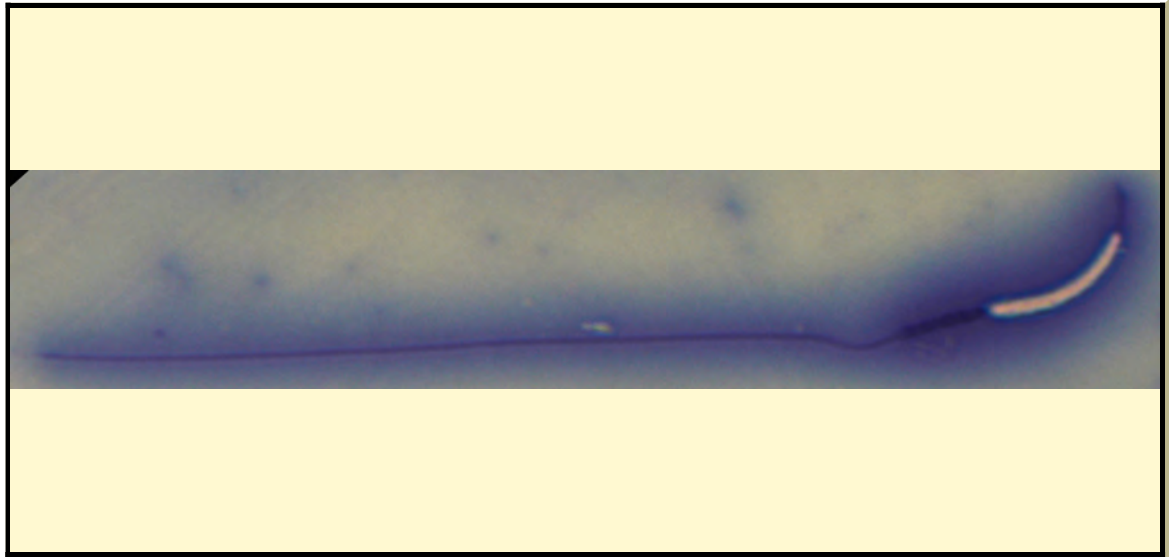


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Southern Leaf-tailed Gecko

PICTURE



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CLASS

Reptilia

RP NUMBER

14-166

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Gekkonidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Uroplatus

SPECIES

Uroplatus sikorae sameiti

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

15.00

Head Width

1.50

Midpiece Length

6.00

Tail Length

55.00

Measure Total

76.00

NOTES

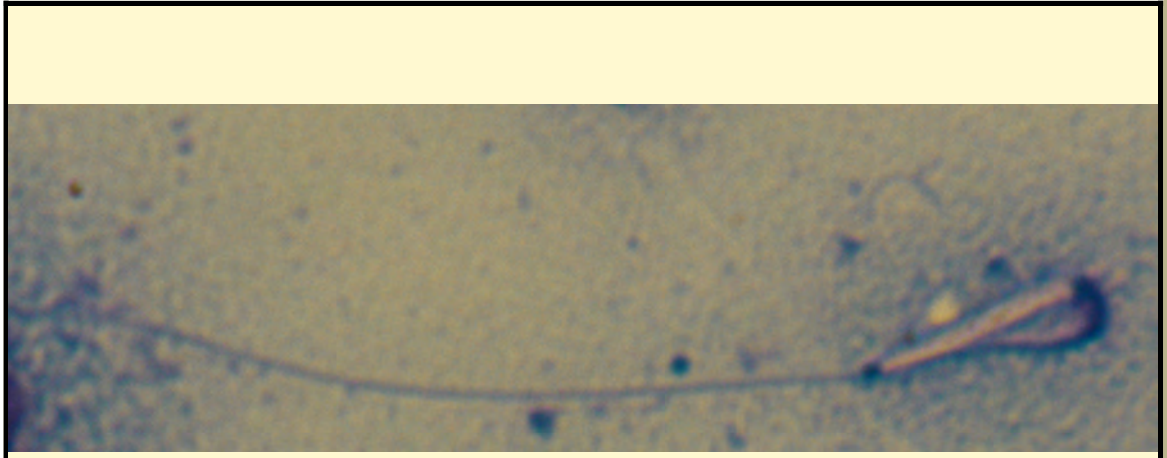


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Roseate Spoonbill

PICTURE



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CLASS

Aves

RP NUMBER

14-168

ORDER

Pelecaniformes

STAIN

Pope

SUBORDER

FAMILY

Thresionnithidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Platalea

ANIMAL PICTURE

SPECIES

Platalea ajaja

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.00

Head Width

1.50

Midpiece Length

7.00

Tail Length

67.00

Measure Total

NOTES



abnormal morphology as head was bent back on tail

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Reichenow's Helmeted Guineafowl

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Aves

RP NUMBER

14-275

ORDER

Galliformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Numidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Numida

SPECIES

Numida meleagris

SUBSPECIES

MEASUREMENTS (μm)

Head Length

13.00

Head Width

1.00

Midpiece Length

21.00

Tail Length

40.00

Measure Total

74.00



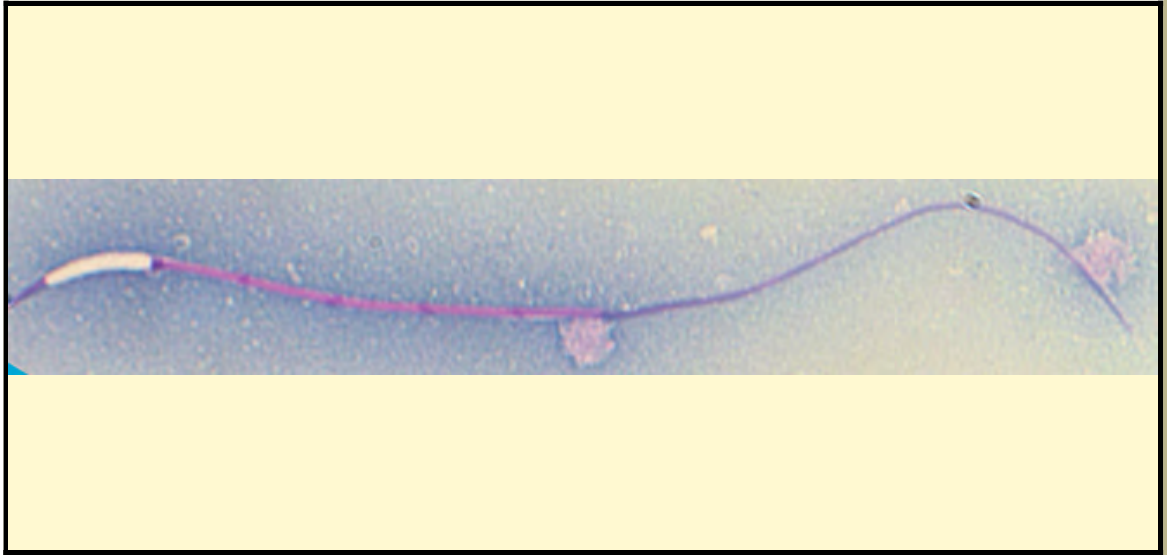
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Indian Python

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Reptilia

RP NUMBER

14-316

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Pythonidae

SUBFAMILY

GENUS

Python

ANIMAL PICTURE

SPECIES

Python molurus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

12.00

Head Width

1.25

Midpiece Length

35.00

Tail Length

46.00

Measure Total

93.00

NOTES

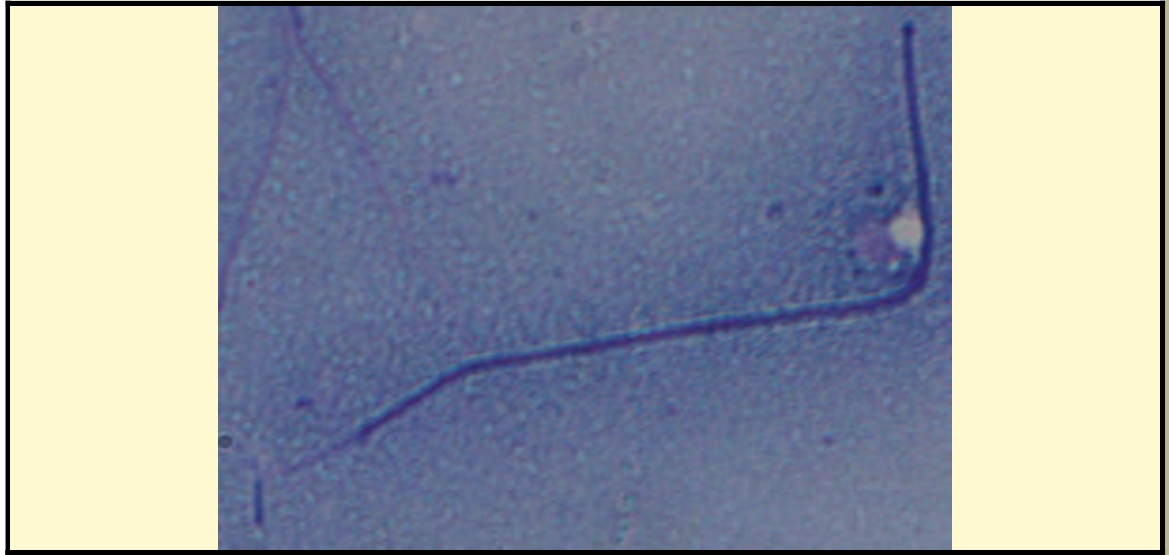


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Tentacled Snake

PICTURE



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CLASS

Reptilia

RP NUMBER

14-318

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Colubridae

SUBFAMILY

ANIMAL PICTURE

GENUS

Erpeton

SPECIES

Erpeton tentaculatum

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



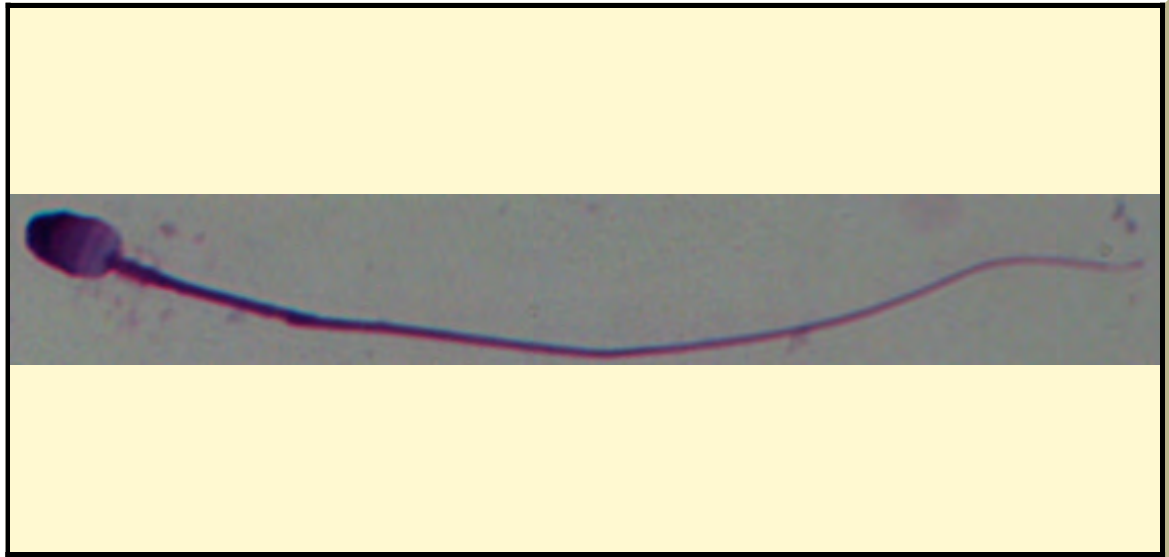
Measurements in pope stain: Light part: 23 Dark part: 60

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Sri Lankan Slender Loris

PICTURE



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CLASS

Mammalia

RP NUMBER

14-325

ORDER

Primates

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Round

FAMILY

Lorisidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Loris

SPECIES

Loris tardigradus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

4.00

Midpiece Length

25.00

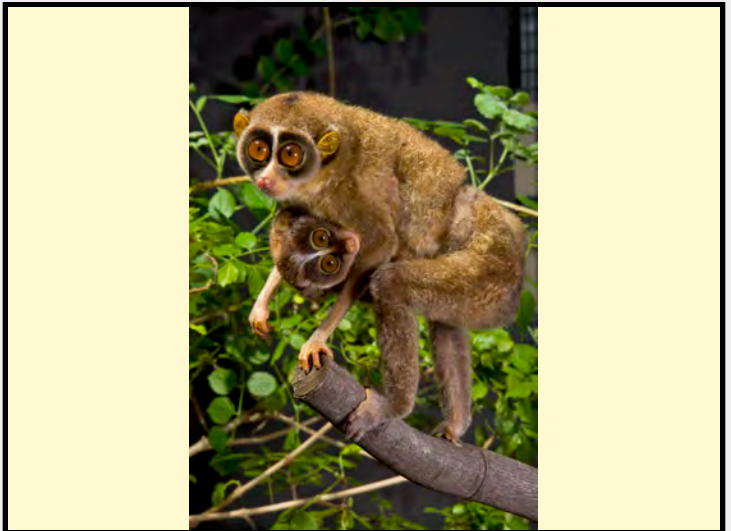
Tail Length

45.00

Measure Total

75.00

NOTES



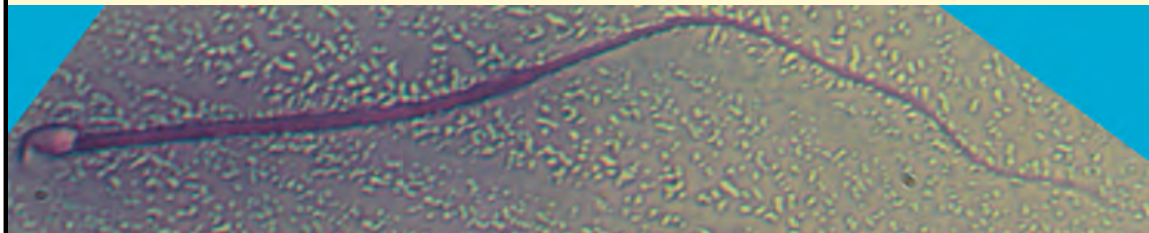
The head length is 5um without the acrosome but 6um with the acrosome

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Pacific Pocket Mouse

PICTURE



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CLASS

Mammalia

RP NUMBER

14-336

ORDER

Rodentia

STAIN

Pope

SUBORDER

FAMILY

Heteromyidae

HEAD SHAPE

Hook

SUBFAMILY

GENUS

Perognathus

ANIMAL PICTURE

SPECIES

Perognathus longimembris

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.00

Head Width

3.00

Midpiece Length

40.00

Tail Length

50.00

Measure Total

NOTES

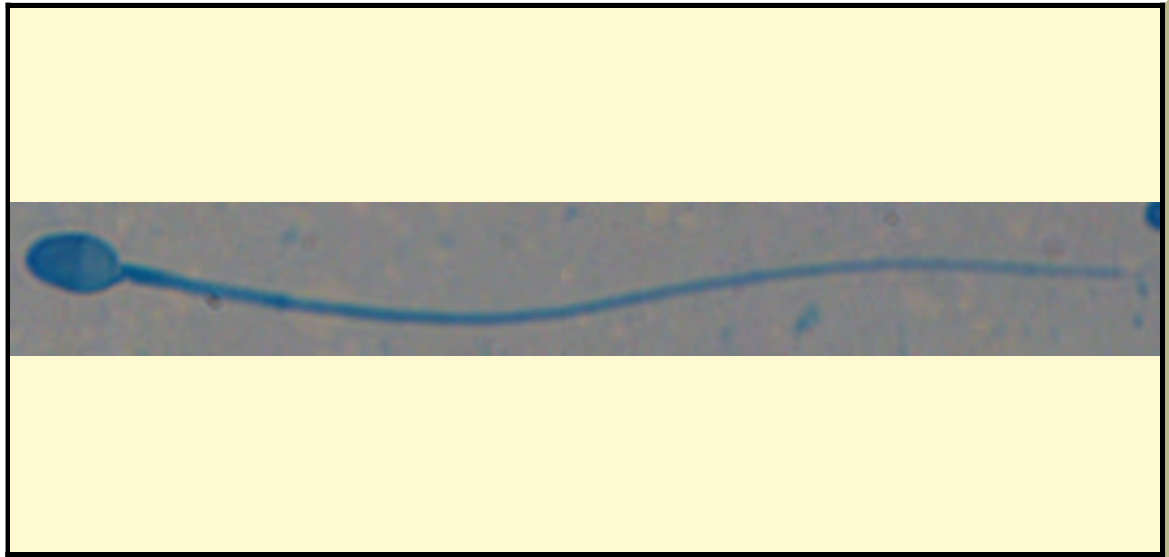


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Fishing Cat

PICTURE



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CLASS

Mammalia

RP NUMBER

15-022

ORDER

Carnivora

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Round

FAMILY

Felidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Prionailurus

SPECIES

Prionailurus viverrinus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.00

Head Width

3.00

Midpiece Length

10.00

Tail Length

42.00

Measure Total

57.00

NOTES



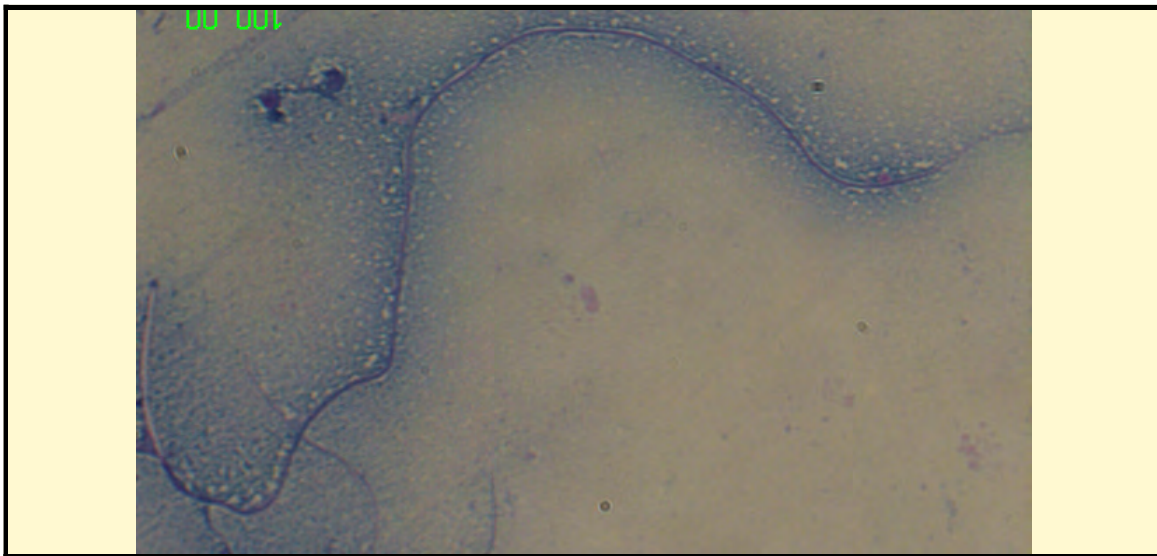
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Philippine Collared Dove

PICTURE



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CLASS

Aves

RP NUMBER

15-032

ORDER

Columbiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Columbidae

SUBFAMILY

GENUS

Streptopelia

ANIMAL PICTURE

SPECIES

Streptopelia dussumieri

SUBSPECIES

MEASUREMENTS (μm)

Head Length

17.00

Head Width

1.00

Midpiece Length

122.00

Tail Length

31.00

Measure Total

170.00

NOTES



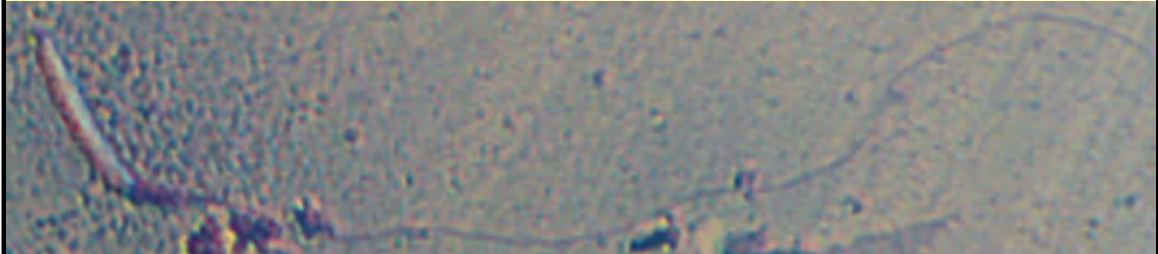
a small portion of the tail was not able to be imaged due to length of tail
Photo credit: Dr. Yap Lip Kee <https://www.flickr.com/photos/lipkee/552614782/in/set-72157600385867643/>

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Dalmatian Pelican

PICTURE



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CLASS

Aves

RP NUMBER

15-050

ORDER

Pelecaniformes

STAIN

Pope

SUBORDER

FAMILY

Pelecanida

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Pelecanus

ANIMAL PICTURE

SPECIES

Pelecanus crispus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

9.00

Head Width

2.00

Midpiece Length

4.00

Tail Length

55.00

Measure Total

68.00



NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Emerald Dove

PICTURE



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CLASS

Aves

RP NUMBER

15-064

ORDER

Columbiformes

STAIN

Pope

SUBORDER

FAMILY

Columbidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Chalcophaps

ANIMAL PICTURE

SPECIES

Chalcophaps indica

SUBSPECIES

MEASUREMENTS (μm)

Head Length

15.00

Head Width

1.25

Midpiece Length

112.00

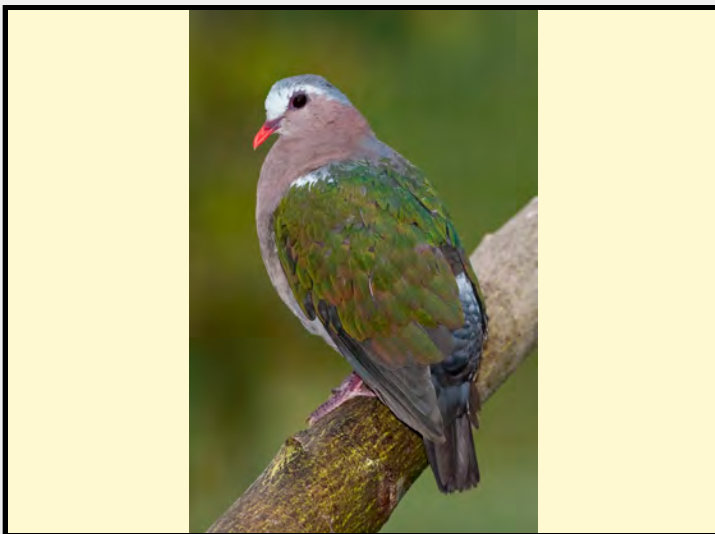
Tail Length

13.00

Measure Total

140.00

NOTES



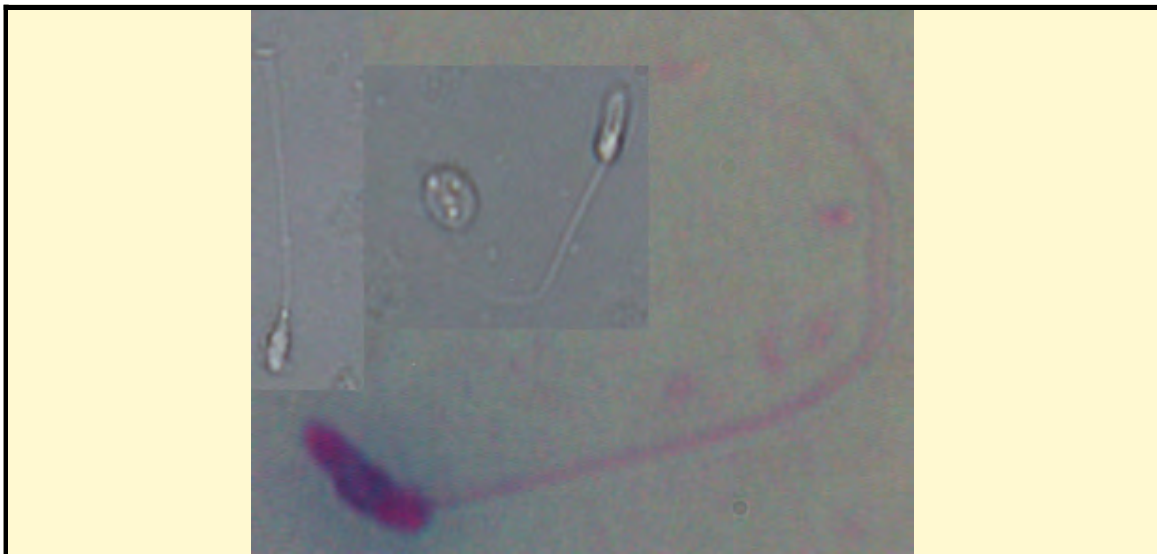
A small piece of debris is next to the head.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Naked Mole-rat

PICTURE



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CLASS

Mammalia

RP NUMBER

15-077

ORDER

Rodentia

STAIN

Pope and No stain

SUBORDER

HEAD SHAPE

Oval

FAMILY

Bathyergidae

ANIMAL PICTURE

SUBFAMILY

Heterocephalinae

GENUS

Heterocephalus

SPECIES

Heterocephalus glaber

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.50

Head Width

2.50

Midpiece Length

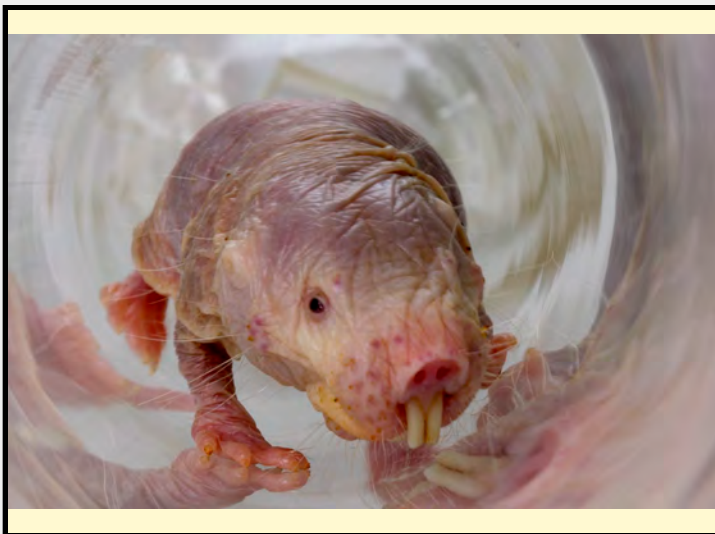
1.50

Tail Length

35.00

Measure Total

43.00



NOTES

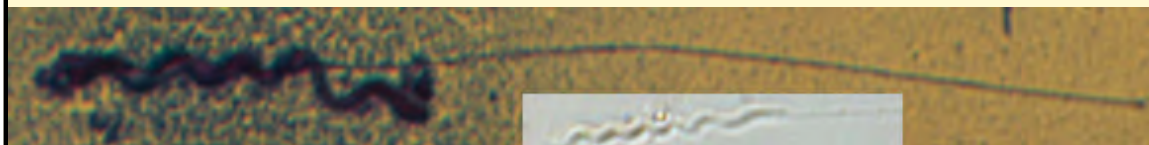
Non stained sperm and acrosome stained sperm

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Hawaiian Goose (Nene)

PICTURE



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CLASS

Aves

RP NUMBER

15-080

ORDER

Anseriformes

STAIN

Pope and No stain

SUBORDER

HEAD SHAPE

Helical

FAMILY

Anatidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Branta

SPECIES

Branta sandvicensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

27.50

Head Width

1.25

Midpiece Length

Tail Length

50.00

Measure Total

77.50



NOTES

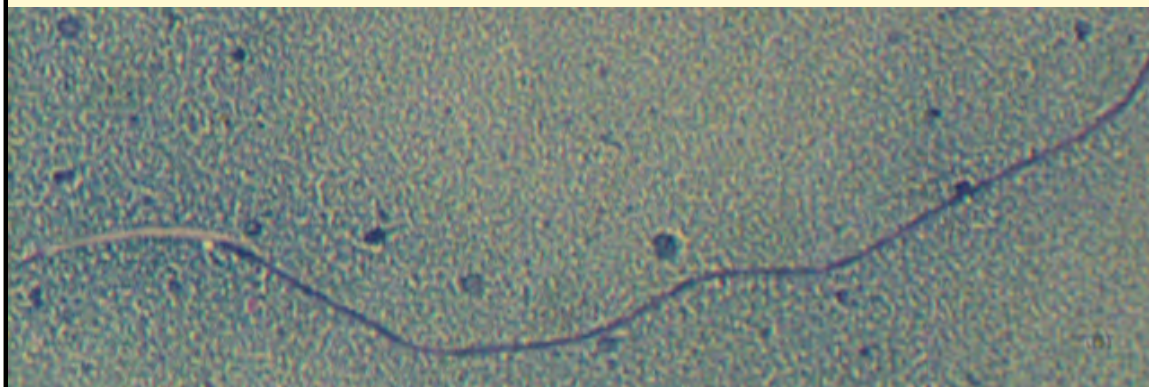
Non stained sperm and acrosome stained sperm

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Tambourine Dove

PICTURE



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CLASS

Aves

RP NUMBER

15-099

ORDER

Columbiformes

STAIN

Pope

SUBORDER

FAMILY

Columbidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Turtur

ANIMAL PICTURE

SPECIES

Turtur tympanistria

SUBSPECIES

MEASUREMENTS (μm)

Head Length

20.00

Head Width

0.75

Midpiece Length

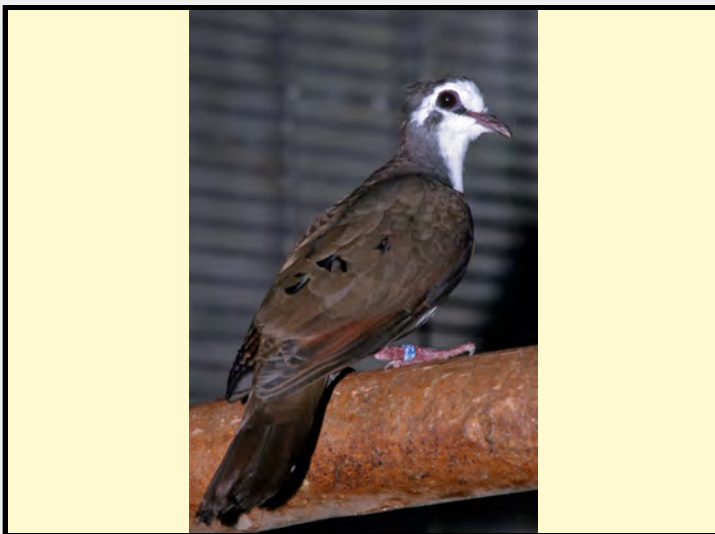
Tail Length

145.00

Measure Total

165.00

NOTES



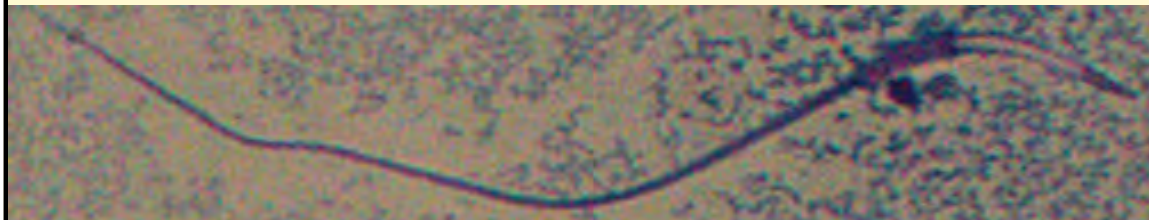
Midpiece was indistinguishable from the rest of the tail so the measurement was combined

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Hamilton's Pond Turtle

PICTURE



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CLASS

Reptilia

RP NUMBER

15-103

ORDER

Testudines

STAIN

Pope

SUBORDER

FAMILY

Geoemydidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Geoclemys

ANIMAL PICTURE

SPECIES

Geoclemys hamiltonii

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.00

Head Width

1.00

Midpiece Length

6.00

Tail Length

53.00

Measure Total

70.00

NOTES

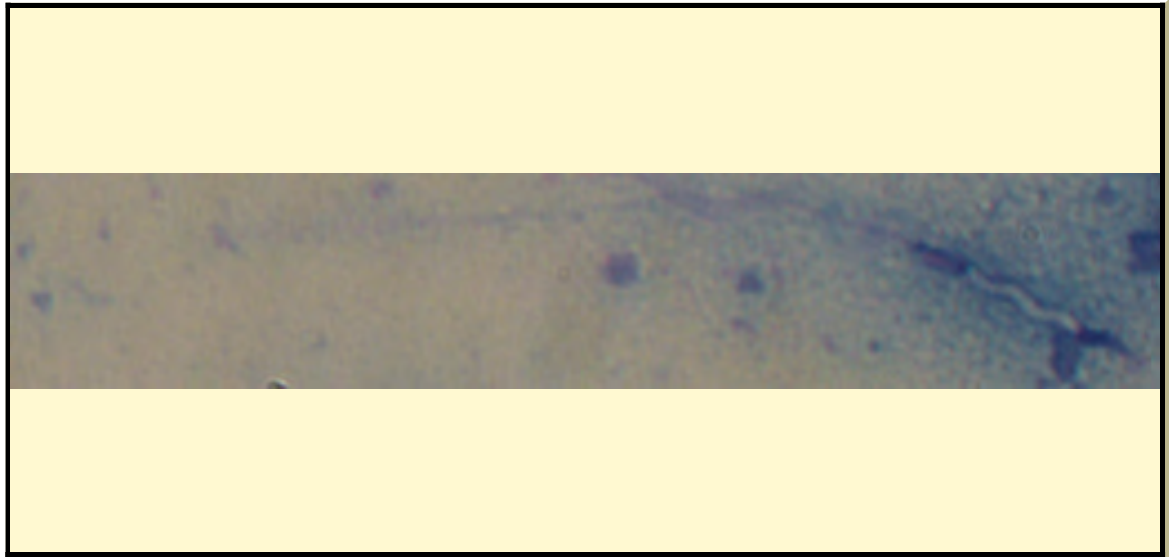


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

American Crow

PICTURE



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CLASS

Aves

RP NUMBER

15-111

ORDER

Passeriformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Helical

FAMILY

Corvidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Corvus

SPECIES

Corvus brachyrhynchos

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.50

Head Width

1.00

Midpiece Length

3.00

Tail Length

35.00

Measure Total

44.50

NOTES

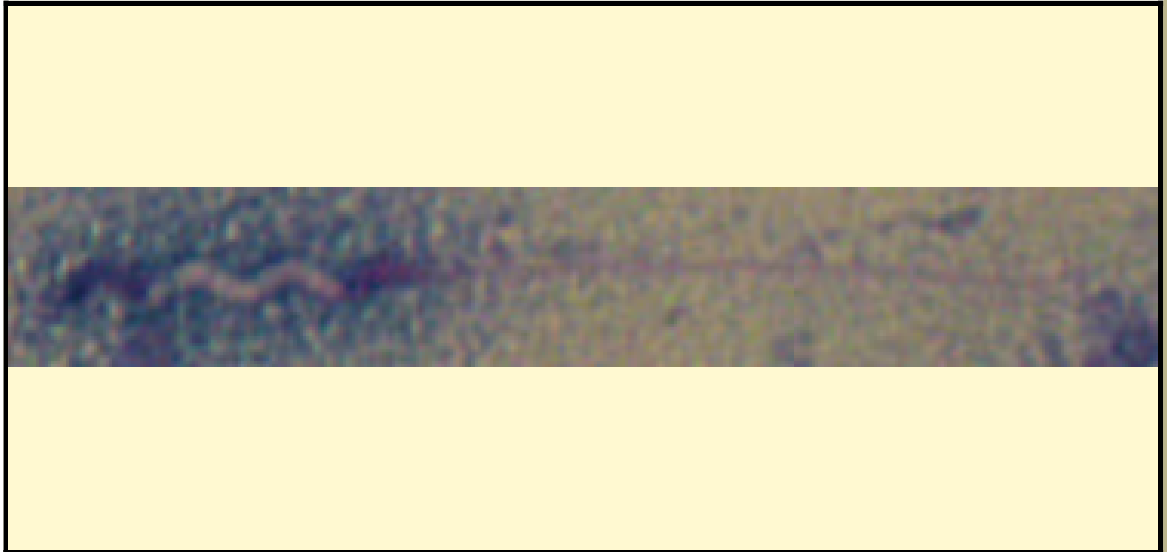


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Yellow-crowned Gonolek

PICTURE



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CLASS

Aves

RP NUMBER

15-141

ORDER

Passeriformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Sickle

FAMILY

Malaconotidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Laniarius

SPECIES

Laniarius barbarus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

12.00

Head Width

1.00

Midpiece Length

4.00

Tail Length

24.00

Measure Total

40.00



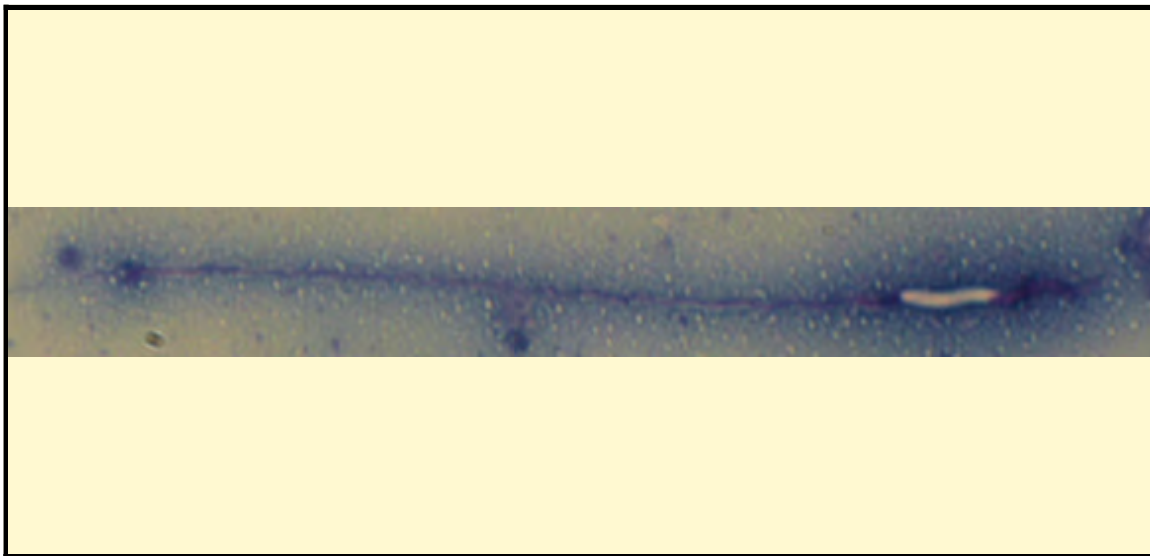
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Scarlet-faced Liocichla

PICTURE



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CLASS

Aves

RP NUMBER

15-144

ORDER

Passeriformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Sickle

FAMILY

Leiothrichidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Liocichla

SPECIES

Liocichla ripponi

SUBSPECIES

MEASUREMENTS (μm)

Head Length

14.00

Head Width

1.00

Midpiece Length

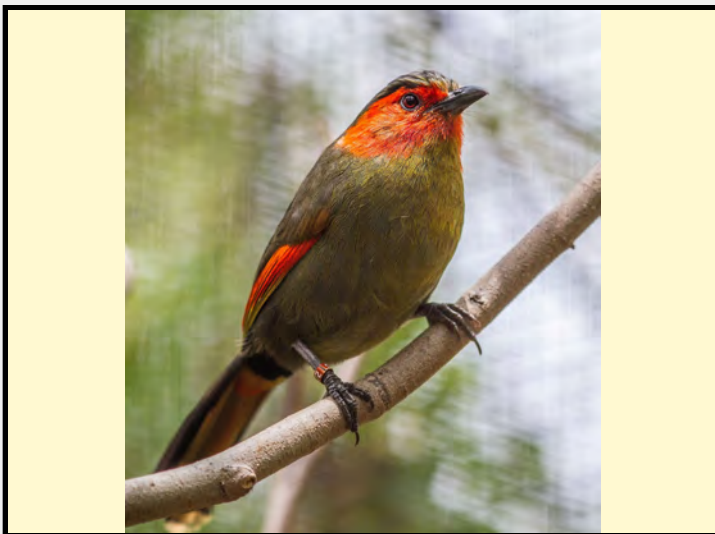
Tail Length

62.00

Measure Total

76.00

NOTES



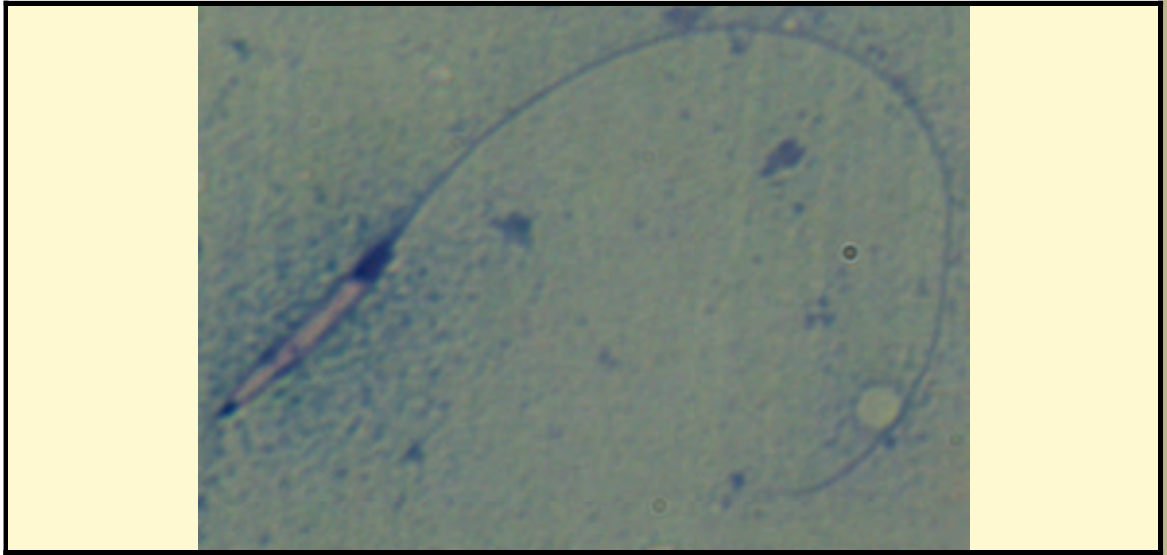
the midpiece could not be distinguished from the tail so the tail measurement includes both
Animal Photo Credit: Vic Murayama

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Greater Roadrunner

PICTURE



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CLASS

Aves

RP NUMBER

15-142

ORDER

Cuculiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Cuculidae

SUBFAMILY

Neomorphinae

ANIMAL PICTURE

GENUS

Geococcyx

SPECIES

Geococcyx californianus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.00

Head Width

1.00

Midpiece Length

2.50

Tail Length

47.00

Measure Total

59.50



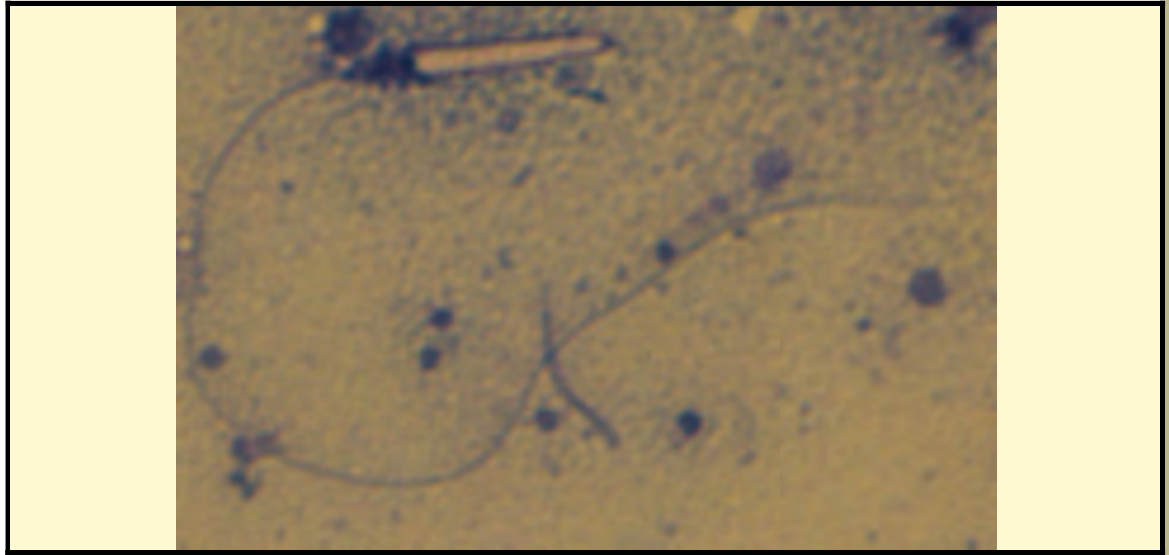
NOTES

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Eurasian Spoonbill

PICTURE



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CLASS

Aves

RP NUMBER

15-151

ORDER

Pelecaniformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Threskiornithidae

SUBFAMILY

GENUS

Platalea

ANIMAL PICTURE

SPECIES

Platalea leucorodia

SUBSPECIES

MEASUREMENTS (μm)

Head Length

9.50

Head Width

1.00

Midpiece Length

3.00

Tail Length

55.00

Measure Total

66.50

NOTES

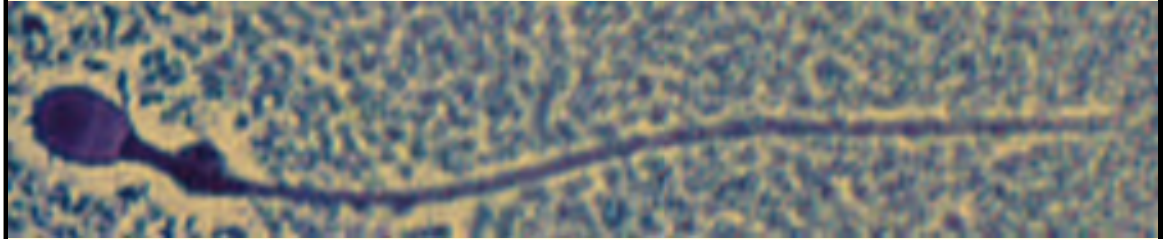


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Pygmy Marmoset

PICTURE



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CLASS

Mammalia

RP NUMBER

15-159

ORDER

Primates

STAIN

Pope

SUBORDER

FAMILY

callitrichidae

HEAD SHAPE

Round

SUBFAMILY

GENUS

Cebuella

ANIMAL PICTURE

SPECIES

Cebuella pygmaea

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

4.00

Midpiece Length

7.00

Tail Length

45.00

Measure Total

58.00

NOTES



SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Amur Leopard

PICTURE



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CLASS

Mammalia

RP NUMBER

15-191

ORDER

Carnivora

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Round

FAMILY

Felidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Panthera

SPECIES

Panthera pardus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.00

Head Width

3.00

Midpiece Length

22.00

Tail Length

25.00

Measure Total

52.00



NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Cactus Mouse

PICTURE



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CLASS

Mammalia

RP NUMBER

10-045

ORDER

STAIN

Pap

SUBORDER

Rodentia

HEAD SHAPE

Hook

FAMILY

Cricetidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Peromyscus

SPECIES

Peromyscus eremicus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



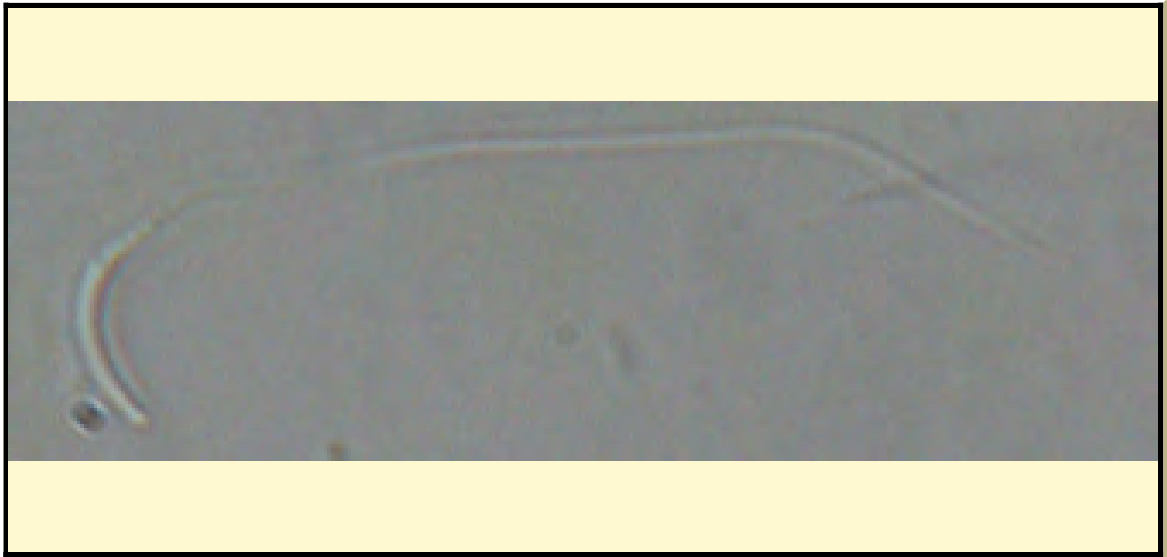
PHOTO CREDIT: James N. Stuart at <https://www.flickr.com/photos/stuartwildlife/6218689150/in/photolist-atwpCs-dcrcND-bvSQ1S-93idcZ-dLqidX-Gdt2D-rwibrH-azNYvQ-9p2kio-8VYGND-dnubH7-cJV22A-78S9FQ-4qPDQ3-b8s5U-pjHon5-6sMj86-hPFQmA-bEtLlxp-6tGErx-64i7aP-99mX5M-EL99h-e7GEvK-8VKCX2-fiuTvN-5sW8dY-bOYW6v-8NvKPa>

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Crocodile Lizard

PICTURE



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CLASS

Reptilia

RP NUMBER

14-340

ORDER

Squamata

STAIN

None

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Shinisauridae

SUBFAMILY

ANIMAL PICTURE

GENUS

Shinisaurus

SPECIES

Shinisaurus crocodilurus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total



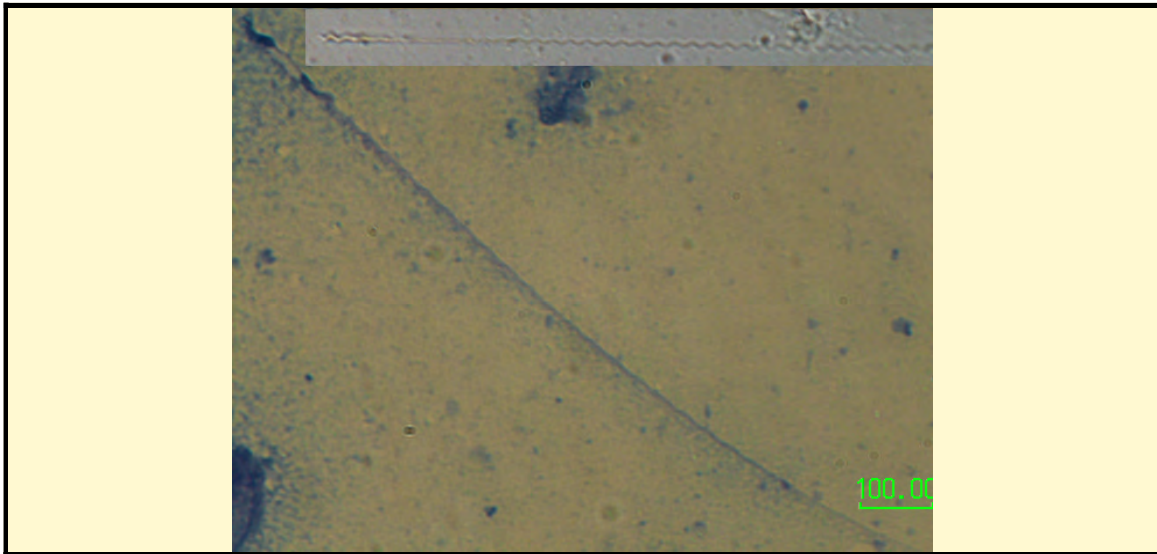
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Fairy-Bluebird

PICTURE



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CLASS

Aves

RP NUMBER

15-093

ORDER

Passeriformes

STAIN

Pope and No stain

SUBORDER

Passeri

HEAD SHAPE

Sickle

FAMILY

Irenidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Irena

SPECIES

Irena puella

SUBSPECIES

MEASUREMENTS (μm)

Head Length

9.00

Head Width

1.00

Midpiece Length

4.00

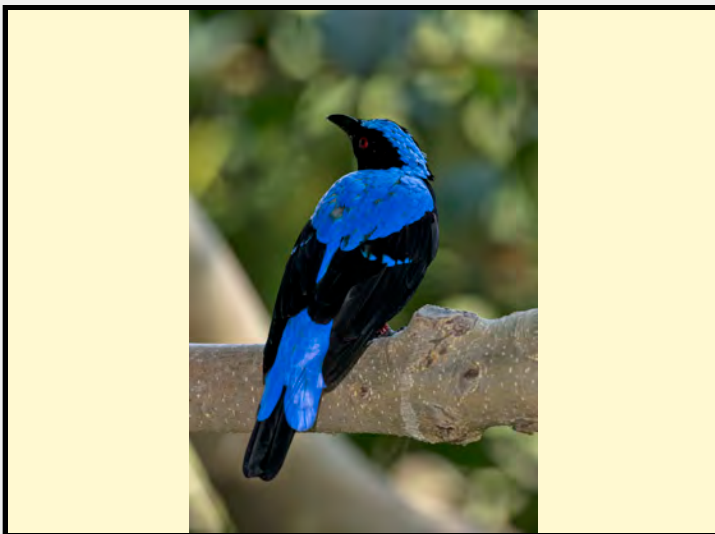
Tail Length

99.00

Measure Total

112.00

NOTES



Non stained sperm and acrosome stained sperm

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Capuchinbird

PICTURE



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CLASS

Aves

RP NUMBER

15-297

ORDER

Passeriformes

STAIN

Pope

SUBORDER

FAMILY

Cotingidae

HEAD SHAPE

Helical

SUBFAMILY

GENUS

Perissocephalus

ANIMAL PICTURE

SPECIES

Perissocephalus tricolor

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

1.00

Midpiece Length

4.00

Tail Length

31.00

Measure Total

46.00



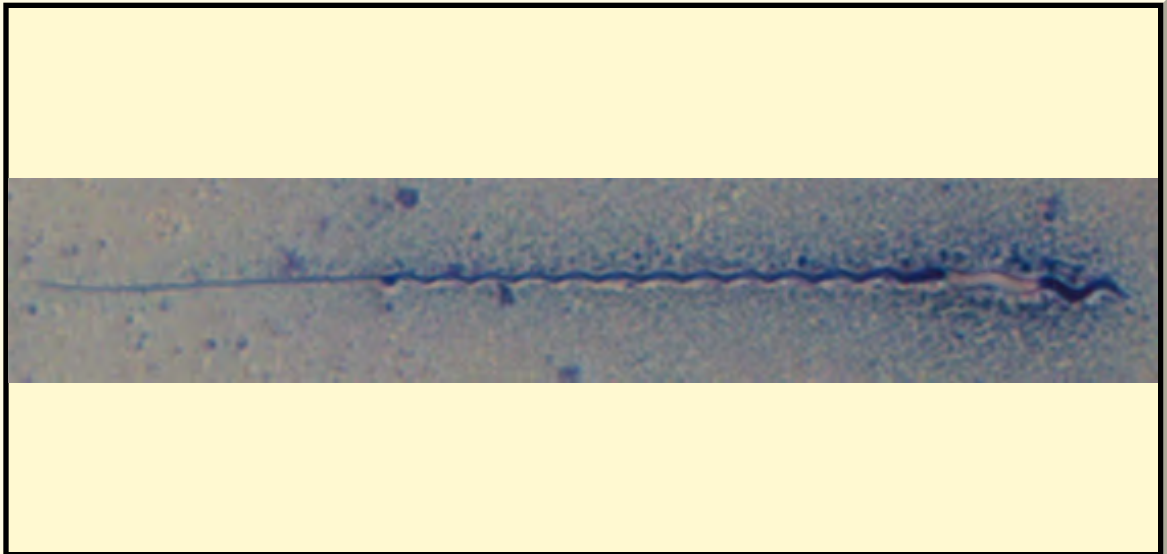
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Gouldian Finch

PICTURE



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CLASS

Aves

RP NUMBER

15-272

ORDER

Passeriformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Helical

FAMILY

Estrildidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Erythrura

SPECIES

Erythrura gouldidae

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.00

Head Width

1.25

Midpiece Length

43.00

Tail Length

15.00

Measure Total

64.00

NOTES

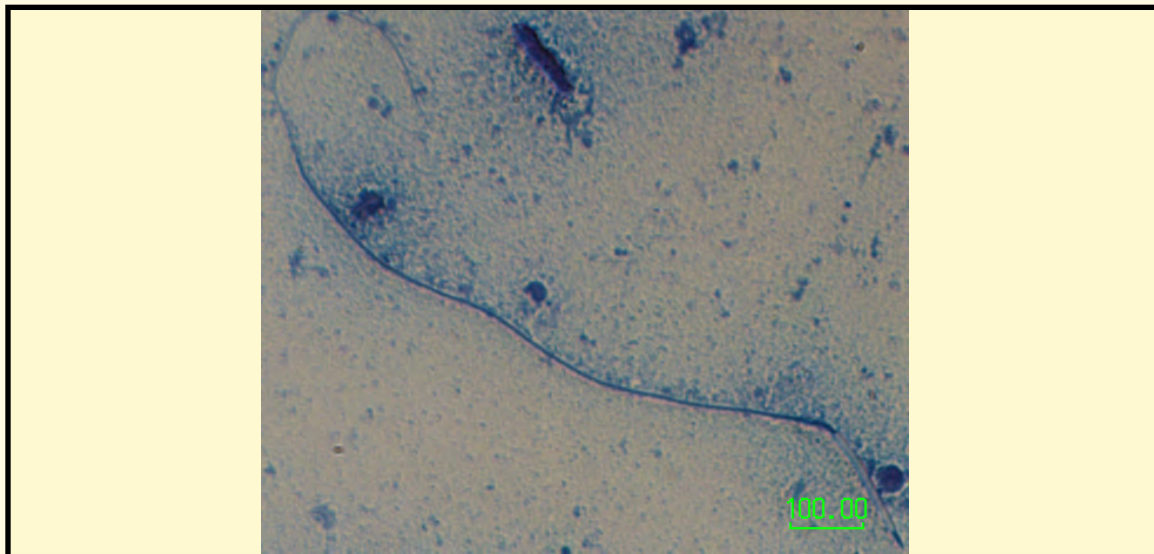


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Domestic Pigeon

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Aves

RP NUMBER

15-226

ORDER

Columbiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Columbidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Columba

SPECIES

Columba livia

SUBSPECIES

Columba livia domestica

MEASUREMENTS (μ m)

Head Length

11.00

Head Width

1.00

Midpiece Length

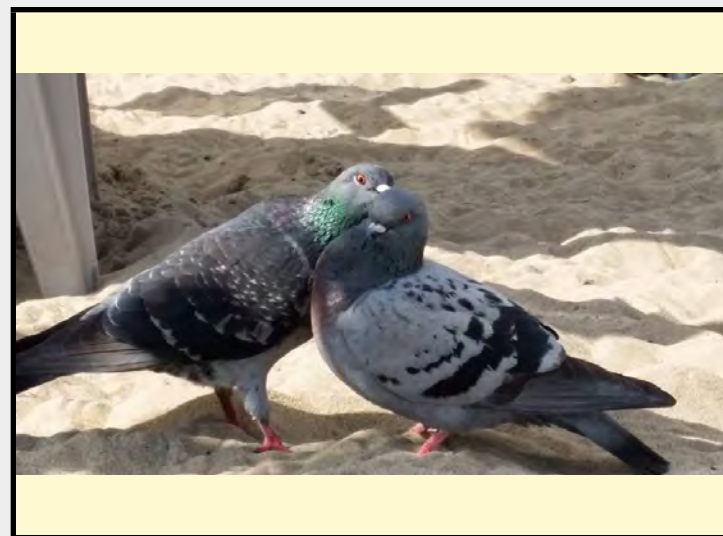
70.00

Tail Length

30.00

Measure Total

111.00



NOTES

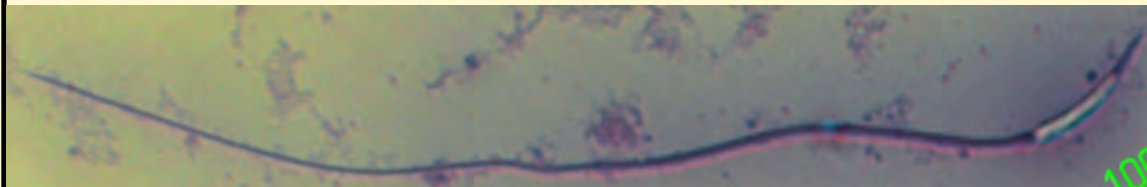
Animal photo credit: Travis Thor Matteson

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Green Tree Python

PICTURE



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CLASS

Reptilia

RP NUMBER

15-262

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Pythonidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Morelia

SPECIES

Morelia viridis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

12.00

Head Width

1.00

Midpiece Length

35.00

Tail Length

38.00

Measure Total

85.00



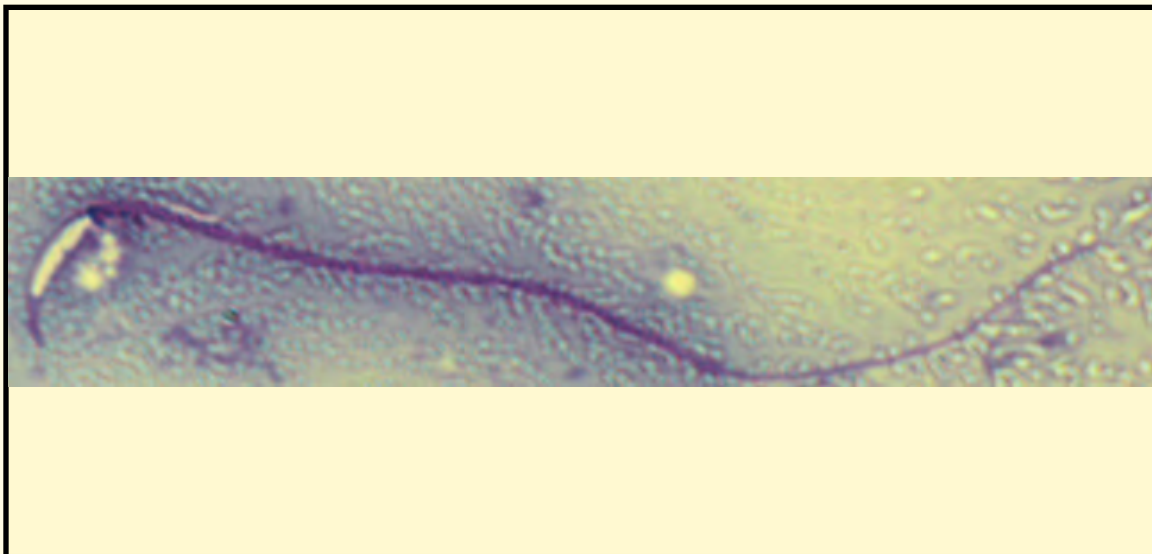
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Argentine Racer

PICTURE



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CLASS

Reptilia

RP NUMBER

15-307

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Colubridae

SUBFAMILY

Xenodontinae

ANIMAL PICTURE

GENUS

Philodryas

SPECIES

Philodryas baroni

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

1.00

Midpiece Length

51.00

Tail Length

35.00

Measure Total

97.00

NOTES



SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
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SPERM ATLAS

COMMON NAME

Zhou's Box Turtle

PICTURE



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CLASS

Reptilia

RP NUMBER

15-250

ORDER

Testudines

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Geoemydidae

ANIMAL PICTURE

SUBFAMILY

Geomydinae

GENUS

Cuora

SPECIES

Cuora zhoui

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

13.00

Head Width

1.00

Midpiece Length

6.00

Tail Length

50.00

Measure Total

69.00

NOTES



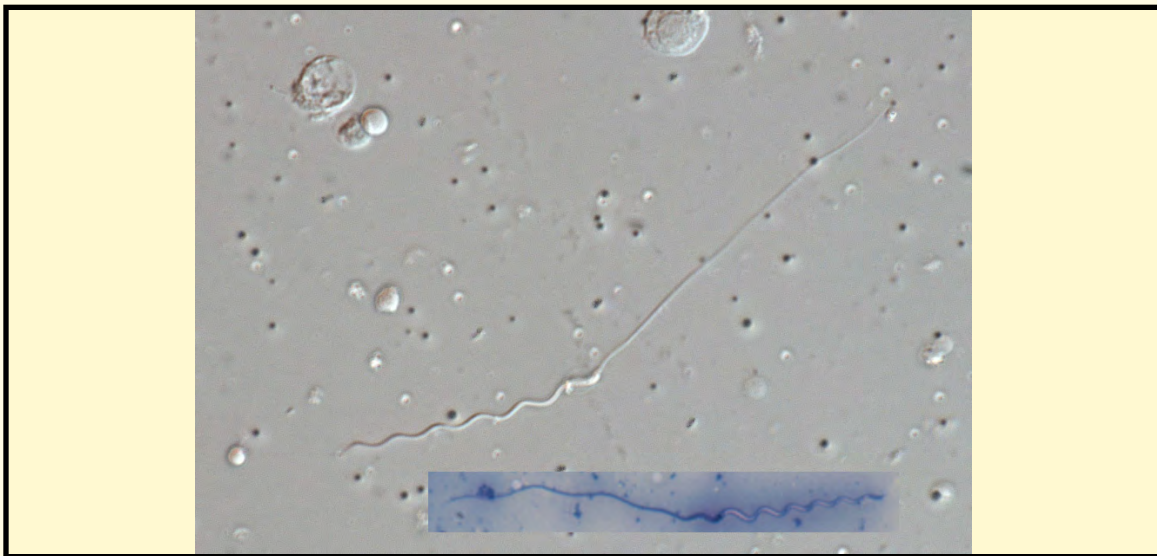
Animal Photo Credit: Torsten Blanck
Sperm specimen came from Bill Mullen's turtle

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Brother's Island Tuatara

PICTURE



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CLASS

Reptilia

RP NUMBER

15-355

ORDER

Sphenodontia

STAIN

Pope and No stain

SUBORDER

HEAD SHAPE

Helical

FAMILY

Sphenodontidae

SUBFAMILY

Sphenodontinae

GENUS

Sphenodon

ANIMAL PICTURE

SPECIES

Sphenodon guntheri

SUBSPECIES

MEASUREMENTS (μm)

Head Length

53.00

Head Width

2.00

Midpiece Length

Tail Length

88.00

Measure Total

141.00



NOTES

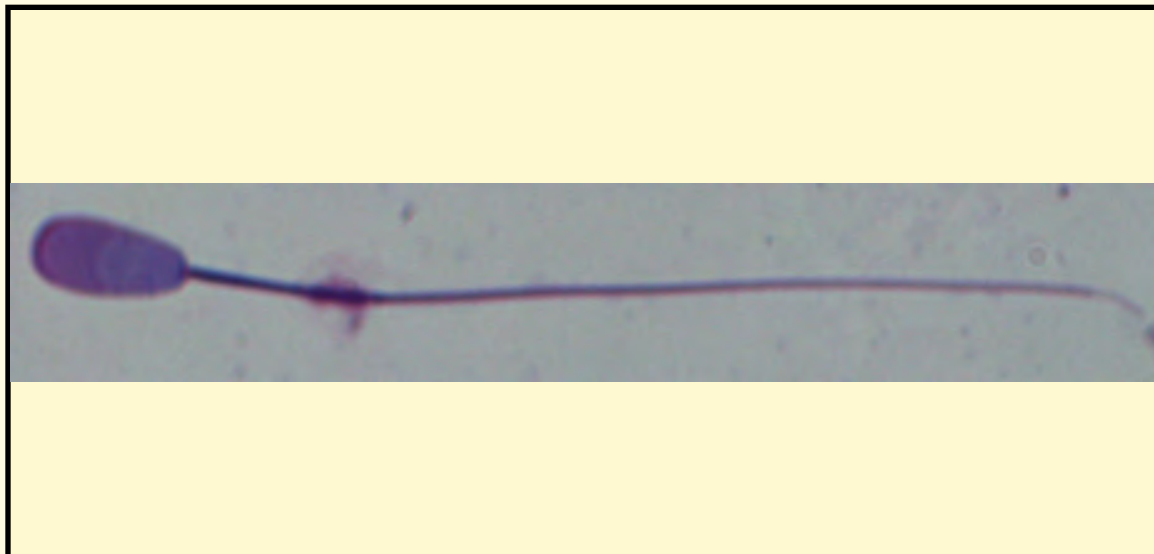
Picture depicts sperm with no stain and stained with Pope stain
Midpiece could not be discerned from tail therefore tail measurement includes tail and midpiece.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

White-tailed Deer

PICTURE



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CLASS

Mammalia

RP NUMBER

15-325B

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Capreolinae

GENUS

Odocoileus

SPECIES

Odocoileus virginianus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

9.00

Head Width

4.00

Midpiece Length

10.00

Tail Length

42.00

Measure Total

61.00



NOTES

Animal Photo credit: Chelsie Romulo

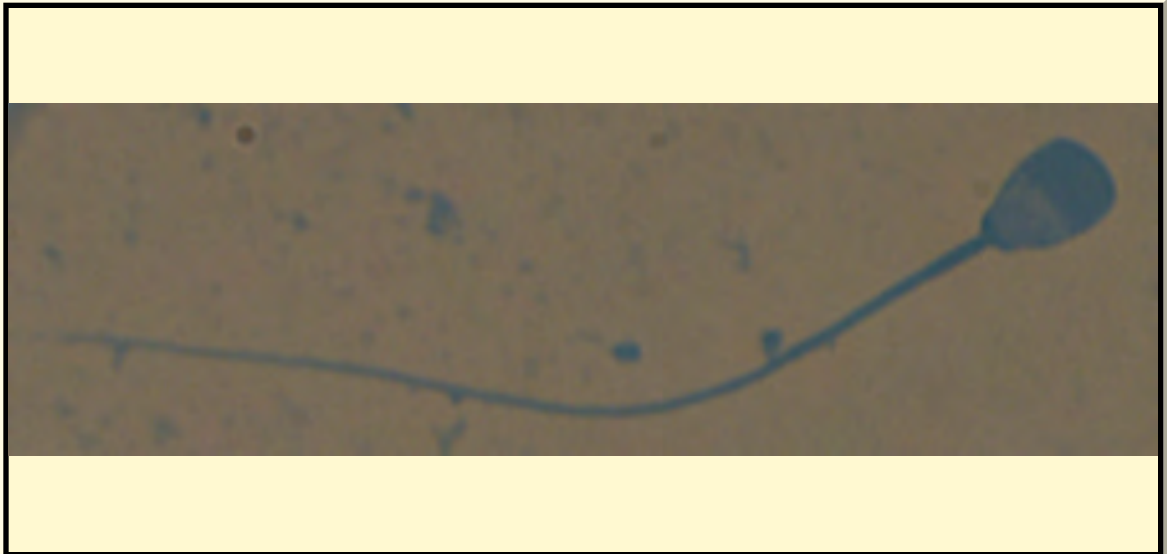
The sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Sudan Red-Fronted Gazelle

PICTURE



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CLASS

Mammalia

RP NUMBER

12-188

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Antilopinae

GENUS

Eudorcas

SPECIES

Eudorcas rufifrons laevipes

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.00

Head Width

6.00

Midpiece Length

13.00

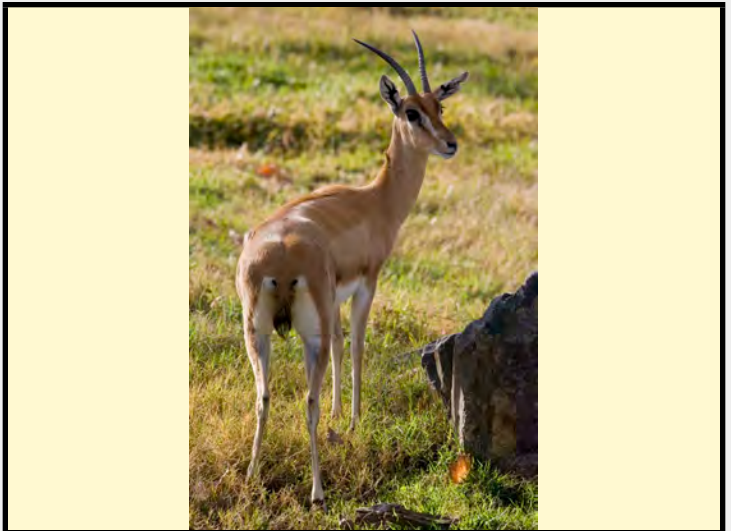
Tail Length

40.00

Measure Total

60.00

NOTES

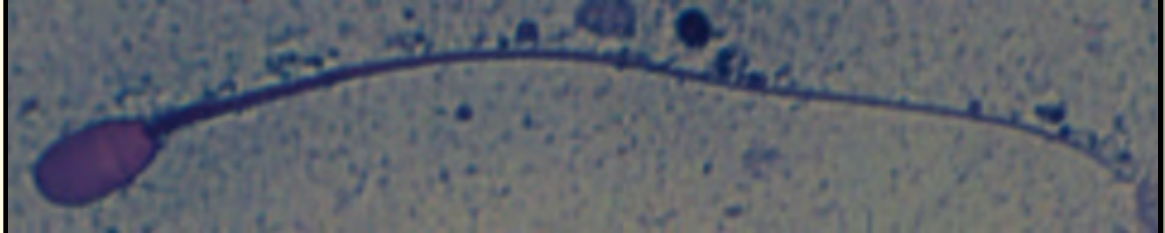


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Ellipsen Waterbuck

PICTURE



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CLASS

Mammalia

RP NUMBER

16-141

ORDER

Artiodactyla

STAIN

Pope

SUBORDER

FAMILY

Bovidae

HEAD SHAPE

Oval

SUBFAMILY

Reduncinae

ANIMAL PICTURE

GENUS

Kobus

SPECIES

Kobus ellipsiprymnus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.00

Head Width

5.00

Midpiece Length

13.00

Tail Length

43.00

Measure Total

63.00

NOTES

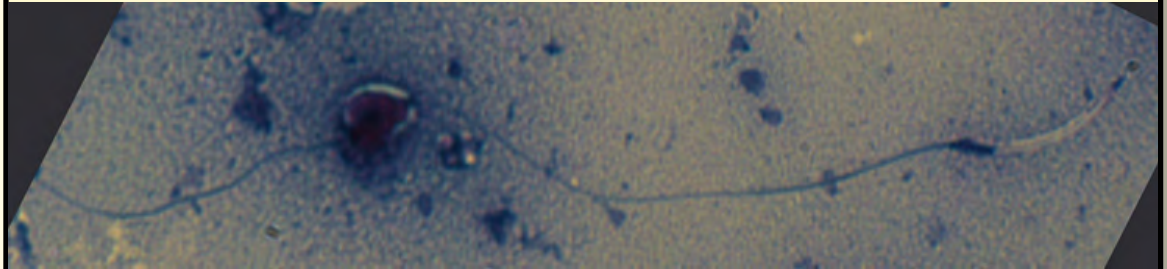


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Hooded Merganser

PICTURE



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CLASS

Aves

RP NUMBER

16-093

ORDER

Anseriformes

STAIN

Pope

SUBORDER

FAMILY

Anatidae

HEAD SHAPE

Filiformal

SUBFAMILY

Merginae

ANIMAL PICTURE

GENUS

Lophodytes

SPECIES

Lophodytes cucullatus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

15.00

Head Width

2.00

Midpiece Length

5.00

Tail Length

78.00

Measure Total

98.00

NOTES

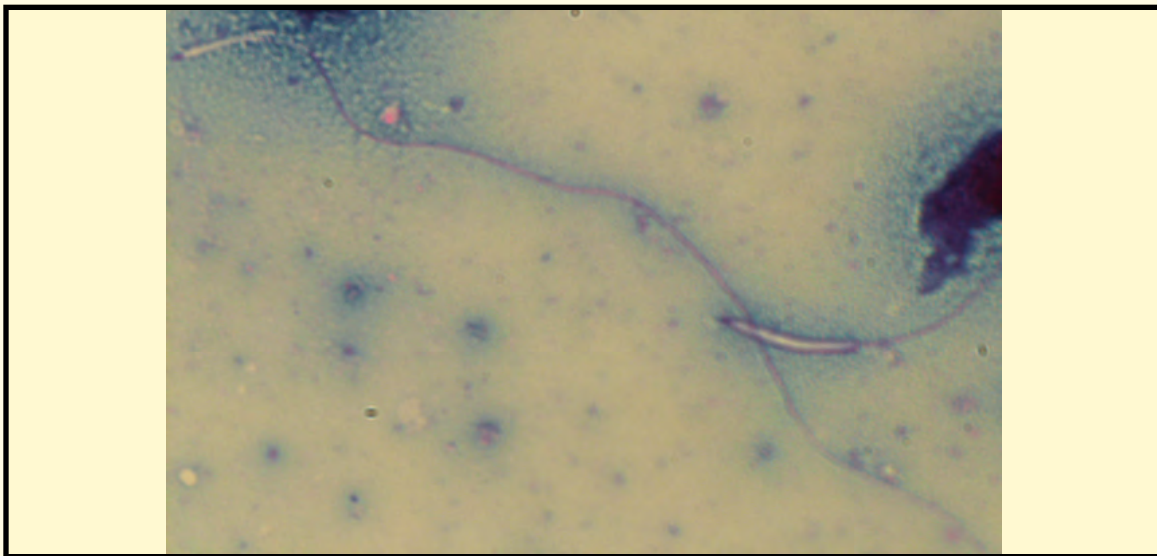


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

African Olive-Pigeon

PICTURE



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CLASS

Aves

RP NUMBER

15-327

ORDER

Columbiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Columbidae

SUBFAMILY

GENUS

Columba

ANIMAL PICTURE

SPECIES

Columba arquatrix

SUBSPECIES

MEASUREMENTS (μm)

Head Length

15.00

Head Width

1.00

Midpiece Length

Tail Length

95.00

Measure Total

110.00



NOTES

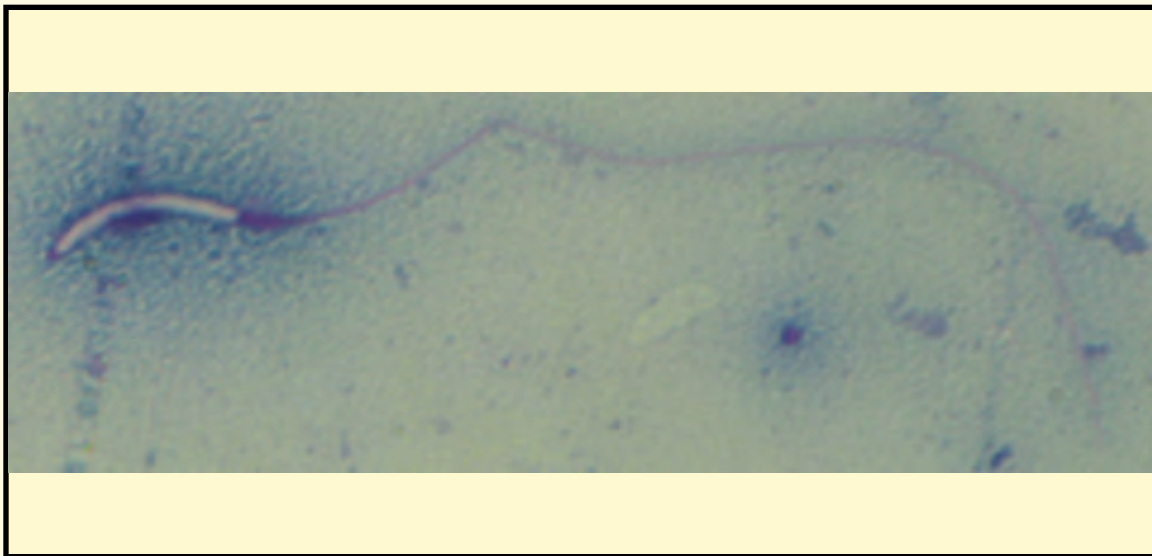
Could not distinguish the midpiece from the tail on this slide therefore tail measurement encompasses both. Head from second sperm is in picture.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

African Penguin

PICTURE



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CLASS

Aves

RP NUMBER

15-334

ORDER

Sphenisciformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Spheniscidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Spheniscus

SPECIES

Spheniscus demersus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

13.00

Head Width

1.00

Midpiece Length

Tail Length

60.00

Measure Total

73.00

NOTES



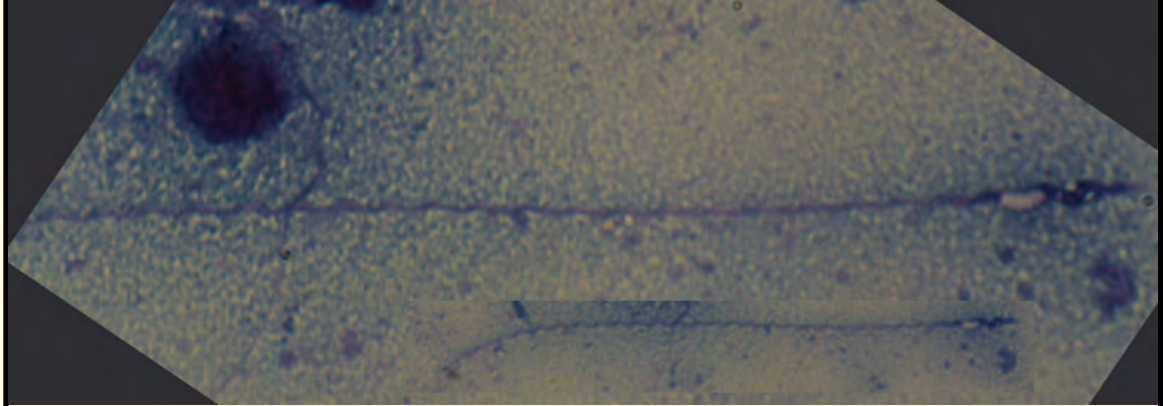
Could not distinguish the midpiece from the tail so tail value encompasses tail plus midpiece length

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Turquoise Tanager

PICTURE



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CLASS

Aves

RP NUMBER

16-058

ORDER

Passeriformes

STAIN

Pope

SUBORDER

FAMILY

Thraupidae

HEAD SHAPE

Helical

SUBFAMILY

GENUS

Tangara

ANIMAL PICTURE

SPECIES

Tangara mexicana

SUBSPECIES

MEASUREMENTS (μm)

Head Length

15.00

Head Width

1.50

Midpiece Length

2.00

Tail Length

129.00

Measure Total

146.00

NOTES



Sperm picture is sperm at 100x and 40x to show detail and full size

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Slender-tailed Meerkat

PICTURE



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CLASS

Mammalia

RP NUMBER

16-079

ORDER

Carnivora

STAIN

Pope

SUBORDER

FAMILY

Herpestidae

HEAD SHAPE

Oval

SUBFAMILY

GENUS

Suricata

ANIMAL PICTURE

SPECIES

Suricata suricatta

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.00

Head Width

3.00

Midpiece Length

6.00

Tail Length

69.00

Measure Total

80.00

NOTES



The sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Ocelot

PICTURE



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CLASS

Mammalia

RP NUMBER

16-084

ORDER

Carnivora

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Oval

FAMILY

Felidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Leopardus

SPECIES

Leopardus pardalis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.50

Head Width

2.00

Midpiece Length

12.00

Tail Length

48.00

Measure Total

65.50



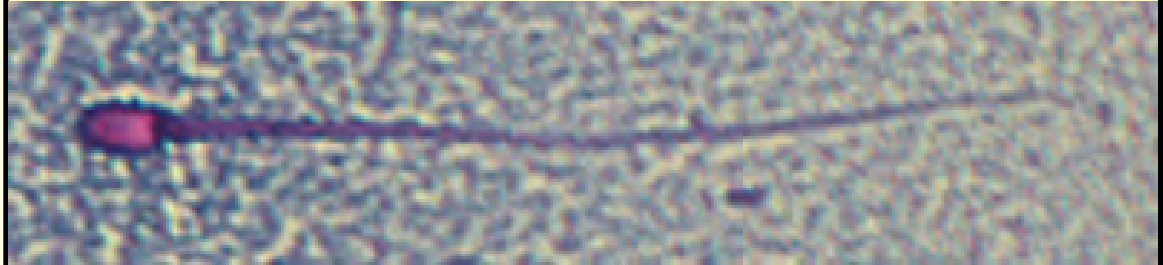
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Western Red Panda

PICTURE



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CLASS

Mammalia

ORDER

Carnivora

SUBORDER

FAMILY

Ailuridae

SUBFAMILY

GENUS

Ailurus

SPECIES

Ailurus fulgens fulgens

SUBSPECIES

RP NUMBER

16-018

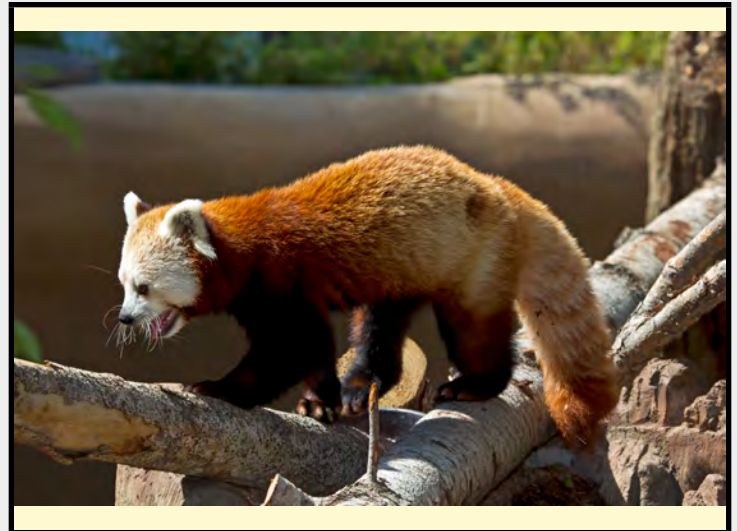
STAIN

Pope

HEAD SHAPE

Oval

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

4.00

Head Width

2.00

Midpiece Length

8.00

Tail Length

35.00

Measure Total

47.00

NOTES

The normal head morphology of this species has yet to be determined. Many of the heads are shaped with a taper at the top and some are rounded.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Samar Cobra

PICTURE



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CLASS

Reptilia

RP NUMBER

15-329

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Elapidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Naja

SPECIES

Naja naja samarensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

12.00

Head Width

2.00

Midpiece Length

60.00

Tail Length

23.00

Measure Total

95.00

NOTES



Sample was from the testicle and therefore was immature and had a cytoplasmic droplet

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Bornean Eared Frog

PICTURE



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CLASS

Amphibia

RP NUMBER

16-057

ORDER

Anura

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Rhacophoridae

SUBFAMILY

GENUS

Polypedates

ANIMAL PICTURE

SPECIES

Polypedates ottilophus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

42.00

Head Width

1.00

Midpiece Length

5.00

Tail Length

135.00

Measure Total

182.00



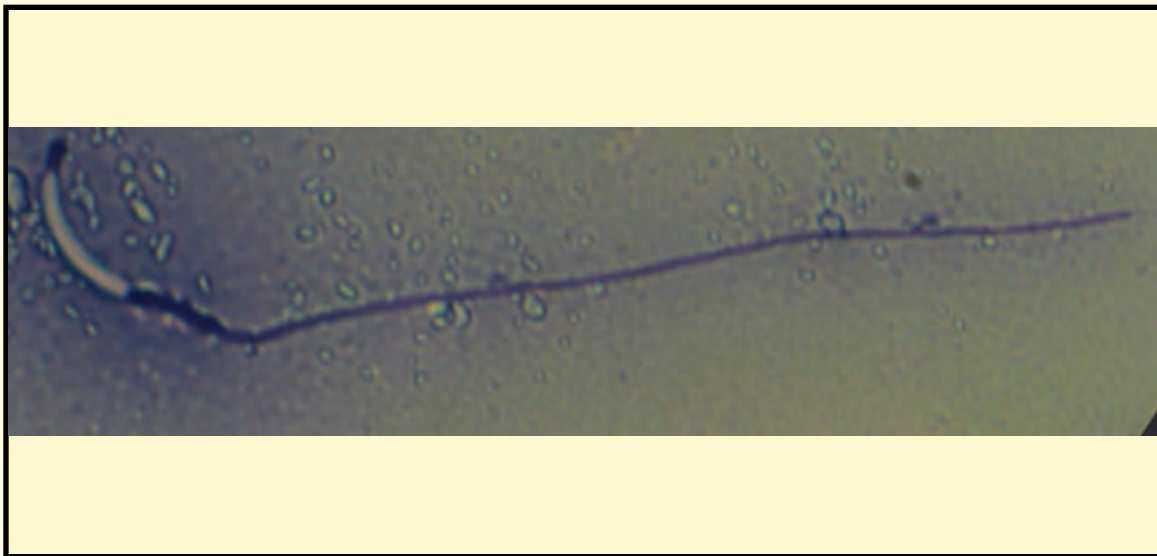
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Satanic Leaf-tailed Gecko

PICTURE



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CLASS

Reptilia

RP NUMBER

16-134

ORDER

Squamata

STAIN

Pope

SUBORDER

Gekkota

HEAD SHAPE

Filiform

FAMILY

Gekkonidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Uroplatus

SPECIES

Uroplatus phantasticus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

14.00

Head Width

1.00

Midpiece Length

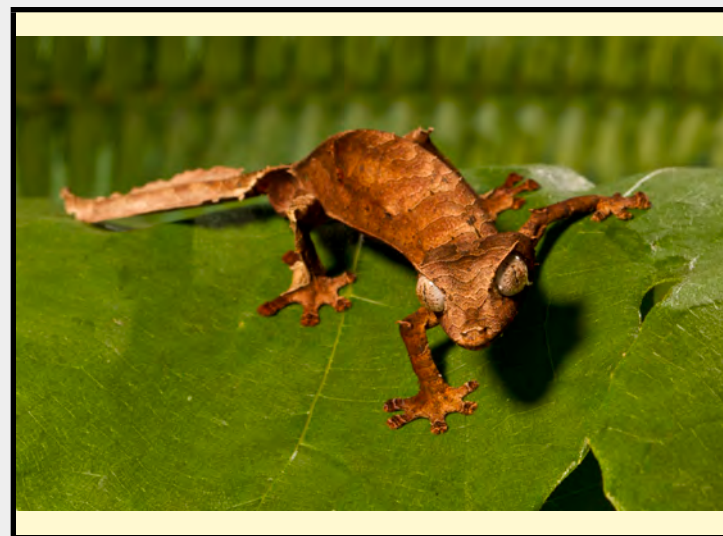
8.00

Tail Length

55.00

Measure Total

77.00



NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Anegada Ground Iguana

PICTURE



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CLASS

Reptilia

RP NUMBER

16-146

ORDER

Squamata

STAIN

None

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Iguanidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Cyclura

SPECIES

Cyclura pinguis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

18.00

Head Width

1.25

Midpiece Length

5.00

Tail Length

73.00

Measure Total

92.25



NOTES

Animal Photo Credit: Jeff Lemm

Sperm photo is one sperm stained with Papanicolaou stain and another with no stain

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Jamaican Iguana

PICTURE



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CLASS

Reptilia

RP NUMBER

16-058

ORDER

Squamata

STAIN

Pope

SUBORDER

Iguania

HEAD SHAPE

Filiformal

FAMILY

Iguanidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Cyclura

SPECIES

Cyclura collei

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

20.00

Head Width

1.00

Midpiece Length

5.00

Tail Length

60.00

Measure Total

85.00

NOTES



SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

West African Green Mamba

PICTURE



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CLASS

Reptilia

ORDER

Squamata

SUBORDER

Serpentes

FAMILY

Elapidae

SUBFAMILY

Elapinae

GENUS

Dendroaspis

SPECIES

Dendroaspis viridis

SUBSPECIES

RP NUMBER

16-020

STAIN

Pope

HEAD SHAPE

Filiform

ANIMAL PICTURE



MEASUREMENTS (μ m)

Head Length

10.00

Head Width

1.50

Midpiece Length

59.00

Tail Length

26.00

Measure Total

95.00

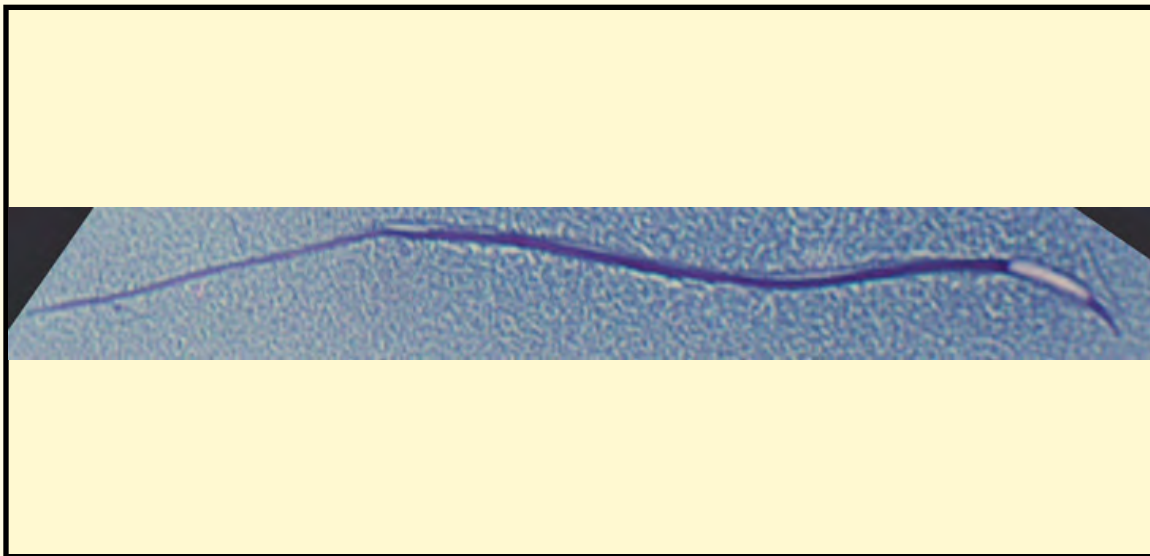
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Mojave Rattlesnake

PICTURE



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CLASS

Reptilia

RP NUMBER

16-010

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Viperidae

SUBFAMILY

Crotalinae

ANIMAL PICTURE

GENUS

Crotalus

SPECIES

Crotalus scutulatus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

11.00

Head Width

2.00

Midpiece Length

55.00

Tail Length

32.00

Measure Total

98.00

NOTES



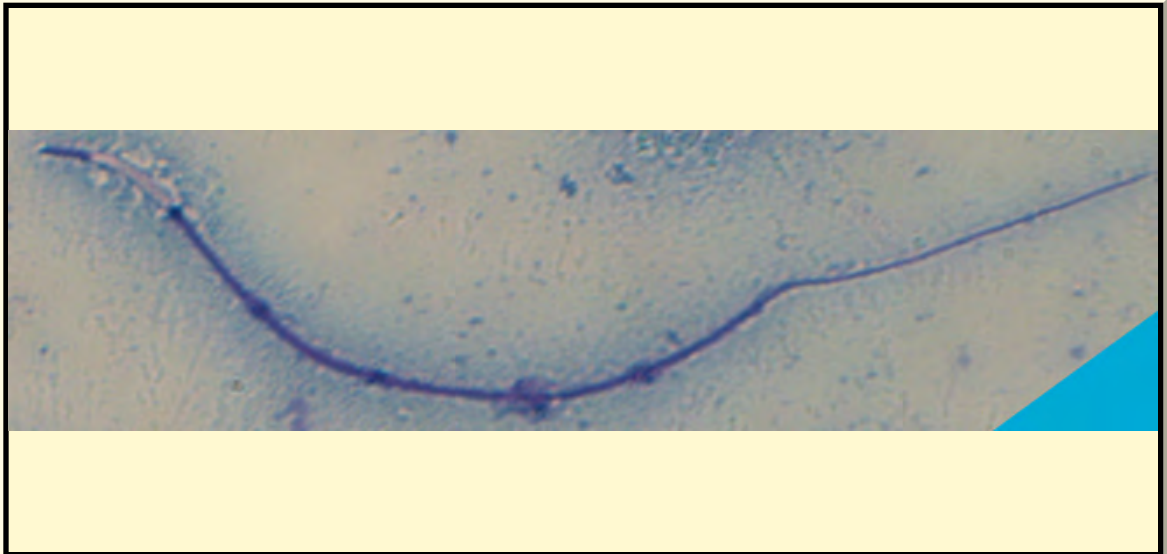
Animal photo credit: Jeff Lemm

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Red Diamond Rattlesnake

PICTURE



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CLASS

Reptilia

RP NUMBER

15-315

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Viperidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Crotalus

SPECIES

Crotalus ruber

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

1.00

Midpiece Length

48.00

Tail Length

37.00

Measure Total

96.00



NOTES

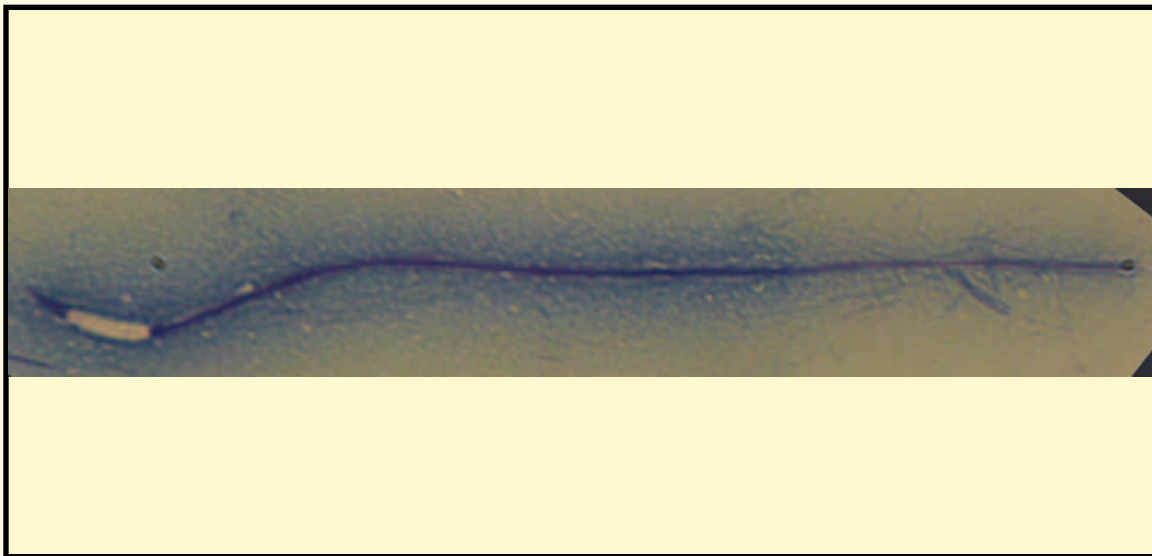
Animal Photo credit: Jeff Lemm

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Southern Pacific Rattlesnake

PICTURE



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CLASS

Reptilia

RP NUMBER

16-080

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Viperidae

SUBFAMILY

Crotalinae

ANIMAL PICTURE

GENUS

Crotalus

SPECIES

Crotalus oreganus

SUBSPECIES

Crotalus oreganus helleri

MEASUREMENTS (μ m)

Head Length

11.00

Head Width

1.50

Midpiece Length

50.00

Tail Length

27.00

Measure Total

88.00



NOTES

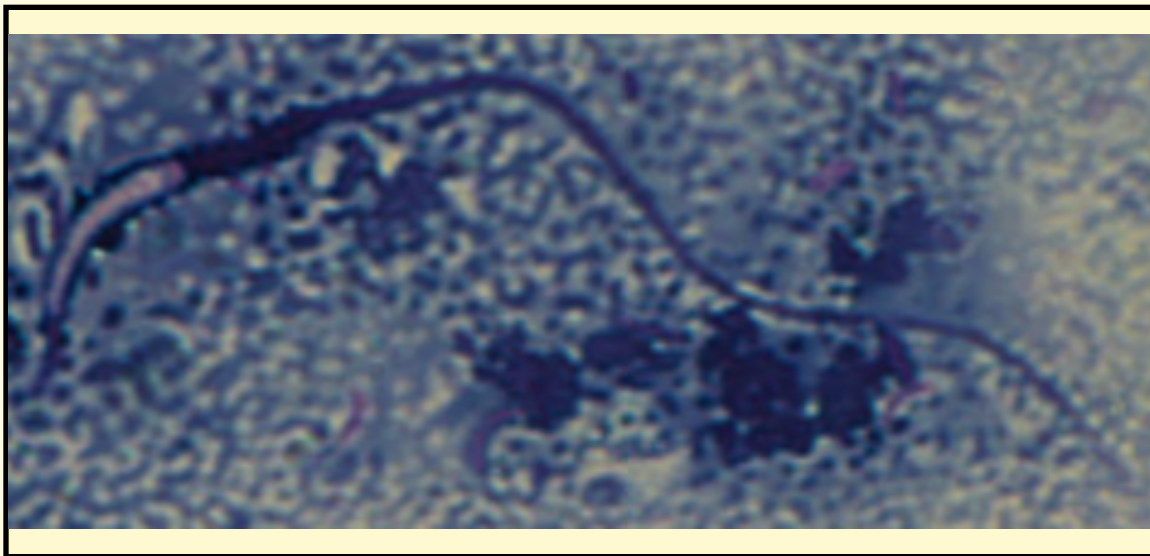
Animal photo credit: Jeff Lemm

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Yangtze Softshell Turtle

PICTURE



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CLASS

Sauropsida

RP NUMBER

16-089B

ORDER

Testudines

STAIN

Pope

SUBORDER

Cryptodira

HEAD SHAPE

Filiform

FAMILY

Trionychidae

SUBFAMILY

GENUS

Rafetus

ANIMAL PICTURE

SPECIES

Rafetus swinhoei

SUBSPECIES

MEASUREMENTS (μm)

Head Length

12.00

Head Width

1.50

Midpiece Length

6.00

Tail Length

40.00

Measure Total

58.00

NOTES



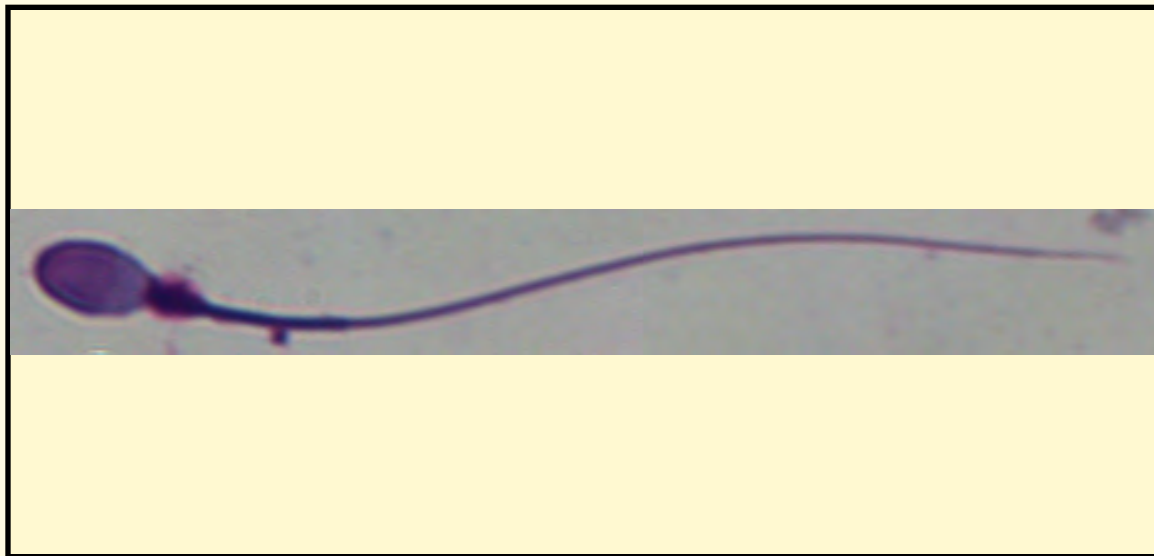
Sperm photographed belongs to Suzhou Zoo
Animal Photo Credit: Dr. Barbara Durrant

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

African Yellow-Spotted Hyrax

PICTURE



* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS

Mammalia

RP NUMBER

15-333

ORDER

Hyracoidea

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Procaviidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Heterohyrax

SPECIES

Heterohyrax brucei brucei

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

4.00

Midpiece Length

10.00

Tail Length

34.00

Measure Total

50.00



NOTES

The sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Lesser Hedgehog Tenrec

PICTURE



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CLASS

Mammalia

RP NUMBER

15-328

ORDER

Afrosoricida

STAIN

Giemsa

SUBORDER

FAMILY

Tenrecidae

HEAD SHAPE

Oval

SUBFAMILY

GENUS

Echinops

ANIMAL PICTURE

SPECIES

Echinops telfairi

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.00

Head Width

5.00

Midpiece Length

26.00

Tail Length

75.00

Measure Total

108.00

NOTES



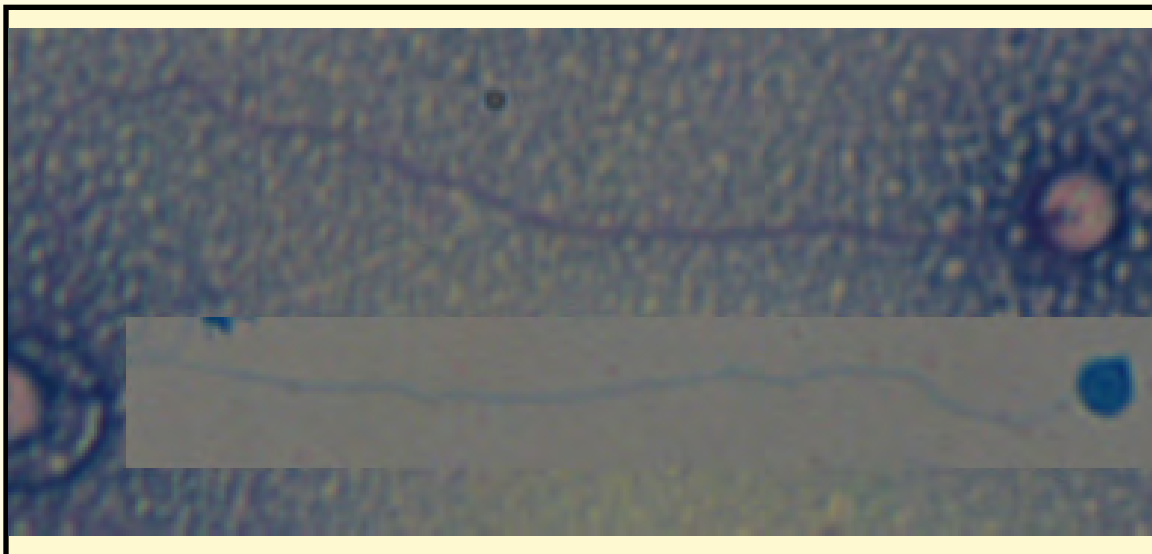
The sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Rock Wrasse

PICTURE



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CLASS

Actinopterygii

RP NUMBER

16-144

ORDER

Perciformes

STAIN

Pope and Coomassie

SUBORDER

HEAD SHAPE

Round

FAMILY

Labridae

ANIMAL PICTURE

SUBFAMILY

GENUS

Halichoeres

SPECIES

Halichoeres semicinctus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

4.50

Head Width

4.50

Midpiece Length

Tail Length

48.00

Measure Total

52.50

NOTES



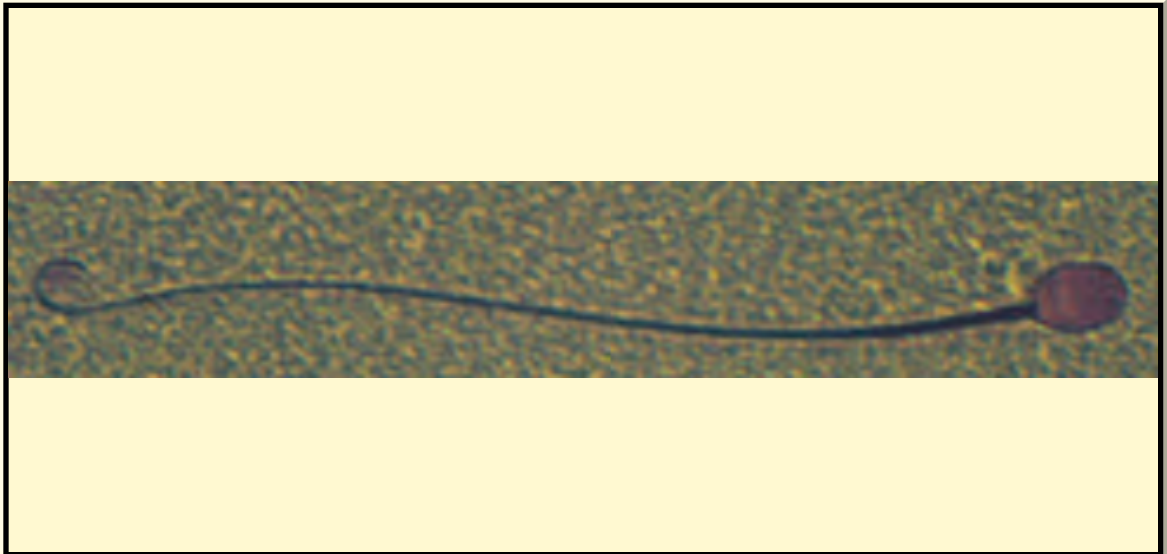
Animal photo credit: Birch Aquarium at Scripps
Sperm sample from: Birch Aquarium at Scripps

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Mandrill

PICTURE



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CLASS

Mammalia

RP NUMBER

16-081

ORDER

Primates

STAIN

Pope

SUBORDER

HEAD SHAPE

Oval

FAMILY

Cercopithecidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Mandrillus

SPECIES

Mandrillus sphinx

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

4.00

Midpiece Length

9.00

Tail Length

53.00

Measure Total

68.00

NOTES

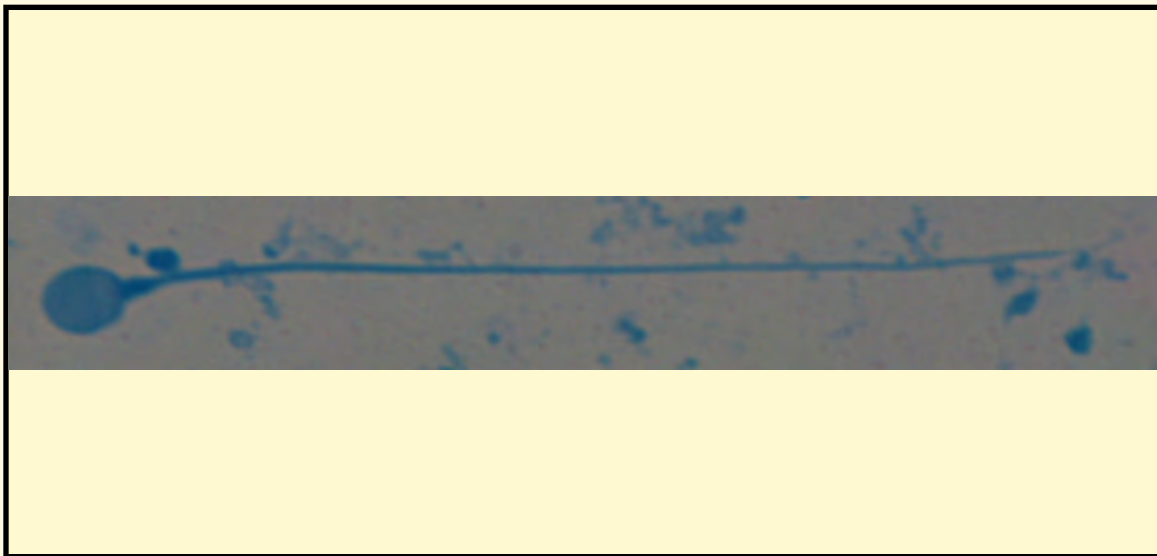


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Golden Lion Tamarin

PICTURE



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CLASS

Mammalia

RP NUMBER

16-090

ORDER

Primates

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Round

FAMILY

callitrichidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Leontopithecus

SPECIES

Leontopithecus rosalia

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.50

Head Width

4.00

Midpiece Length

5.00

Tail Length

68.00

Measure Total

78.00

NOTES



the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

African Bullfrog

PICTURE



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CLASS

Amphibia

RP NUMBER

16-153

ORDER

Anura

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Pyxicephalidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Pyxicephalus

SPECIES

Pyxicephalus adspersus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

14.00

Head Width

1.00

Midpiece Length

Tail Length

13.00

Measure Total

27.00



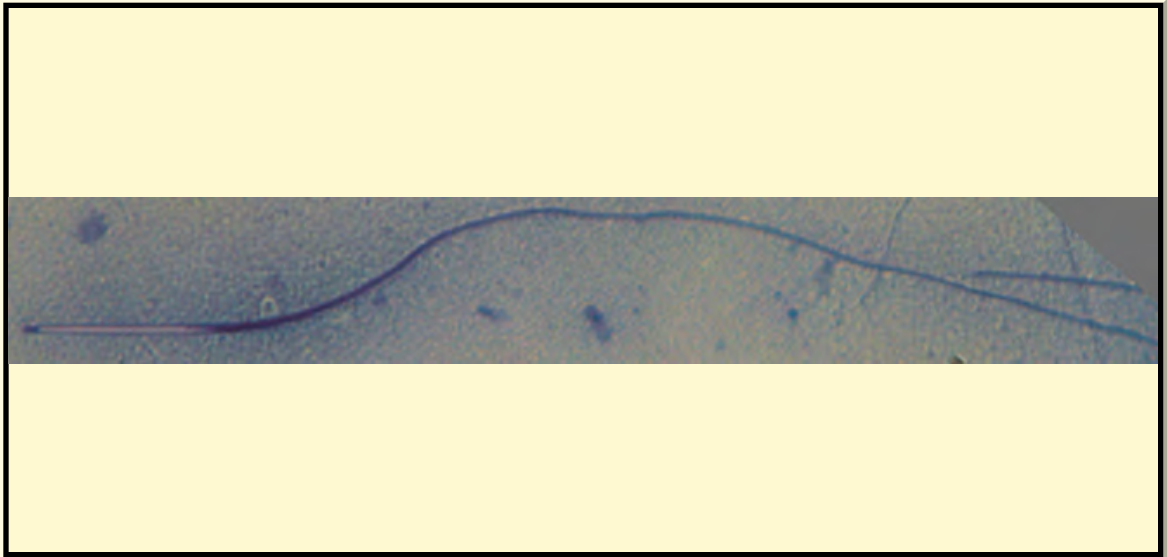
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Cricket

PICTURE



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CLASS

Insecta

RP NUMBER

ORDER

Orthoptera

STAIN

Pope

SUBORDER

Ensifera

HEAD SHAPE

Filiformal

FAMILY

Gyllidae

SUBFAMILY

GENUS

Acheta

ANIMAL PICTURE

SPECIES

Acheta domestica

SUBSPECIES

MEASUREMENTS (μm)

Head Length

20.00

Head Width

2.00

Midpiece Length

28.00

Tail Length

355.00

Measure Total

403.00

NOTES



Tail length measurement was so long the whole tail could not be measured so it is a minimum measurement.

Picture could not show entire length of tail.

Animal photo credit: wikipedia commons

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Vietnam Giant Flying Squirrel

PICTURE



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CLASS

Mammalia

RP NUMBER

16-188

ORDER

Rodentia

STAIN

Pope

SUBORDER

FAMILY

Sciuridae

HEAD SHAPE

Paddle

SUBFAMILY

GENUS

Petaurista

ANIMAL PICTURE

SPECIES

Petaurista philippensis lylei

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

22.00

Head Width

16.00

Midpiece Length

7.00

Tail Length

120.00

Measure Total

144.00

NOTES



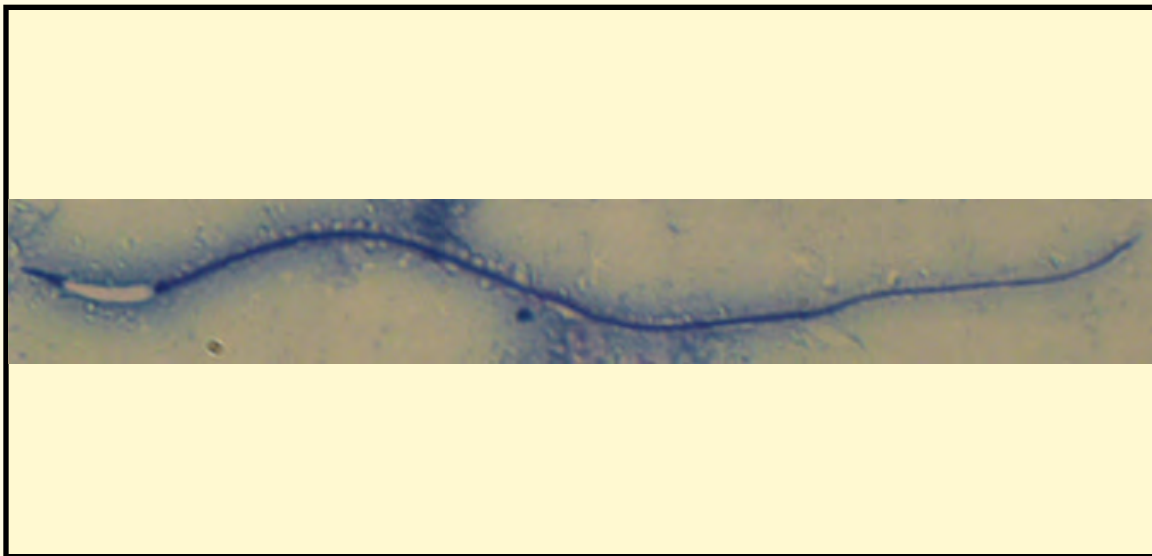
Midpiece was hard to disseminate, this measurement is a best guess.
The acrosome has a massive apical acrosomal segment with varying degrees of flexion

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Southwestern Speckled Rattlesnake

PICTURE



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CLASS

Reptilia

RP NUMBER

16-208

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Viperidae

SUBFAMILY

Crotalinae

ANIMAL PICTURE

GENUS

Crotalus

SPECIES

Crotalus Pyrrhus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

13.00

Head Width

2.00

Midpiece Length

53.00

Tail Length

26.00

Measure Total

92.00



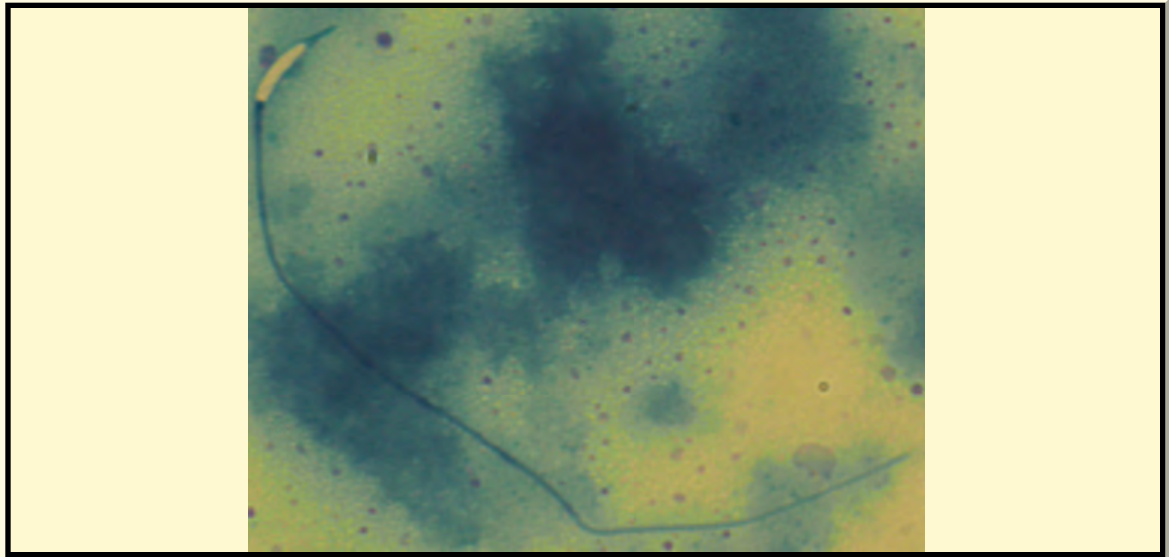
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Tamaulipan Rock Rattlesnake

PICTURE



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CLASS

Reptilia

RP NUMBER

16-186

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Viperidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Crotalus

SPECIES

Crotalus lepidus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

1.50

Midpiece Length

50.00

Tail Length

33.00

Measure Total

94.00

NOTES

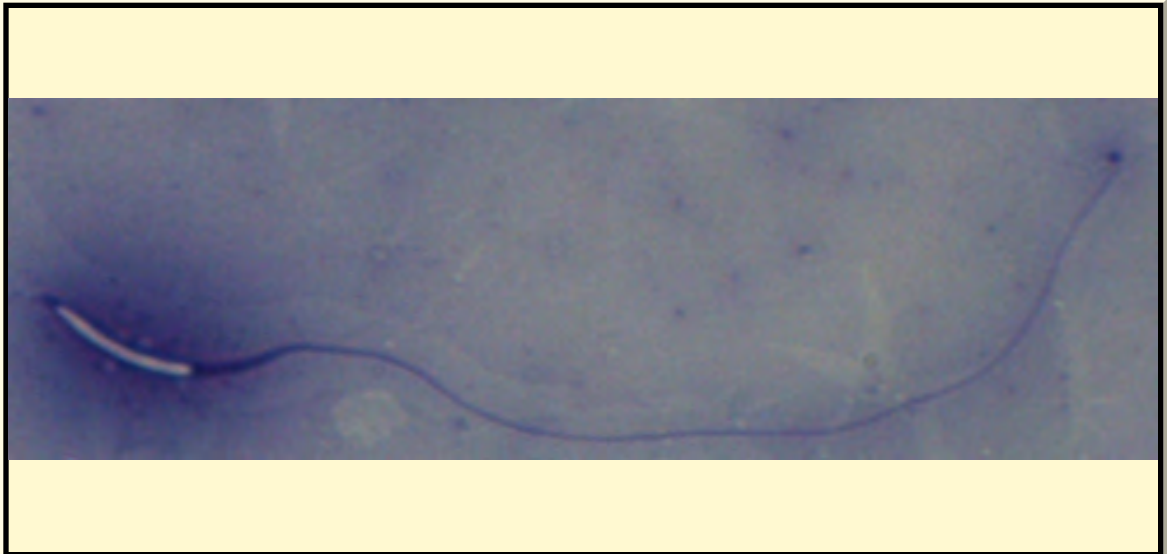


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Milky Stork

PICTURE



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CLASS

Aves

RP NUMBER

16-212

ORDER

Ciconiiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Ciconiidae

SUBFAMILY

GENUS

Mycteria

ANIMAL PICTURE

SPECIES

Mycteria cinerea

SUBSPECIES

MEASUREMENTS (μm)

Head Length

12.00

Head Width

1.00

Midpiece Length

3.00

Tail Length

57.00

Measure Total

72.00

NOTES

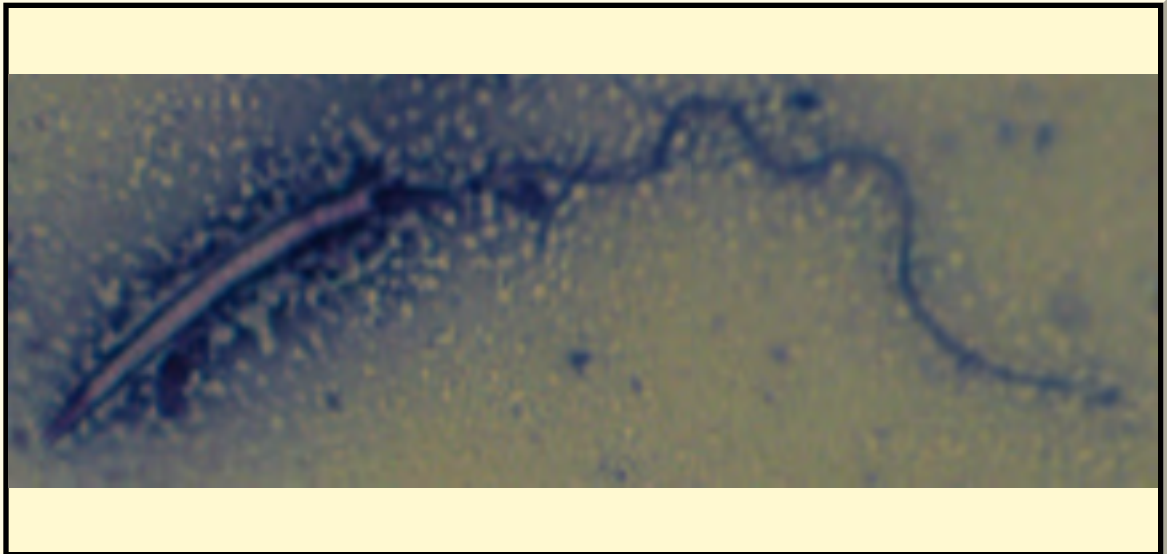


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

American Toad

PICTURE



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CLASS

Mammalia

RP NUMBER

16-154

ORDER

Anura

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Bufonidae

SUBFAMILY

GENUS

Anaxyrus

ANIMAL PICTURE

SPECIES

Anaxyrus americanus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

25.00

Head Width

1.00

Midpiece Length

4.00

Tail Length

40.00

Measure Total

66.00

NOTES



Animal Photo Credit: Aneta Kaluzna - Wikimedia commons

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

California Toad

PICTURE



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CLASS

Amphibia

RP NUMBER

16-180

ORDER

Anura

STAIN

Pope

SUBORDER

FAMILY

Bufonidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Anaxyrus

ANIMAL PICTURE

SPECIES

Anaxyrus boreas halophilus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

23.00

Head Width

2.00

Midpiece Length

Tail Length

44.00

Measure Total

67.00

NOTES



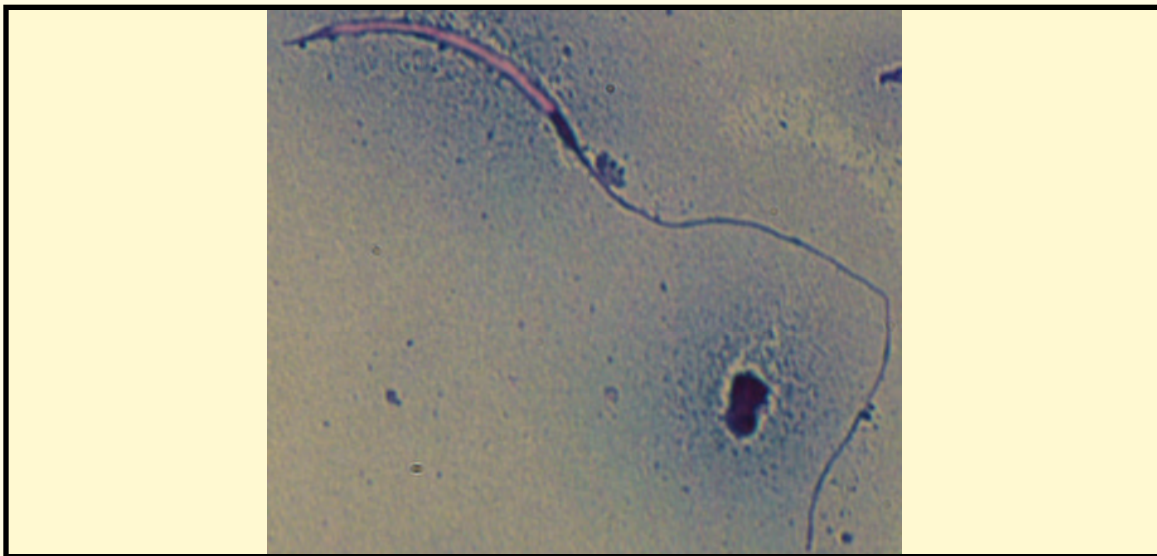
Midpiece could not be located in this image

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Rabbs' Fringe-limbed Treefrog

PICTURE



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CLASS

Amphibia

RP NUMBER

16-193

ORDER

Anura

STAIN

Pope

SUBORDER

FAMILY

Hylidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Ecnomiohyla

ANIMAL PICTURE

SPECIES

Ecnomiohyla rabborum

SUBSPECIES

MEASUREMENTS (μm)

Head Length

30.00

Head Width

1.50

Midpiece Length

4.00

Tail Length

46.00

Measure Total

80.00

NOTES



Animal Photo: Brian Gratwicke
Sperm sample from: Atlanta Botanical Garden

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Roti Island Snake-necked Turtle

PICTURE



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CLASS

Reptilia

RP NUMBER

16-229

ORDER

Testudines

STAIN

Pope

SUBORDER

Pleurodira

HEAD SHAPE

Filiform

FAMILY

Chelidae

ANIMAL PICTURE

SUBFAMILY

Chelodinae

GENUS

Chelodina

SPECIES

Chelodina mccordi

SUBSPECIES

MEASUREMENTS (μm)

Head Length

13.00

Head Width

1.50

Midpiece Length

5.00

Tail Length

25.00

Measure Total

43.00

NOTES



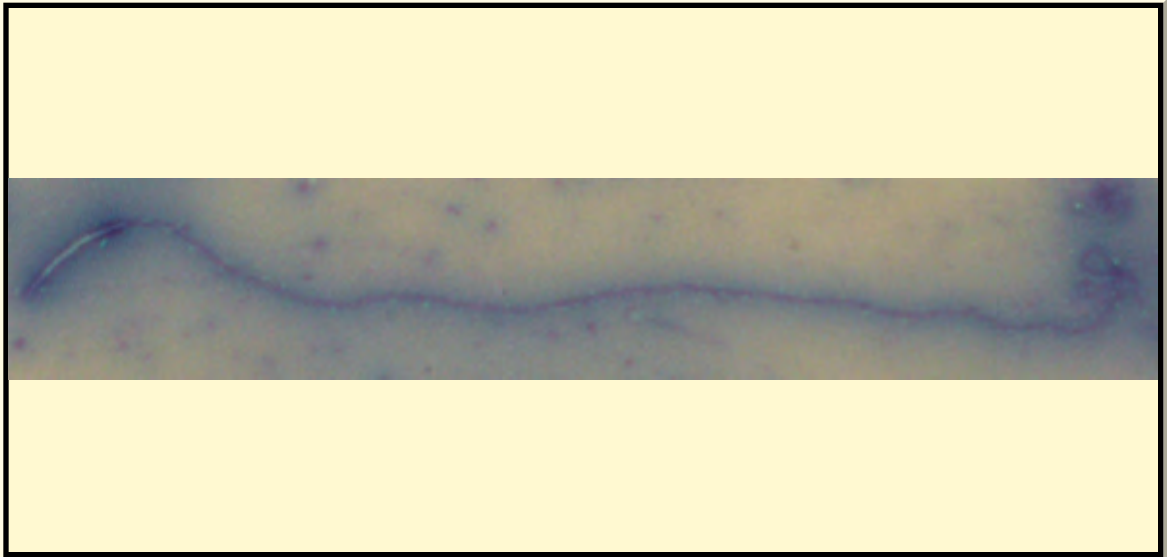
Midpiece may have swollen with the staining process

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Blue-headed Wood-dove

PICTURE



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CLASS

Aves

RP NUMBER

16-224

ORDER

Columbiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Columbidae

SUBFAMILY

GENUS

Turtur

ANIMAL PICTURE

SPECIES

Turtur brehmeri

SUBSPECIES

MEASUREMENTS (μm)

Head Length

24.00

Head Width

1.00

Midpiece Length

Tail Length

165.00

Measure Total

189.00

NOTES



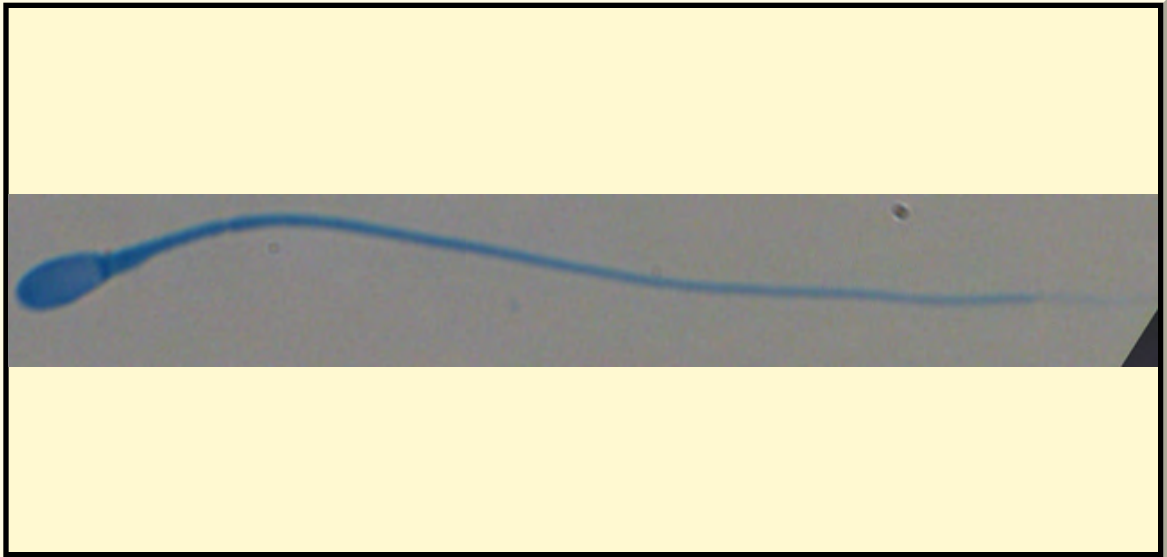
The midpiece was not able to be distinguished from the tail
Get animal photo from Visual Services

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Geoffroy's Marmoset

PICTURE



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CLASS

Mammalia

RP NUMBER

04-003

ORDER

Primates

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Oval

FAMILY

callitrichidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Callithrix

SPECIES

Callithrix geoffroyi

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.00

Head Width

2.50

Midpiece Length

6.00

Tail Length

62.00

Measure Total

73.00

NOTES



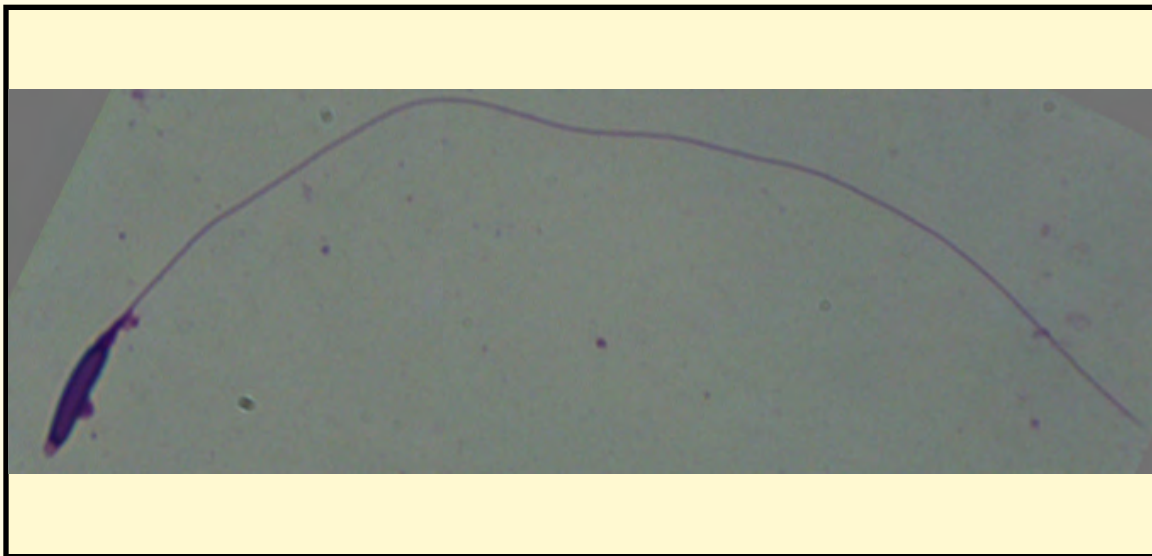
the sperm was epididymal therefore there is a cytoplasmic droplet present

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Flamboyant Cuttlefish

PICTURE



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CLASS

Cephalopoda

RP NUMBER

ORDER

Sepiida

STAIN

Pinacyanol Chloride

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Sepiidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Metasepia

SPECIES

Metasepia pfefferi

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

2.00

Midpiece Length

Tail Length

84.00

Measure Total

95.00



NOTES

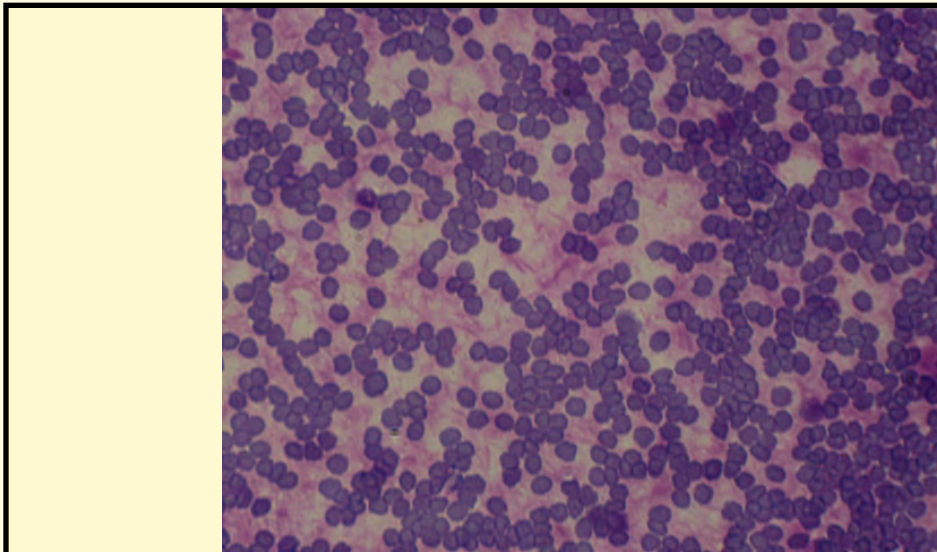
Sperm sample from: Birch Aquarium at Scripps
Animal Photo: Jenny (JennyHuang) from Taipei (Flickr) [CC BY 2.0 (<http://creativecommons.org/licenses/by/2.0>)], via Wikimedia Commons

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Pacific Spadefish

PICTURE



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CLASS

Actinopterygii

RP NUMBER

ORDER

Perciformes

STAIN

Pinacyanol Chloride

SUBORDER

FAMILY

Ephippidae

HEAD SHAPE

Round

SUBFAMILY

GENUS

Chaetodipterus

ANIMAL PICTURE

SPECIES

Chaetodipterus zonatus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

2.00

Head Width

2.00

Midpiece Length

Tail Length

Measure Total

NOTES



Sperm sample from: Birch Aquarium at Scripps
Animal photo credit: Laszlo Ilyes - wikimedia commons
Each round purple cell is a sperm head, each pink spindle is a tail
Tail length could not be distinguished and measured in this sample

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Southern Three-Banded Armadillo

PICTURE



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CLASS

Mammalia

RP NUMBER

17-208

ORDER

Cingulata

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Chlamyphoridae

SUBFAMILY

ANIMAL PICTURE

GENUS

Tolypuetes

SPECIES

Tolypuetes matacus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

9.80

Head Width

6.90

Midpiece Length

8.80

Tail Length

59.30

Measure Total

76.00

NOTES



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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

White-Fronted Bee-Eater

PICTURE



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CLASS

Mammalia

RP NUMBER

17-091

ORDER

Coraciiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Meropidae

SUBFAMILY

GENUS

Merops

ANIMAL PICTURE

SPECIES

Merops bullockoides

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Wattled Crane

PICTURE



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CLASS

Aves

RP NUMBER

ORDER

Gruiformes

STAIN

Pope

SUBORDER

FAMILY

Gruidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Bugeranus

ANIMAL PICTURE

SPECIES

Bugeranus carunculatus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

13.00

Head Width

1.00

Midpiece Length

4.00

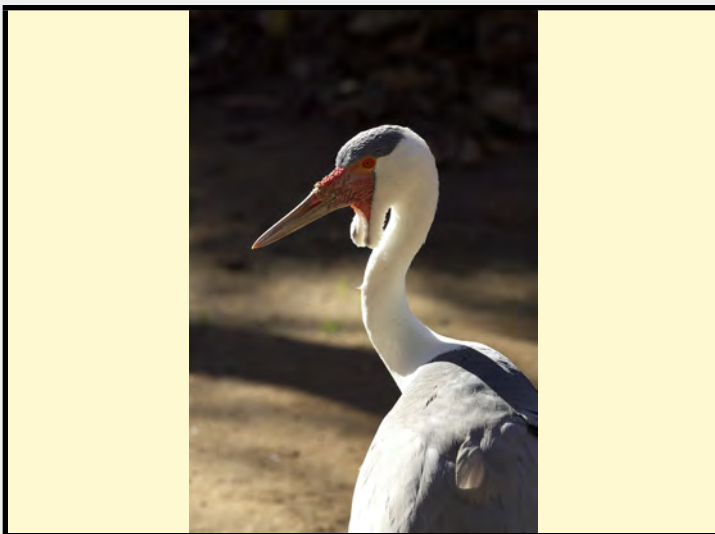
Tail Length

42.00

Measure Total

59.00

NOTES



S

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

White Croaker

PICTURE



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CLASS

Actinopterygii

RP NUMBER

18-014

ORDER

Perciformes

STAIN

Pope

SUBORDER

FAMILY

Sciaenidae

HEAD SHAPE

Round

SUBFAMILY

GENUS

Genyonemus

ANIMAL PICTURE

SPECIES

Genyonemus lineatus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

3.00

Head Width

3.00

Midpiece Length

Tail Length

42.00

Measure Total

45.00

NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Donkey

PICTURE



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CLASS

Mammalia

RP NUMBER

17-173

ORDER

Perissodactyla

STAIN

Pope

SUBORDER

FAMILY

Equidae

HEAD SHAPE

Oval

SUBFAMILY

GENUS

Equus

ANIMAL PICTURE

SPECIES

Equus africanus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

3.00

Midpiece Length

9.00

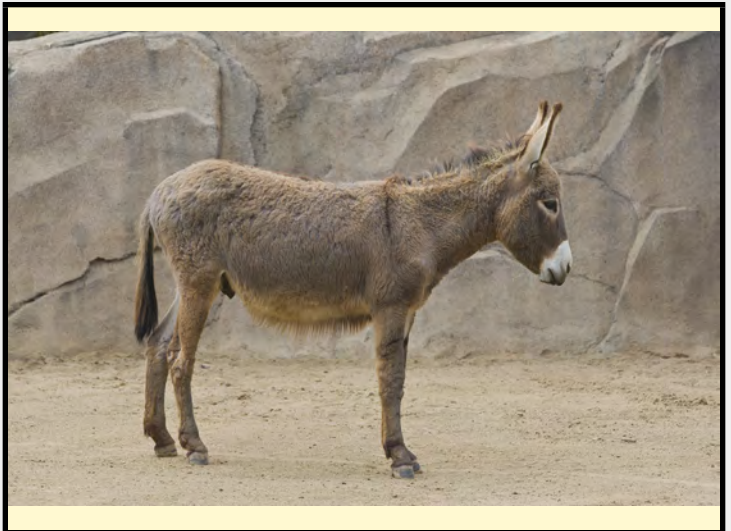
Tail Length

38.00

Measure Total

53.00

NOTES



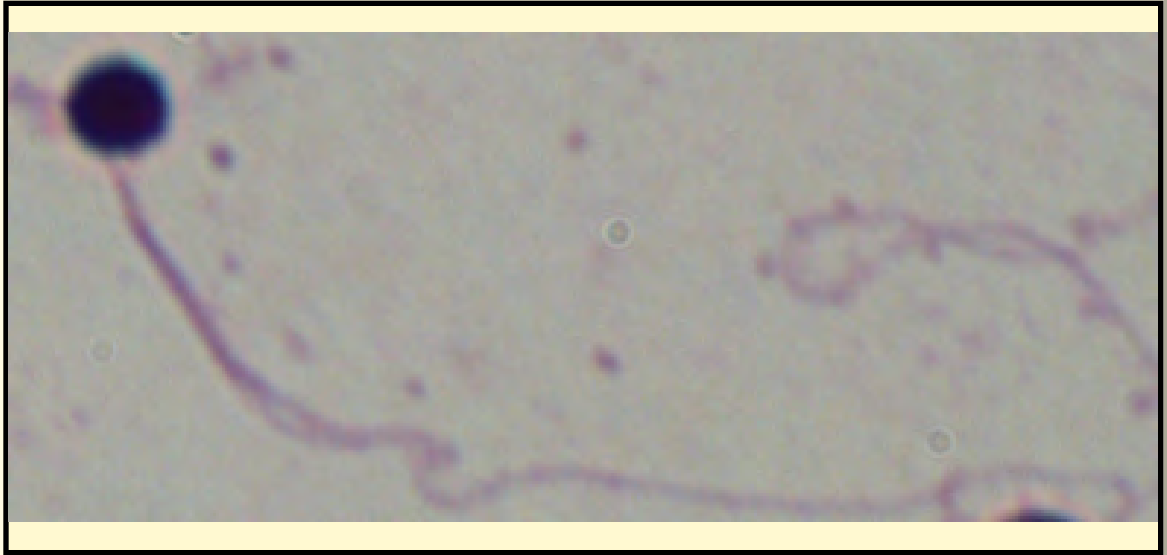
C

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Sarcastic Fringehead

PICTURE



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CLASS

Actinopterygii

RP NUMBER

ORDER

Perciformes

STAIN

Pinacyanol Chloride

SUBORDER

FAMILY

Chaenopsidae

HEAD SHAPE

Round

SUBFAMILY

GENUS

Neoclinus

ANIMAL PICTURE

SPECIES

Neoclinus blanchardi

SUBSPECIES

MEASUREMENTS (µm)

Head Length

2.50

Head Width

2.50

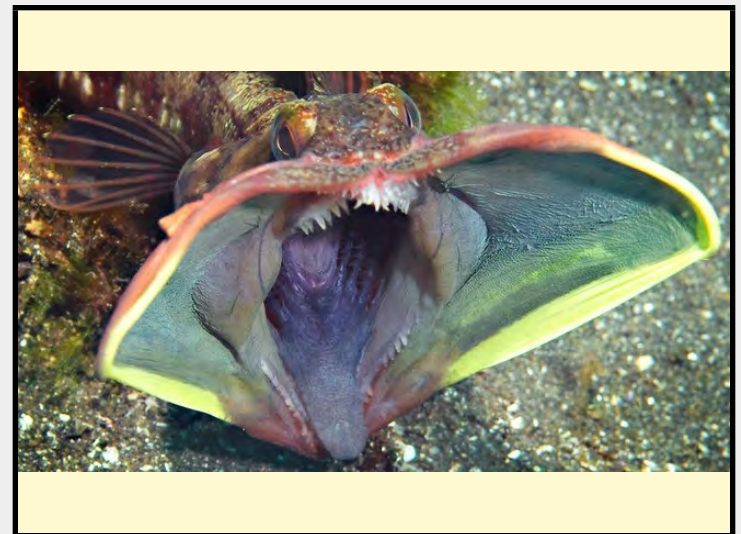
Midpiece Length

Tail Length

40.00

Measure Total

42.50



NOTES

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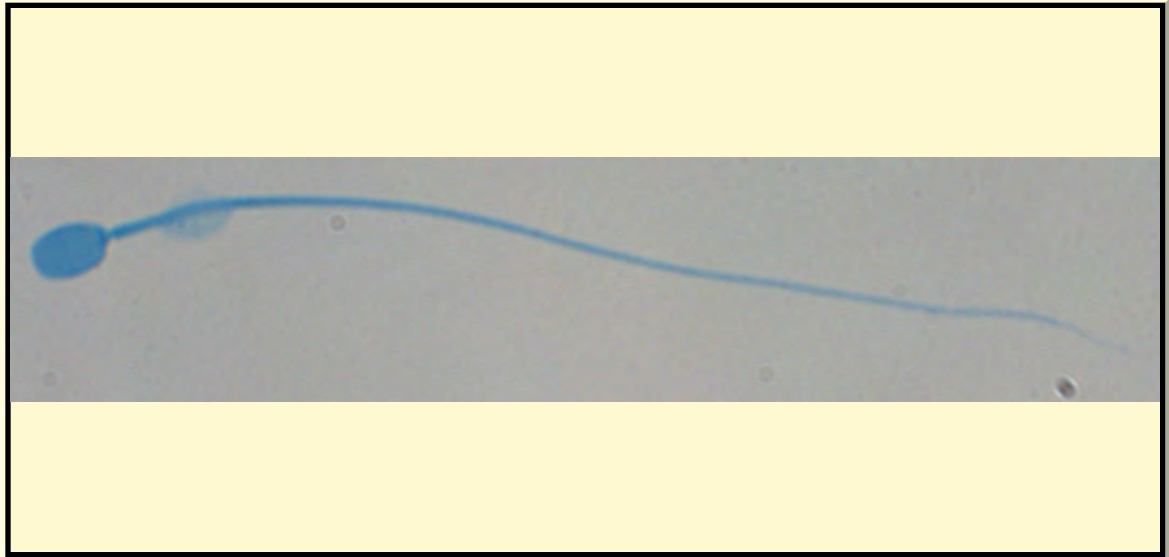
N

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Lesser Spot-nosed Guenon

PICTURE



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CLASS

Mammalia

RP NUMBER

17-133

ORDER

Primates

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Round

FAMILY

Cercopithecidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Cercopithecus

SPECIES

Cercopithecus petaurist

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.00

Head Width

3.00

Midpiece Length

8.00

Tail Length

59.00

Measure Total

73.00



NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH REPRODUCTIVE PHYSIOLOGY DIVISION SPERM ATLAS

COMMON NAME

H

PICTURE



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CLA

Mammalia

RP NUMBER

17-074

ORDER

Carnivora

TAIN

Pope

UBORDER

FAMILY

Hyaenidae

HEAD HAPE

Oval

UBFAMILY

GE U

Crocuta

PE IE

Crocuta crocuta

ANIMAL PICTURE

UB PE IE

MEASUREMENTS (μm)

Head Length

4.10

Head Width

2.10

Midpiece Length

7.50

Tail Length

47.50

Measure Total

53.70

OE



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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Purple-striped Jellyfish

PICTURE



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CLASS

Scyphozoa

RP NUMBER

ORDER

Semaeostomeae

STAIN

SUBORDER

HEAD SHAPE

FAMILY

Pelagiidae

SUBFAMILY

GENUS

Chrysaora

ANIMAL PICTURE

SPECIES

Chrysaora colorata

SUBSPECIES

MEASUREMENTS (μm)

Head Length

4.00

Head Width

4.50

Midpiece Length

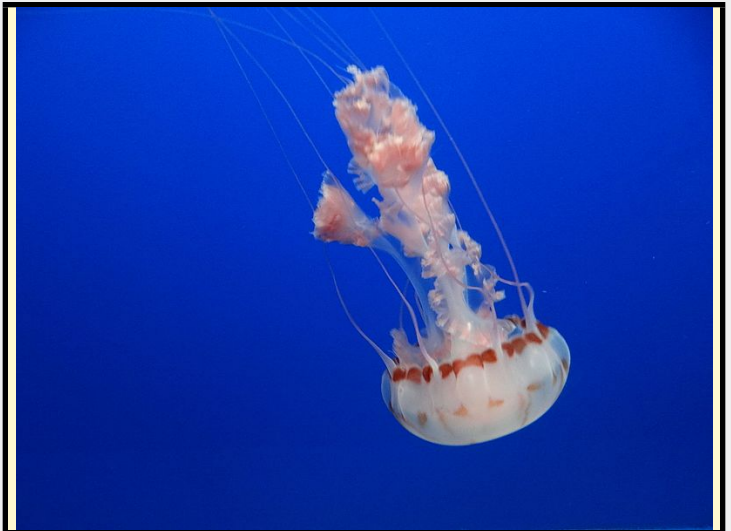
Tail Length

12.00

Measure Total

1216.00

NOTES



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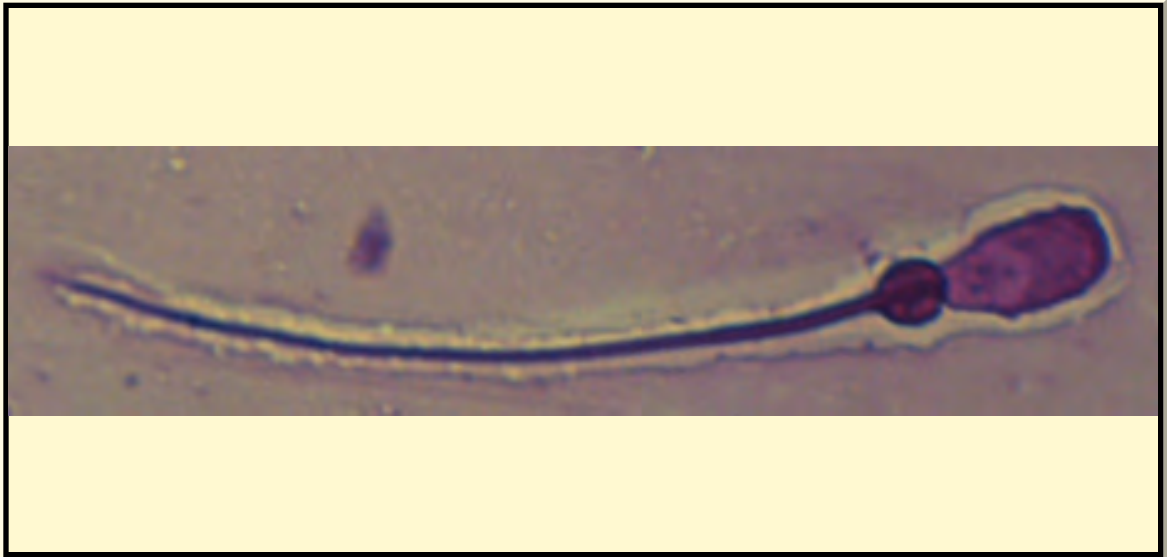
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COMMON NAME

Visayan Warty Pig

PICTURE



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CLASS

Mammalia

RP NUMBER

17-125

ORDER

Artiodactyla

STAIN

Pope

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Suidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Sus

SPECIES

Sus cebifrons

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

10.00

Head Width

5.00

Midpiece Length

11.00

Tail Length

45.00

Measure Total

60.00

NOTES



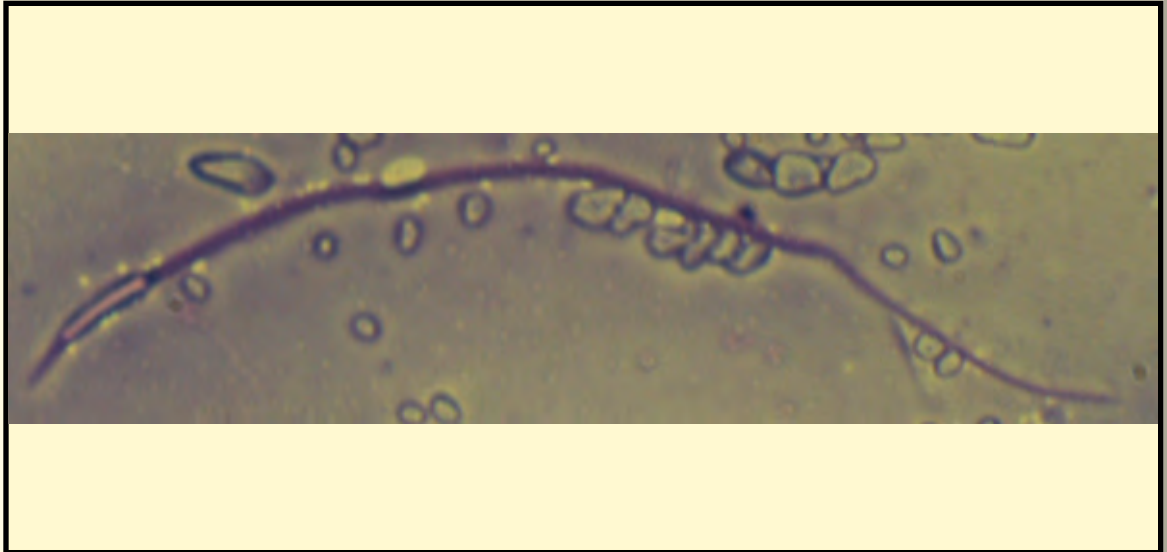
C

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SPERM ATLAS

COMMON NAME

Caatinga Lanceheaded Pitviper

PICTURE



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CLASS

Reptilia

RP NUMBER

17-077

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Viperidae

SUBFAMILY

Crotalinae

ANIMAL PICTURE

GENUS

Bothrops

SPECIES

Bothropoides erythromelas

SUBSPECIES

MEASUREMENTS (µm)

Head Length

11.00

Head Width

1.25

Midpiece Length

48.00

Tail Length

25.00

Measure Total

84.00

NOTES



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SPERM ATLAS

COMMON NAME

Turbo Snail

PICTURE



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CLASS

Gastropoda

RP NUMBER

ORDER

STAIN

Pinacyanol Chloride

SUBORDER

HEAD SHAPE

Conical

FAMILY

Turbinidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Turbo

SPECIES

Turbo fluctuosa

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.00

Head Width

1.50

Midpiece Length

Tail Length

48.00

Measure Total

53.00

NOTES

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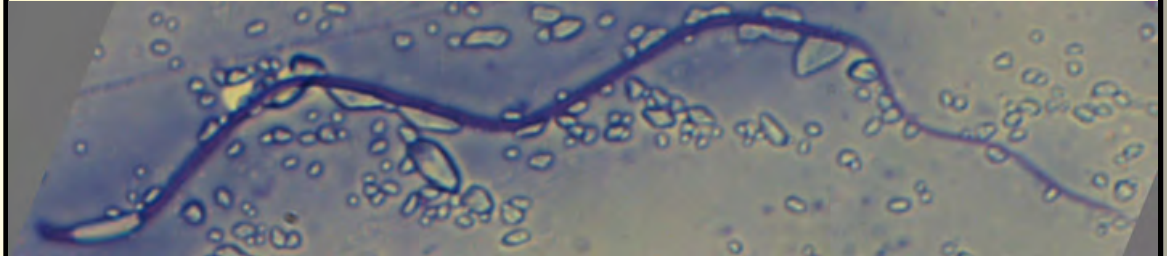
T

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SPERM ATLAS

COMMON NAME

African House Snake

PICTURE



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CLASS

Reptilia

RP NUMBER

17-132

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Lamprophiidae

ANIMAL PICTURE

SUBFAMILY

Lamprophiinae

GENUS

Lamprophis

SPECIES

Lamprophis fuliginosus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



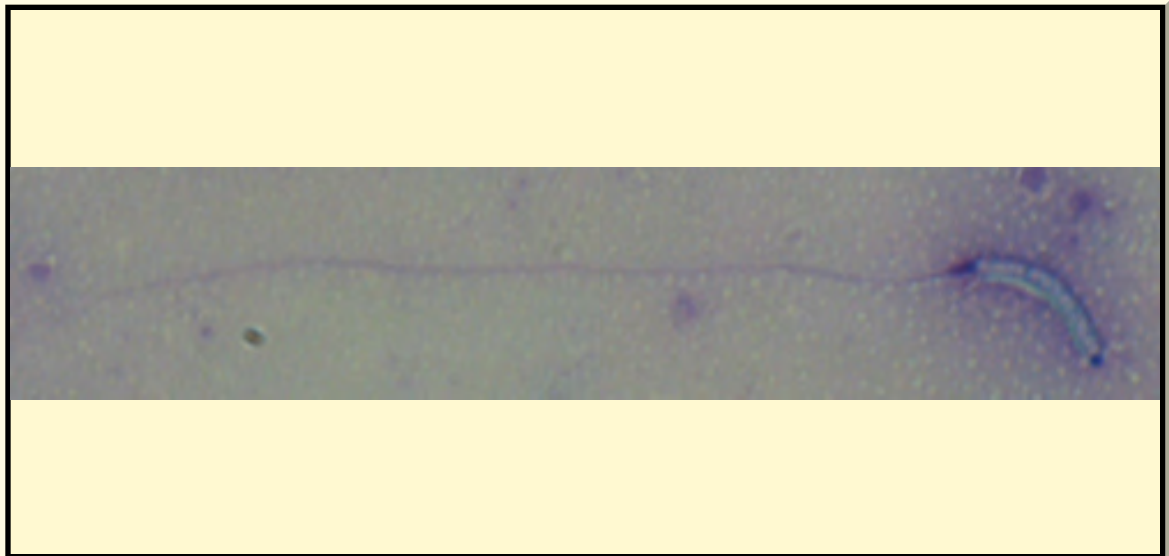
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SPERM ATLAS

COMMON NAME

Abdim's Stork

PICTURE



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CLASS

Aves

RP NUMBER

17-139

ORDER

Ciconiiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Ciconiidae

SUBFAMILY

GENUS

Ciconia

ANIMAL PICTURE

SPECIES

Ciconia abdimii

SUBSPECIES

MEASUREMENTS (μm)

Head Length

12.00

Head Width

1.00

Midpiece Length

2.00

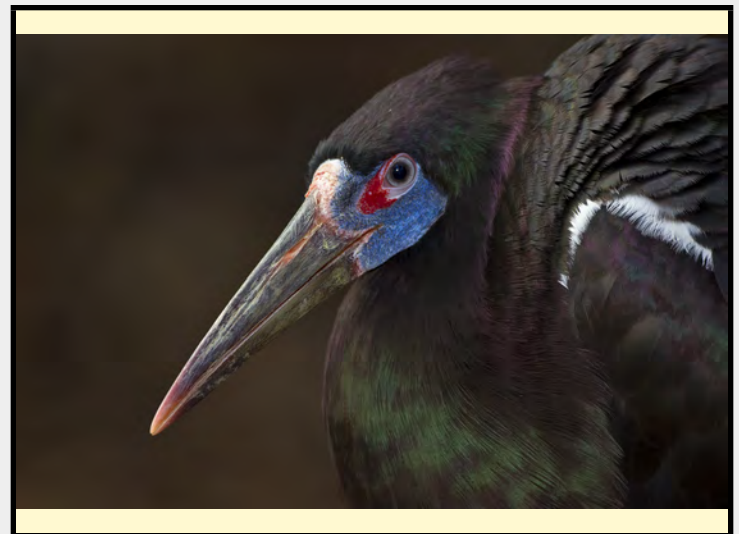
Tail Length

51.00

Measure Total

65.00

NOTES

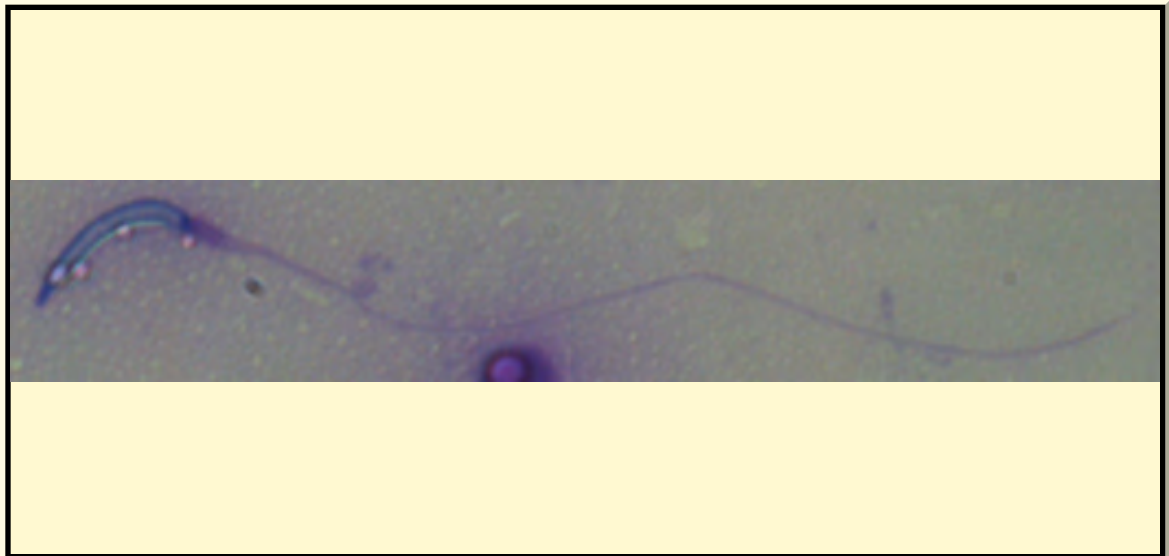


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SPERM ATLAS

COMMON NAME

African Openbill Stork

PICTURE



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CLASS

Mammalia

RP NUMBER

17-122

ORDER

Ciconiiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Ciconiidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Anastomus

SPECIES

Anastomus lamelligerus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

11.50

Head Width

1.25

Midpiece Length

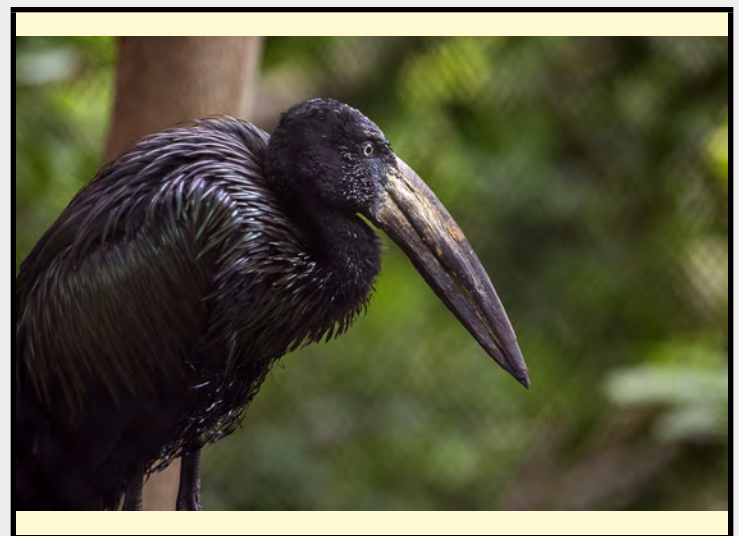
3.00

Tail Length

50.00

Measure Total

64.50



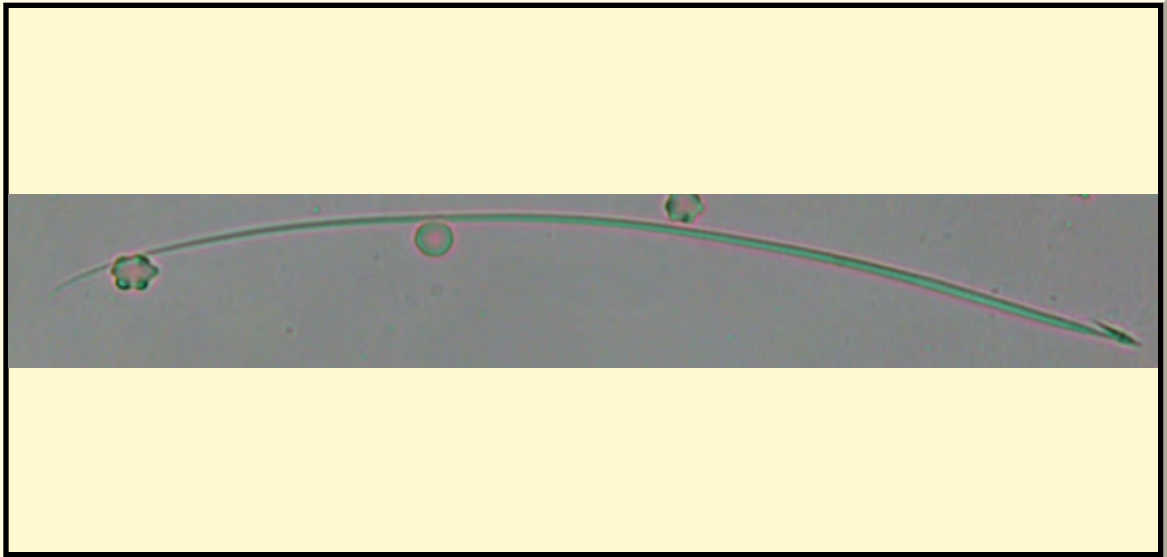
NOTES

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SPERM ATLAS

COMMON NAME

Tasmanian Devil

PICTURE



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CLASS

Mammalia

RP NUMBER

17-111

ORDER

Dasyuromorphia

STAIN

None

SUBORDER

HEAD SHAPE

Oval

FAMILY

Dasyuridae

ANIMAL PICTURE

SUBFAMILY

GENUS

Sarcophilus

SPECIES

Sarcophilus harrisii

SUBSPECIES

MEASUREMENTS (μm)

Head Length

38.00

Head Width

5.00

Midpiece Length

Tail Length

165.00

Measure Total

203.00

NOTES



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SPERM ATLAS

COMMON NAME

Peron's Tree Frog

PICTURE



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CLASS

Amphibia

RP NUMBER

ORDER

Anura

STAIN

None

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Hylidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Litoria

SPECIES

Litoria peronii

SUBSPECIES

MEASUREMENTS (µm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total



NOTES

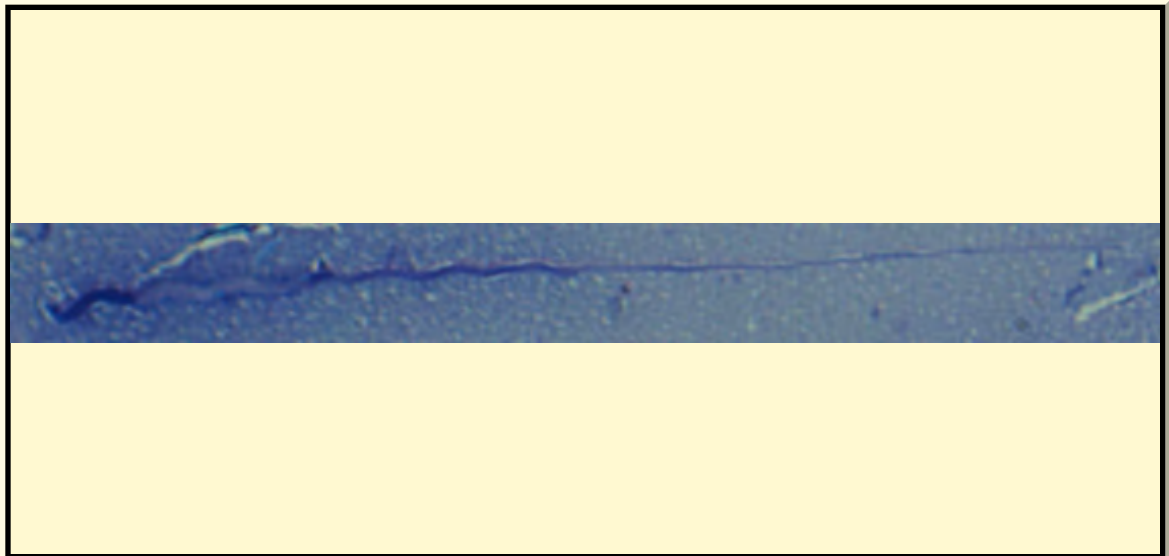
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SPERM ATLAS

COMMON NAME

White-Headed Buffalo-Weaver

PICTURE



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CLASS

Aves

RP NUMBER

17-135

ORDER

Passeriformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Helical

FAMILY

Ploceidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Dinemellia

SPECIES

Dinemellia dinemelli

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total



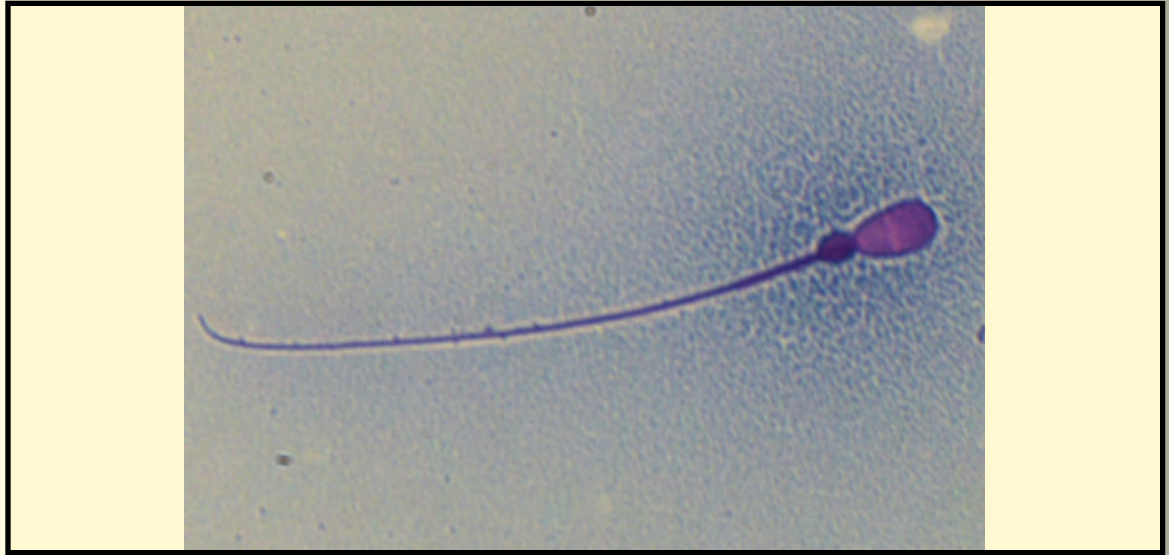
NOTES

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SPERM ATLAS

COMMON NAME

Scimitar-horned Oryx

PICTURE



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CLASS

Mammalia

RP NUMBER

17-247

ORDER

Artiodactyla

STAIN

Pope

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Oryx

SPECIES

Oryx dammah

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.50

Head Width

5.00

Midpiece Length

11.00

Tail Length

41.00

Measure Total

59.50



NOTES

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SPERM ATLAS

COMMON NAME

Giant Anteater

PICTURE



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CLASS

Mammalia

RP NUMBER

15-343

ORDER

Pilosa

STAIN

Pope

SUBORDER

Vermilingua

HEAD SHAPE

Paddle

FAMILY

Myrmecophagidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Myrmecophaga

SPECIES

Myrmecophaga tridactyla

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.30

Head Width

3.70

Midpiece Length

13.70

Tail Length

40.10

Measure Total

61.10

NOTES



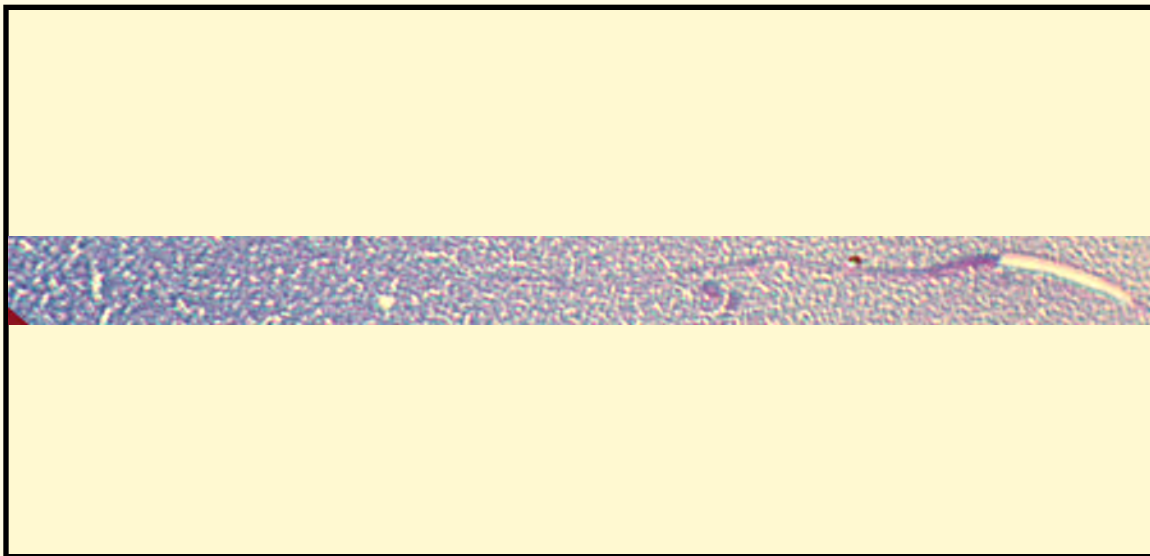
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SPERM ATLAS

COMMON NAME

Malay Great Argus

PICTURE



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CLASS

Aves

RP NUMBER

13-275

ORDER

Galliformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Phasianidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Argusianus

SPECIES

Argusianus argus argus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

11.80

Head Width

0.90

Midpiece Length

4.70

Tail Length

66.60

Measure Total

83.10



NOTES

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SPERM ATLAS

COMMON NAME

Blackbuck

PICTURE



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CLASS

Mammalia

RP NUMBER

10-026

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

antilope

SPECIES

Antilope cervicapra

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.00

Head Width

4.70

Midpiece Length

9.50

Tail Length

40.70

Measure Total

58.20

NOTES

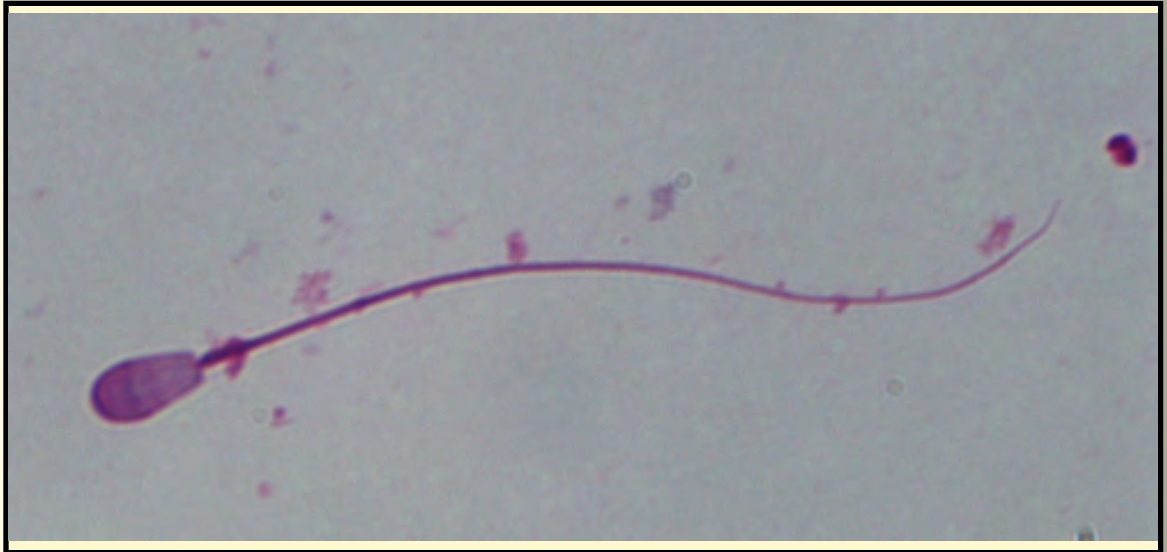


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SPERM ATLAS

COMMON NAME

Cape Buffalo

PICTURE



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CLASS

Mammalia

RP NUMBER

03-116

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Bovinae

GENUS

Syncerus

SPECIES

S. caffer

SUBSPECIES

S. caffer caffer

MEASUREMENTS (μ m)

Head Length

6.30

Head Width

3.20

Midpiece Length

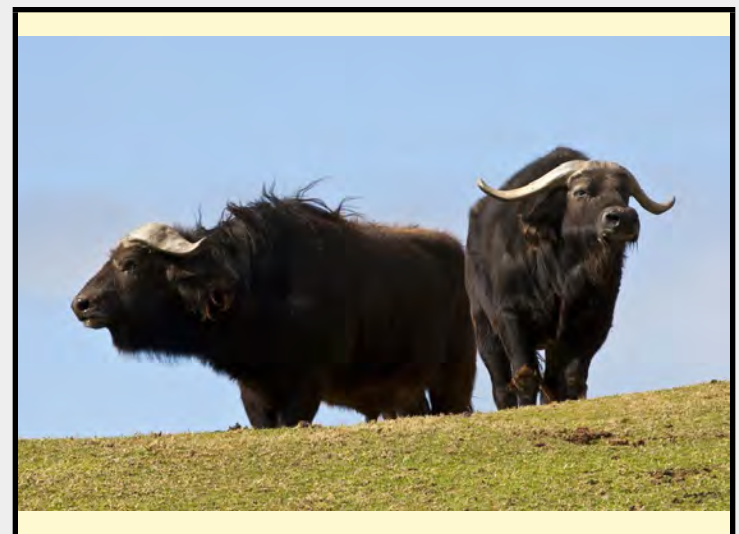
10.30

Tail Length

42.00

Measure Total

58.60



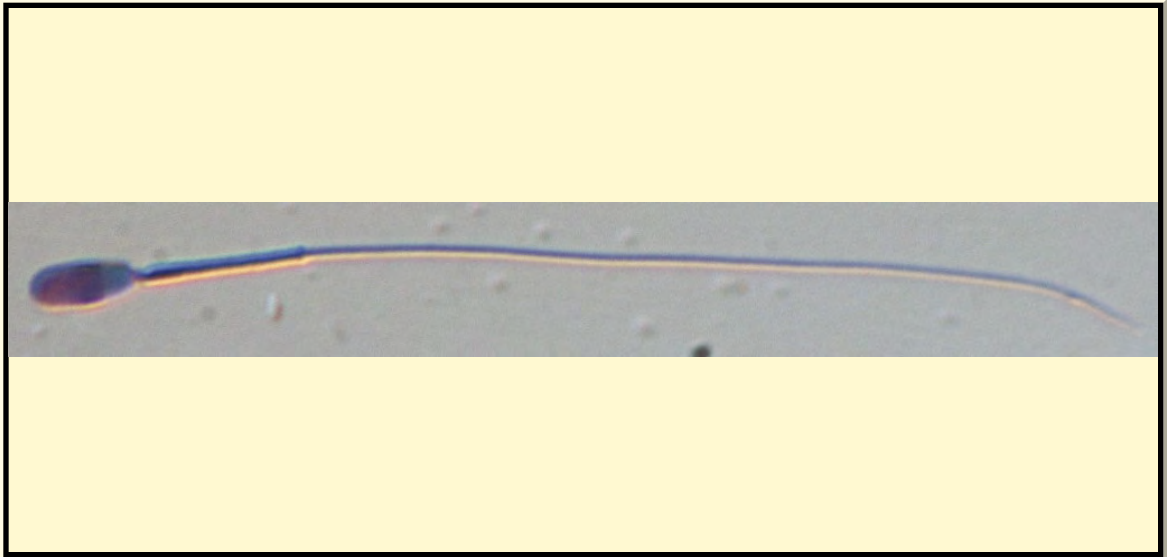
NOTES

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SPERM ATLAS

COMMON NAME

Domestic Cat

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Carnivora

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Felidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Felis

SPECIES

Felis catus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

5.00

Head Width

2.00

Midpiece Length

8.00

Tail Length

40.00

Measure Total

53.00

NOTES



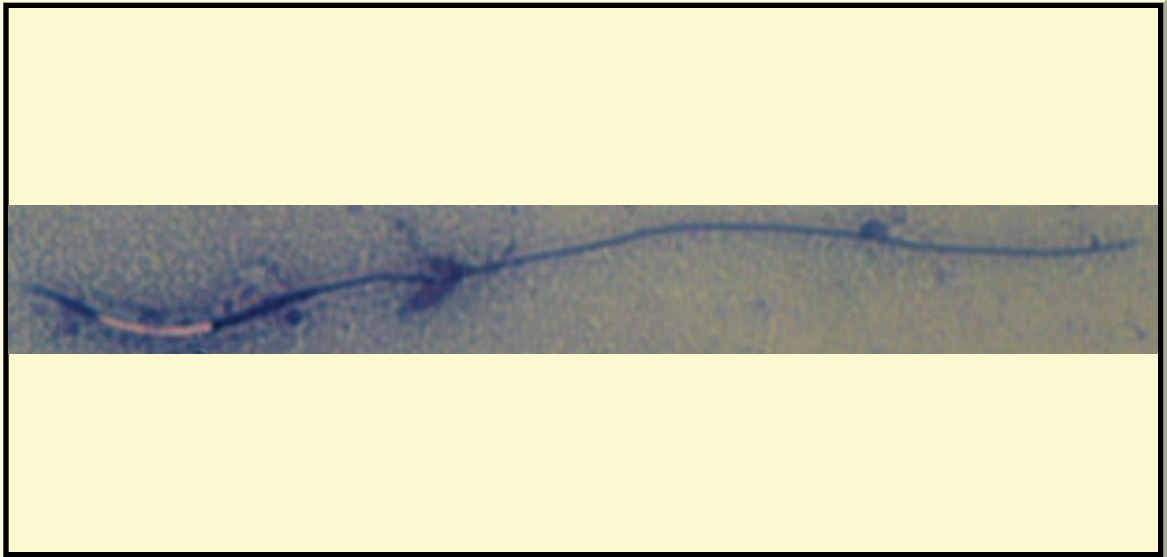
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SPERM ATLAS

COMMON NAME

Oustalet's Chameleon

PICTURE



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CLASS

Reptilia

RP NUMBER

15-187

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Chamaeleonidae

SUBFAMILY

GENUS

Furcifer

ANIMAL PICTURE

SPECIES

Furcifer oustaleti

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.80

Head Width

2.00

Midpiece Length

12.40

Tail Length

90.60

Measure Total

110.80

NOTES



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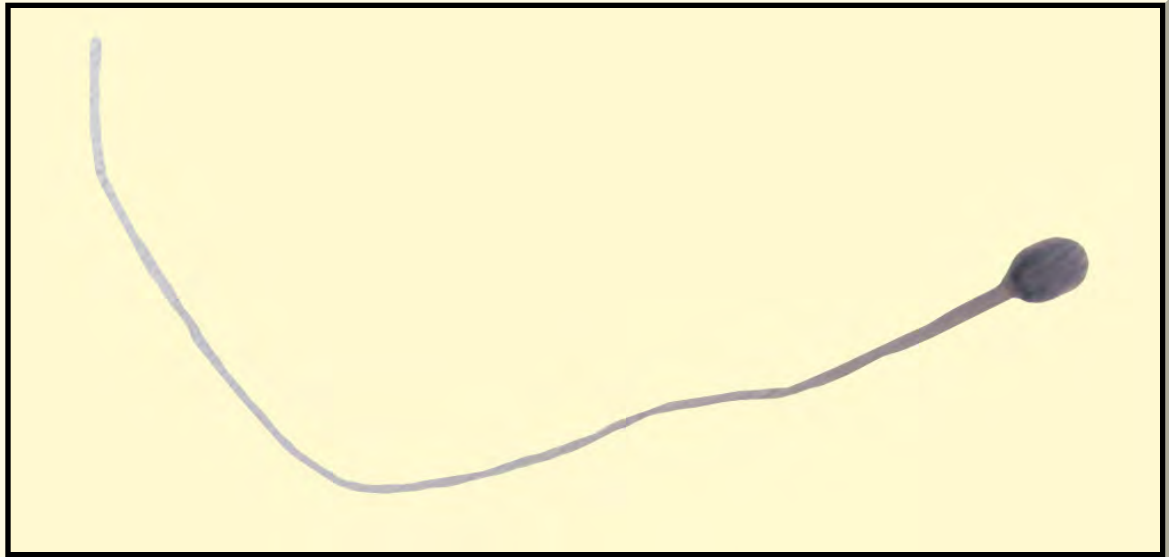
M

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SPERM ATLAS

COMMON NAME

South African Cheetah

PICTURE



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CLASS

Mammalia

RP NUMBER

96-034

ORDER

Carnivora

STAIN

Pap

SUBORDER

Feliformia

HEAD SHAPE

Round

FAMILY

Felidae

ANIMAL PICTURE

SUBFAMILY

Felinae

GENUS

Acinonyx

SPECIES

A. jubatus

SUBSPECIES

A. jubatus jubatus

MEASUREMENTS (μ m)

Head Length

3.50

Head Width

2.10

Midpiece Length

9.40

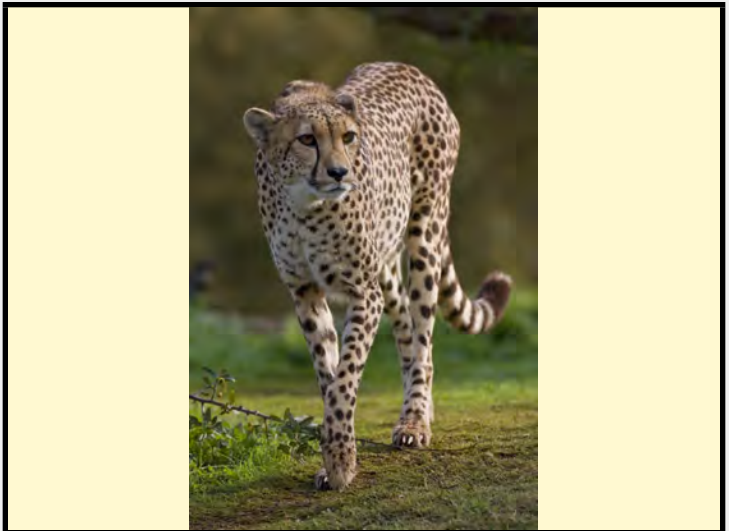
Tail Length

38.50

Measure Total

51.40

NOTES

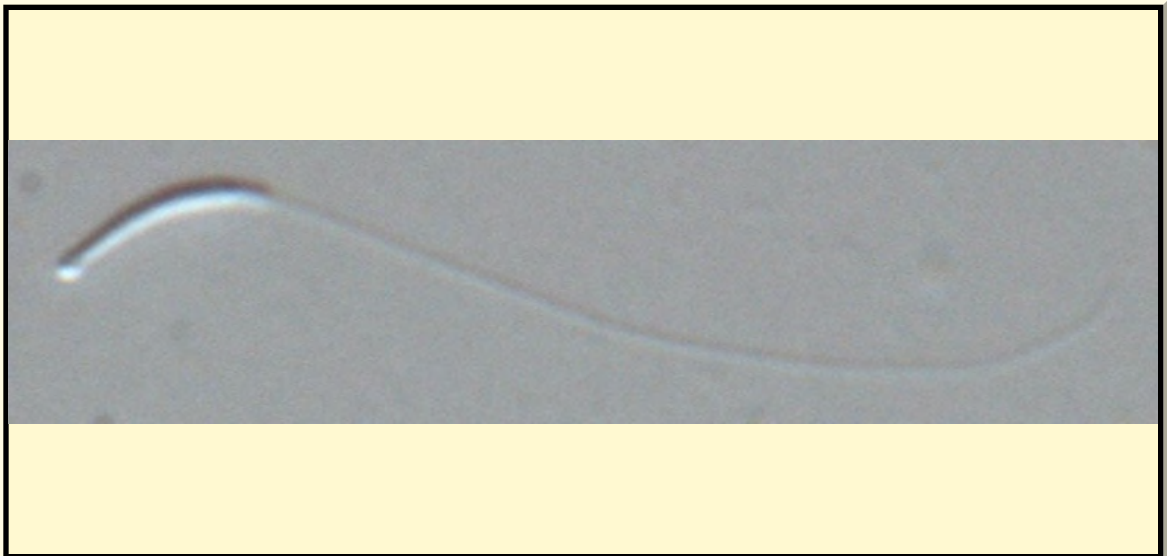


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SPERM ATLAS

COMMON NAME

Red-Crowned Crane

PICTURE



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CLASS

Aves

RP NUMBER

ORDER

Gruiformes

STAIN

None

SUBORDER

FAMILY

Gruidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Grus

ANIMAL PICTURE

SPECIES

Grus japonensis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

8.30

Head Width

1.10

Midpiece Length

2.00

Tail Length

39.40

Measure Total

49.70

NOTES

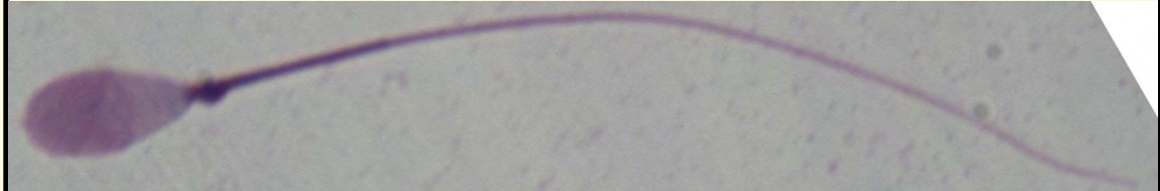


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SPERM ATLAS

COMMON NAME

Barbary Red Deer

PICTURE



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CLASS

Mammalia

RP NUMBER

12-122

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Cervinae

GENUS

Cervus

SPECIES

Cervus Elaphus Barbarus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.00

Head Width

4.30

Midpiece Length

11.20

Tail Length

42.80

Measure Total

62.00

NOTES

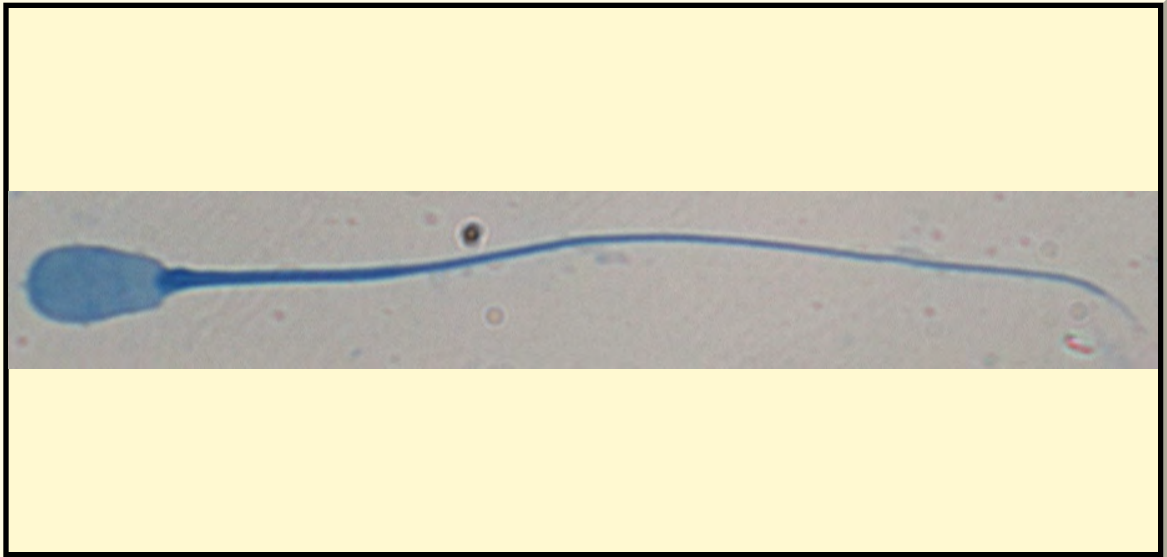


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SPERM ATLAS

COMMON NAME

Calamian Deer

PICTURE



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CLASS

Mammalia

RP NUMBER

11-045

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

Ruminantia

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Cervinae

GENUS

Axis

SPECIES

Axis calamianensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.90

Head Width

3.90

Midpiece Length

11.40

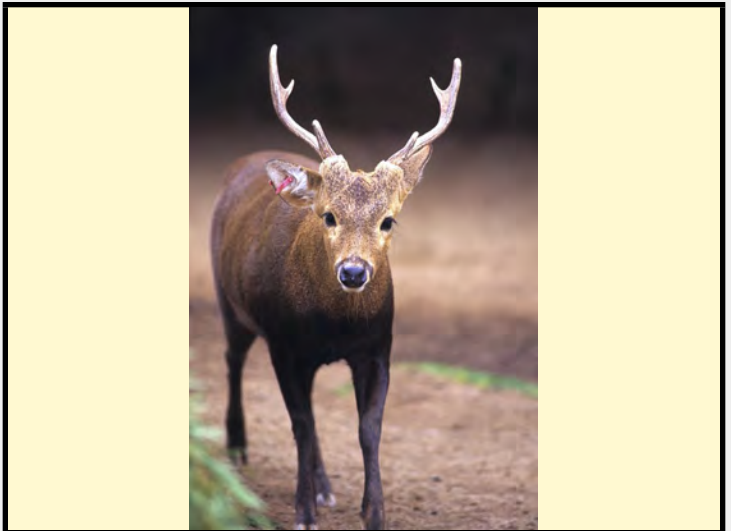
Tail Length

40.90

Measure Total

60.20

NOTES

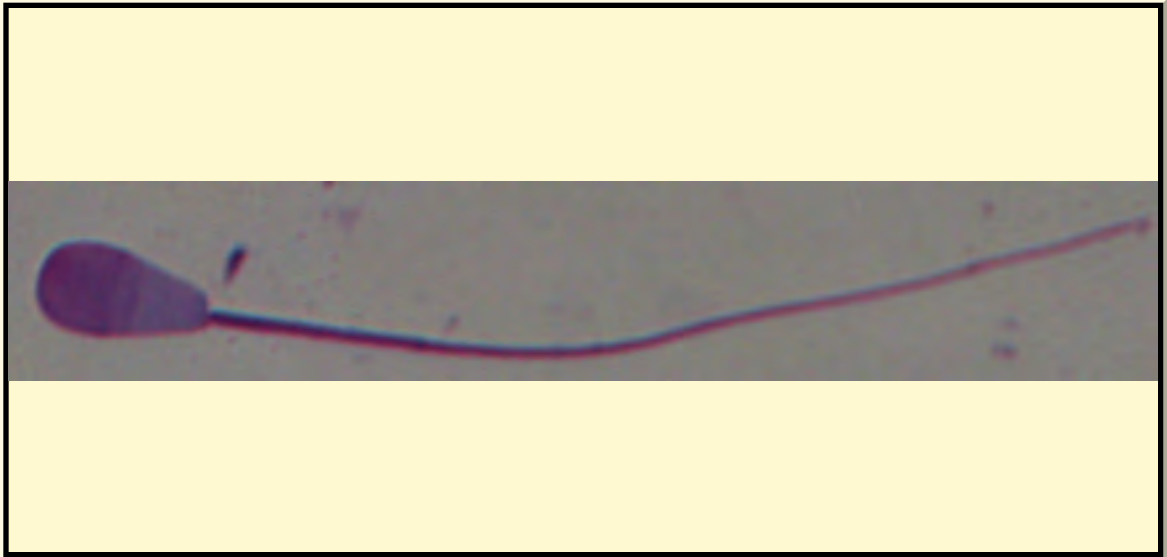


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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

California Mule Deer

PICTURE



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CLASS

Mammalia

RP NUMBER

14-317

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Odocoileus

SPECIES

Odocoileus hemionus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.50

Head Width

4.00

Midpiece Length

10.90

Tail Length

34.60

Measure Total

53.00



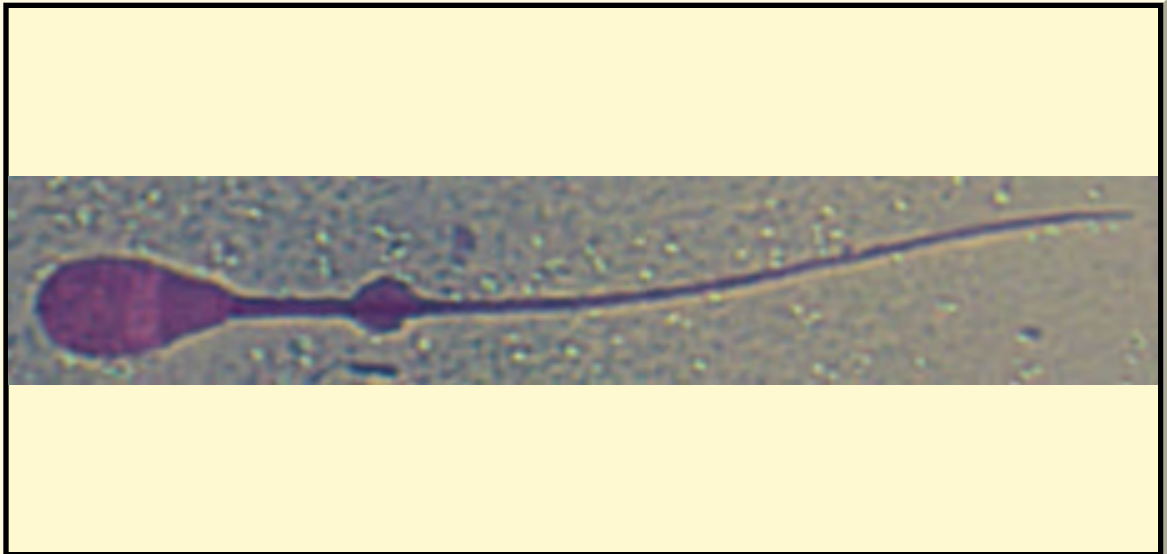
NOTES

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SPERM ATLAS

COMMON NAME

Western Tufted Deer

PICTURE



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CLASS

Mammalia

RP NUMBER

15-021

ORDER

Artiodactyla

STAIN

Pope

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Elaphodus

SPECIES

Elaphodus cephalophus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.70

Head Width

4.10

Midpiece Length

9.80

Tail Length

38.00

Measure Total

55.50



NOTES

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

D

PICTURE



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LASS

Mammalia

RP NUMBER

13-085

ORDER

Carnivora

STAIN

Giemsa

SUBORDER

FAMILY

Canidae

HEAD SHAPE

Paddle

SUBFAMILY

Caninae

ANIMAL PICTURE

GENUS

Cuon

SPECIES

Cuon alpinus lepturus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.00

Head Width

4.00

Midpiece Length

20.00

Tail Length

36.00

Measure Total

62.00

NOTES

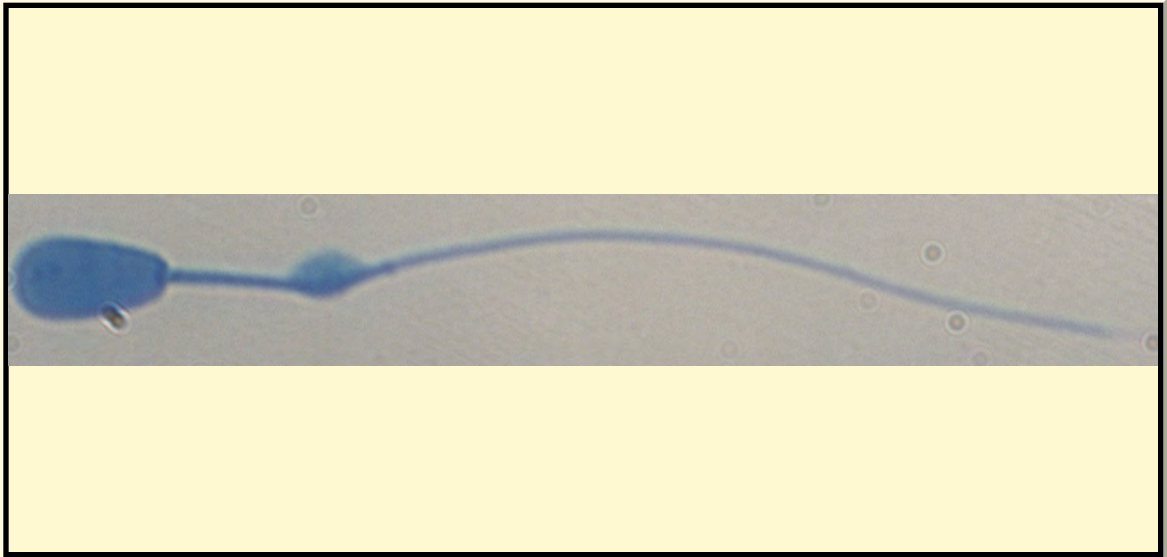


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Cavendish's Dik Dik

PICTURE



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CLASS

Mammalia

RP NUMBER

12-136

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Madoqua

SPECIES

Madoqua kirkii cavendishi

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

2.50

Midpiece Length

10.60

Tail Length

44.20

Measure Total

60.80

NOTES

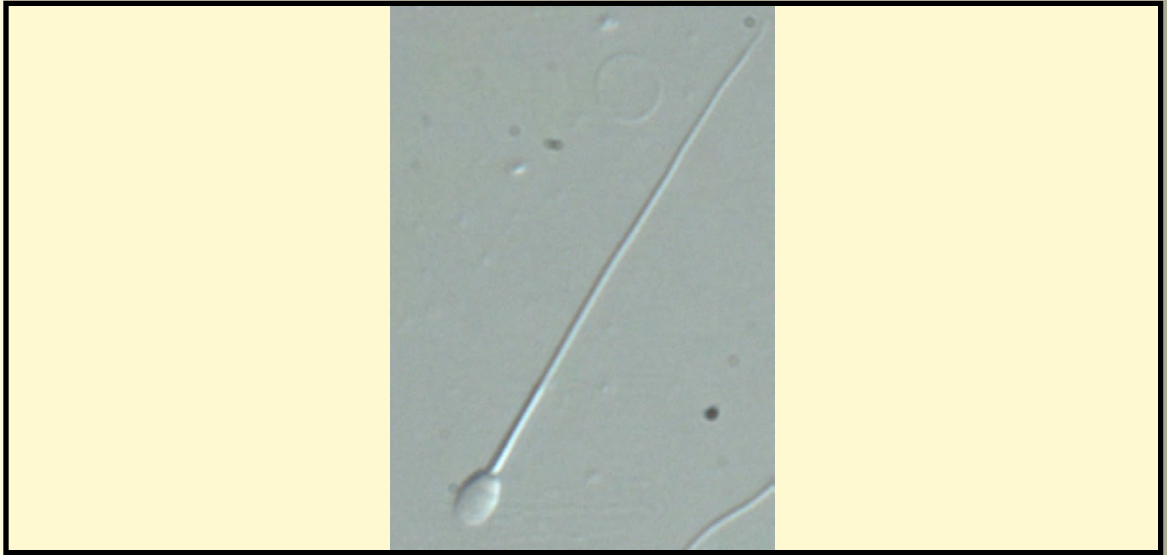


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
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SPERM ATLAS

COMMON NAME

Domestic Dog

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Carnivora

STAIN

None

SUBORDER

HEAD SHAPE

Oval

FAMILY

canidae

ANIMAL PICTURE

SUBFAMILY

GENUS

canis

SPECIES

canis lupus

SUBSPECIES

canis lupus familiaris

MEASUREMENTS (μm)

Head Length

5.80

Head Width

3.00

Midpiece Length

9.00

Tail Length

40.50

Measure Total

55.30



NOTES

A

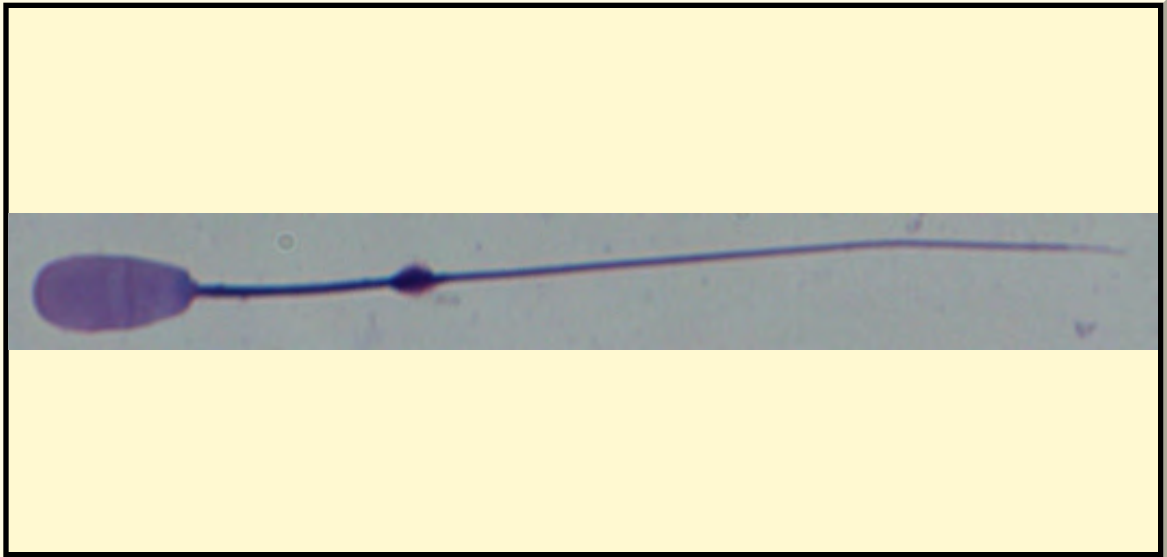
C

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SPERM ATLAS

COMMON NAME

Eastern Yellow-Backed Duiker

PICTURE



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CLASS

Mammalia

RP NUMBER

15-353

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Cephalophus

GENUS

Cephalophus

SPECIES

C. silvicultor

SUBSPECIES

C. silvicultor silvicultor

MEASUREMENTS (μ m)

Head Length

8.50

Head Width

4.50

Midpiece Length

13.20

Tail Length

42.30

Measure Total

64.00

NOTES



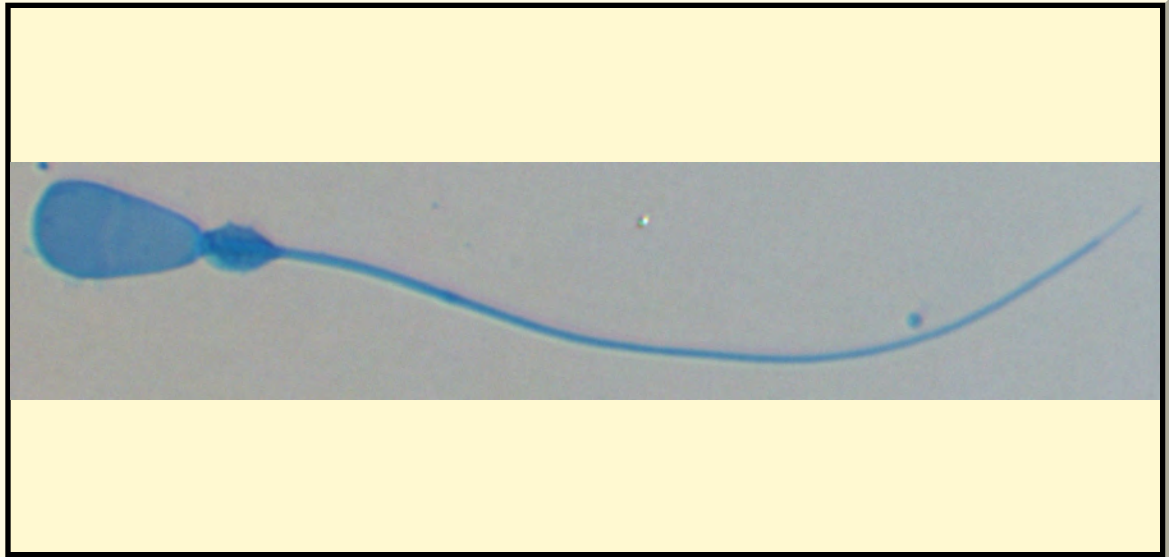
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SPERM ATLAS

COMMON NAME

Red Flanked Duiker

PICTURE



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CLASS

Mammalia

RP NUMBER

13-252

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Cephalophus

SPECIES

Cephalophus rufilatus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.00

Head Width

4.60

Midpiece Length

12.70

Tail Length

37.20

Measure Total

56.90



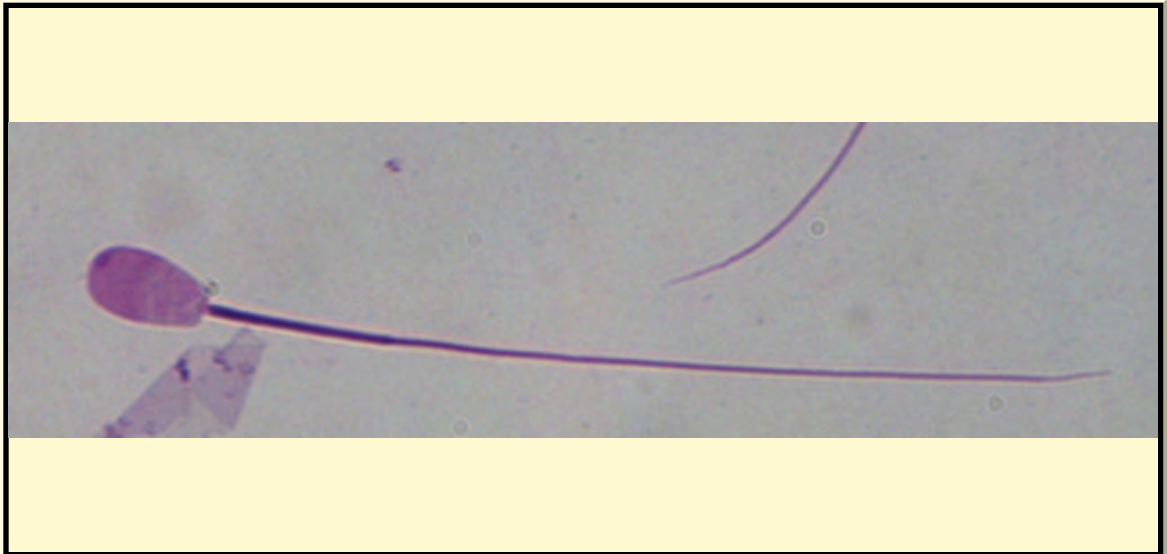
NOTES

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SPERM ATLAS

COMMON NAME

Indian Gaur

PICTURE



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CLASS

Mammalia

RP NUMBER

15-209

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Bovinae

GENUS

Bos

SPECIES

Bos frontalis gaurus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.40

Head Width

3.70

Midpiece Length

14.00

Tail Length

47.70

Measure Total

69.10

NOTES



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SPERM ATLAS

COMMON NAME

Addra Gazelle

PICTURE



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CLASS

Mammalia

RP NUMBER

04-174

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Antilopinae

GENUS

Nanger

SPECIES

Nanger dama ruficollis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.60

Head Width

4.50

Midpiece Length

9.50

Tail Length

42.50

Measure Total

58.60

NOTES



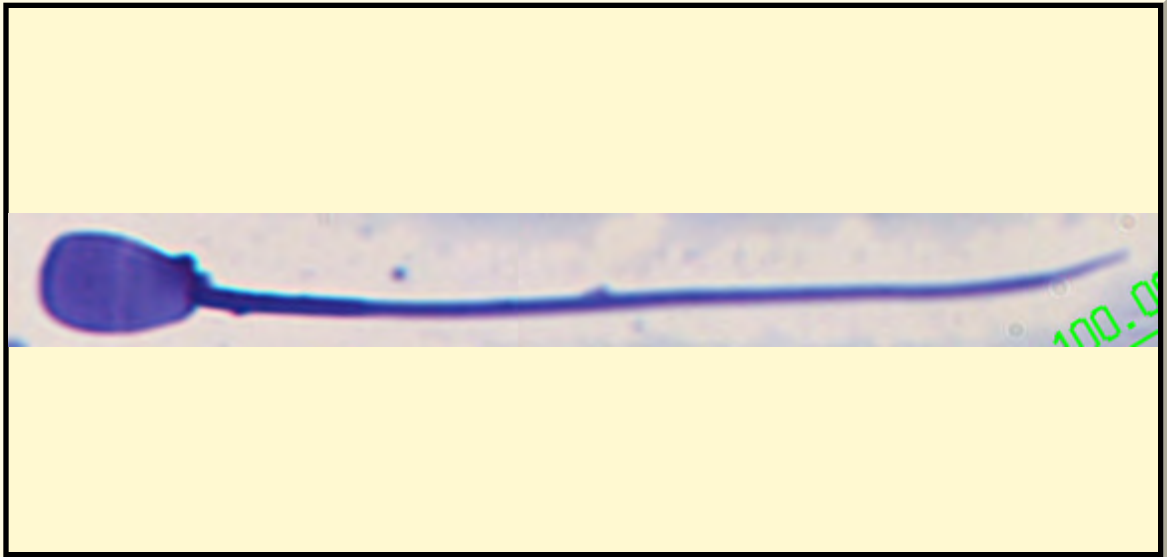
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SPERM ATLAS

COMMON NAME

Grant's Gazelle

PICTURE



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CLASS

Mammalia

RP NUMBER

14-344

ORDER

Artiodactyla

STAIN

Pope

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Antilopinae

GENUS

Nanger

SPECIES

Nanger granti

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.40

Head Width

4.00

Midpiece Length

6.40

Tail Length

40.80

Measure Total

53.60



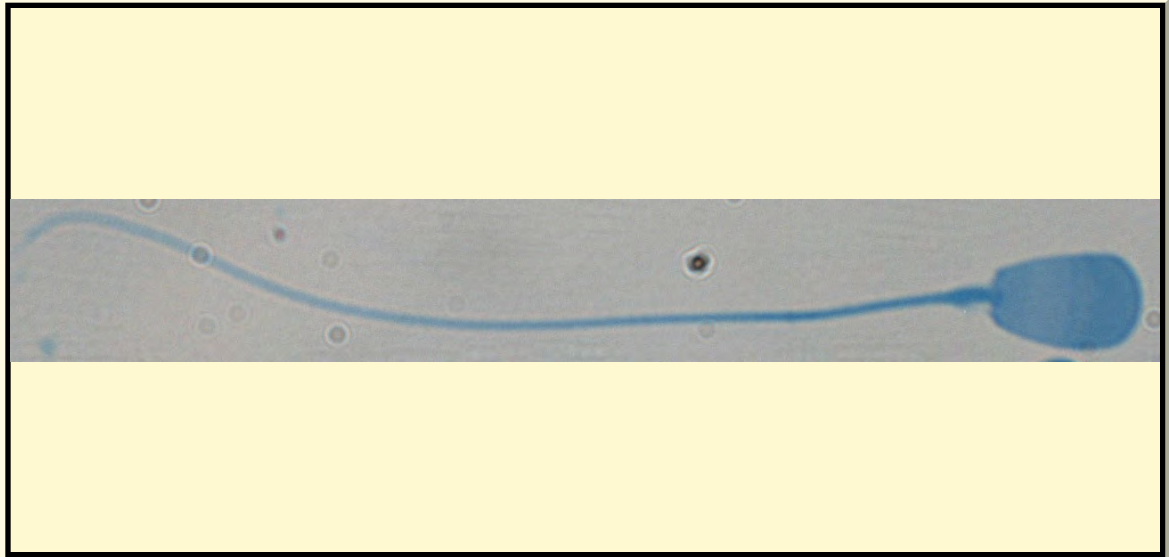
NOTES

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SPERM ATLAS

COMMON NAME

Slender-Horned Gazelle

PICTURE



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CLASS

Mammalia

RP NUMBER

12-186

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Antilopinae

GENUS

Gazella

SPECIES

G. leptoceros

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

8.70

Head Width

4.60

Midpiece Length

12.48

Tail Length

40.34

Measure Total

61.52

NOTES



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SPERM ATLAS

COMMON NAME

Thomson's Gazelle

PICTURE



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CLASS

Mammalia

RP NUMBER

15-127

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Eudorcas

SPECIES

Eudorcas thomsonii

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

11.00

Head Width

8.70

Midpiece Length

5.70

Tail Length

50.10

Measure Total

66.80

NOTES

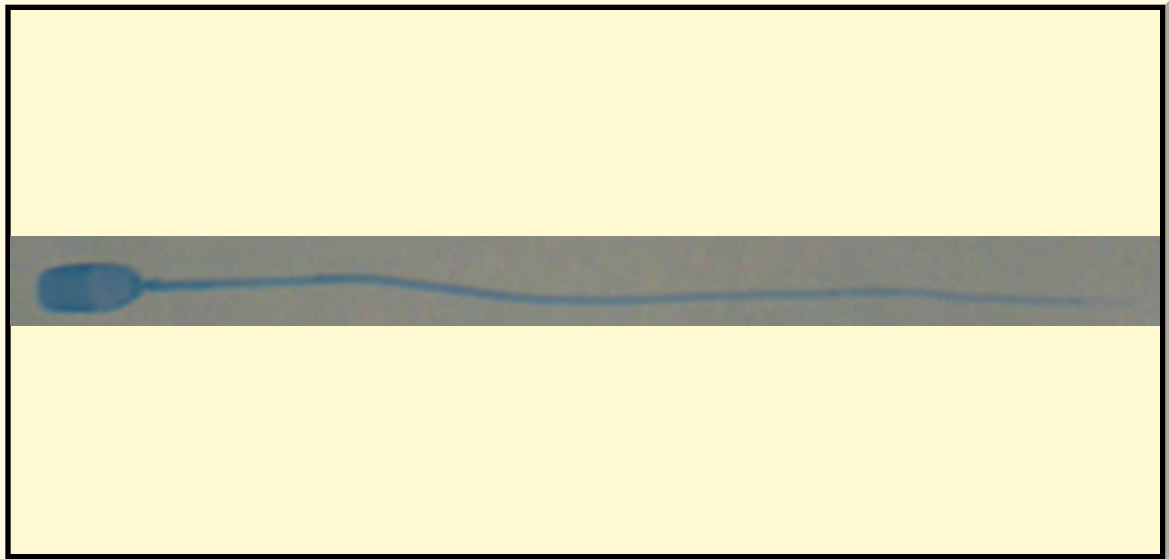


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SPERM ATLAS

COMMON NAME

Masai Giraffe

PICTURE



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CLASS

Mammalia

RP NUMBER

16-220

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Oval

FAMILY

Giraffidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Giraffa

SPECIES

Giraffa tippelskirchi

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

5.70

Head Width

2.50

Midpiece Length

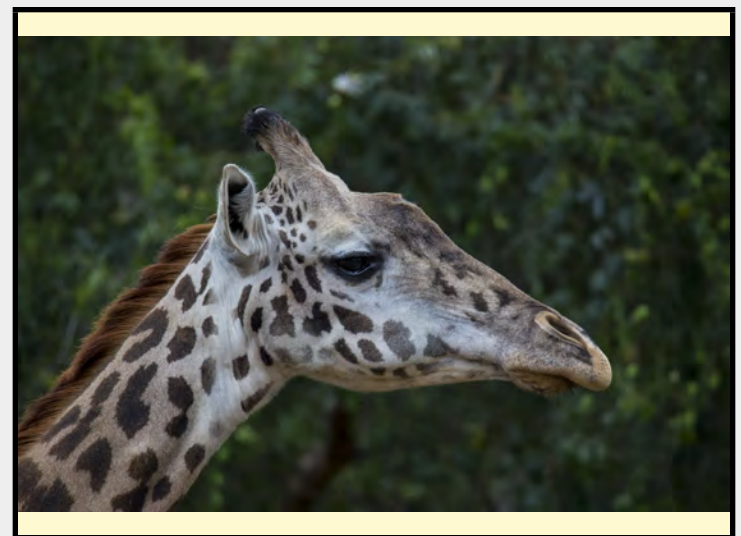
8.20

Tail Length

46.10

Measure Total

60.00



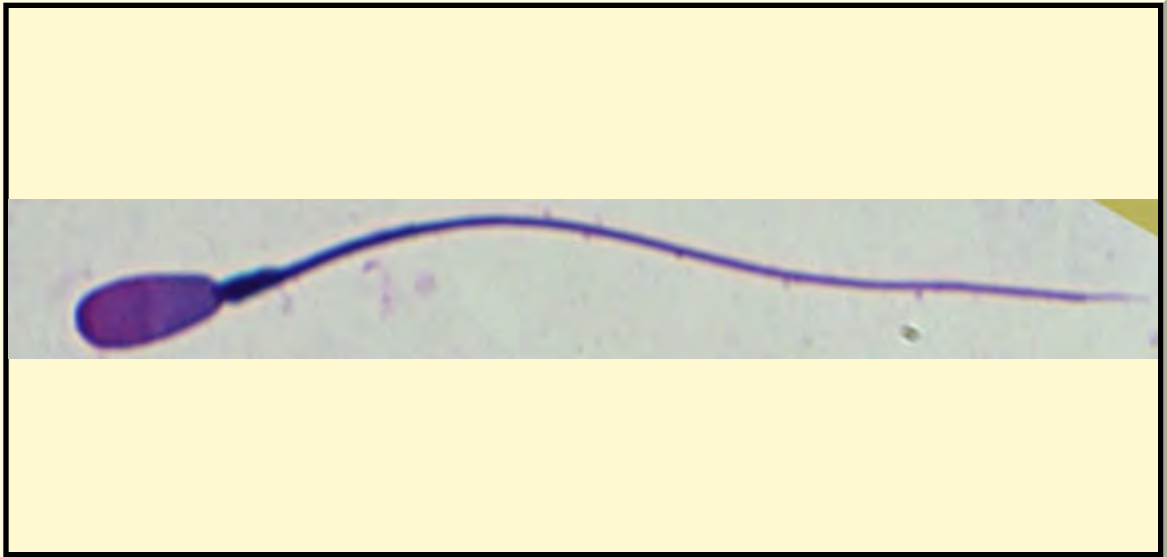
NOTES

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SPERM ATLAS

COMMON NAME

Domestic Goat

PICTURE



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CLASS

Mammalia

RP NUMBER

14-248

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Caprinae

GENUS

Capra

SPECIES

Capra hircus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.70

Head Width

3.40

Midpiece Length

10.80

Tail Length

37.70

Measure Total

55.20



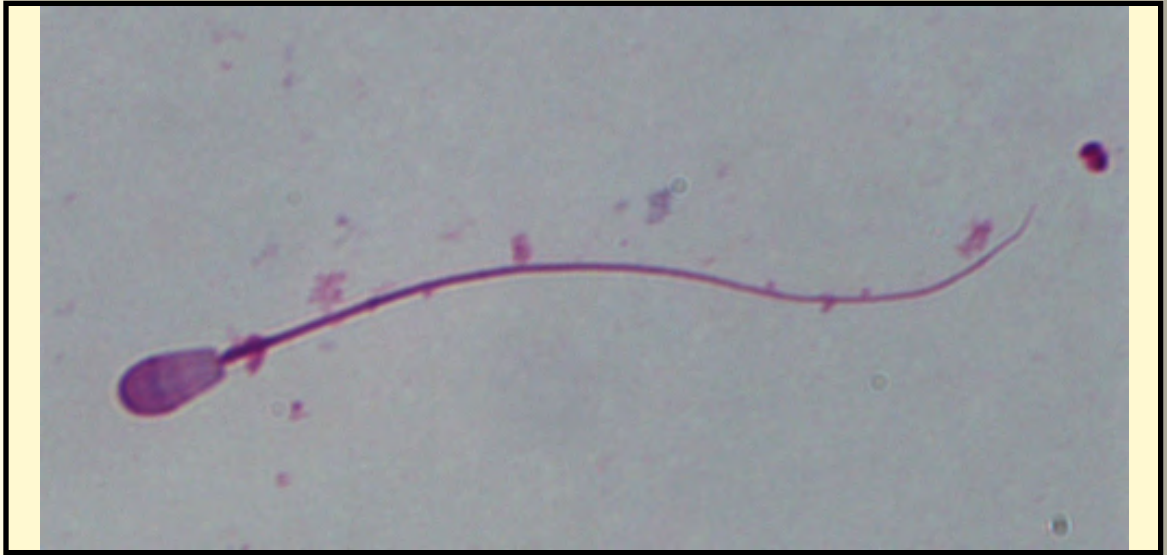
NOTES

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SPERM ATLAS

COMMON NAME

Central Chinese Goral

PICTURE



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CLASS

Mammalia

RP NUMBER

05-036

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Caprinae

GENUS

Nemorhaedus

SPECIES

N. goral

SUBSPECIES

N. goral arnouxianus

MEASUREMENTS (μm)

Head Length

6.00

Head Width

2.50

Midpiece Length

10.60

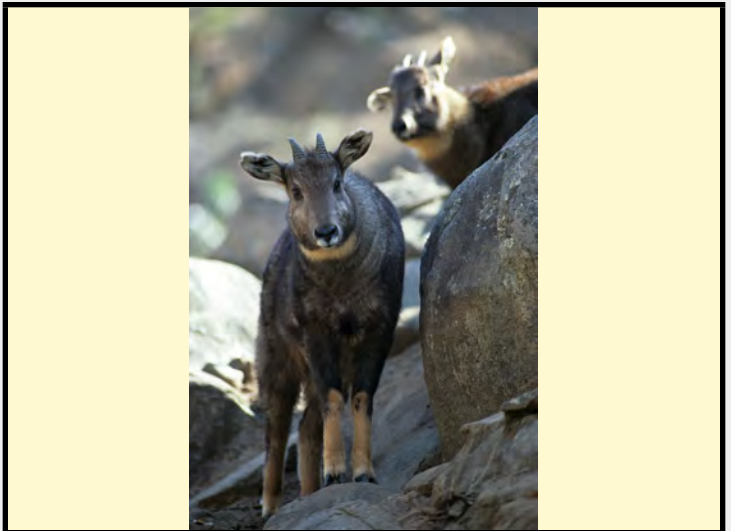
Tail Length

44.20

Measure Total

60.80

NOTES

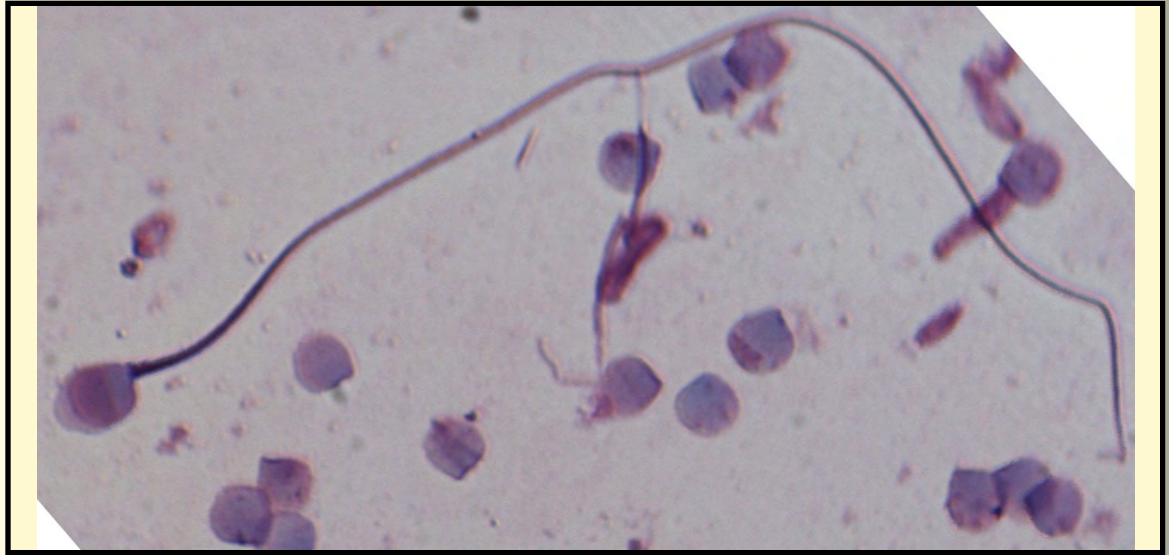


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SPERM ATLAS

COMMON NAME

Four-Toed African Hedgehog

PICTURE



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CLASS

Mammalia

RP NUMBER

09-003

ORDER

Erinaceomorpha

STAIN

Giemsa

SUBORDER

FAMILY

Erinaceidae

HEAD SHAPE

Round

SUBFAMILY

Erinaceinae

ANIMAL PICTURE

GENUS

Atelerix

SPECIES

A. albiventris

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

4.40

Head Width

3.30

Midpiece Length

11.38

Tail Length

72.10

Measure Total

87.88

NOTES



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SPERM ATLAS

COMMON NAME

Domestic Horse

PICTURE



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CLASS

Mammalia

RP NUMBER

14-154

ORDER

Perissodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Equidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Equus

SPECIES

Equus ferus

SUBSPECIES

Equus ferus caballus

MEASUREMENTS (μ m)

Head Length

5.00

Head Width

2.70

Midpiece Length

8.40

Tail Length

35.30

Measure Total

48.70



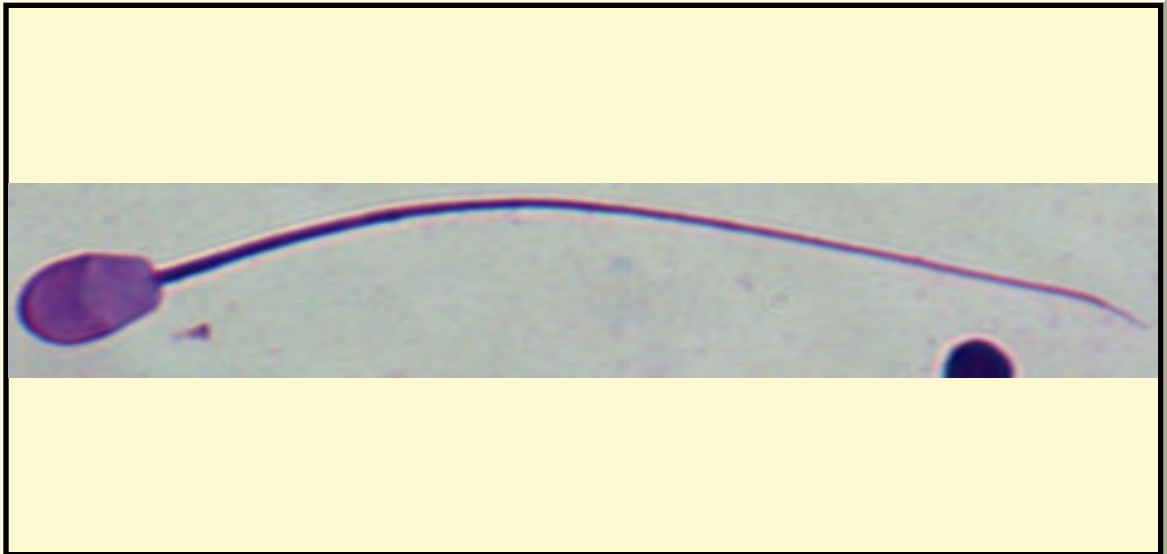
NOTES

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SPERM ATLAS

COMMON NAME

Nubian Ibex

PICTURE



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CLASS

Mammalia

ORDER

Artiodactyla

SUBORDER

FAMILY

Bovidae

SUBFAMILY

Caprinae

GENUS

Capra

SPECIES

C. nubiana

SUBSPECIES

RP NUMBER

14-329

STAIN

Giemsa

HEAD SHAPE

Paddle

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

6.40

Head Width

3.40

Midpiece Length

12.70

Tail Length

45.20

Measure Total

64.30

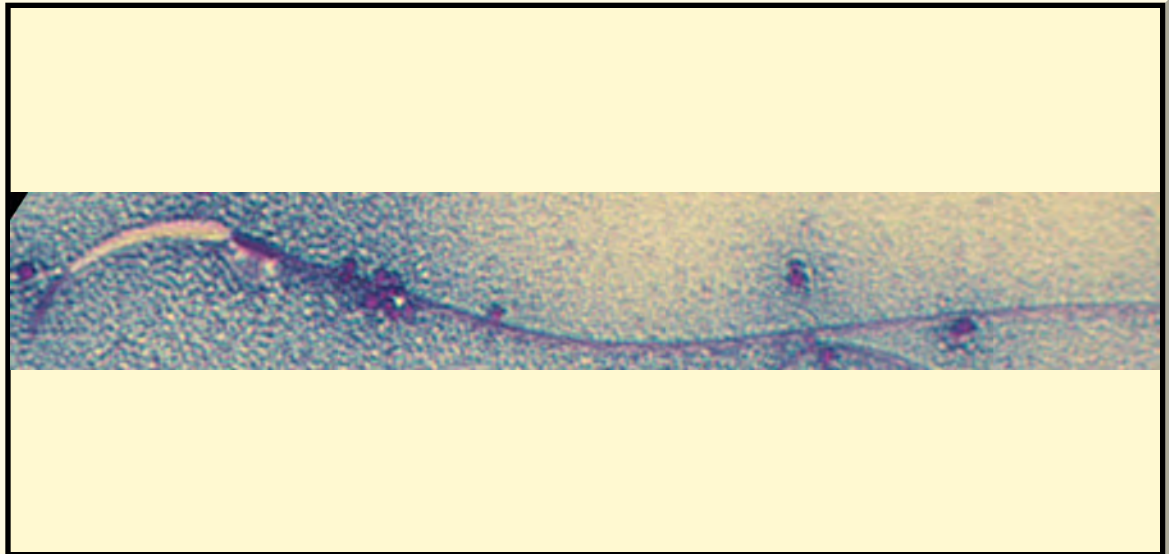
NOTES

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SPERM ATLAS

COMMON NAME

Black Spiny-tailed Iguana

PICTURE



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CLASS

Reptilia

RP NUMBER

14-047

ORDER

Squamata

STAIN

Pope

SUBORDER

Laertilia

HEAD SHAPE

Filiformal

FAMILY

Iguanidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Ctenosaura

SPECIES

Ctenosaura similis

SUBSPECIES

MEASUREMENTS (μm)

Head Length

17.00

Head Width

1.50

Midpiece Length

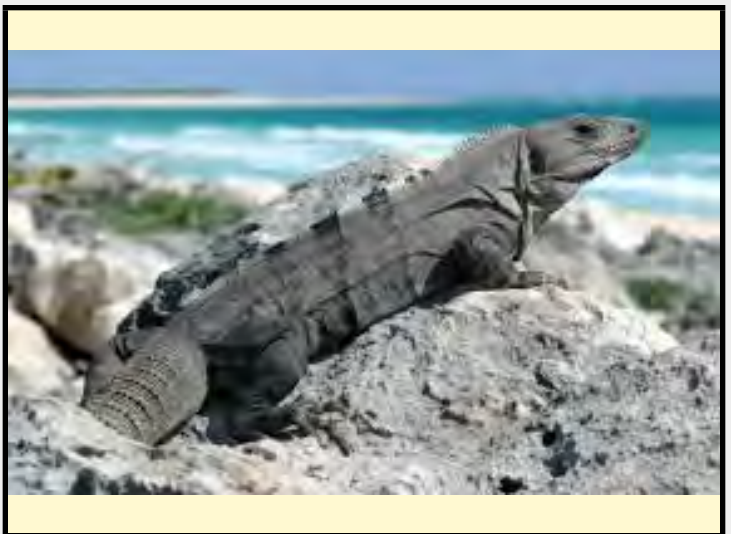
Tail Length

73.00

Measure Total

90.00

NOTES



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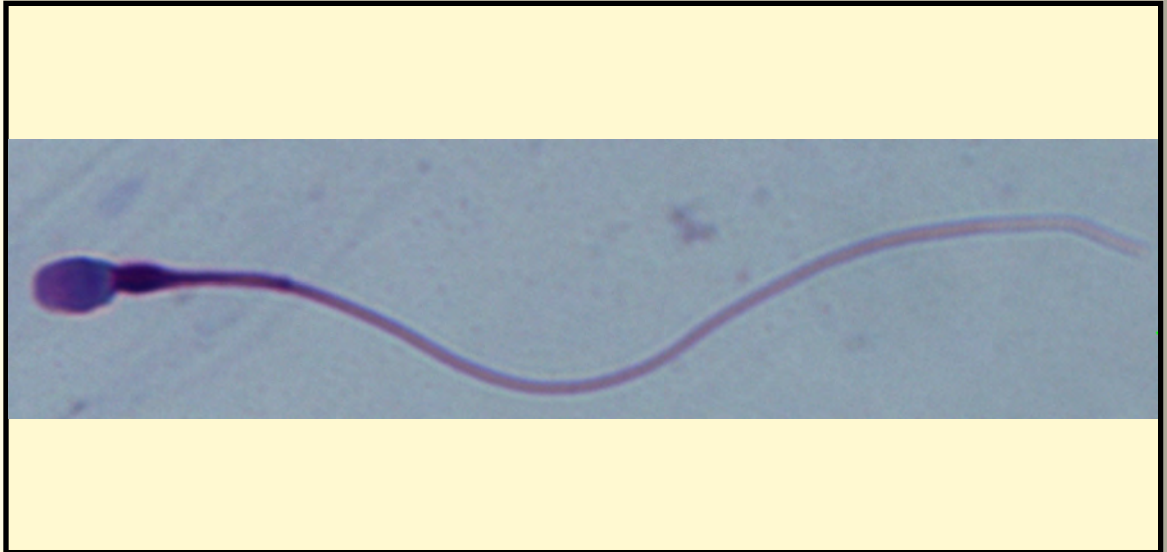
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SPERM ATLAS

COMMON NAME

Jaguar

PICTURE



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CLASS

Mammalia

ORDER

Carnivora

SUBORDER

FAMILY

Felidae

SUBFAMILY

GENUS

Panthera

SPECIES

Panthera onca

SUBSPECIES

RP NUMBER

14-126

STAIN

Giemsa

HEAD SHAPE

Oval

ANIMAL PICTURE



MEASUREMENTS (μ m)

Head Length

3.80

Head Width

2.90

Midpiece Length

8.20

Tail Length

43.70

Measure Total

55.70

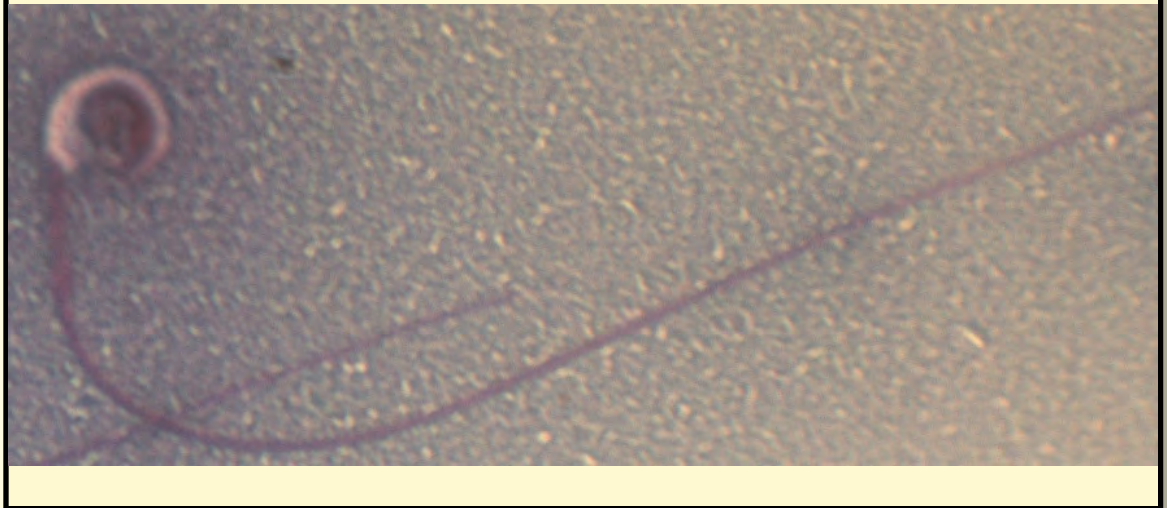
NOTES

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SPERM ATLAS

COMMON NAME

Koala

PICTURE



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CLASS

Mammalia

RP NUMBER

14-140

ORDER

Diprotodontia

STAIN

Pope

SUBORDER

HEAD SHAPE

Sickle

FAMILY

Phascolarctidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Phascolarctos

SPECIES

Phascolarctos cinereus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

8.60

Head Width

1.80

Midpiece Length

5.90

Tail Length

55.70

Measure Total

70.20

NOTES

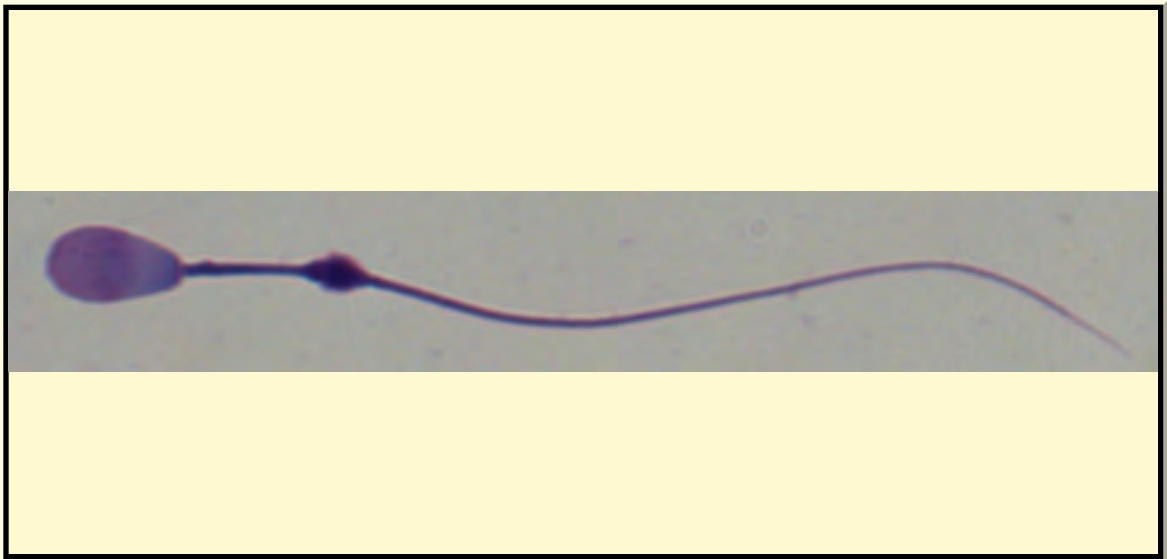


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SPERM ATLAS

COMMON NAME

Ugandan Kob

PICTURE



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CLASS

Mammalia

RP NUMBER

14-349

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Kobus

SPECIES

Kobus kob thomasi

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.00

Head Width

3.80

Midpiece Length

9.40

Tail Length

40.60

Measure Total

56.00

NOTES

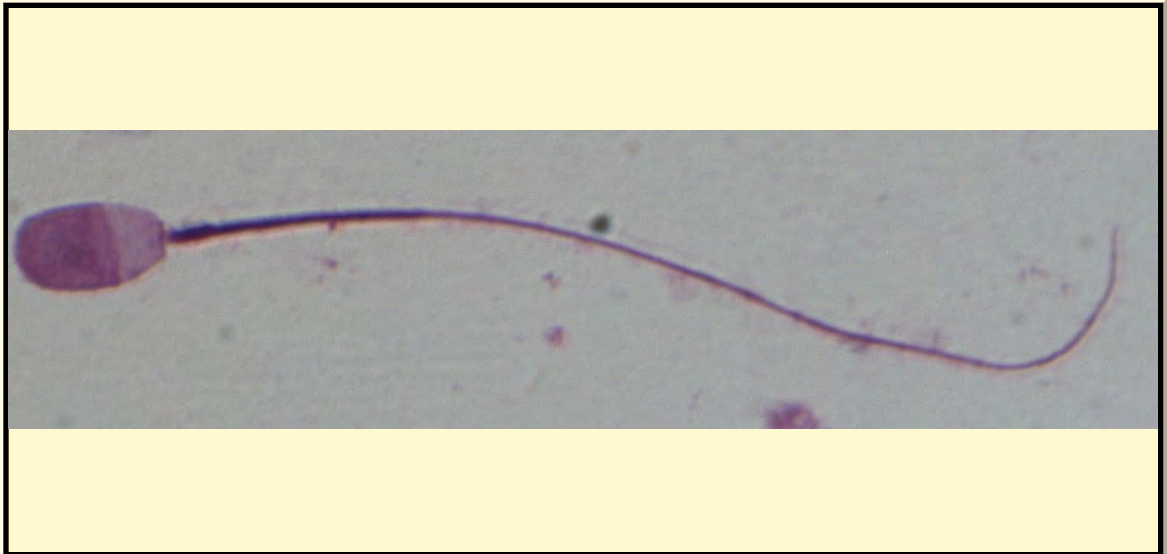


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SPERM ATLAS

COMMON NAME

Greater Kudu

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Bovinae

GENUS

Tragelaphus

SPECIES

Tragelaphus strepsiceros

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.70

Head Width

4.40

Midpiece Length

12.90

Tail Length

41.40

Measure Total

61.00

NOTES



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SPERM ATLAS

COMMON NAME

Nile Lechwe

PICTURE



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CLASS

Mammalia

RP NUMBER

16-025

ORDER

Artiodactyla

STAIN

Pope

SUBORDER

FAMILY

Bovidae

HEAD SHAPE

Paddle

SUBFAMILY

GENUS

Kobus

ANIMAL PICTURE

SPECIES

Kobus megaceros

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.80

Head Width

4.40

Midpiece Length

10.70

Tail Length

38.80

Measure Total

57.30

NOTES

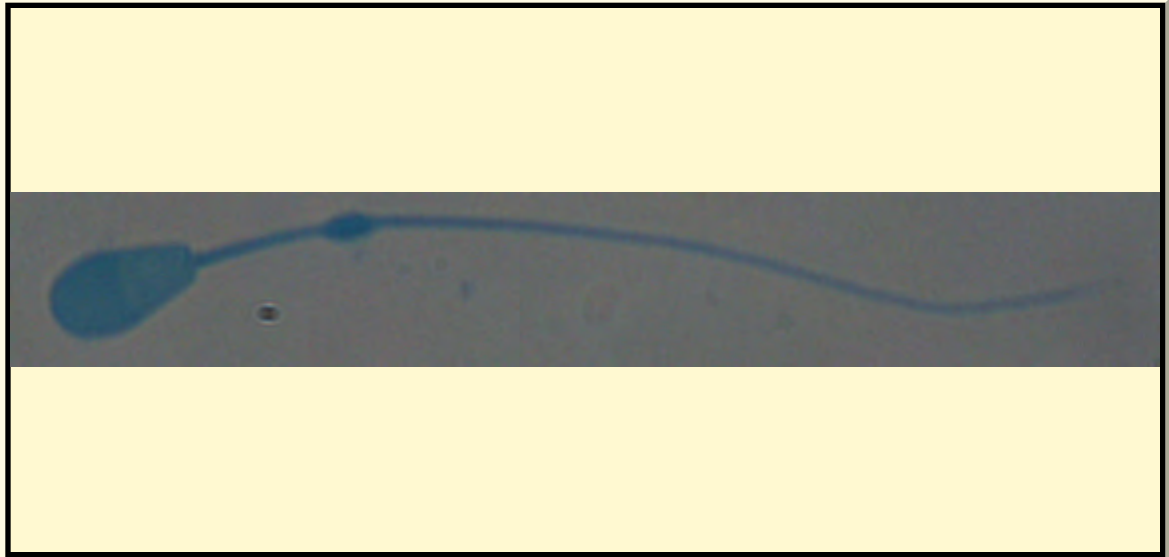


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SPERM ATLAS

COMMON NAME

Zambesi Lechwe

PICTURE



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CLASS

Mammalia

RP NUMBER

15-020

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Kobus

SPECIES

Kobus leche

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.40

Head Width

4.10

Midpiece Length

11.00

Tail Length

37.20

Measure Total

55.60



NOTES

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

L

PICTURE



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CLASS

Mammalia

RP NUMBER

16-025

ORDER

Artiodactyla

STAIN

Pope

SUBORDER

FAMILY

Bovidae

HEAD SHAPE

Paddle

SUBFAMILY

GENUS

Kobus

ANIMAL PICTURE

SPECIES

Kobus megaceros

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.80

Head Width

4.40

Midpiece Length

10.70

Tail Length

38.80

Measure Total

57.30

NOTES

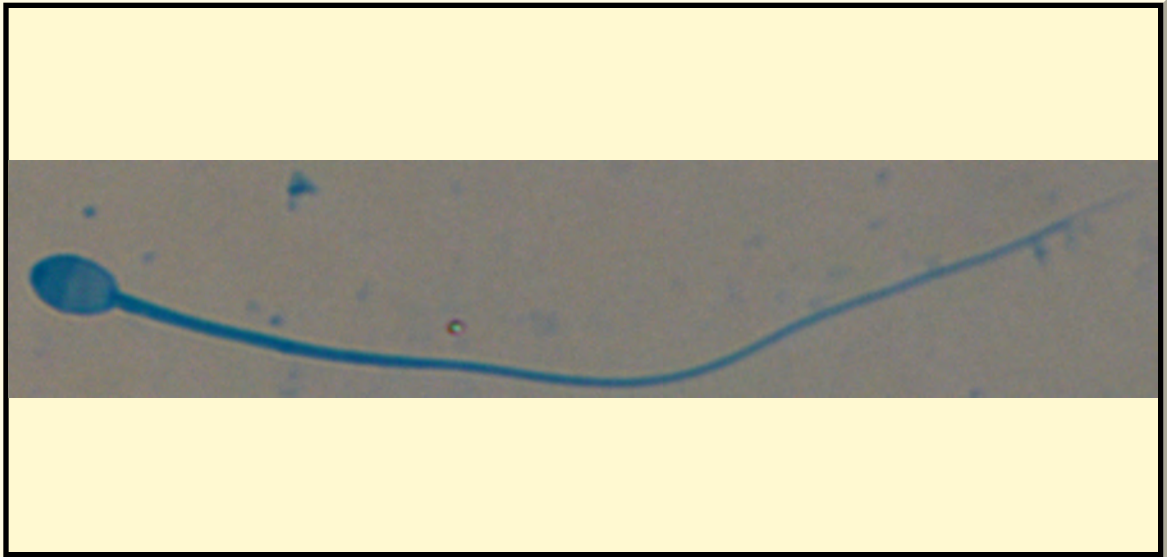


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SPERM ATLAS

COMMON NAME

L

PICTURE



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CLASS

Mammalia

RP

NUMBER

14-100

ORDER

Carnivora

STAIN

Pope

SUBORDER

FAMILY

Felidae

HEAD SHAPE

Oval

SUBFAMILY

GENUS

Panthera

ANIMAL PICTURE

SPECIES

P. Pardus Japonensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

4.00

Head Width

2.50

Midpiece Length

15.00

Tail Length

23.00

Measure Total

42.00

NOTES

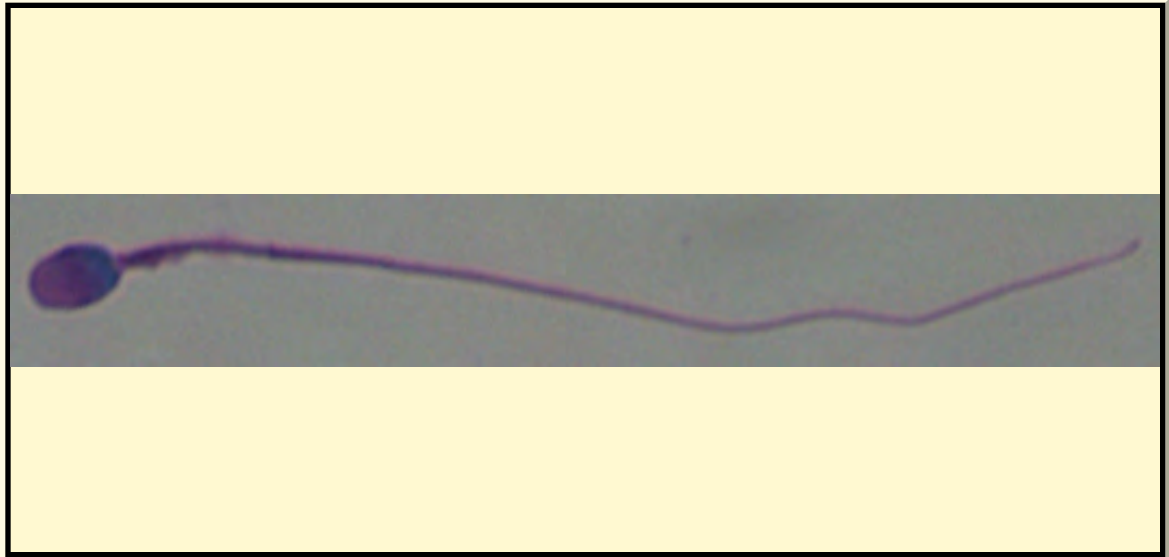


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SPERM ATLAS

COMMON NAME

Transvaal Lion

PICTURE



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CLASS

Mammalia

RP NUMBER

06-042

ORDER

Carnivora

STAIN

Giemsa

SUBORDER

Feliformia

HEAD SHAPE

Round

FAMILY

Felidae

ANIMAL PICTURE

SUBFAMILY

Felinae

GENUS

Panthera

SPECIES

P. leo

SUBSPECIES

P. leo krugeri

MEASUREMENTS (μm)

Head Length

4.20

Head Width

2.40

Midpiece Length

7.40

Tail Length

43.10

Measure Total

54.70

NOTES

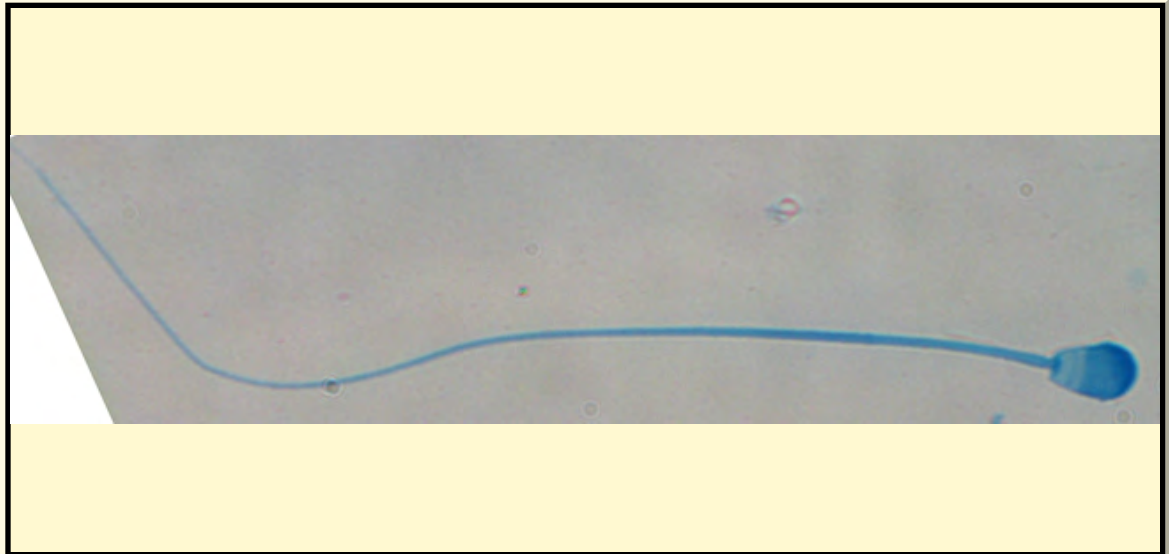


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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Pygmy Slow Loris

PICTURE



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CLASS

Mammalia

RP NUMBER

18-029

ORDER

Primates

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Round

FAMILY

Lorisidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Nycticebus

SPECIES

Nycticebus pygmaeus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.50

Head Width

4.25

Midpiece Length

6.25

Tail Length

79.00

Measure Total

48.75

NOTES

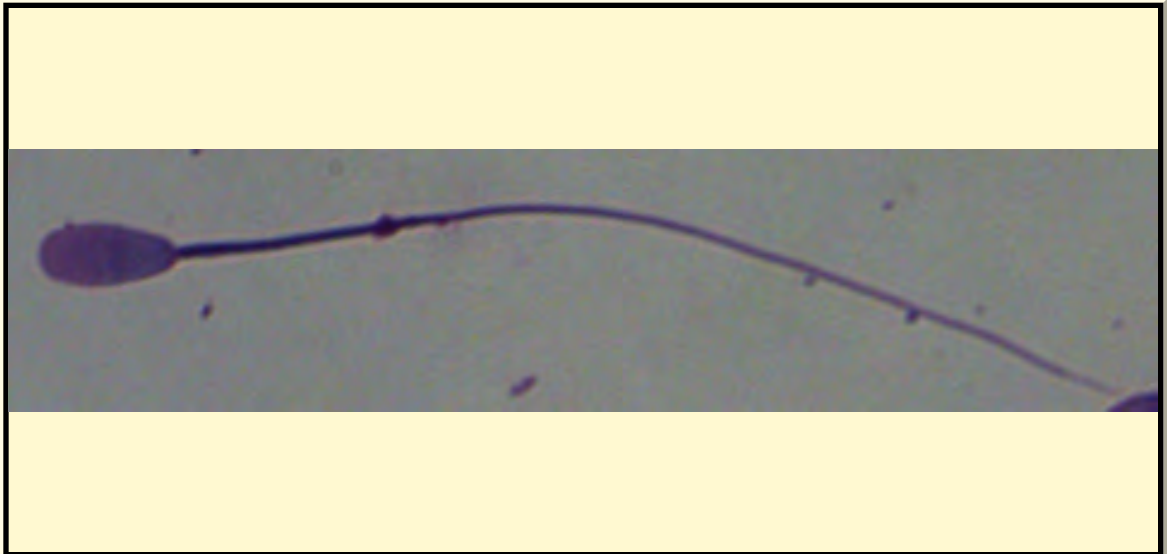


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SPERM ATLAS

COMMON NAME

North Indian Muntjac

PICTURE



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CLASS

Mammalia

RP NUMBER

15-096

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Cervinae

GENUS

Muntiacus

SPECIES

Muntiacus muntjak

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

5.60

Head Width

3.20

Midpiece Length

12.60

Tail Length

38.20

Measure Total

56.40



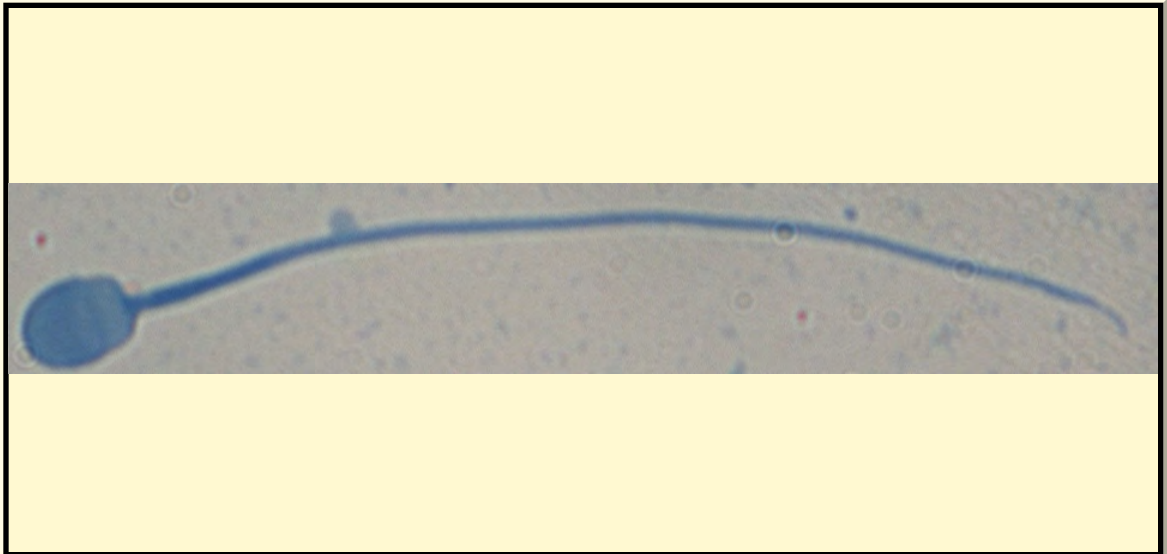
NOTES

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SPERM ATLAS

COMMON NAME

Giant Panda

PICTURE



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CLASS

Mammalia

RP NUMBER

11-022

ORDER

Carnivora

STAIN

Coomassie

SUBORDER

Caniformia

HEAD SHAPE

Round

FAMILY

Ursidae

ANIMAL PICTURE

SUBFAMILY

Ailuropodinae

GENUS

Ailuropoda

SPECIES

A. melanoleuca

SUBSPECIES

A. melanoleuca melanoleuc

MEASUREMENTS (μm)

Head Length

4.00

Head Width

2.80

Midpiece Length

12.05

Tail Length

34.73

Measure Total

50.78

NOTES



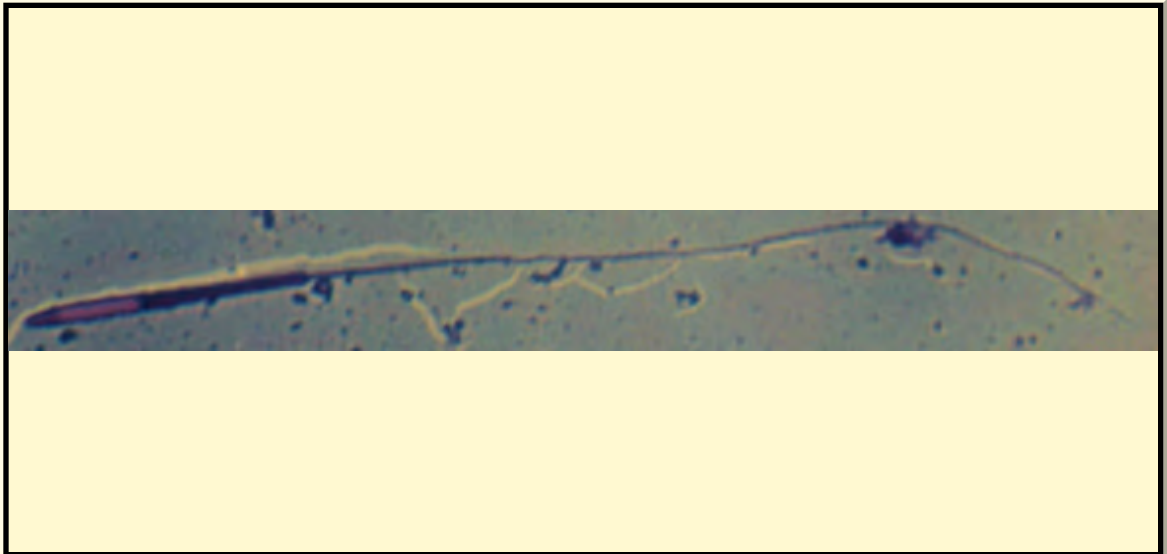
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SPERM ATLAS

COMMON NAME

White-Bellied Tree Pangolin

PICTURE



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CLASS

Mammalia

ORDER

Cimolesta

SUBORDER

Pholidota

FAMILY

Manidae

SUBFAMILY

Maninae

GENUS

Manis

SPECIES

M. tricuspis

SUBSPECIES

M. tricuspis tricuspis

RP NUMBER

16-196

STAIN

Pope

HEAD SHAPE

Filiform

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

6.00

Head Width

1.10

Midpiece Length

10.40

Tail Length

53.50

Measure Total

69.90

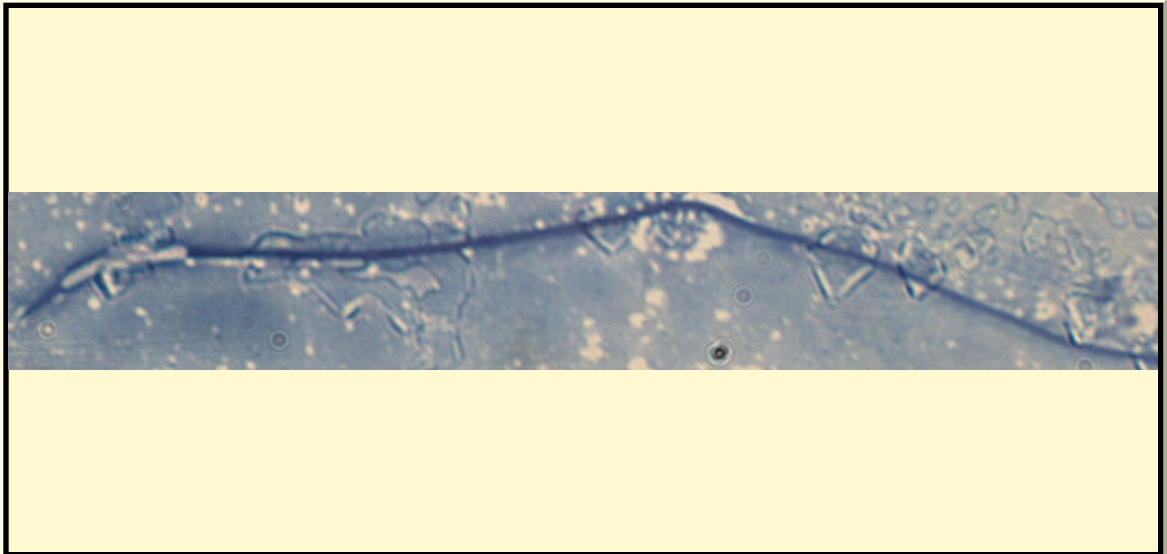
NOTES

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SPERM ATLAS

COMMON NAME

Burmese Python

PICTURE



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CLASS

Reptilia

RP NUMBER

13-024

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiformal

FAMILY

Pythonidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Python

SPECIES

Python molurus

SUBSPECIES

Python molurus bivittatus

MEASUREMENTS (μ m)

Head Length

13.80

Head Width

0.70

Midpiece Length

35.00

Tail Length

47.60

Measure Total

96.40

NOTES



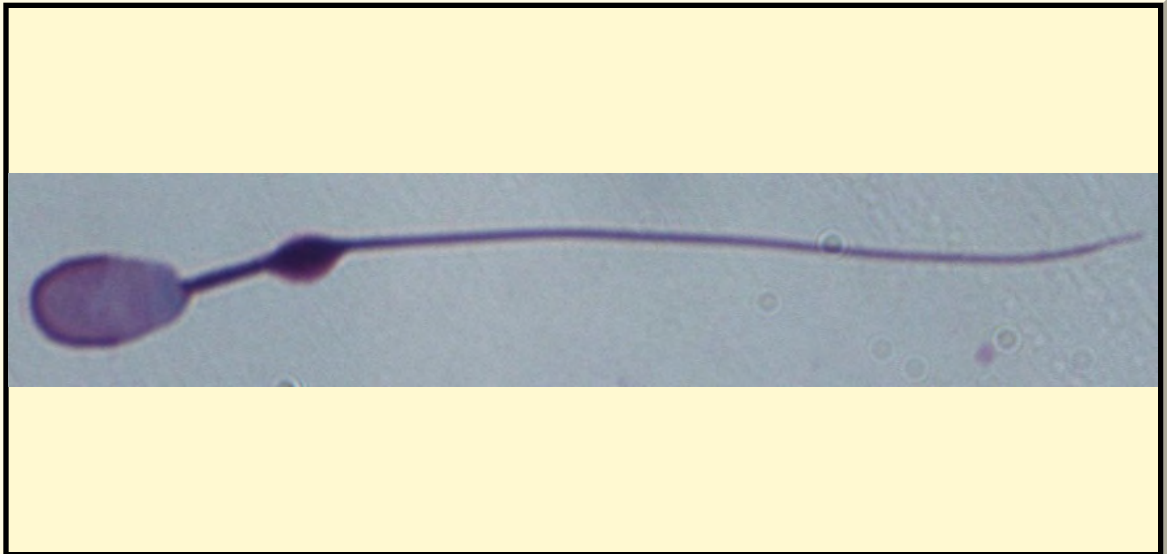
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SPERM ATLAS

COMMON NAME

Domestic Rabbit

PICTURE



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CLASS

Mammalia

RP NUMBER

12-068

ORDER

Lagomorpha

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Leporidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Oryctolagus

SPECIES

Oryctolagus cuniculus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.70

Head Width

3.90

Midpiece Length

8.10

Tail Length

34.30

Measure Total

49.10

NOTES



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SPERM ATLAS

COMMON NAME

Raccoon

PICTURE



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CLASS

Mammalia

ORDER

Carnivora

SUBORDER

FAMILY

Procyonidae

SUBFAMILY

GENUS

Procyon

SPECIES

Procyon lotor

SUBSPECIES

RP NUMBER

14-131

STAIN

Giemsa

HEAD SHAPE

Conical

ANIMAL PICTURE



MEASUREMENTS (μ m)

Head Length

6.80

Head Width

4.20

Midpiece Length

15.70

Tail Length

55.50

Measure Total

78.00

NOTES

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SPERM ATLAS

COMMON NAME

Red-headed Ratsnake

PICTURE



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CLASS

Reptilia

RP NUMBER

15-351

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Colubridae

SUBFAMILY

ANIMAL PICTURE

GENUS

Elaphe

SPECIES

Elaphe moellendorffi

SUBSPECIES

MEASUREMENTS (μm)

Head Length

9.70

Head Width

0.60

Midpiece Length

61.00

Tail Length

29.00

Measure Total

99.70



Photo: Rex Knight ©

NOTES

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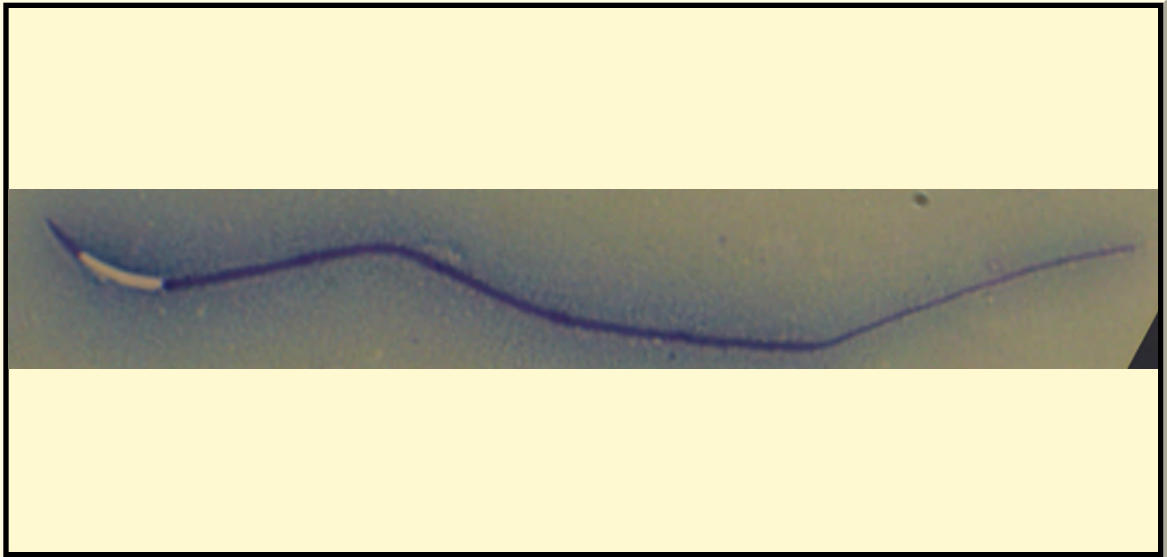
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SPERM ATLAS

COMMON NAME

Blacktail Rattlesnake

PICTURE



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CLASS

Reptilia

RP NUMBER

16-138

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Viperidae

ANIMAL PICTURE

SUBFAMILY

Crotalinae

GENUS

Crotalus

SPECIES

Crotalus molossus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.40

Head Width

0.70

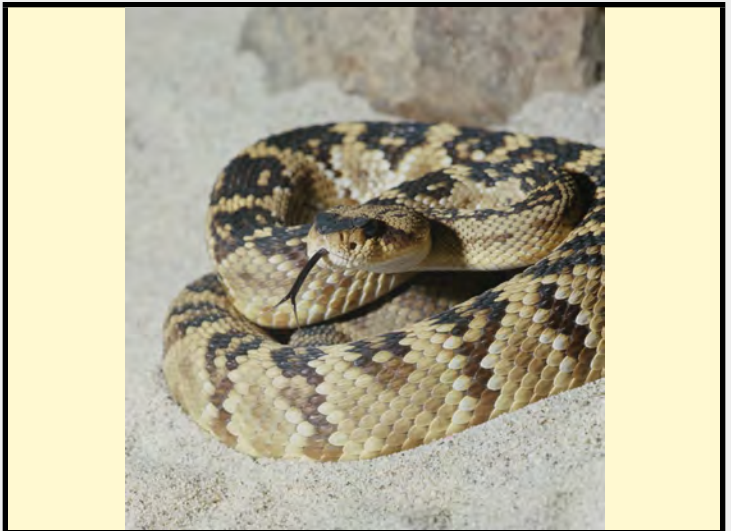
Midpiece Length

Tail Length

74.00

Measure Total

NOTES

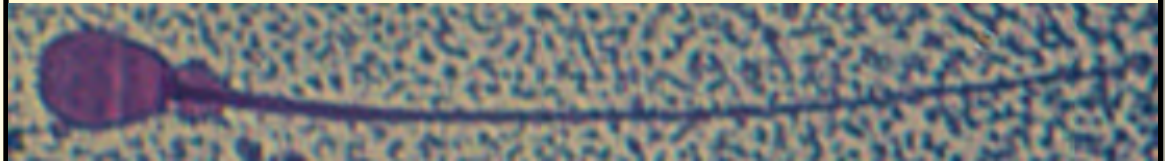


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SPERM ATLAS

COMMON NAME

Siberian Reindeer

PICTURE



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CLASS

Mammalia

RP NUMBER

16-178

ORDER

Artiodactyla

STAIN

Pope

SUBORDER

FAMILY

Cervidae

HEAD SHAPE

Round

SUBFAMILY

GENUS

Rangifer

ANIMAL PICTURE

SPECIES

Rangifer tarandus sibiricus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.00

Head Width

4.00

Midpiece Length

10.00

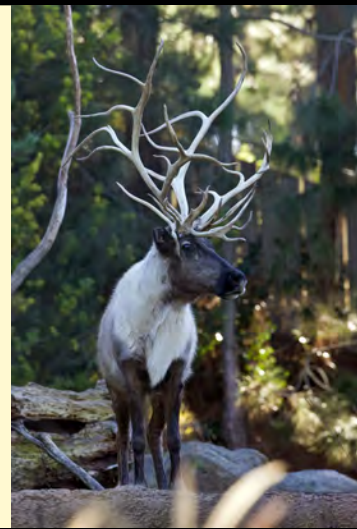
Tail Length

40.00

Measure Total

56.00

NOTES

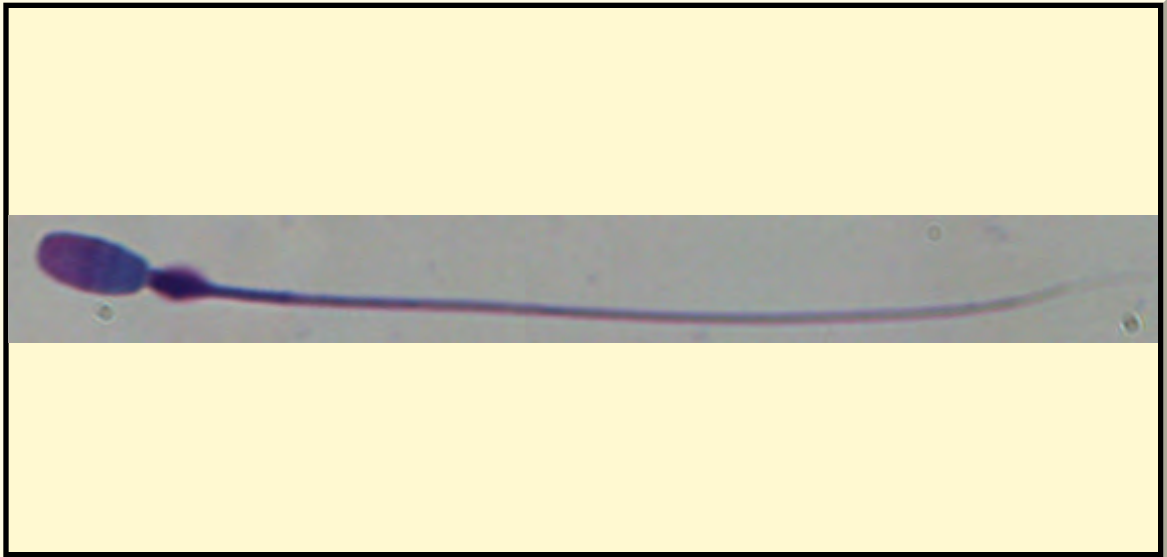


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SPERM ATLAS

COMMON NAME

East African Black Rhinoceros

PICTURE



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CLASS

Mammalia

RP NUMBER

15-335

ORDER

Perissodactyla

STAIN

Giemsa

SUBORDER

Ceratomorpha

HEAD SHAPE

Oval

FAMILY

Rhinocerotidae

ANIMAL PICTURE

SUBFAMILY

Rhinocerotinae

GENUS

Diceros

SPECIES

D. bicornis

SUBSPECIES

D. bicornis michaeli

MEASUREMENTS (μm)

Head Length

5.20

Head Width

2.10

Midpiece Length

7.40

Tail Length

35.30

Measure Total

47.90

NOTES

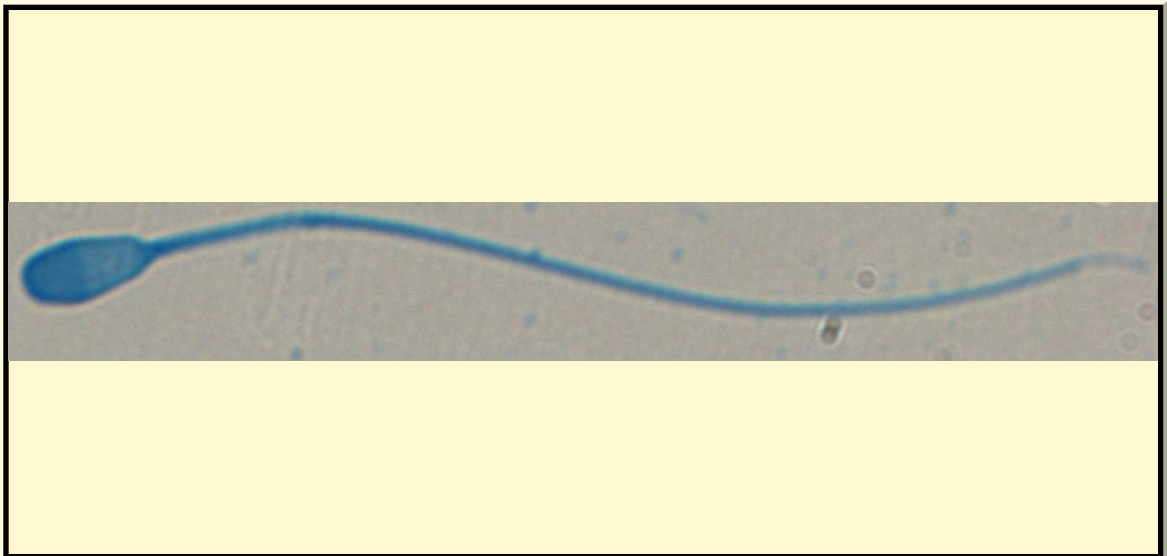


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SPERM ATLAS

COMMON NAME

Northern White Rhinoceros

PICTURE



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CLASS

Mammalia

RP NUMBER

14-193

ORDER

Perissodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Oval

FAMILY

Rhinocerotidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Ceratotherium

SPECIES

Ceratotherium simum

SUBSPECIES

Ceratotherium simum cottoni

MEASUREMENTS (μ m)

Head Length

5.00

Head Width

2.50

Midpiece Length

6.70

Tail Length

36.20

Measure Total

47.90



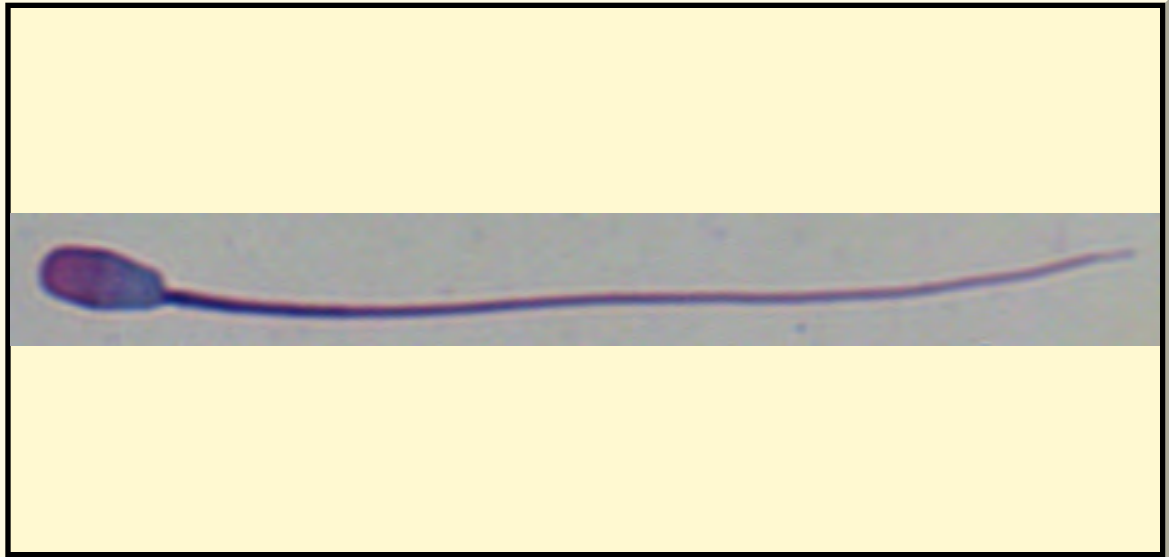
NOTES

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SPERM ATLAS

COMMON NAME

Southern White Rhinoceros

PICTURE



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CLASS

Mammalia

RP NUMBER

15-256

ORDER

Perissodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Oval

FAMILY

Rhinocerotidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Ceratotherium

SPECIES

Ceratotherium simum

SUBSPECIES

Ceratotherium simum simum

MEASUREMENTS (μ m)

Head Length

4.50

Head Width

2.30

Midpiece Length

7.80

Tail Length

32.10

Measure Total

44.40



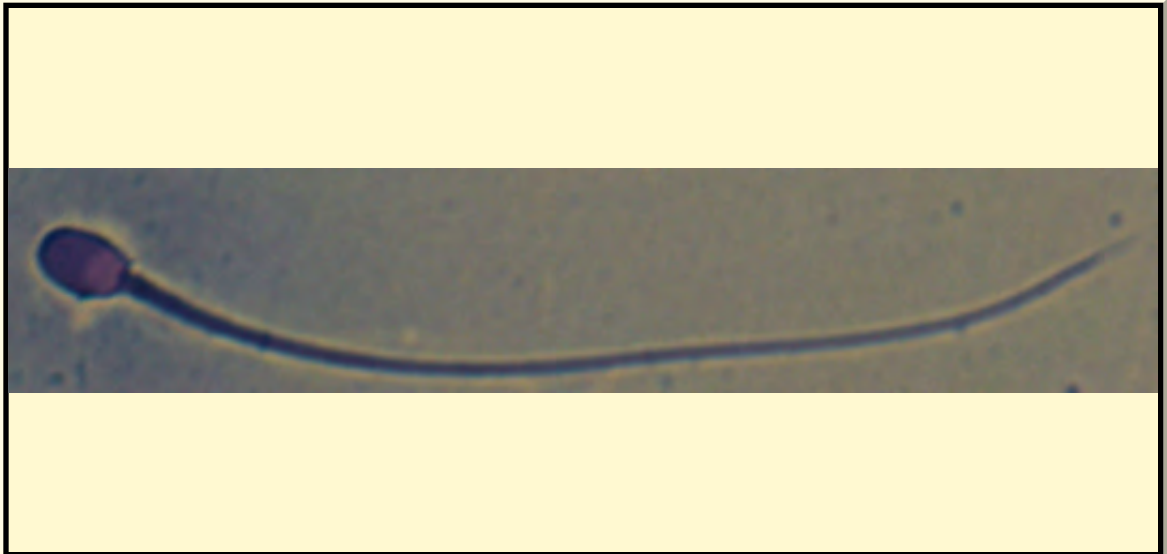
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SPERM ATLAS

COMMON NAME

Serval

PICTURE



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CLASS

Mammalia

ORDER

Carnivora

SUBORDER

FAMILY

Felidae

SUBFAMILY

Felinae

GENUS

Leptailurus

SPECIES

Leptailurus serval

SUBSPECIES

RP NUMBER

16-089

STAIN

Pope

HEAD SHAPE

Oval

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

3.80

Head Width

2.10

Midpiece Length

7.70

Tail Length

41.90

Measure Total

53.40

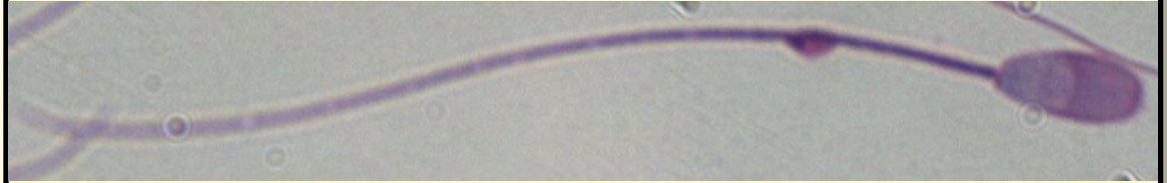
NOTES

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SPERM ATLAS

COMMON NAME

Sudan Barbary Sheep

PICTURE



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CLASS

Mammalia

RP NUMBER

08-021

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Caprinae

GENUS

Ammotragus

SPECIES

Ammotragus lervia

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.00

Head Width

3.70

Midpiece Length

14.93

Tail Length

36.40

Measure Total

58.33

NOTES



C

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SPERM ATLAS

COMMON NAME

Striped Skunk

PICTURE



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CLASS

Mammalia

RP NUMBER

16-023

ORDER

Carnivora

STAIN

Pope

SUBORDER

Caniformia

HEAD SHAPE

Round

FAMILY

Mephitidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Mephitis

SPECIES

Mephitis mephitis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.20

Head Width

6.30

Midpiece Length

11.40

Tail Length

70.00

Measure Total

87.60

NOTES



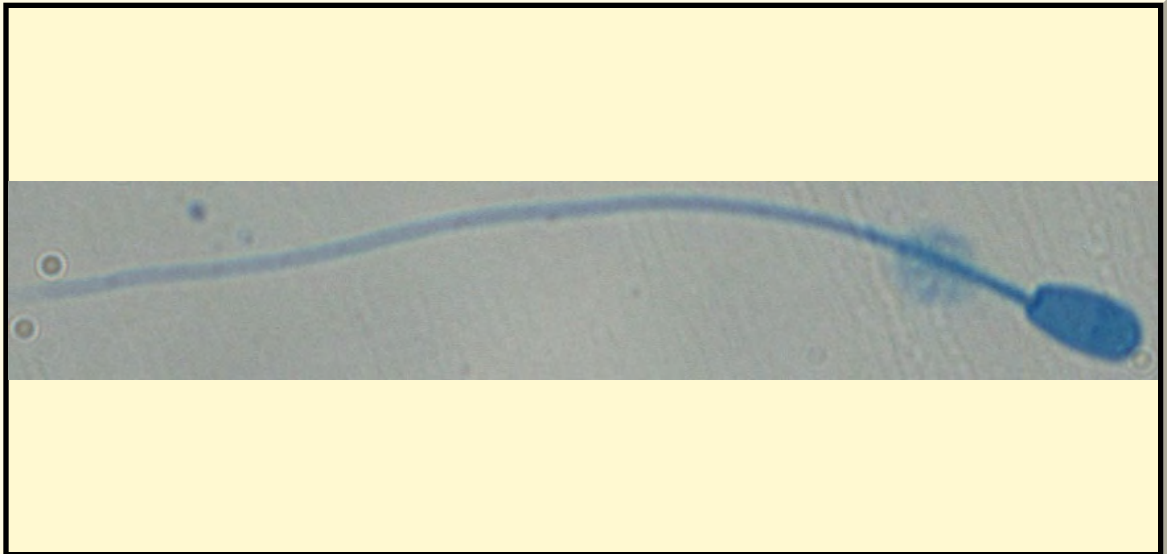
T

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SPERM ATLAS

COMMON NAME

South African Springbok

PICTURE



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CLASS

Mammalia

RP NUMBER

11-144

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Antilopinae

GENUS

Antidorcas

SPECIES

Antidorcas marsupialis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.60

Head Width

3.30

Midpiece Length

8.70

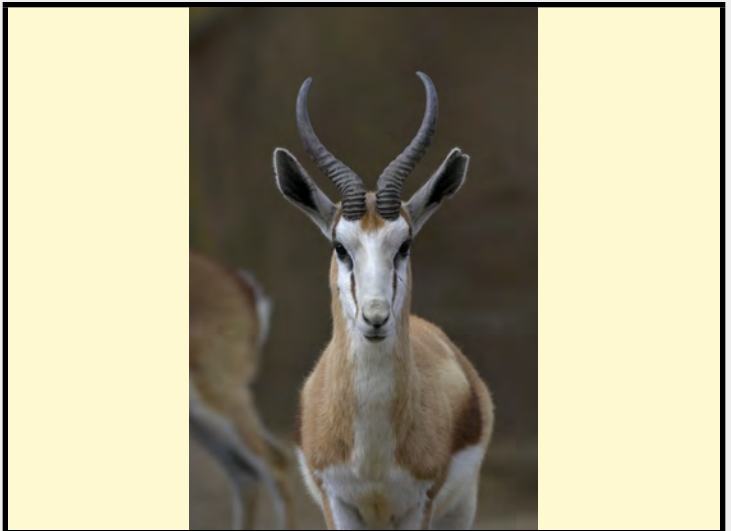
Tail Length

44.00

Measure Total

59.30

NOTES

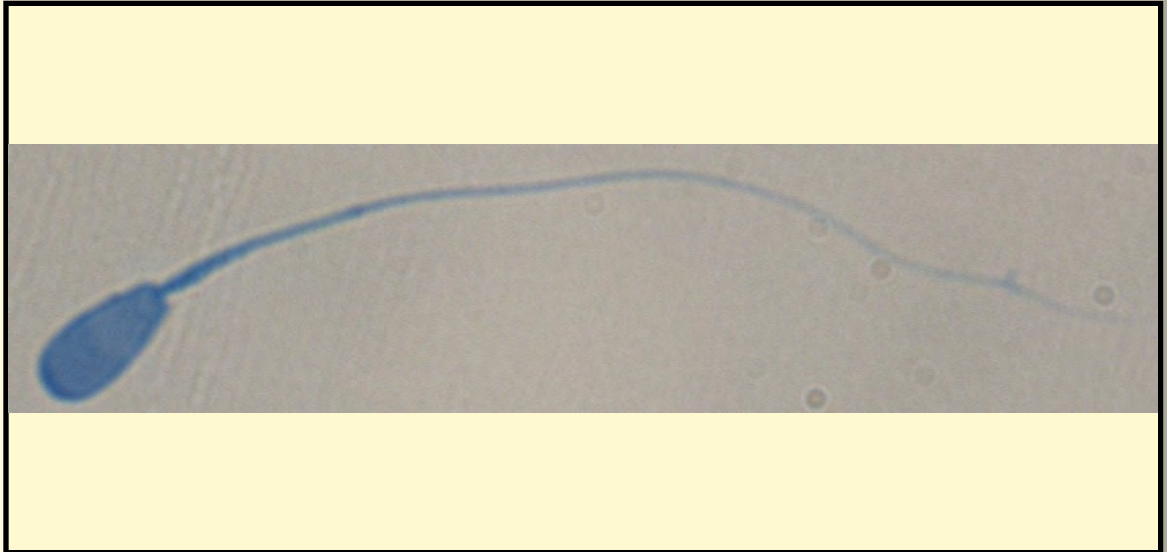


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SPERM ATLAS

COMMON NAME

Southern Steenbok

PICTURE



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CLASS

Mammalia

RP NUMBER

06-058

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Raphicerus

SPECIES

R. campestris

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.90

Head Width

3.40

Midpiece Length

9.60

Tail Length

28.20

Measure Total

44.70



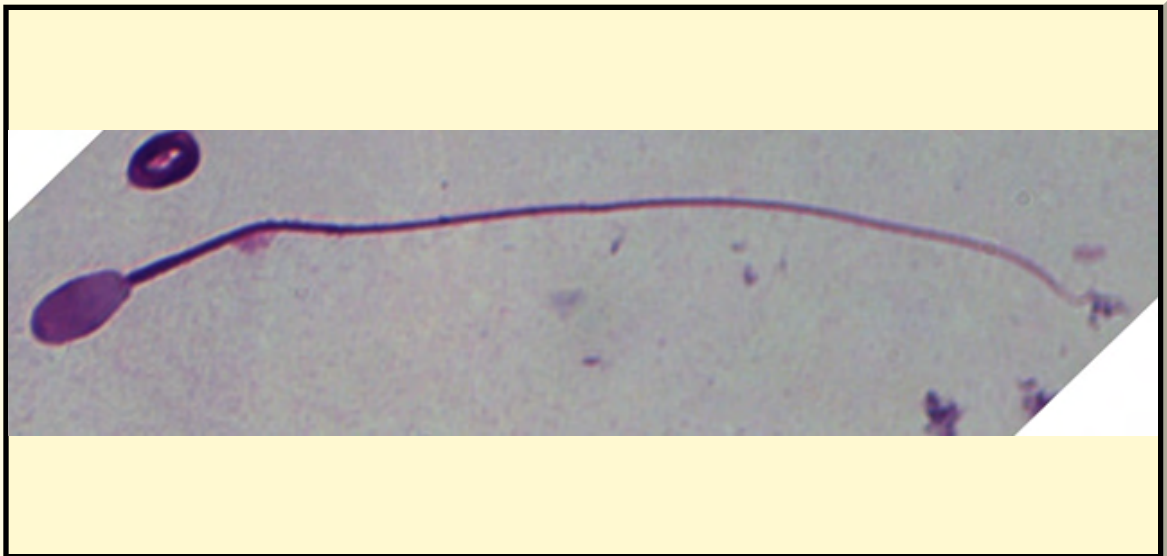
NOTES

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SPERM ATLAS

COMMON NAME

Sichuan Takin

PICTURE



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CLASS

Mammalia

RP NUMBER

08-051

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Caprinae

GENUS

Budorcas

SPECIES

B. taxicolor

SUBSPECIES

B. taxicolor tibetana

MEASUREMENTS (μm)

Head Length

6.90

Head Width

2.80

Midpiece Length

13.60

Tail Length

51.20

Measure Total

71.70

NOTES

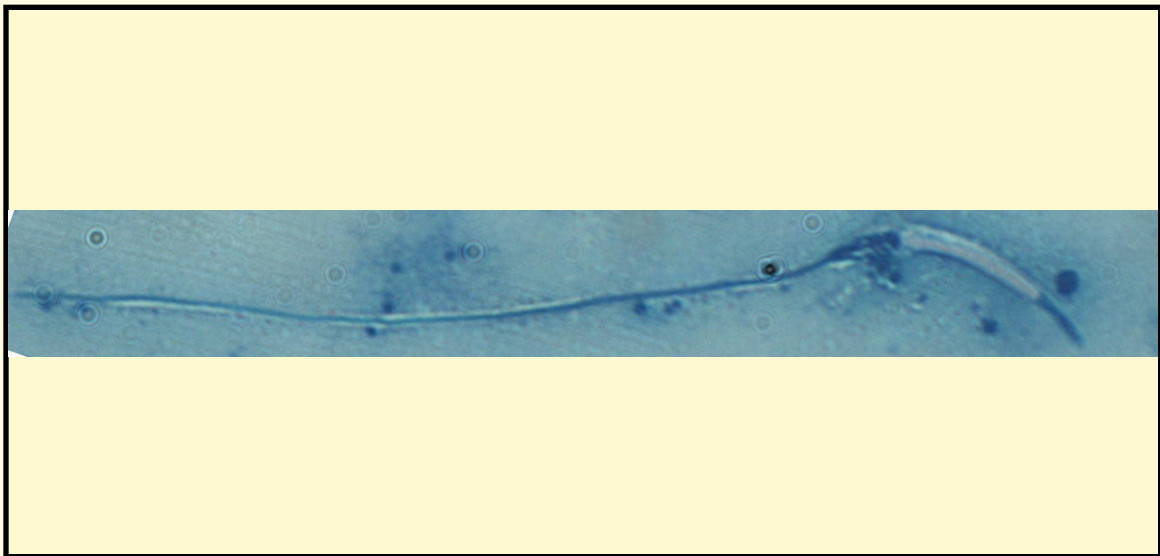


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SPERM ATLAS

COMMON NAME

Argentine Black and White Tegu

PICTURE



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CLASS

Reptilia

RP NUMBER

13-076

ORDER

Squamata

STAIN

Pope

SUBORDER

Lacertilia

HEAD SHAPE

Filiform

FAMILY

Teiidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Tupinambis

SPECIES

Tupinambis merianae

SUBSPECIES

MEASUREMENTS (μm)

Head Length

15.60

Head Width

0.80

Midpiece Length

4.30

Tail Length

57.70

Measure Total

77.60

NOTES



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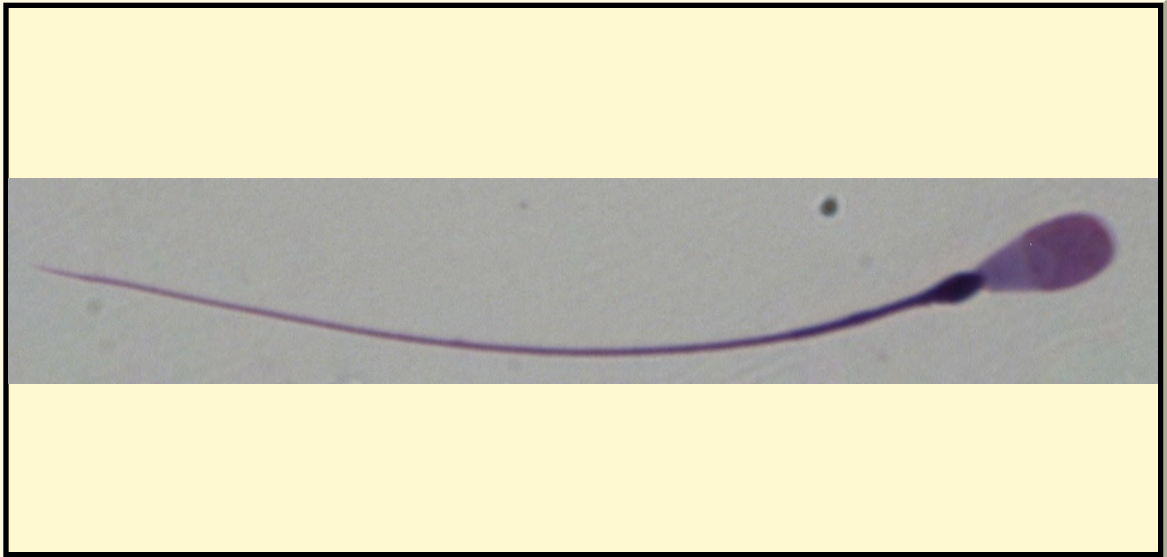
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SPERM ATLAS

COMMON NAME

Burmese Thamin

PICTURE



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CLASS

Mammalia

RP NUMBER

12-106

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Cervinae

GENUS

cervus

SPECIES

Rucervus eldii thamin

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.90

Head Width

3.60

Midpiece Length

14.10

Tail Length

44.80

Measure Total

65.80

NOTES



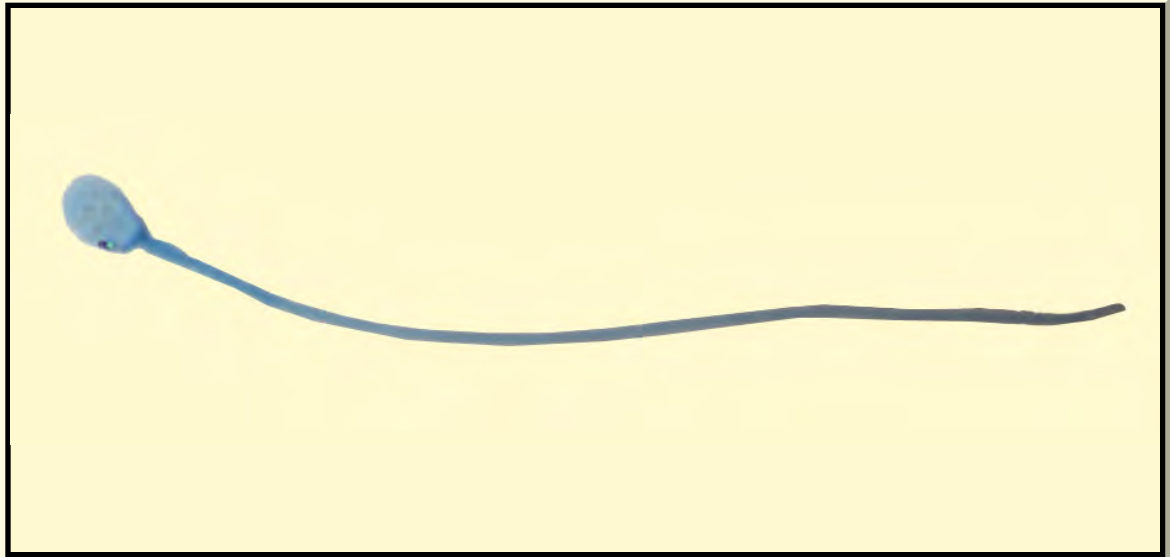
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SPERM ATLAS

COMMON NAME

Indochinese Tiger

PICTURE



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CLASS

Mammalia

RP NUMBER

04-131

ORDER

Carnivora

STAIN

Coomassie

SUBORDER

Feliformia

HEAD SHAPE

Round

FAMILY

Felidae

ANIMAL PICTURE

SUBFAMILY

Pantherinae

GENUS

Panthera

SPECIES

P. tigris

SUBSPECIES

P. tigris corbetti

MEASUREMENTS (μm)

Head Length

3.80

Head Width

2.60

Midpiece Length

7.30

Tail Length

39.80

Measure Total

50.90

NOTES



A

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SPERM ATLAS

COMMON NAME

Southern Rocky Mountain Boreal Toad

PICTURE



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CLASS

Amphibia

RP NUMBER

14-155

ORDER

Anura

STAIN

None

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Bufonidae

SUBFAMILY

GENUS

Bufo

ANIMAL PICTURE

SPECIES

Anaxyrus boreas

SUBSPECIES

Anaxyrus boreas boreas

MEASUREMENTS (µm)

Head Length

9.00

Head Width

0.75

Midpiece Length

Tail Length

12.00

Measure Total

NOTES



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SPERM ATLAS

COMMON NAME

Desert tortoise

PICTURE



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CLASS

Reptilia

RP NUMBER

13-234

ORDER

Testudines

STAIN

None

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Testudinidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Gopherus

SPECIES

Gopherus agassizii

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

14.90

Head Width

1.00

Midpiece Length

4.30

Tail Length

44.70

Measure Total

63.90



NOTES

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SPERM ATLAS

COMMON NAME

West African Mud Turtle

PICTURE



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CLASS

Reptilia

RP NUMBER

16-127

ORDER

Testudines

STAIN

Pope

SUBORDER

Pleurodira

HEAD SHAPE

Filiform

FAMILY

Pelomedusidae

SUBFAMILY

GENUS

Pelusios

ANIMAL PICTURE

SPECIES

Pelusios castaneus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

15.10

Head Width

0.90

Midpiece Length

5.60

Tail Length

41.70

Measure Total

63.30



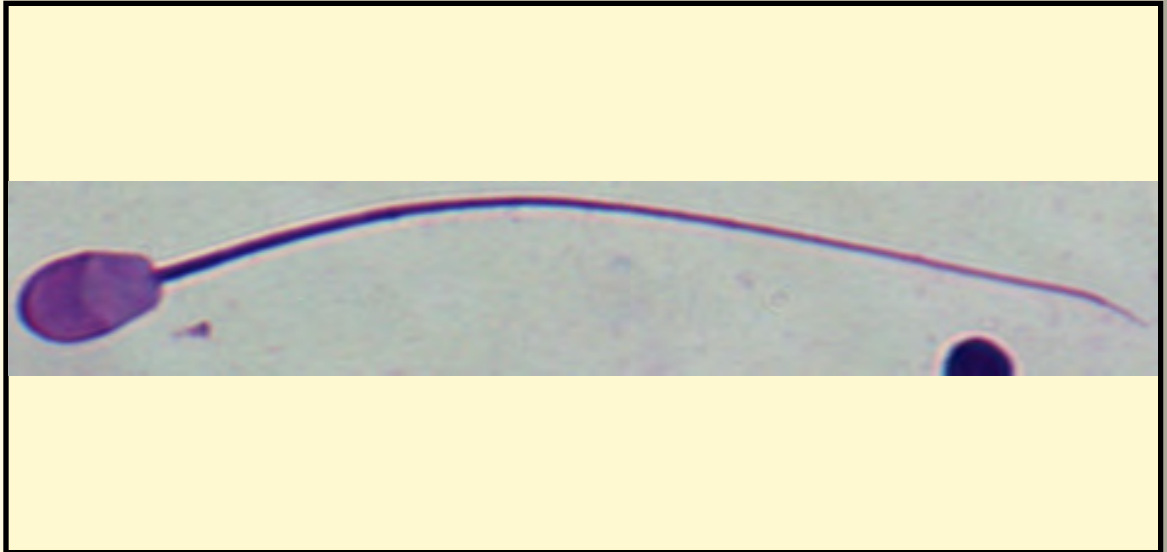
NOTES

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SPERM ATLAS

COMMON NAME

Transcaspian Urial

PICTURE



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CLASS

Mammalia

RP NUMBER

14-277

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Caprinae

GENUS

Ovis

SPECIES

Ovis aries

SUBSPECIES

Ovis aris arkal

MEASUREMENTS (μm)

Head Length

7.20

Head Width

4.00

Midpiece Length

12.10

Tail Length

41.10

Measure Total

60.40

NOTES

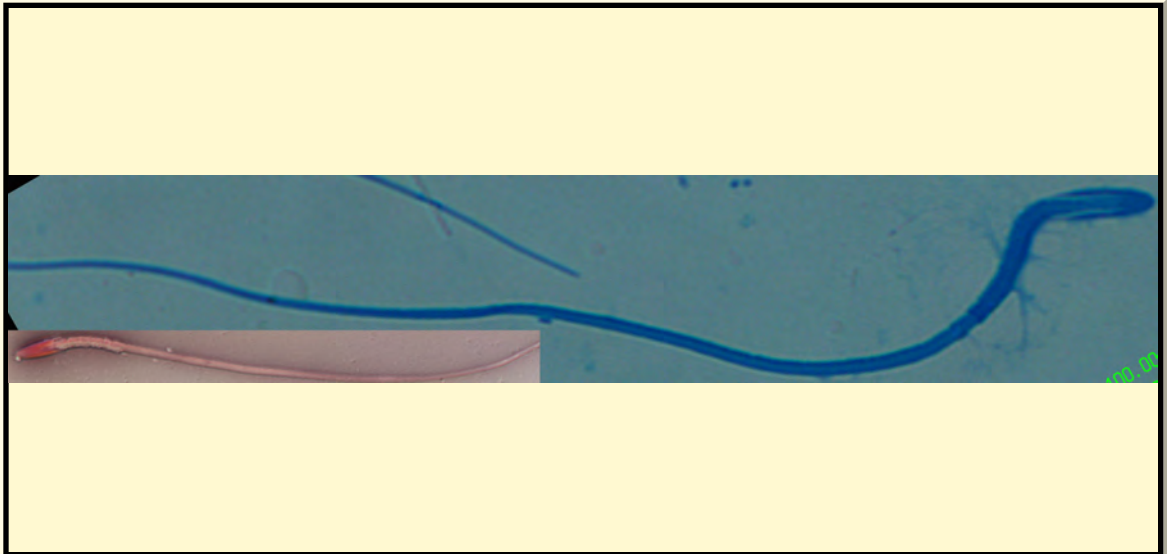


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SPERM ATLAS

COMMON NAME

Parma Wallaby

PICTURE



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CLASS

Mammalia

RP NUMBER

91-357

ORDER

Diprotodontia

STAIN

Coomassie and Pap

SUBORDER

Macropodiformes

HEAD SHAPE

Oval

FAMILY

Macropodidae

ANIMAL PICTURE

SUBFAMILY

Macropodinae

GENUS

Macropus

SPECIES

Macropus parma

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.80

Head Width

2.00

Midpiece Length

12.40

Tail Length

90.60

Measure Total

110.80

NOTES



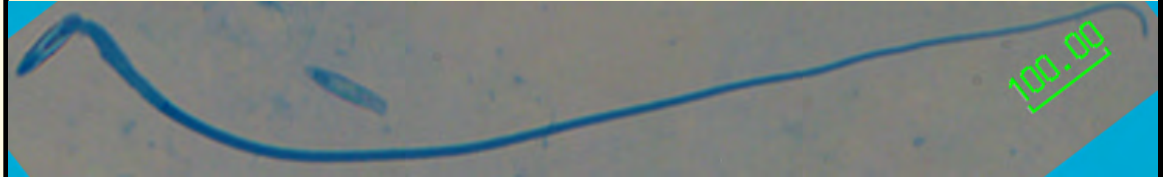
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SPERM ATLAS

COMMON NAME

Southern Yellow-footed Rock Wallaby

PICTURE



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CLASS

Mammalia

RP NUMBER

15-011

ORDER

Diprotodontia

STAIN

Coomassie

SUBORDER

FAMILY

Macropodidae

HEAD SHAPE

Oval

SUBFAMILY

GENUS

Petrogale

ANIMAL PICTURE

SPECIES

Petrogale xanthopus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.00

Head Width

3.60

Midpiece Length

11.10

Tail Length

85.90

Measure Total

104.00



NOTES

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SPERM ATLAS

COMMON NAME

Bactrian Wapiti

PICTURE



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CLASS

Mammalia

RP NUMBER

07-208

ORDER

Artiodactyla

STAIN

Giemsa

SUBORDER

Ruminantia

HEAD SHAPE

Paddle

FAMILY

Cervidae

ANIMAL PICTURE

SUBFAMILY

Cervinae

GENUS

Cervus

SPECIES

C. elaphus

SUBSPECIES

C. elaphus bactrianus

MEASUREMENTS (μ m)

Head Length

7.50

Head Width

4.00

Midpiece Length

10.50

Tail Length

38.90

Measure Total

56.90

NOTES



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SPERM ATLAS

COMMON NAME

Lake Victoria Defassa Waterbuck

PICTURE



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CLASS

Mammalia

RP NUMBER

16-098

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Kobus

SPECIES

Kobus ellipsiprymnus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.90

Head Width

4.50

Midpiece Length

10.80

Tail Length

40.60

Measure Total

58.30

NOTES

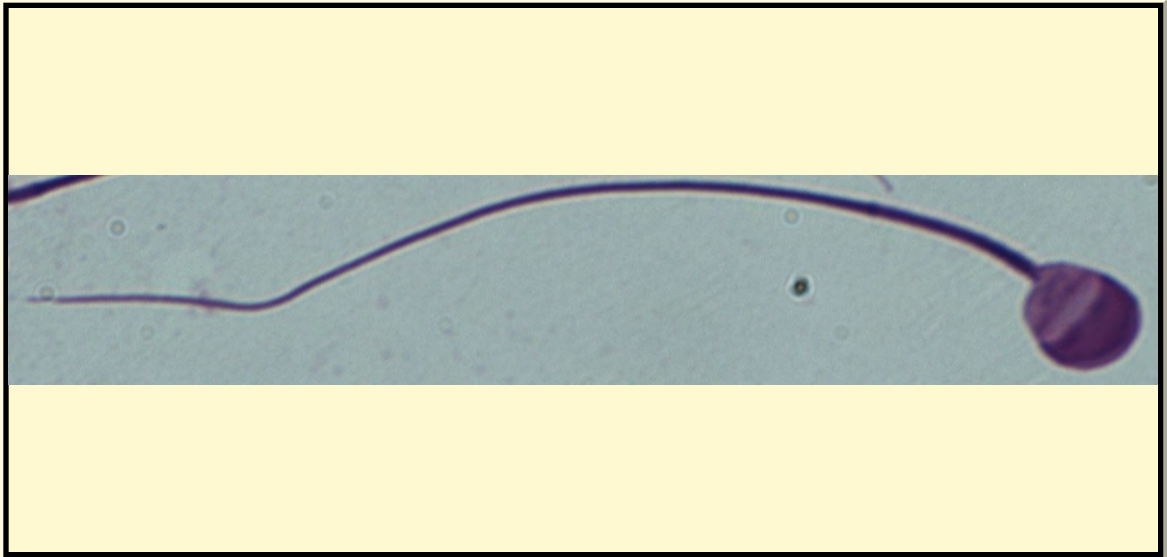


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SPERM ATLAS

COMMON NAME

Long-tailed Weasel

PICTURE



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CLASS

Mammalia

RP NUMBER

13-083

ORDER

Carnivora

STAIN

Giemsa

SUBORDER

HEAD SHAPE

Round

FAMILY

Mustelidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Mustela

SPECIES

Mustela frenata

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.30

Head Width

4.70

Midpiece Length

11.20

Tail Length

50.20

Measure Total

67.70

NOTES



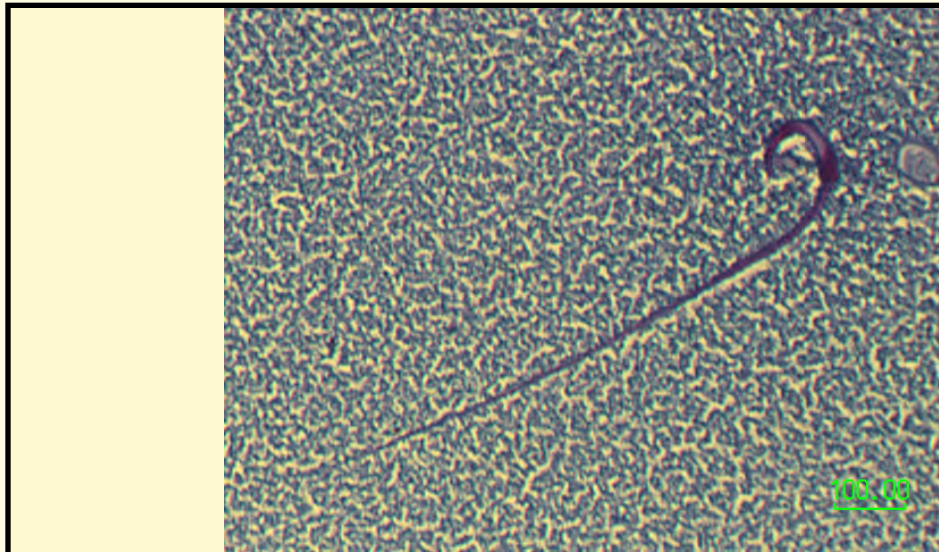
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SPERM ATLAS

COMMON NAME

Southern Hairy-Nosed Wombat

PICTURE



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CLASS

Mammalia

RP NUMBER

15-114

ORDER

Diprotodontia

STAIN

Pope

SUBORDER

FAMILY

Vombatidae

HEAD SHAPE

Sickle

SUBFAMILY

GENUS

Lasiorhinus

ANIMAL PICTURE

SPECIES

Lasiorhinus latifrons

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.30

Head Width

3.00

Midpiece Length

15.30

Tail Length

51.60

Measure Total

77.20

NOTES

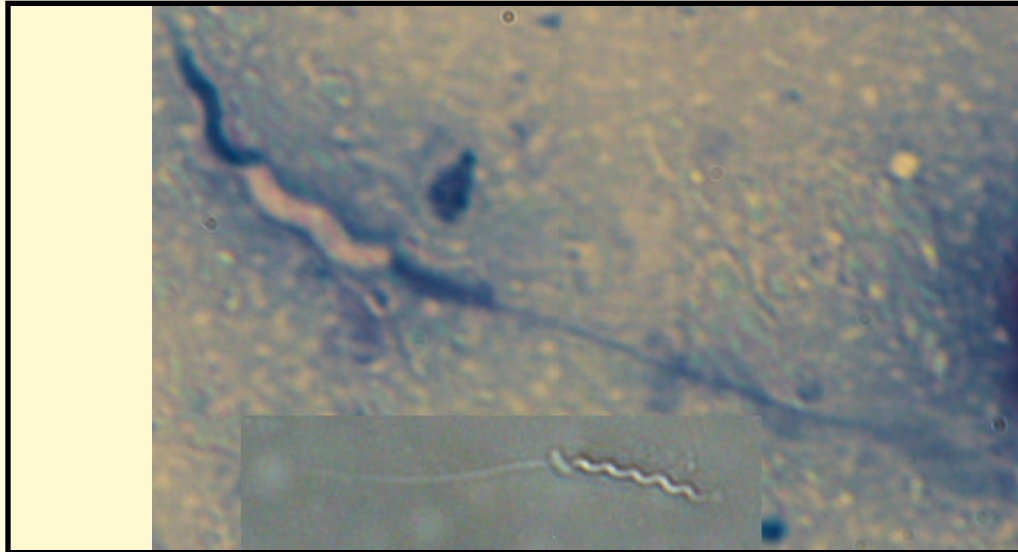


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SPERM ATLAS

COMMON NAME

White Breasted Woodswallow

PICTURE



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CLASS

Aves

RP NUMBER

15-071

ORDER

Passeriformes

STAIN

Pope and No stain

SUBORDER

HEAD SHAPE

Helical

FAMILY

Artamidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Artamus

SPECIES

Artamus leucorhynchus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.70

Head Width

0.80

Midpiece Length

2.00

Tail Length

49.80

Measure Total

62.50

NOTES



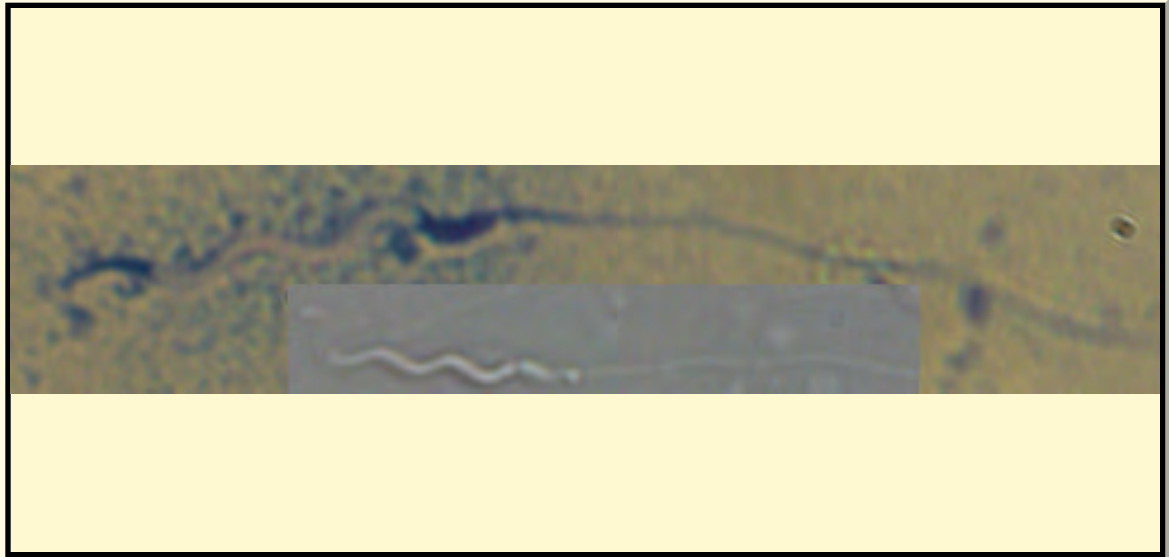
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SPERM ATLAS

COMMON NAME

Andean Cock of the Rock

PICTURE



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CLASS

Aves

RP NUMBER

15-137

ORDER

Passeriformes

STAIN

Pope and No stain

SUBORDER

HEAD SHAPE

Helical

FAMILY

Cotingidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Rupicola

SPECIES

Rupicola peruvianus

SUBSPECIES

MEASUREMENTS (µm)

Head Length

15.00

Head Width

1.00

Midpiece Length

5.00

Tail Length

26.00

Measure Total

46.00



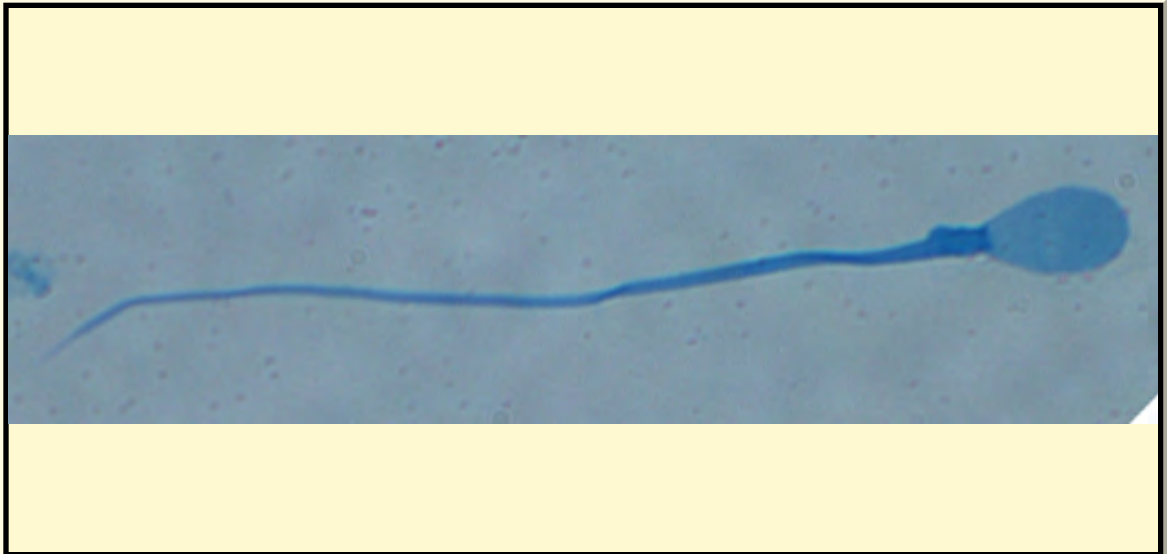
NOTES

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SPERM ATLAS

COMMON NAME

Eastern Giant Eland

PICTURE



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CLASS

Mammalia

RP NUMBER

17-120

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Taurotragus

SPECIES

Taurotragus derbianus gigas

SUBSPECIES

MEASUREMENTS (μm)

Head Length

8.30

Head Width

3.70

Midpiece Length

13.80

Tail Length

47.80

Measure Total

69.90

NOTES

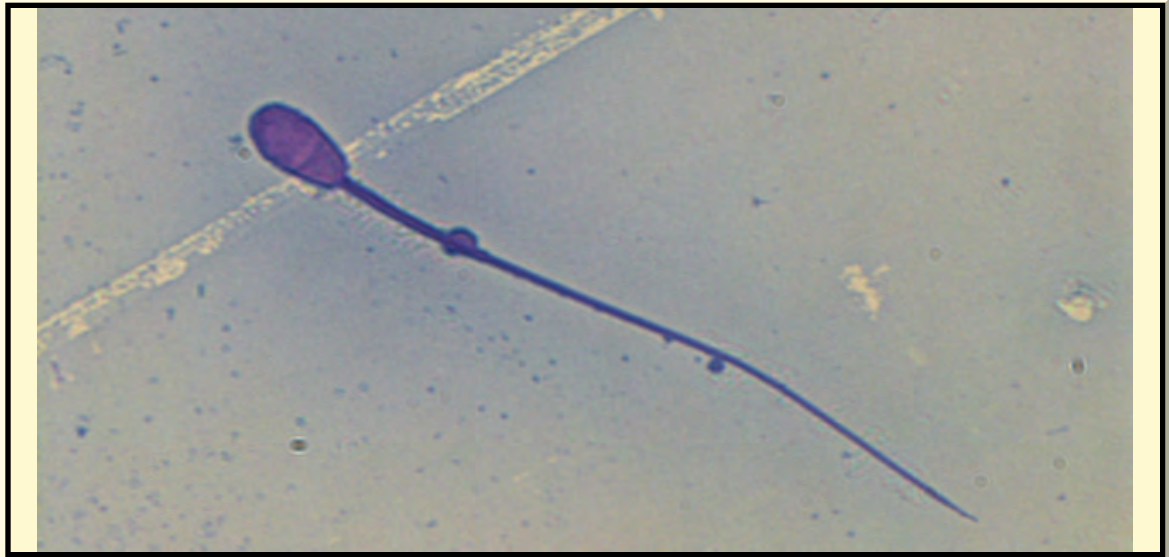


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SPERM ATLAS

COMMON NAME

Turkomen Markhor

PICTURE



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CLASS

Mammalia

RP NUMBER

04-026

ORDER

Artiodactyla

STAIN

Pope

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Caprinae

GENUS

Capra

SPECIES

C. falconeri

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.80

Head Width

3.60

Midpiece Length

12.00

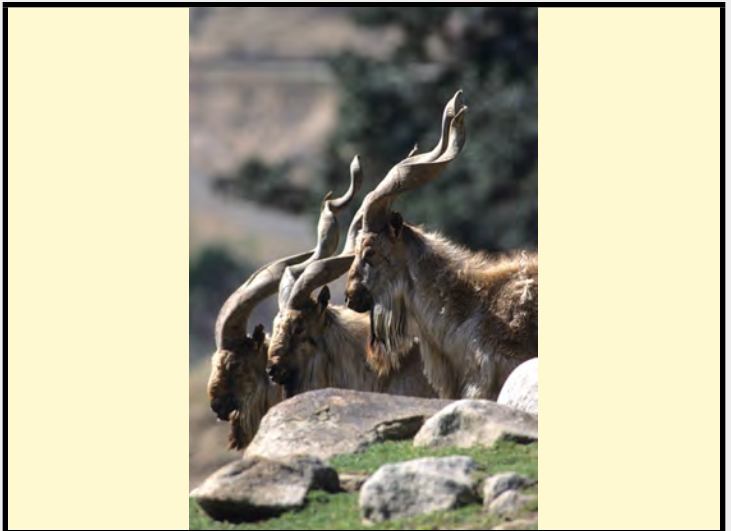
Tail Length

41.90

Measure Total

60.70

NOTES

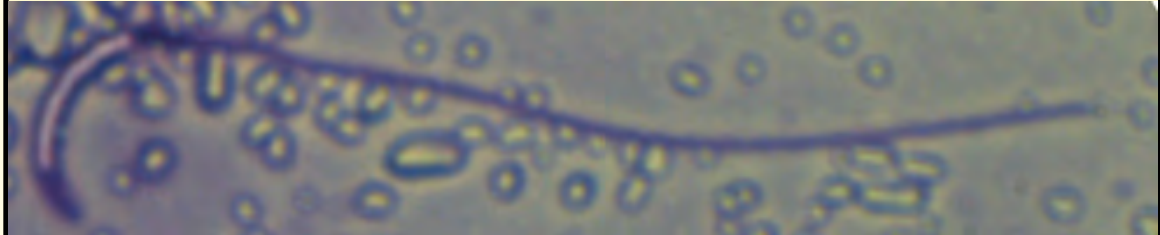


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SPERM ATLAS

COMMON NAME

Mexican Beaded Lizard

PICTURE



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CLASS

Reptilia

RP NUMBER

17-123

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Helodermatidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Heloderma

SPECIES

Heloderma horridum

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

10.00

Head Width

1.75

Midpiece Length

4.00

Tail Length

53.00

Measure Total

67.00

NOTES



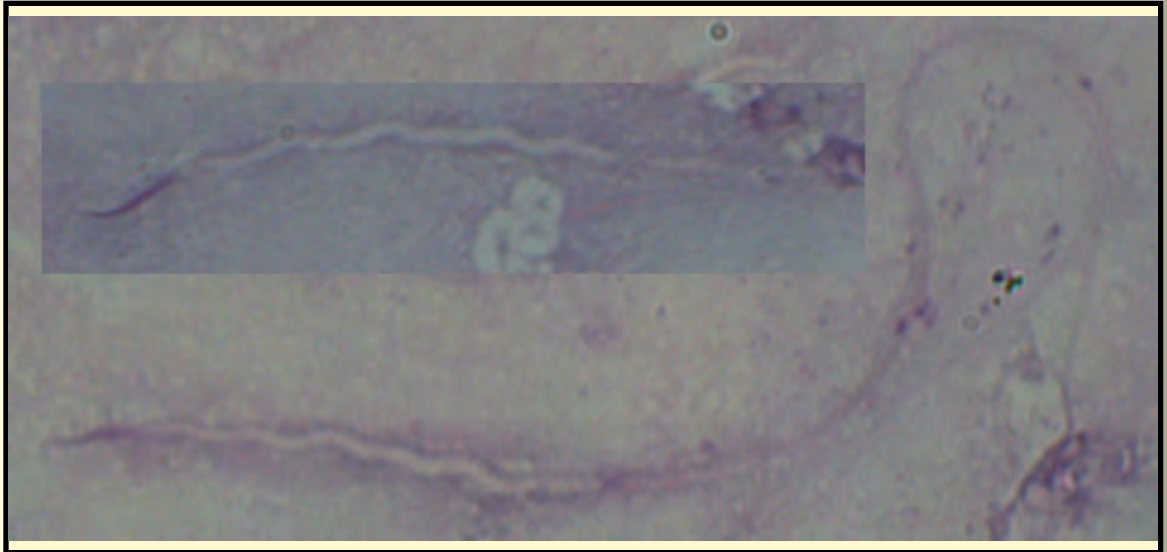
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SPERM ATLAS

COMMON NAME

Grey Smooth-hound (Shark)

PICTURE



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CLASS

Chondrichthyes

RP NUMBER

ORDER

Carcharhiniformes

STAIN

Pap

SUBORDER

FAMILY

Triakidae

HEAD SHAPE

Helical

SUBFAMILY

GENUS

Mustelus

ANIMAL PICTURE

SPECIES

Mustelus californicus

SUBSPECIES

MEASUREMENTS (µm)

Head Length

33.00

Head Width

1.00

Midpiece Length

Tail Length

87.00

Measure Total

120.00

NOTES



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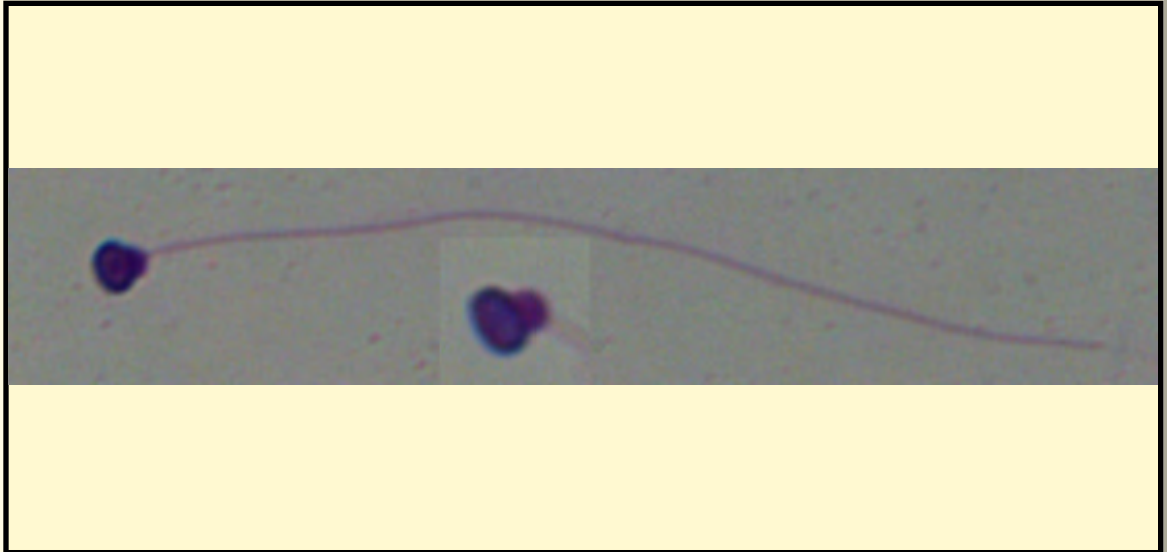
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SPERM ATLAS

COMMON NAME

Pilchard (Sardine)

PICTURE



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CLASS

Actinopterygii

ORDER

Clupeiformes

SUBORDER

FAMILY

Clupeidae

SUBFAMILY

GENUS

Sardinops

SPECIES

Sardinops sagax

SUBSPECIES

RP NUMBER

STAIN

Pinacyanol Chloride

HEAD SHAPE

Round

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

2.00

Head Width

2.00

Midpiece Length

Tail Length

42.00

Measure Total

44.00

NOTES

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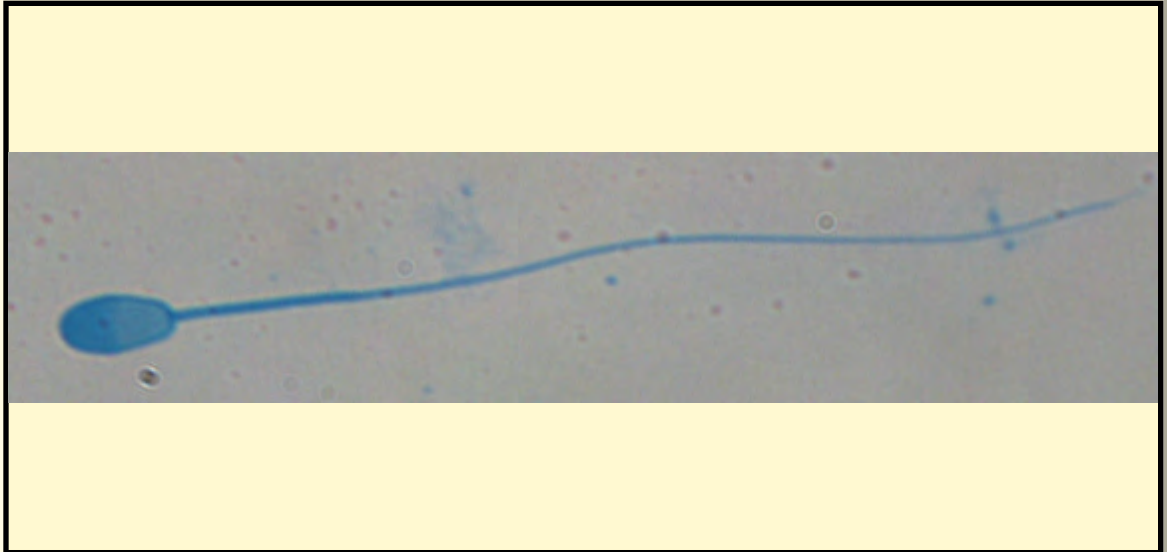
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SPERM ATLAS

COMMON NAME

African Bush Elephant

PICTURE



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CLASS

Mammalia

RP NUMBER

06-170

ORDER

Proboscidea

STAIN

Coomassie

SUBORDER

Thethytheria

HEAD SHAPE

Oval

FAMILY

Elephantidae

ANIMAL PICTURE

SUBFAMILY

Elephantinae

GENUS

Loxodonta

SPECIES

L. africana

SUBSPECIES

L. africana africana

MEASUREMENTS (μm)

Head Length

7.00

Head Width

3.25

Midpiece Length

13.50

Tail Length

40.00

Measure Total

60.50

NOTES

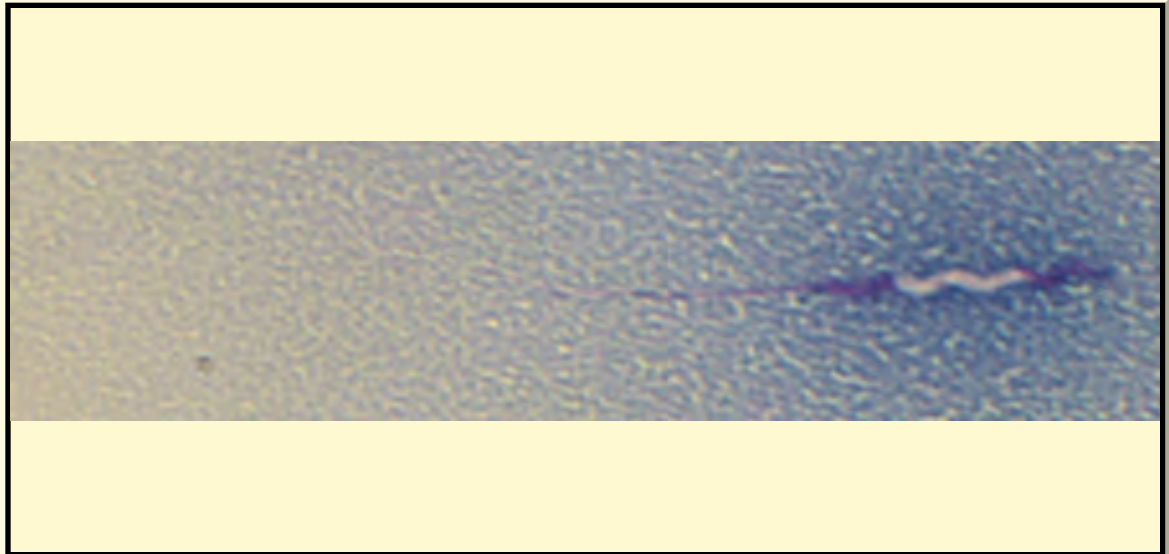


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SPERM ATLAS

COMMON NAME

Superb Bird of Paradise

PICTURE



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CLASS

Aves

RP NUMBER

18-063

ORDER

Passeriformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Helical

FAMILY

Paradisaeidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Lophorina

SPECIES

Lophorina superba

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

1.00

Midpiece Length

3.00

Tail Length

34.00

Measure Total

48.00



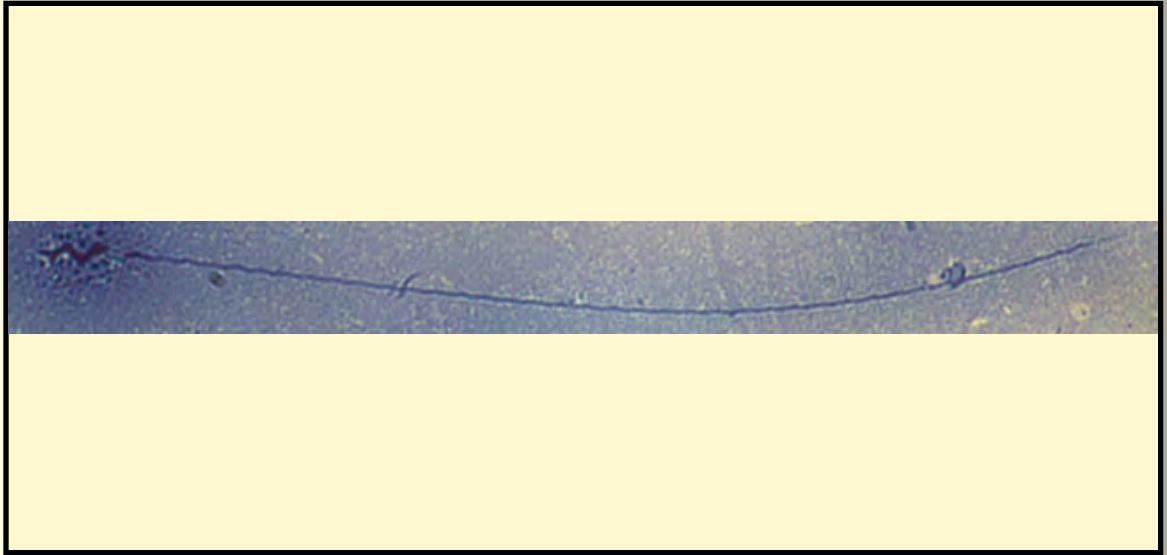
NOTES

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SPERM ATLAS

COMMON NAME

Canary

PICTURE



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CLASS

Aves

RP NUMBER

18-062

ORDER

Passeriformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Helical

FAMILY

Fringillidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Serinus

SPECIES

Serinus canaria

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

14.00

Head Width

1.00

Midpiece Length

4.00

Tail Length

Measure Total

NOTES



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SPERM ATLAS

COMMON NAME

Arctic Fox

PICTURE



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CLASS

Mammalia

ORDER

Carnivora

SUBORDER

FAMILY

Canidae

SUBFAMILY

GENUS

Vulpes

SPECIES

Vulpes lagophus

SUBSPECIES

RP NUMBER

16-137

STAIN

Coomassie

HEAD SHAPE

Oval

ANIMAL PICTURE



MEASUREMENTS (μm)

Head Length

6.00

Head Width

3.70

Midpiece Length

Tail Length

52.00

Measure Total

58.00

NOTES

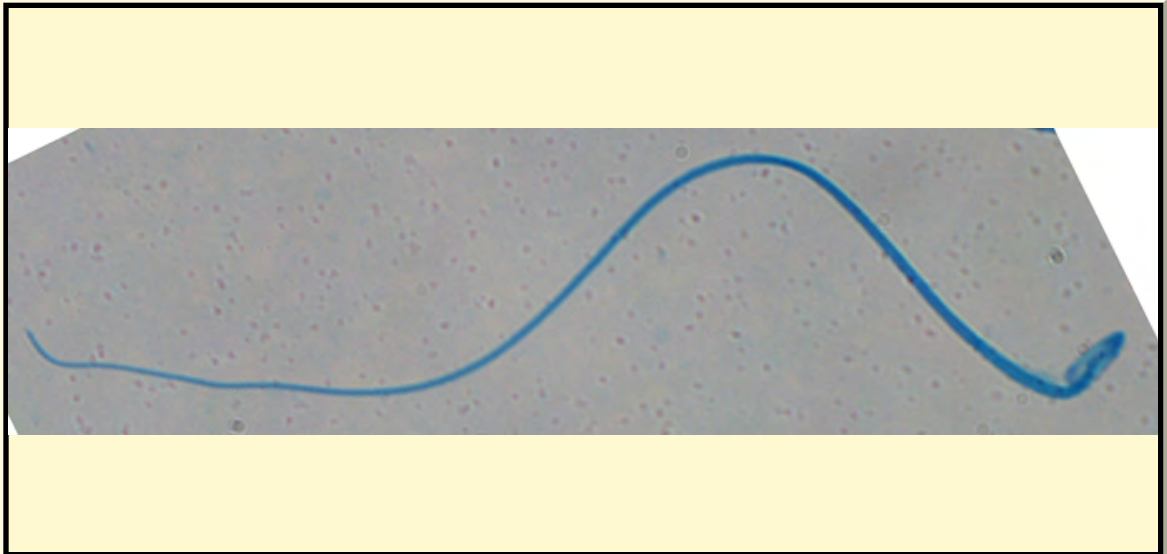
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SPERM ATLAS

COMMON NAME

Western Grey Kangaroo

PICTURE



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CLASS

Mammalia

RP NUMBER

18-022

ORDER

Diprotodontia

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Oval

FAMILY

Macropodidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Macropus

SPECIES

Macropus fuliginosus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

7.00

Head Width

2.00

Midpiece Length

10.50

Tail Length

94.00

Measure Total

111.50

NOTES

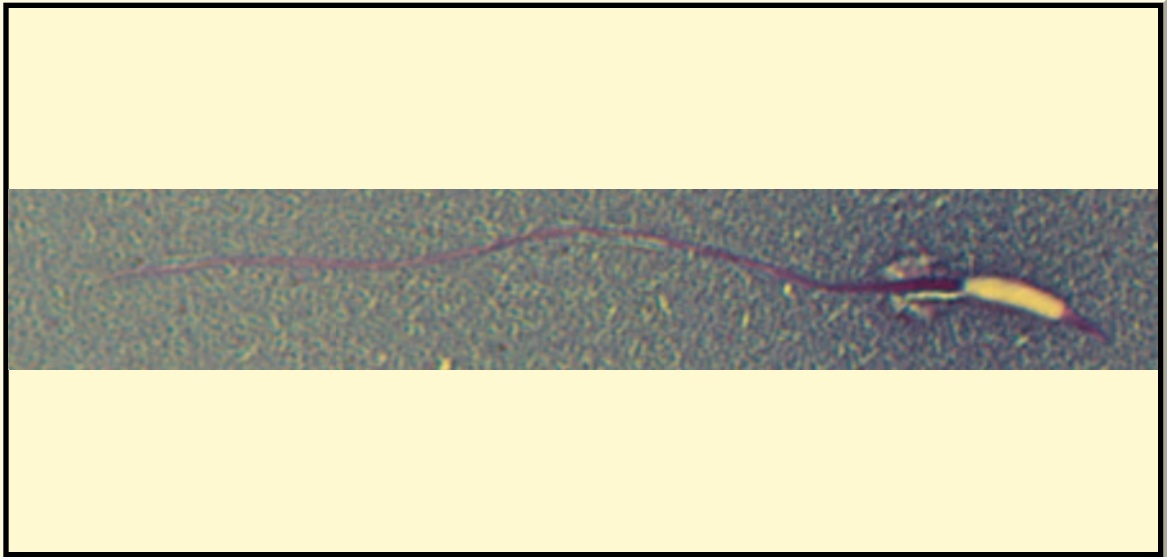


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SPERM ATLAS

COMMON NAME

Blue Tree Monitor

PICTURE



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CLASS

Reptilia

RP NUMBER

18-059

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Varanidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Varanus

SPECIES

Varanus macraei

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

13.00

Head Width

1.25

Midpiece Length

8.00

Tail Length

48.00

Measure Total

69.00



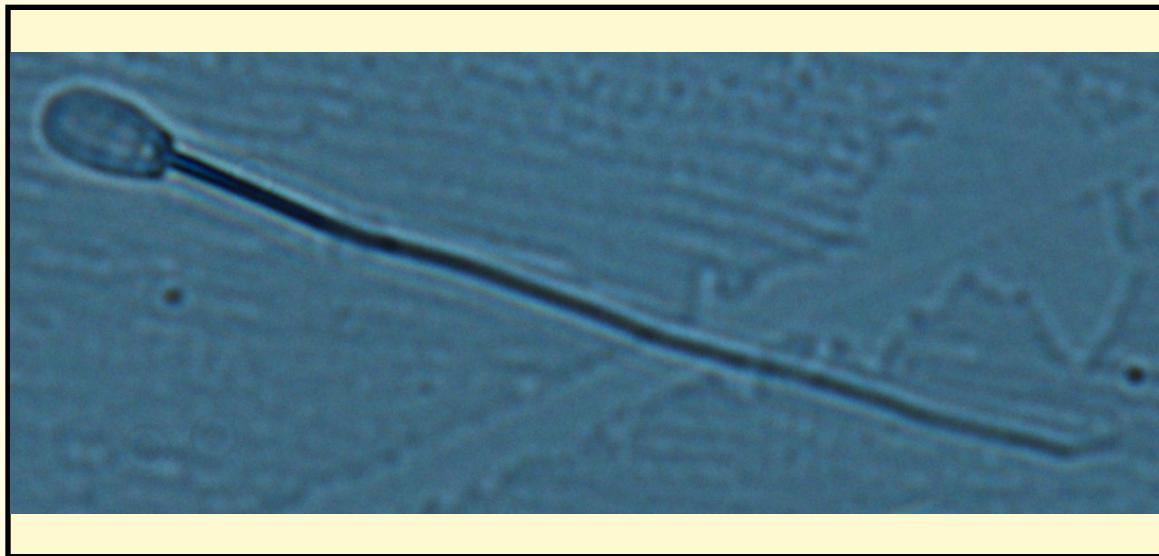
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SPERM ATLAS

COMMON NAME

Virginia Opposum

PICTURE



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CLASS

Mammalia

RP NUMBER

18-123

ORDER

Didelphimorphia

STAIN

None

SUBORDER

HEAD SHAPE

Oval

FAMILY

Didelphidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Didelphis

SPECIES

Didelphis virginiana

SUBSPECIES

MEASUREMENTS (μm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total



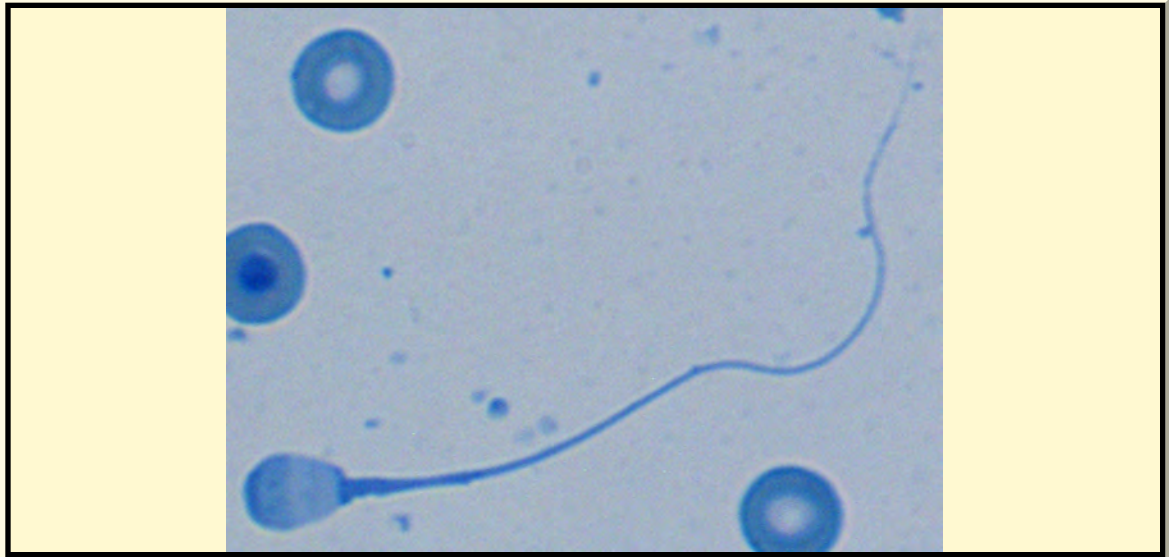
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SPERM ATLAS

COMMON NAME

Asian Small-clawed Otter

PICTURE



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CLASS

Mammalia

RP NUMBER

18-048

ORDER

Carnivora

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Oval

FAMILY

Mustelidae

ANIMAL PICTURE

SUBFAMILY

Lutrinae

GENUS

Amblonyx

SPECIES

Amblonyx cinerea

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

4.00

Midpiece Length

7.00

Tail Length

38.00

Measure Total

51.00

NOTES



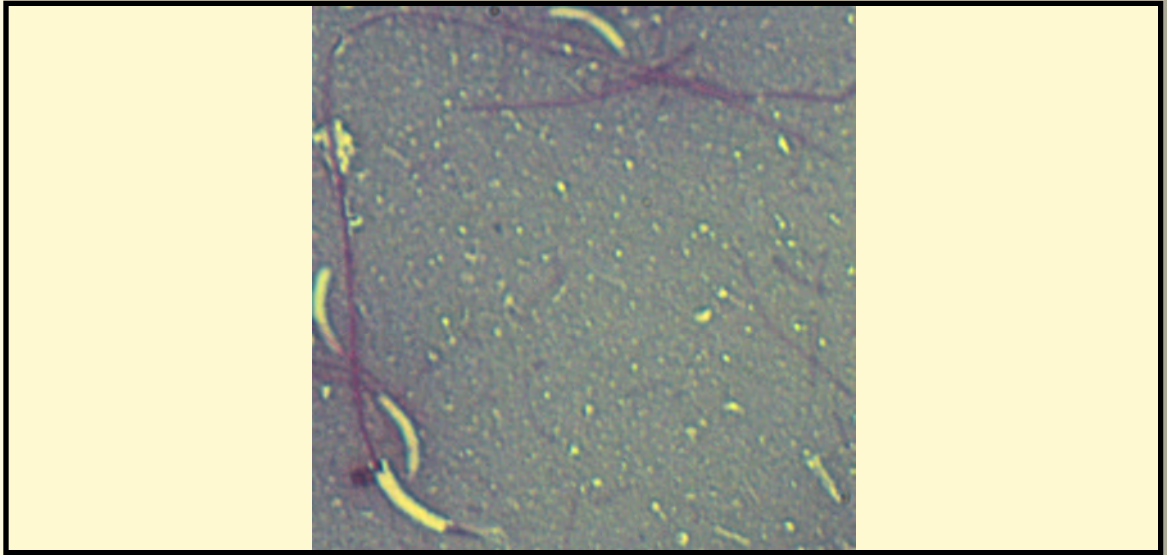
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SPERM ATLAS

COMMON NAME

Scrub Python

PICTURE



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CLASS

Reptilia

RP NUMBER

18-070

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Pythonidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Morelia

SPECIES

Morelia amethystina

SUBSPECIES

MEASUREMENTS (μm)

Head Length

13.00

Head Width

1.25

Midpiece Length

Tail Length

73.00

Measure Total

86.00



NOTES

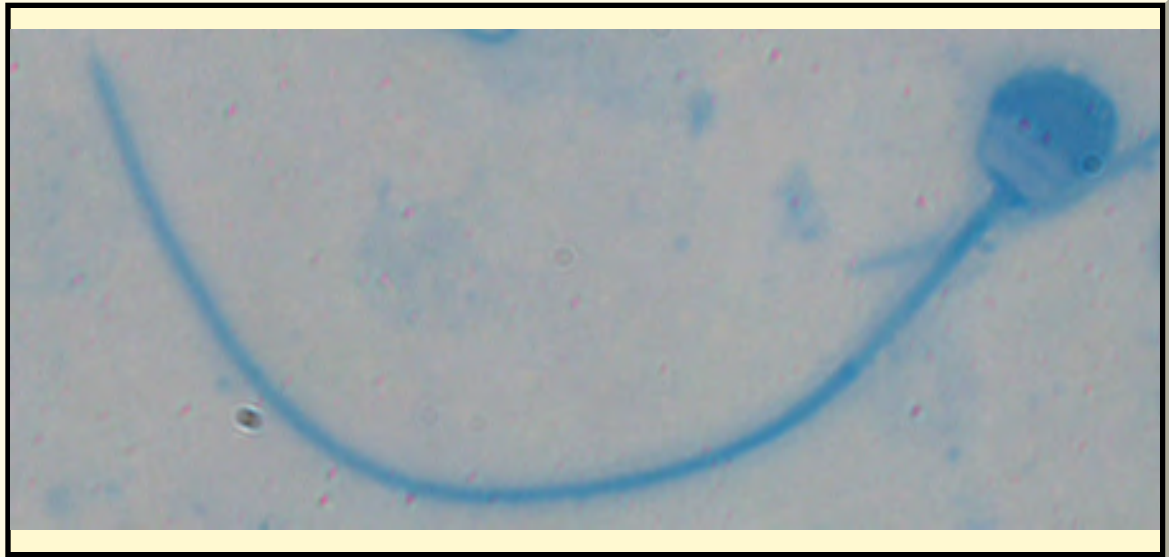
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SPERM ATLAS

COMMON NAME

Southern Ratel

PICTURE



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CLASS

Mammalia

RP NUMBER

18-033

ORDER

Carnivora

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Round

FAMILY

Mustelidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Mellivora

SPECIES

Mellivora capensis capensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.00

Head Width

7.00

Midpiece Length

11.00

Tail Length

55.00

Measure Total

73.00

NOTES



S

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SPERM ATLAS

COMMON NAME

Raven

PICTURE



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CLASS

Aves

RP NUMBER

ORDER

Passeriformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Helical

FAMILY

Corvidae

SUBFAMILY

GENUS

Corvus

ANIMAL PICTURE

SPECIES

Corvus corax

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

17.00

Head Width

1.00

Midpiece Length

3.00

Tail Length

34.00

Measure Total

54.00

NOTES

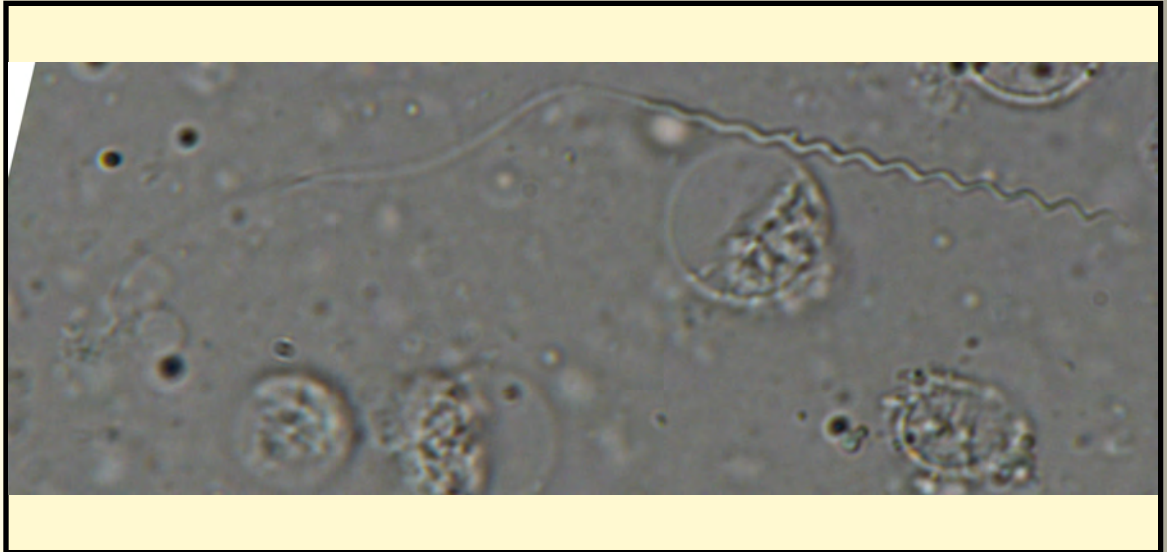


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SPERM ATLAS

COMMON NAME

Leopard Shark

PICTURE



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CLASS

Chondrichthyes

RP NUMBER

18-098

ORDER

Carcharhiniformes

STAIN

None

SUBORDER

HEAD SHAPE

Helical

FAMILY

Triakidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Triakis

SPECIES

Triakis semifasciata

SUBSPECIES

MEASUREMENTS (μm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total



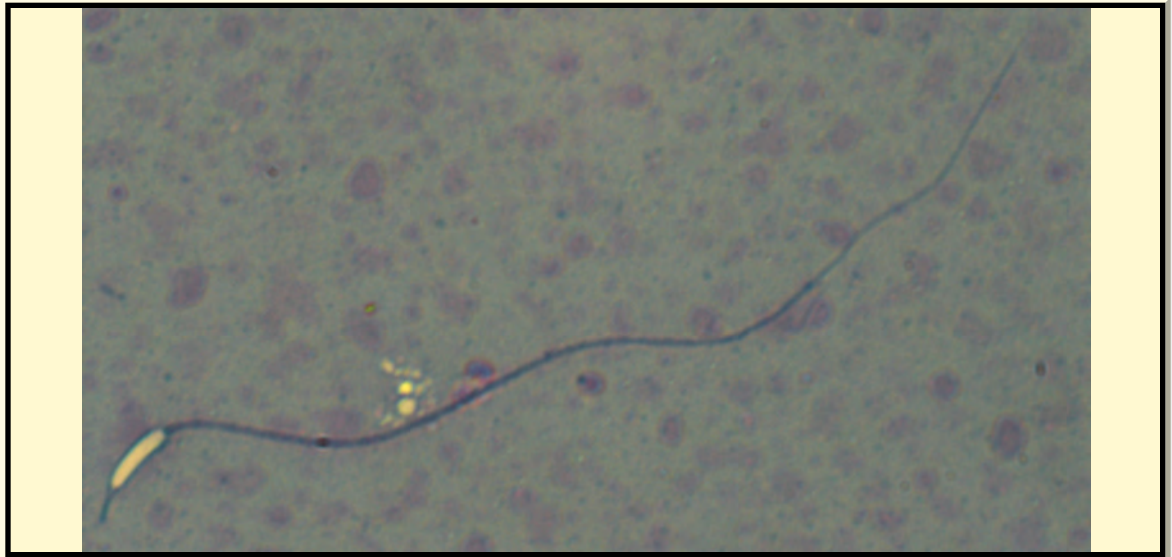
NOTES

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SPERM ATLAS

COMMON NAME

Oriental Whip Snake

PICTURE



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CLASS

Reptilia

RP NUMBER

18-125

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Colubridae

SUBFAMILY

ANIMAL PICTURE

GENUS

Ahaetulla

SPECIES

Ahaetulla prasina

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

1.50

Midpiece Length

54.00

Tail Length

22.00

Measure Total

87.00

NOTES

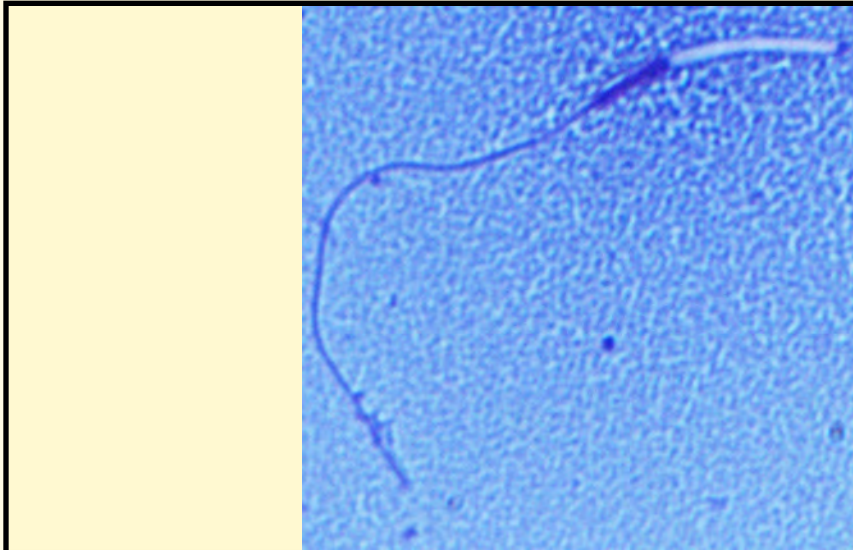


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Least Tern

PICTURE



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CLASS

Aves

RP NUMBER

18-077

ORDER

Charadriiformes

STAIN

Pope

SUBORDER

FAMILY

Laridae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Sternula

ANIMAL PICTURE

SPECIES

Sternula antillarum

SUBSPECIES

MEASUREMENTS (μm)

Head Length

11.00

Head Width

1.00

Midpiece Length

5.00

Tail Length

65.00

Measure Total

81.00

NOTES



S

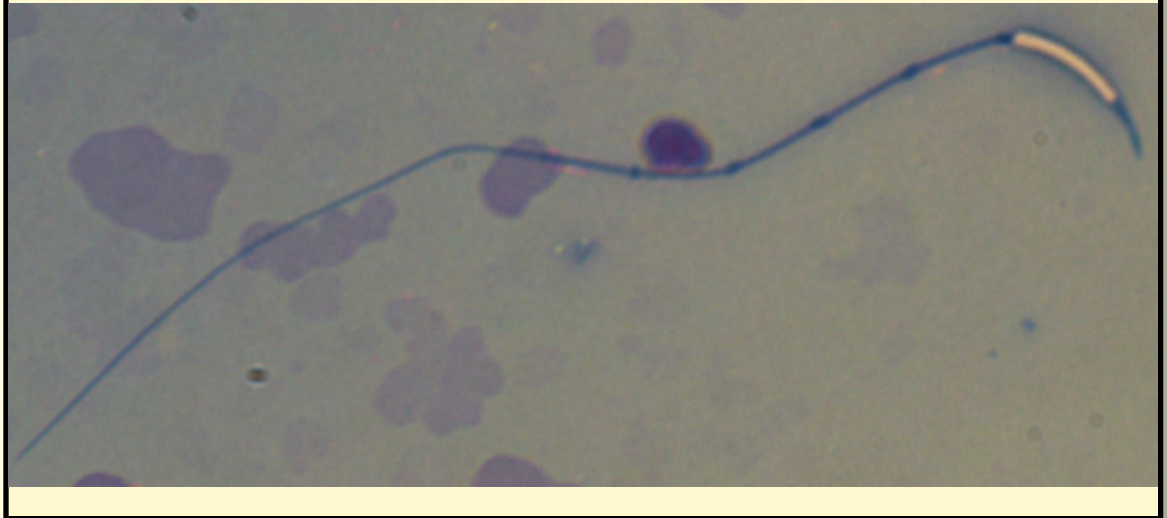
S

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
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SPERM ATLAS

COMMON NAME

Woma

PICTURE



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CLASS

Reptilia

RP NUMBER

18-125

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Pythonidae

SUBFAMILY

GENUS

Aspidites

ANIMAL PICTURE

SPECIES

Aspidites ramsayi

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

13.00

Head Width

1.00

Midpiece Length

33.00

Tail Length

40.00

Measure Total

86.00



NOTES

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SPERM ATLAS

COMMON NAME

Woylie

PICTURE



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CLASS

Mammalia

RP NUMBER

18-066

ORDER

Diprotodontia

STAIN

Pope

SUBORDER

HEAD SHAPE

Oval

FAMILY

Potoroidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Bettongia

SPECIES

Bettongia ogilbyi

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

9.00

Head Width

2.00

Midpiece Length

22.00

Tail Length

150.00

Measure Total

181.00



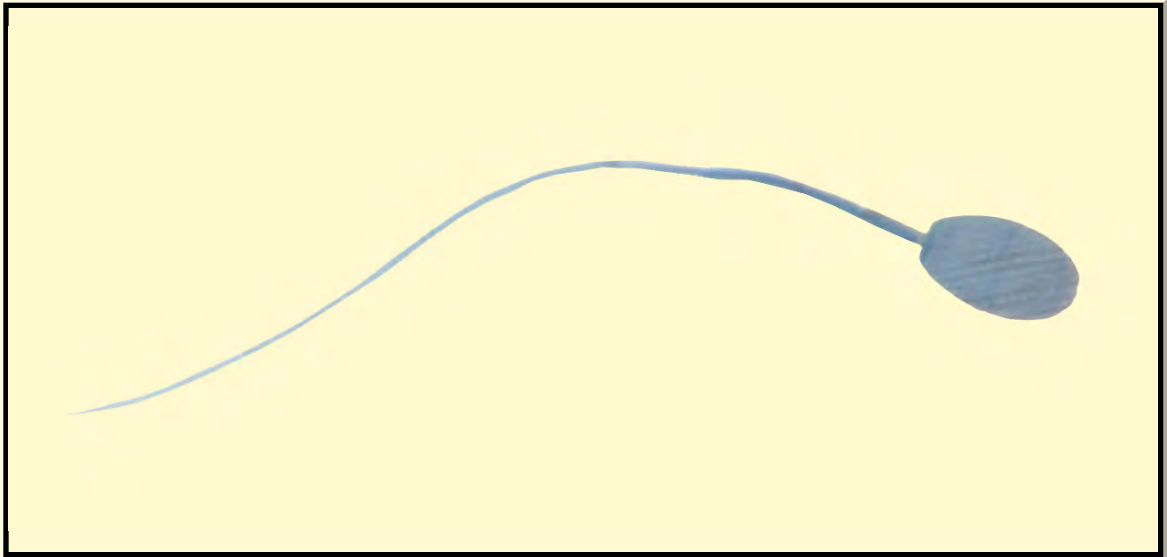
NOTES

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SPERM ATLAS

COMMON NAME

Common Eland

PICTURE



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CLASS

Mammalia

RP NUMBER

08-023

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

Ruminantia

HEAD SHAPE

Oval

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

Bovinae

GENUS

Taurotragus (Tragelaphus)

SPECIES

Taurotragus oryx

SUBSPECIES

MEASUREMENTS (μm)

Head Length

8.50

Head Width

5.00

Midpiece Length

20.00

Tail Length

34.50

Measure Total

63.00

NOTES



also known as East African Eland

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SPERM ATLAS

COMMON NAME

Kaiser Newt

PICTURE



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CLASS

Amphibia

RP NUMBER

17-105

ORDER

Caudata

STAIN

None

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Salamandridae

SUBFAMILY

ANIMAL PICTURE

GENUS

Neurergus

SPECIES

Neurergus kaiseri

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



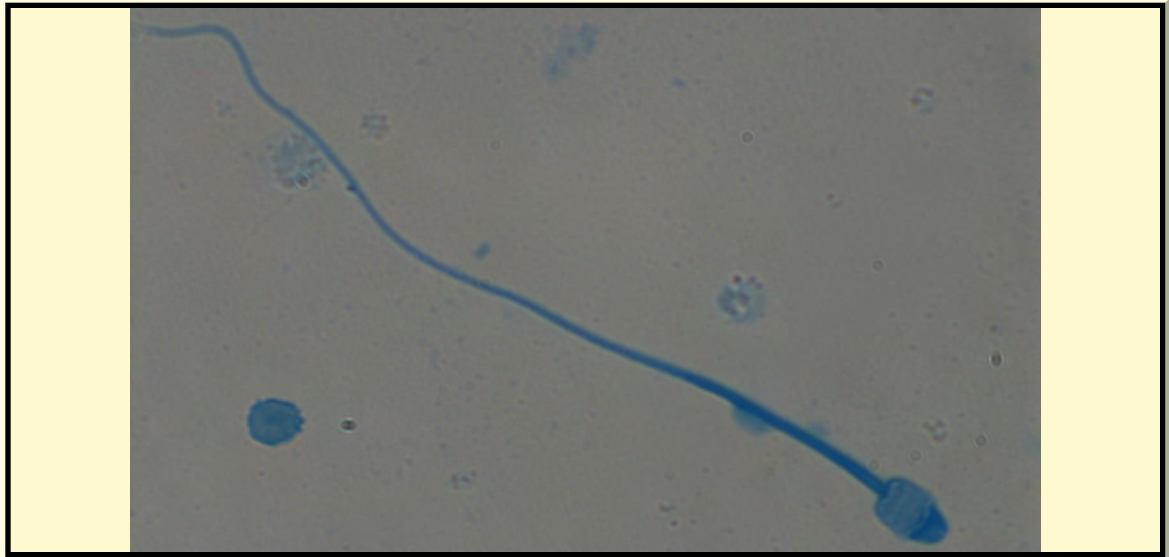
note the wavy membrane that runs along the tail

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Rodrigues Fruit Bat

PICTURE



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CLASS

Mammalia

RP NUMBER

18-185

ORDER

Chiroptera

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Oval

FAMILY

Pteropodidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Pteropus

SPECIES

Pteropus rodricensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

7.00

Head Width

4.00

Midpiece Length

20.00

Tail Length

62.00

Measure Total

89.00

NOTES

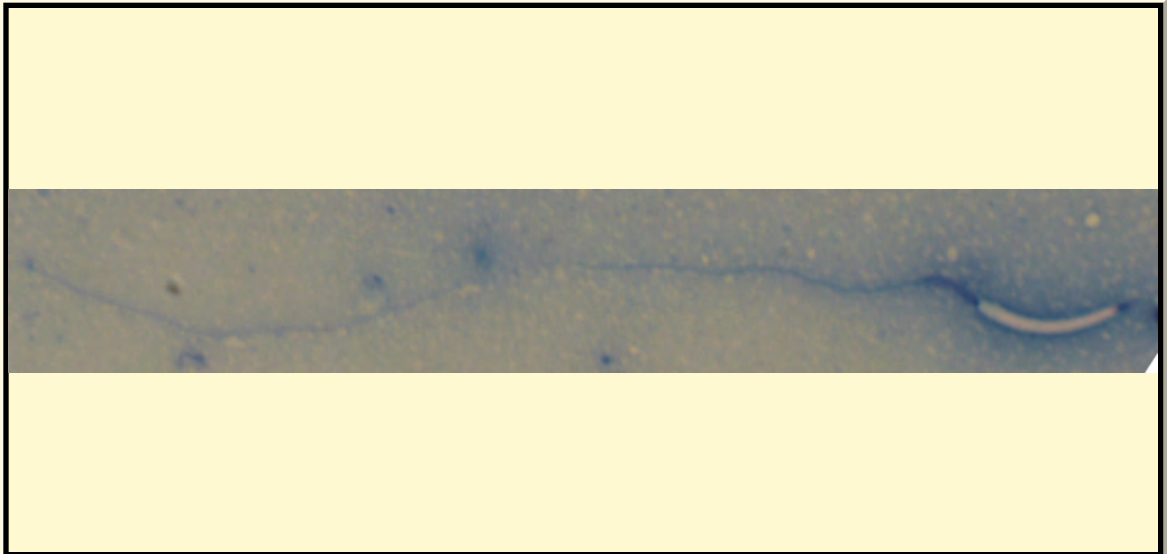


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SPERM ATLAS

COMMON NAME

Domestic Chicken

PICTURE



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CLASS

Aves

RP NUMBER

ORDER

Galiformes

STAIN

Pope

SUBORDER

FAMILY

Phasianidae

HEAD SHAPE

Filiformal

SUBFAMILY

GENUS

Gallus

ANIMAL PICTURE

SPECIES

Gallus gallus

SUBSPECIES

Gallus gallus domesticus

MEASUREMENTS (μm)

Head Length

22.00

Head Width

1.50

Midpiece Length

6.00

Tail Length

69.00

Measure Total

97.00



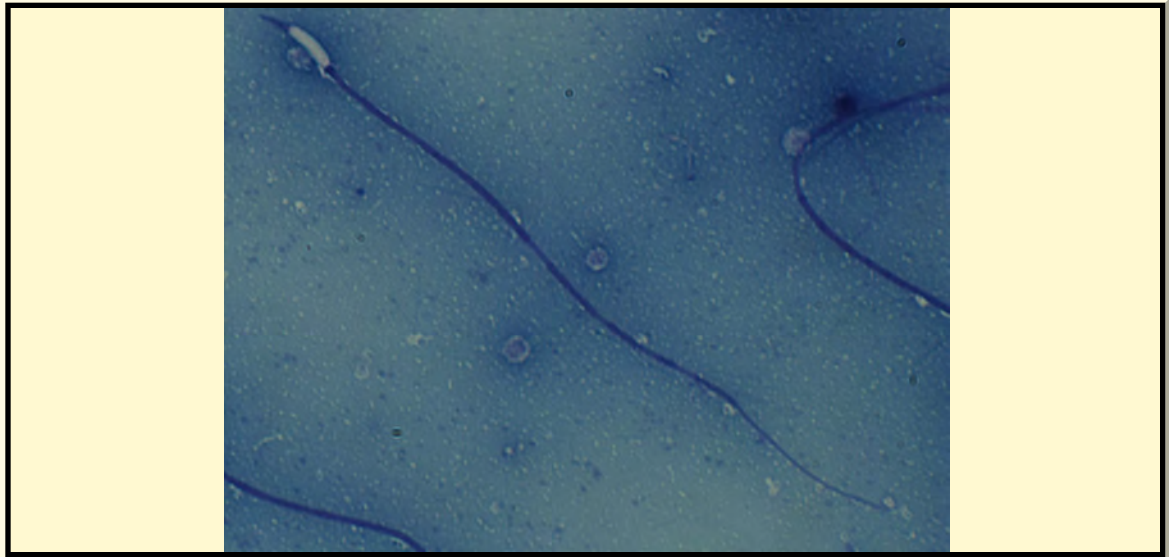
NOTES

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SPERM ATLAS

COMMON NAME

Sri Lankan Spetacled Cobra

PICTURE



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CLASS

Reptilia

RP NUMBER

19-007

ORDER

Squamata

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Elapidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Naja

SPECIES

Naja naja

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.00

Head Width

2.00

Midpiece Length

65.00

Tail Length

21.00

Measure Total

96.00



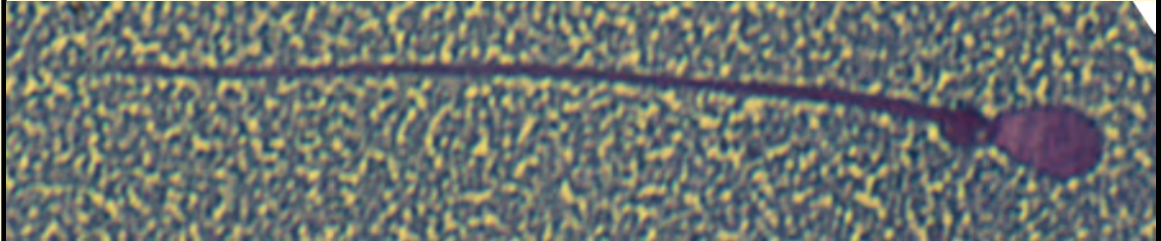
NOTES

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SPERM ATLAS

COMMON NAME

New Guinea Singing Dog

PICTURE



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CLASS

Mammalia

RP NUMBER

18-166

ORDER

Carnivora

STAIN

Pope

SUBORDER

FAMILY

Canidae

HEAD SHAPE

Oval

SUBFAMILY

GENUS

Canis

ANIMAL PICTURE

SPECIES

Canis hallstromi

SUBSPECIES

MEASUREMENTS (μm)

Head Length

6.00

Head Width

4.00

Midpiece Length

Tail Length

50.00

Measure Total

56.00

NOTES



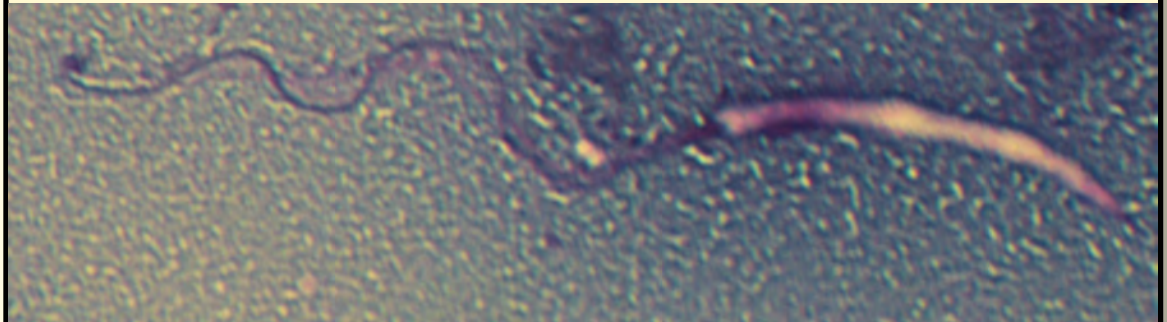
Cytoplasmic droplet present due to sperm being extracted directly from the epididymis
Midpiece could not discerned from tail therefore tail measurement includes tail and midpiece.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Panamanian Golden Frog

PICTURE



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CLASS

Amphibia

RP NUMBER

19-037

ORDER

Anura

STAIN

Pope

SUBORDER

FAMILY

Bufonidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Atelopus

ANIMAL PICTURE

SPECIES

Atelopus zeteki

SUBSPECIES

MEASUREMENTS (μm)

Head Length

27.00

Head Width

1.25

Midpiece Length

3.00

Tail Length

37.00

Measure Total

67.00



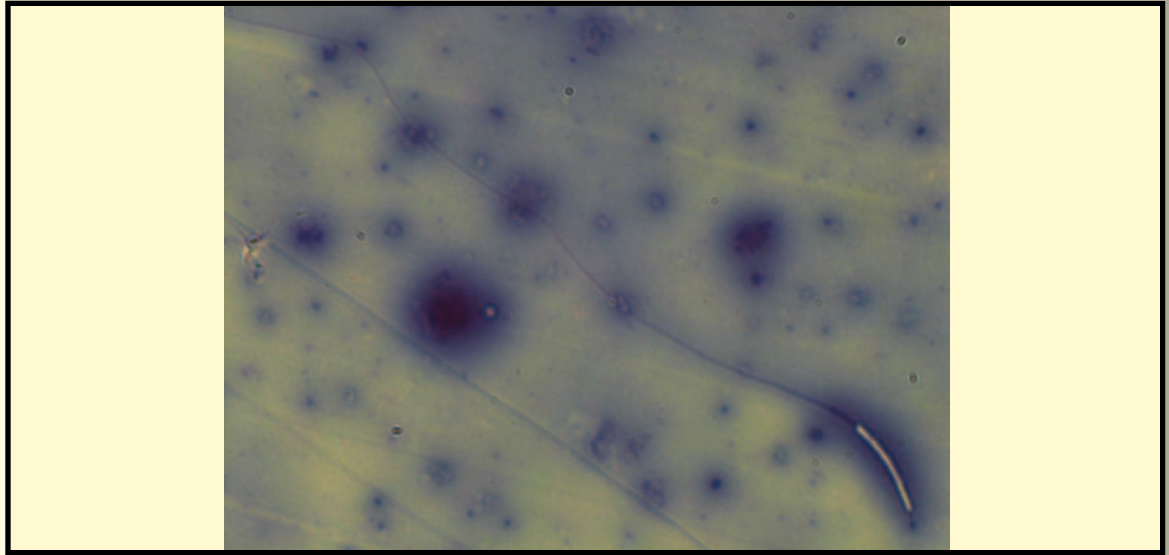
NOTES

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SPERM ATLAS

COMMON NAME

Allen's Hummingbird

PICTURE



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CLASS

Aves

RP NUMBER

19-020

ORDER

Apodiformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

Trochilidae

SUBFAMILY

GENUS

Selasphorus

ANIMAL PICTURE

SPECIES

Selasphorus sasin

SUBSPECIES

MEASUREMENTS (μm)

Head Length

15.00

Head Width

4.00

Midpiece Length

1.00

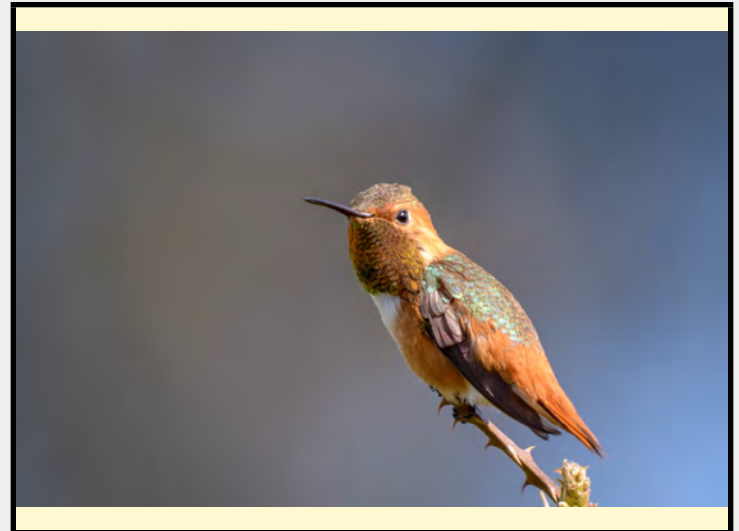
Tail Length

131.00

Measure Total

147.00

NOTES



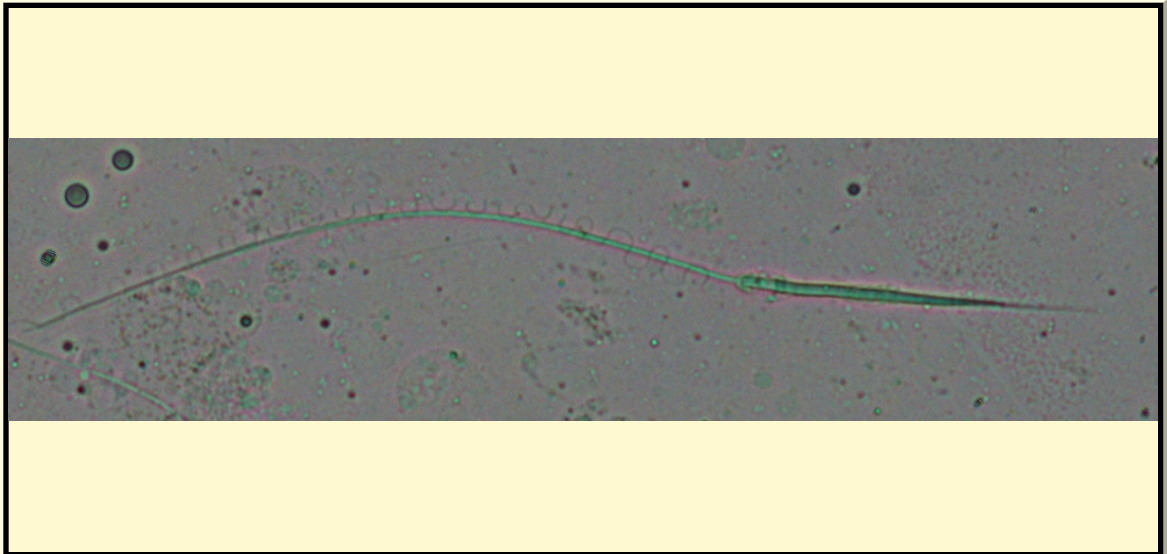
Animal Photo: Wikimedia commons: Becky Matsubara from El Sobrante, California

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Chinese Giant Salamander

PICTURE



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CLASS

Amphibia

RP NUMBER

18-183

ORDER

Urodela

STAIN

None

SUBORDER

FAMILY

Cryptobranchidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Andrias

ANIMAL PICTURE

SPECIES

Andrias davidianus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

74.00

Head Width

4.00

Midpiece Length

4.00

Tail Length

148.00

Measure Total

226.00

NOTES



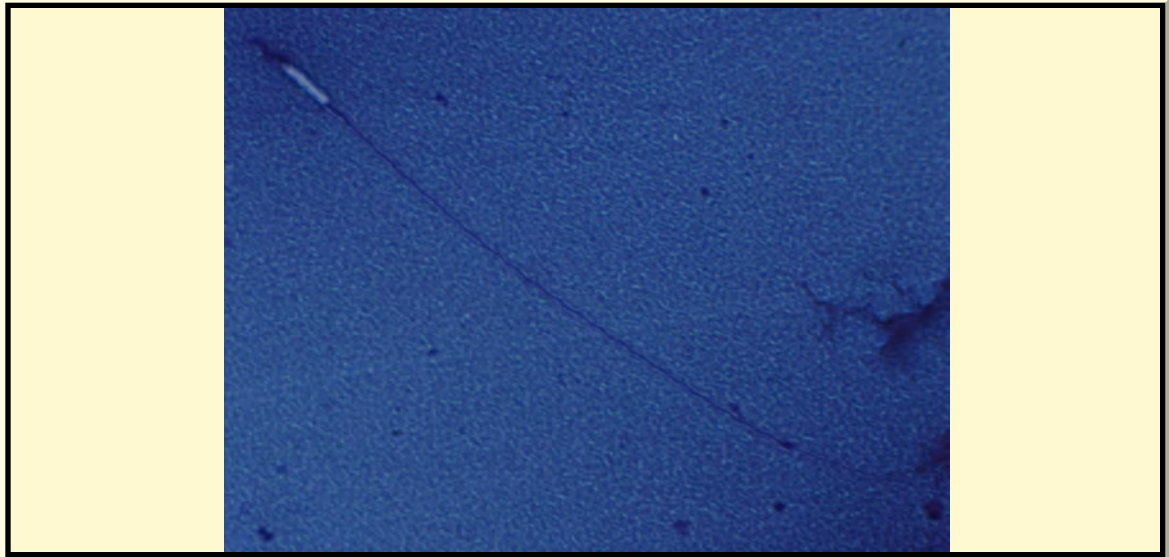
Note the wavy membrane that runs along the tail

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Splendid Sunbird

PICTURE



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CLASS

Aves

RP NUMBER

18-141

ORDER

Passeriformes

STAIN

Pope

SUBORDER

FAMILY

Nectariniidae

HEAD SHAPE

Helical

SUBFAMILY

GENUS

Cinnyris

ANIMAL PICTURE

SPECIES

Cinnyris coccinigastrus

SUBSPECIES

MEASUREMENTS (μm)

Head Length

13.50

Head Width

1.00

Midpiece Length

Tail Length

92.00

Measure Total

105.50

NOTES



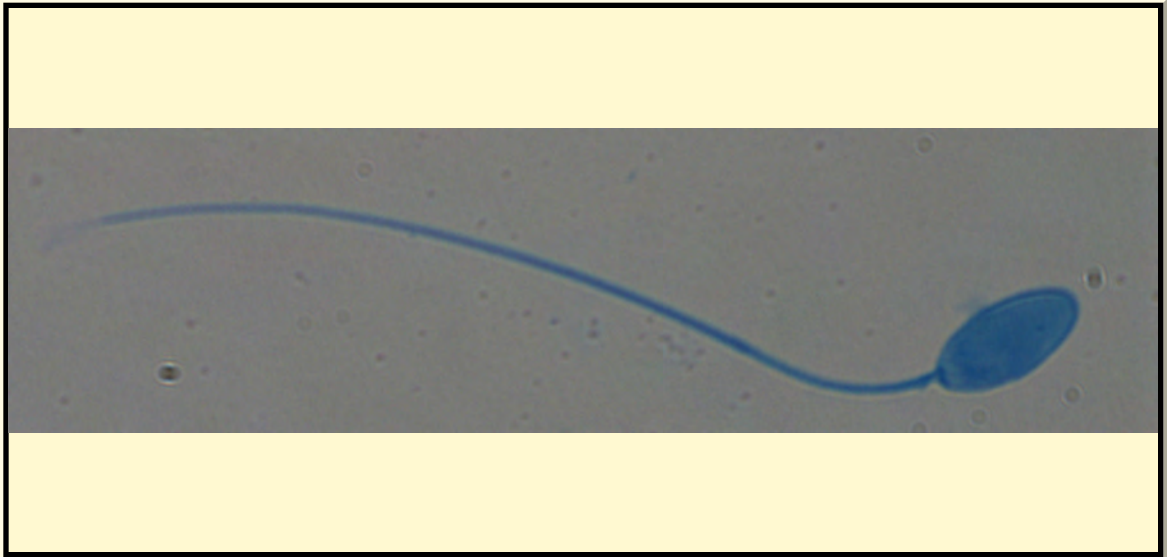
Midpiece could not be discerned from tail therefore tail measurement includes tail and midpiece.

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Guyanana Tamandua

PICTURE



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CLASS

Mammalia

RP NUMBER

19-017

ORDER

Pilosa

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Oval

FAMILY

Myrmecophagidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Tamandua

SPECIES

Tamandua tetradactyla

SUBSPECIES

MEASUREMENTS (μm)

Head Length

10.00

Head Width

6.00

Midpiece Length

Tail Length

61.00

Measure Total

71.00

NOTES



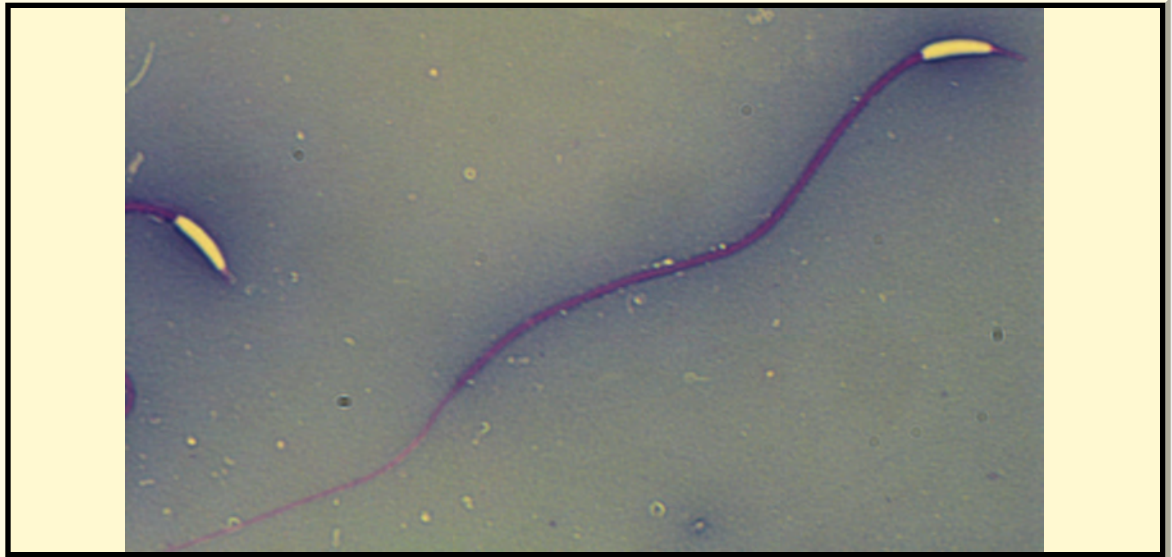
Midpiece could not be discerned from tail therefore tail measurement includes tail and midpiece.

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Red Coachwhip

PICTURE



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CLASS

Reptilia

RP NUMBER

18-158

ORDER

Squamata

STAIN

Pope

SUBORDER

Serpentes

HEAD SHAPE

Filiform

FAMILY

Colubridae

SUBFAMILY

GENUS

Masticophis

ANIMAL PICTURE

SPECIES

Masticophis flagellum piceus

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

10.00

Head Width

1.50

Midpiece Length

55.00

Tail Length

32.00

Measure Total

97.00



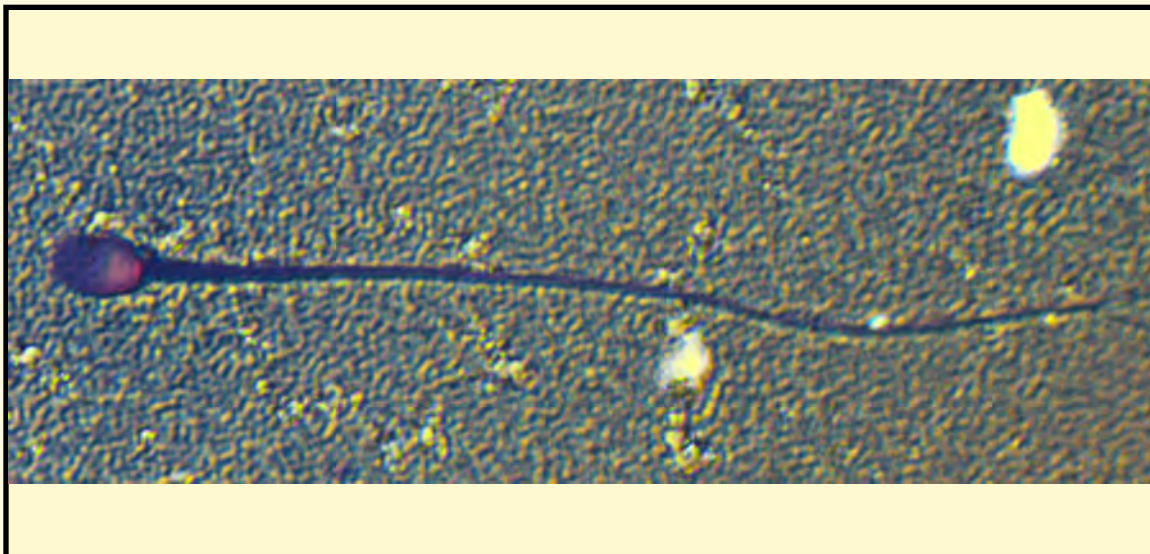
NOTES

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Eastern Angolan Colobus

PICTURE



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CLASS

Mammalia

RP NUMBER

19-158

ORDER

Primates

STAIN

Pope

SUBORDER

Haplorhini

HEAD SHAPE

Round

FAMILY

Cercopithecidae

SUBFAMILY

GENUS

Colobus

ANIMAL PICTURE

SPECIES

Colobus angolensis

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

6.50

Head Width

4.00

Midpiece Length

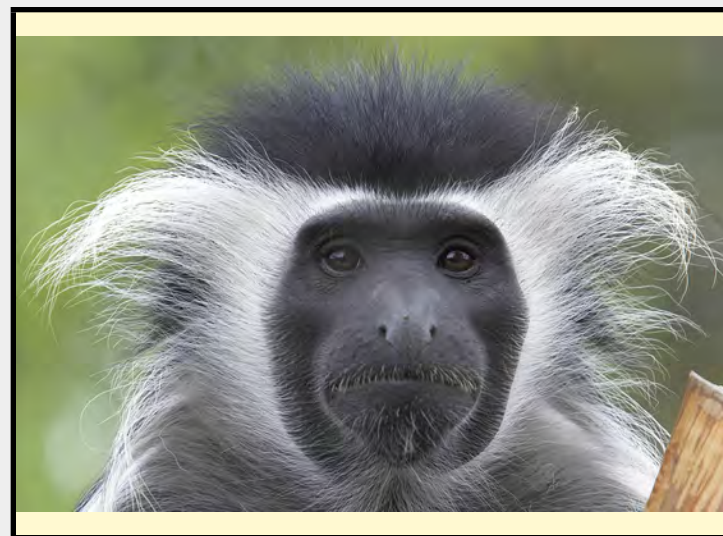
13.00

Tail Length

45.00

Measure Total

64.50



NOTES

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Island Night Lizard

PICTURE



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CLASS

Reptilia

RP NUMBER

19-087

ORDER

Squamata

STAIN

Pope

SUBORDER

FAMILY

Xantusiidae

HEAD SHAPE

Filiform

SUBFAMILY

GENUS

Xantusia

ANIMAL PICTURE

SPECIES

Xantusia riversiana

SUBSPECIES

MEASUREMENTS (μm)

Head Length

Head Width

Midpiece Length

Tail Length

Measure Total

NOTES



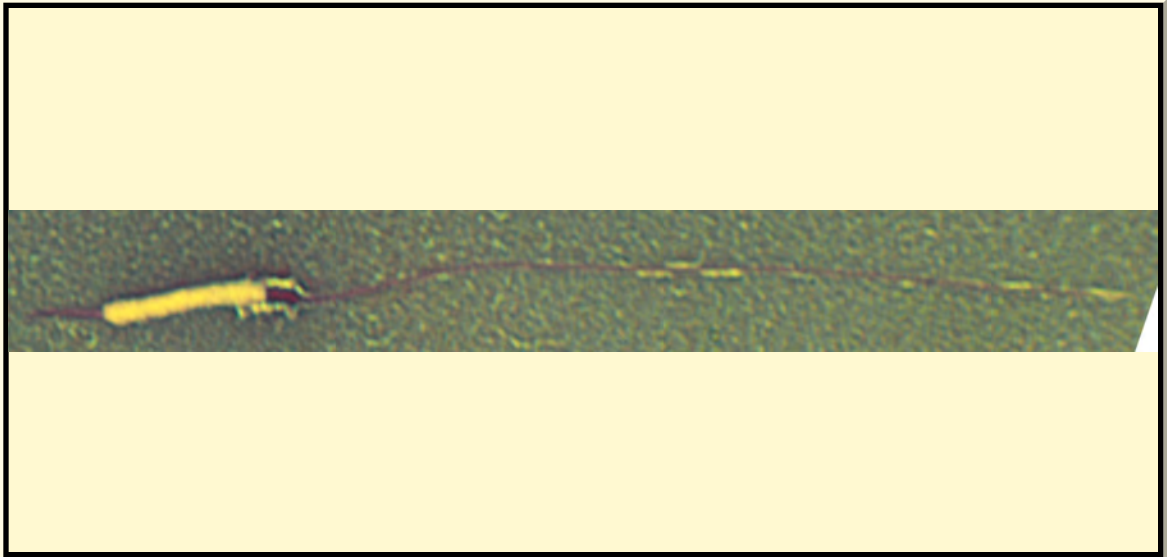
midpiece is abnormally bent due to processing

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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Spiny-headed Tree Lizard

PICTURE



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CLASS

Reptilia

RP NUMBER

19-047

ORDER

Squamata

STAIN

Pope

SUBORDER

Iguanidae

HEAD SHAPE

Filiform

FAMILY

Tropiduridae

SUBFAMILY

GENUS

Plica

ANIMAL PICTURE

SPECIES

Plica plica

SUBSPECIES

MEASUREMENTS (μm)

Head Length

17.00

Head Width

1.25

Midpiece Length

3.00

Tail Length

57.00

Measure Total

77.00



NOTES

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SPERM ATLAS

COMMON NAME

Butterfly Ray

PICTURE



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CLASS

Chondrichthyes

RP NUMBER

ORDER

Myliobatiformes

STAIN

None

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Gymnuridae

SUBFAMILY

GENUS

Gymnura

ANIMAL PICTURE

SPECIES

Gymnura

SUBSPECIES

MEASUREMENTS (μm)

Head Length

27.00

Head Width

1.00

Midpiece Length

Tail Length

18.00

Measure Total

NOTES



Animal Photo: Tomas Willems

Sperm sample from: Birch Aquarium at Scripps

Butterfly ray sperm heads were measured in a range of 25-33um
sperm tail length was hard to measure fully

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Pacific Pond Turtle

PICTURE



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CLASS

Reptilia

RP NUMBER

ORDER

Testudines

STAIN

Pap

SUBORDER

HEAD SHAPE

Filiform

FAMILY

Emydidae

SUBFAMILY

ANIMAL PICTURE

GENUS

Actinemys

SPECIES

Actinemys marmorata

SUBSPECIES

MEASUREMENTS (μm)

Head Length

15.00

Head Width

1.00

Midpiece Length

Tail Length

42.00

Measure Total

57.00



NOTES

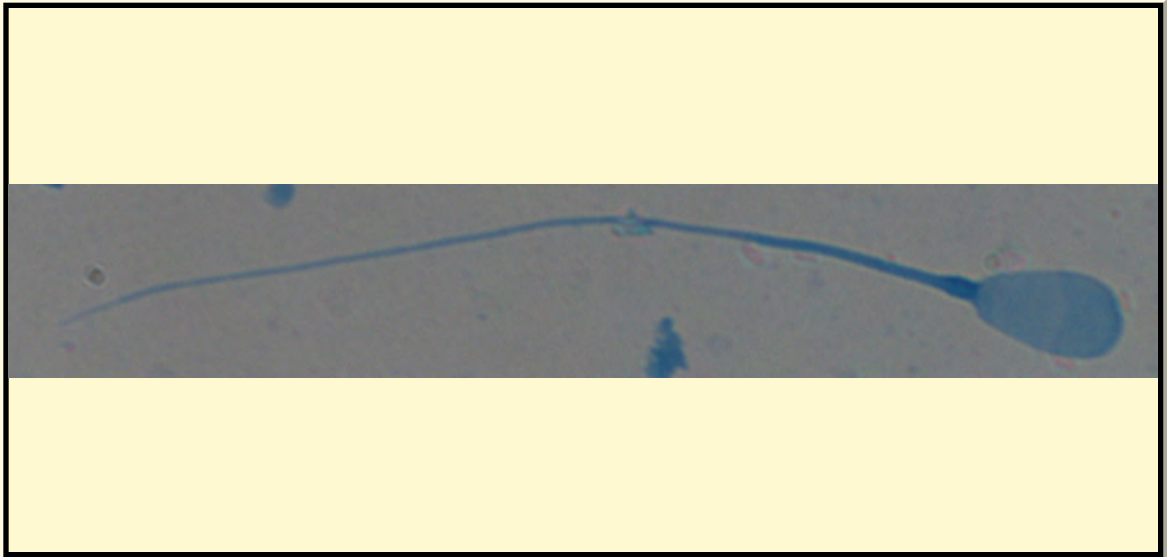
Midpiece could not discerned from tail therefore tail measurement includes tail and midpiece.
Midpiece is bent

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Black Duiker

PICTURE



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CLASS

Mammalia

RP NUMBER

19-033

ORDER

Artiodactyla

STAIN

Coomassie

SUBORDER

HEAD SHAPE

Paddle

FAMILY

Bovidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Cephalophus

SPECIES

Cephalophus niger

SUBSPECIES

MEASUREMENTS (μ m)

Head Length

9.00

Head Width

6.50

Midpiece Length

13.00

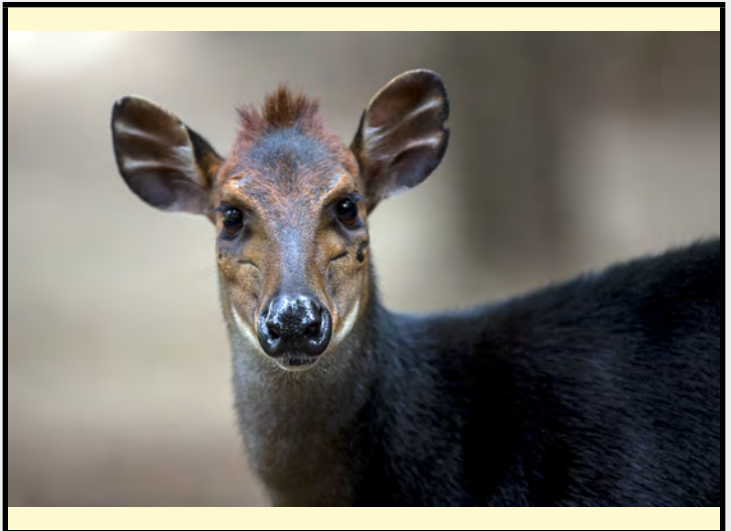
Tail Length

47.00

Measure Total

69.00

NOTES

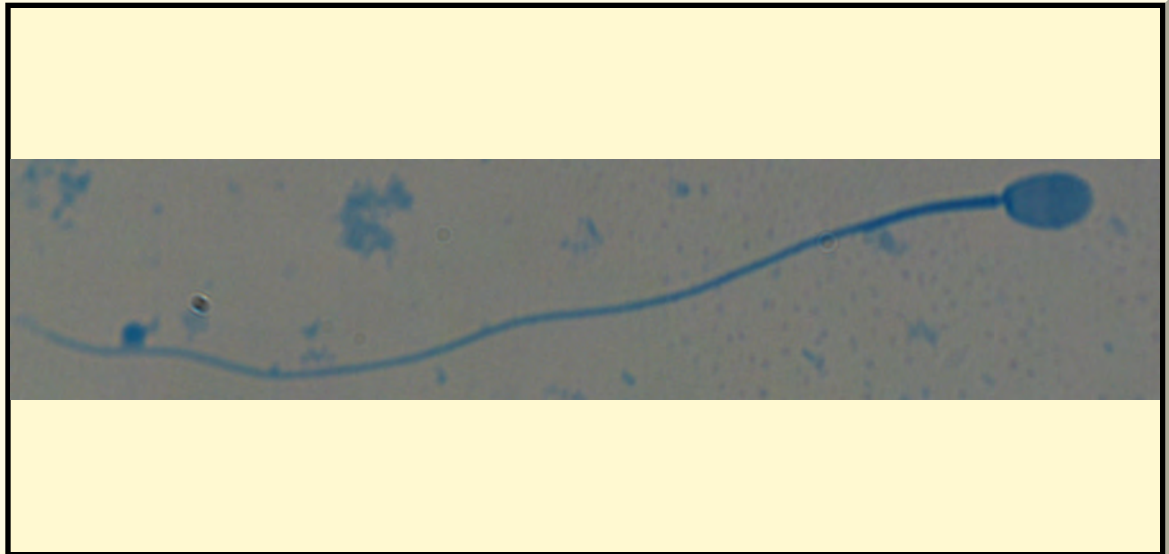


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REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Wolf Guenon

PICTURE



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CLASS

Mammalia

RP NUMBER

19-034

ORDER

Primates

STAIN

Coomassie

SUBORDER

Haplorhini

HEAD SHAPE

Round

FAMILY

Cercopithecidae

ANIMAL PICTURE

SUBFAMILY

GENUS

Cercopithecus

SPECIES

Cercopithecus wolfi

SUBSPECIES

MEASUREMENTS (μm)

Head Length

5.00

Head Width

4.00

Midpiece Length

9.00

Tail Length

59.00

Measure Total

73.00

NOTES

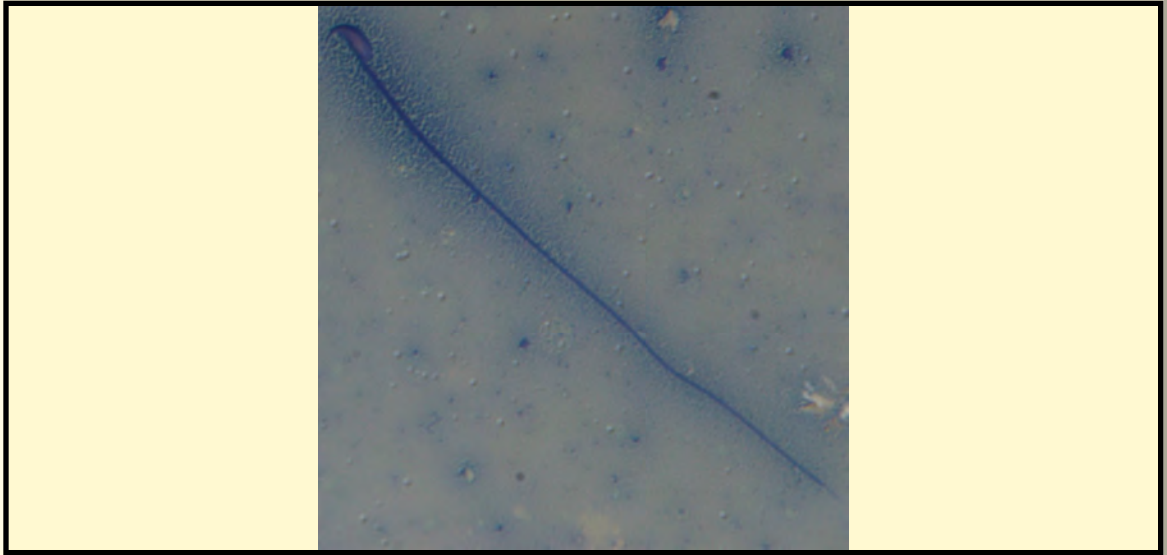


SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH
REPRODUCTIVE PHYSIOLOGY DIVISION
SPERM ATLAS

COMMON NAME

Mouse

PICTURE



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CLASS

Mammalia

RP NUMBER

ORDER

Rodentia

STAIN

Pope

SUBORDER

HEAD SHAPE

Hook

FAMILY

Muridae

ANIMAL PICTURE

SUBFAMILY

Murinae

GENUS

Mus

SPECIES

SUBSPECIES

MEASUREMENTS (μm)

Head Length

9.50

Head Width

3.00

Midpiece Length

Tail Length

117.00

Measure Total

126.50

NOTES



Animal photo credit: <http://www.animalstown.com/animals/m/mouse/wallpapers/mouse-wallpaper-04.php>
Could not distinguish the midpiece from the tail so the tail measurement includes the tail and midpiece