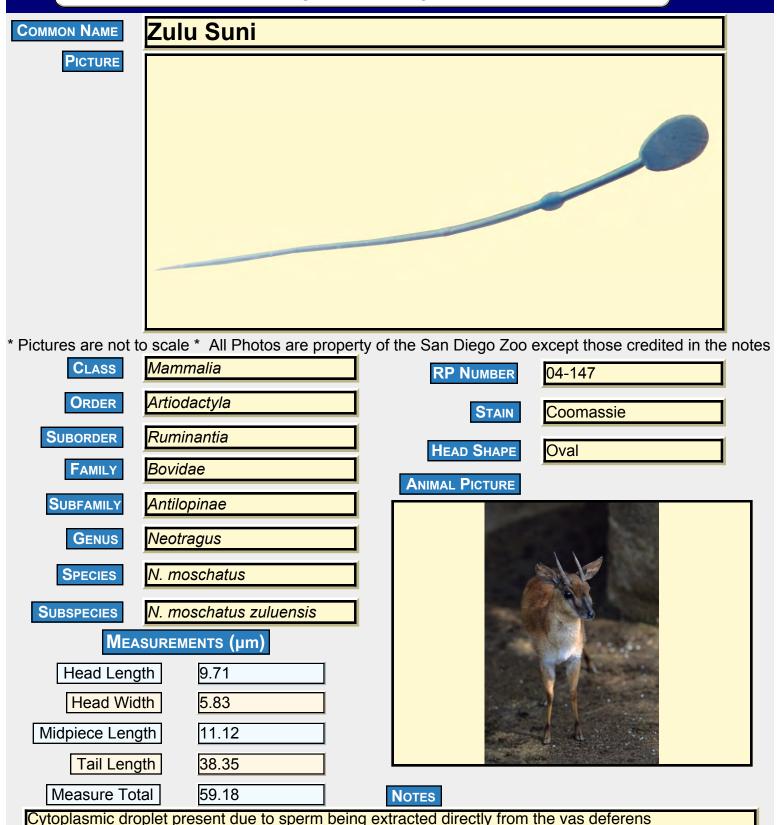
COMMON NAME	Bonobo	
PICTURE		
CLASS ORDER	to scale * All Photos are property of the San Diegonal Mammalia RP Num Primates	
SUBORDER FAMILY SUBFAMILY	Head St. Hominidae Animal Pict	
SPECIES SUBSPECIES MEAS	Pan Pan paniscus SUREMENTS (µm)	
Head Leng Head Wid Midpiece Leng Tail Leng Measure Tot	9th 4.63 9th 2.75 9th 50.00	

COMMON NAME	Uakari	
PICTURE		
	o scale * All Photos are property of the San Diego Zoo except those credited in the new transfer.	otes
CLASS	Mammalia RP Number 83-005	
ORDER	Primates Pap	
SUBORDER	HEAD SHAPE Oval	
FAMILY	Pitheciidae Animal Picture	
SUBFAMILY	<u>Opitheciinae</u>	
GENUS	Cacajao	
SPECIES	Cacajao	
SUBSPECIES		
MEA	SUREMENTS (µm)	
Head Leng	5.00 South State	
Head Wid	3.00	
Midpiece Leng	9.00	
Tail Leng	51.00 St.00	
Measure To	MOTES NOTES	

COMMON NAME	Barasingha	
PICTURE		
	0	
Pictures are not	to scale * All Photos are prope	erty of the San Diego Zoo except those credited in the no
CLASS	<u>Mammalia</u>	RP NUMBER 13-003
ORDER	Artiodactyla	STAIN Coomassie
SUBORDER		HEAD SHAPE Paddle
FAMILY	Cervidae	ANIMAL PICTURE
SUBFAMILY		
GENUS	Rucervus	
SPECIES	Rucervus duvaucellii	
SUBSPECIES		
MEA	ASUREMENTS (µm)	
Head Leng	gth 9.95	
Head Wid		
Midpiece Len		
Tail Len		
Measure To	otal 65.67	Notes

COMMON NAME	Nubian Soemmerri	ng's Gazelle	
PICTURE			
			•
* Pictures are not to	o scale * All Photos are proper	ty of the San Diego Zoo	except those credited in the note
CLASS	Mammalia	RP Number	09-050
ORDER	Artiodactyla	STAIN	Coomassie
SUBORDER			
FAMILY	Bovidae	HEAD SHAPE ANIMAL PICTURE	Paddle
SUBFAMILY	Antilopinae	ANIMALITOTORE	
GENUS	Nanger		
SPECIES	N. soemmerringii	\$	
SUBSPECIES			
	SUREMENTS (µm)		
Head Leng			
Head Wid			大震烈马 克
Midpiece Leng	13.30		
Tail Leng			
Measure Tot		Notes	



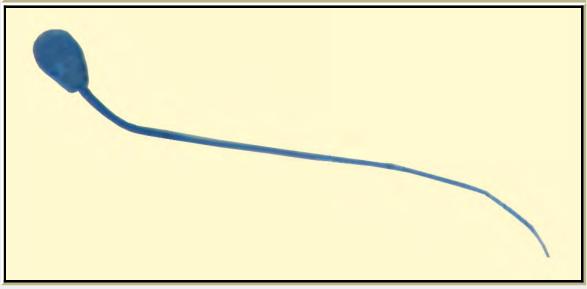
COMMON NAME	Bornean Bearded Pi	g	
PICTURE			
	o scale * All Photos are property	of the San Diego Zoo	except those credited in the notes
CLASS	Mammalia	RP Number	07-217 #2
ORDER	Artiodactyla	STAIN	Coomassie
SUBORDER	Suiformes	HEAD SHAPE	Oval
FAMILY	Suidae		Ovai
SUBFAMILY	Suinae	ANIMAL PICTURE	
GENUS	Sus		
SPECIES	S. barbatus	17	
SUBSPECIES	S. barbatus barbatus	974	
MEA	SUREMENTS (µm)		
Head Leng	th 8.50		
Head Wid	th 4.50		
Midpiece Leng	12.50		
Tail Leng	1th 31.50		
Measure Tot	fal 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

COMMON NAME

Indian Hog Deer

PICTURE



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

CLASS

Mammalia

ORDER

Artiodactyla

SUBORDER

Ruminantia

FAMILY

Cervidae

SUBFAMILY

Cervinae

GENUS

Axis

SPECIES

A. porcinus

SUBSPECIES

A. porcinus porcinus

MEASUREMENTS (µm)

Head Length

8.72

Head Width

5.20

Midpiece Length

14.17

Tail Length

36.19

Measure Total

59.08

RP Number

04-135

STAIN

Coomassie

HEAD SHAPE

Paddle

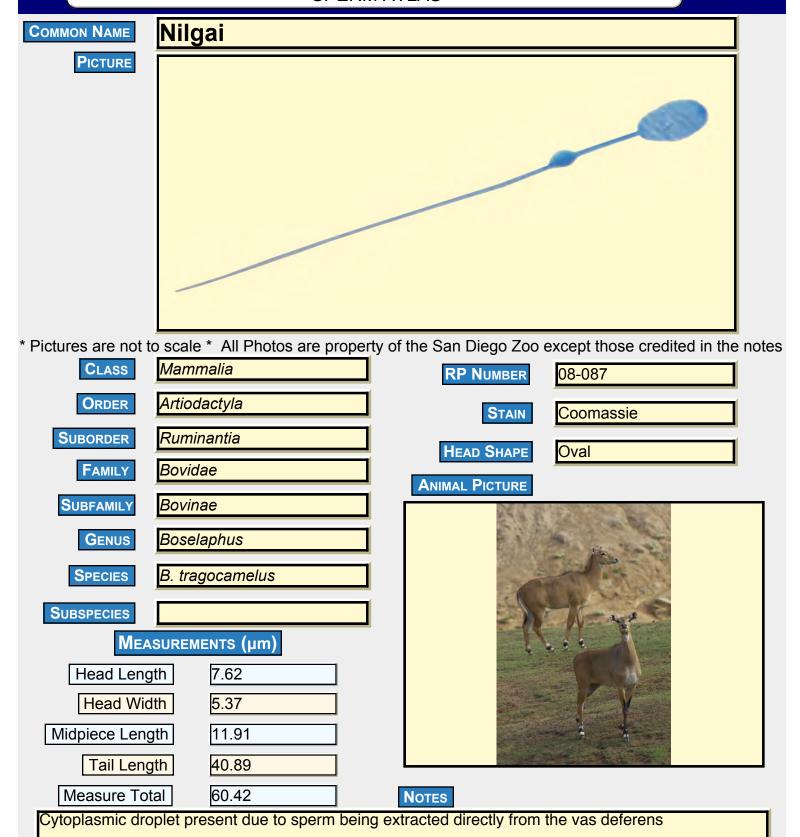
ANIMAL PICTURE



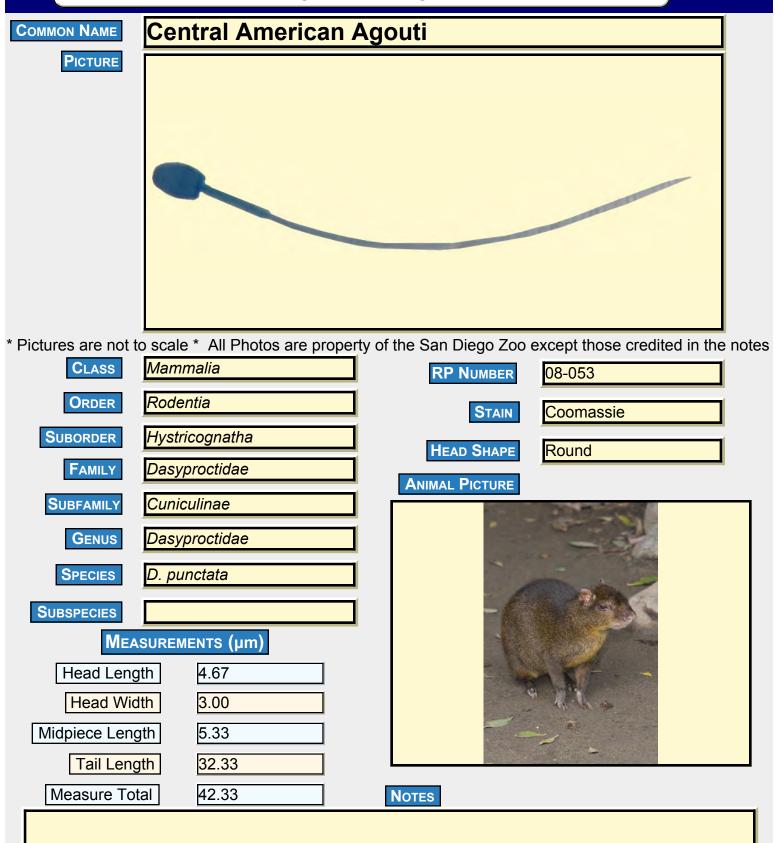
Notes

CLASS Mammalia ORDER Carnivora STAIN Coomassie SUBORDER Caniformia FAMILY Ursidae SUBFAMILY Tremarctinae GENUS Tremarctos SPECIES T. ornatus MEASUREMENTS (µm)	COMMON NAME	Spectacled Bear
ORDER Carnivora STAIN Coomassie SUBORDER Caniformia FAMILY Ursidae SUBFAMILY Tremarctinae GENUS Tremarctos SPECIES T. ornatus MEASUREMENTS (µm)	PICTURE	
ORDER Carnivora STAIN Coomassie SUBORDER Caniformia HEAD SHAPE Paddle FAMILY Ursidae SUBFAMILY Tremarctinae GENUS Tremarctos SPECIES T. ornatus MEASUREMENTS (µm)		
SUBORDER Caniformia FAMILY Ursidae SUBFAMILY Tremarctinae GENUS Tremarctos SPECIES T. ornatus MEASUREMENTS (µm)	ORDER	Cornivoro
SUBSPECIES MEASUREMENTS (μm) ANIMAL PICTURE ANIMAL PICTURE ANIMAL PICTURE	SUBORDER	Caniformia
Subspecies Measurements (μm)	FAMILY	Ursidae
Subspecies Measurements (µm)	SUBFAMILY	
Subspecies Measurements (µm)	GENUS	Tremarctos
MEASUREMENTS (μm)	SPECIES	T. ornatus
		SUREMENTS (µm)
Head Length 5.74	Head Lengt	th 5.74
Head Width 4.14	Head Widt	th 4.14
Midpiece Length 7.16		
Tail Length 55.36		
Measure Total 68.26 Notes	Measure Tota	al 68.26 Notes

COMMON NAME	Siberian Musk De	er	
PICTURE			
Pictures are not	to scale * All Photos are prope	erty of the San Diego Zoo	except those credited in the note
CLASS	<u>Mammalia</u>	RP Number	04-137
ORDER	Artiodactyla	STAIN	Coomassie
SUBORDER	Ruminantia	HEAD SHAPE	Paddle
FAMILY	Moschidae		radule
SUBFAMILY	Moschinae	ANIMAL PICTURE	
GENUS	Moschus		
SPECIES	M. moschiferus		
SUBSPECIES			
	ASUREMENTS (µm)		
Head Len	gth 8.00		
Head Wi	dth 5.00		
Midpiece Len	gth 15.00	4	
Tail Len	gth 43.00		
Measure To	otal 66.00	Notes	
Cytoplasmic dr	oplet present due to sperm bei	ng extracted directly from	the vas deferens



COMMON NAME	Chinese Bharal	
PICTURE		S DATE
	to scale * All Photos are property of the San Diego Zoo except those credited in	the notes
CLASS	Mammalia RP Number 06-024	_
ORDER	Artiodactyla Giemsa	
SUBORDER	Ruminantia Head Shape Oval	7
FAMILY	Bovidae ANIMAL PICTURE	_
SUBFAMILY	Caprinae	
GENUS	Pseudois	
SPECIES	P. nayaur	
SUBSPECIES	P. nayaur szechuanensis	
MEA	ASUREMENTS (µm)	
Head Leng	gth 8.16	
Head Wid	dth 4.53	
Midpiece Leng	gth 14.80	
Tail Leng	gth 43.46	
Measure Tot	otal 66.43 Notes	



COMMON NAME	Blesbok	
PICTURE		
		rty of the San Diego Zoo except those credited in the no
CLASS	Mammalia	RP Number 08-056
ORDER	Artiodactyla	STAIN Giemsa
SUBORDER	Ruminantia	HEAD SHAPE Round
FAMILY	Bovidae	
SUBFAMILY	Alcelaphinae	ANIMAL PICTURE
GENUS	Damaliscus	79
SPECIES	D. Dorcas	
SUBSPECIES		
MEA	SUREMENTS (µm)	
Head Leng	6.70	
Head Wid	3.98	
Midpiece Leng	gth 11.74	
Tail Leng	yth 46.62	
Measure Tot	65.06	Notes

COMMON NAME	Ruwenzori Long-hai	red Rousette (Fruit Bat)
PICTURE		
* Pictures are not to	o scale * All Photos are property	of the San Diego Zoo except those credited in the note
CLASS	<u>Mammalia</u>	RP Number 03-081
ORDER	Chiroptera	STAIN Pap
SUBORDER	Megachiroptera	
FAMILY	Pteropodidae	HEAD SHAPE Round
SUBFAMILY		ANIMAL PICTURE
GENUS	Rousettus	
SPECIES	R. lanosus	
SUBSPECIES		
MEAS	SUREMENTS (µm)	
Head Leng	th 3.98	
Head Wid	1th 3.12	
Midpiece Leng	oth 15.57	Secretary Control of the Control of
Tail Leng	gth 68.16	
Measure Total	al 87.71	Notes
The entire tail is	not captured in photograph of spe	erm because of its length.

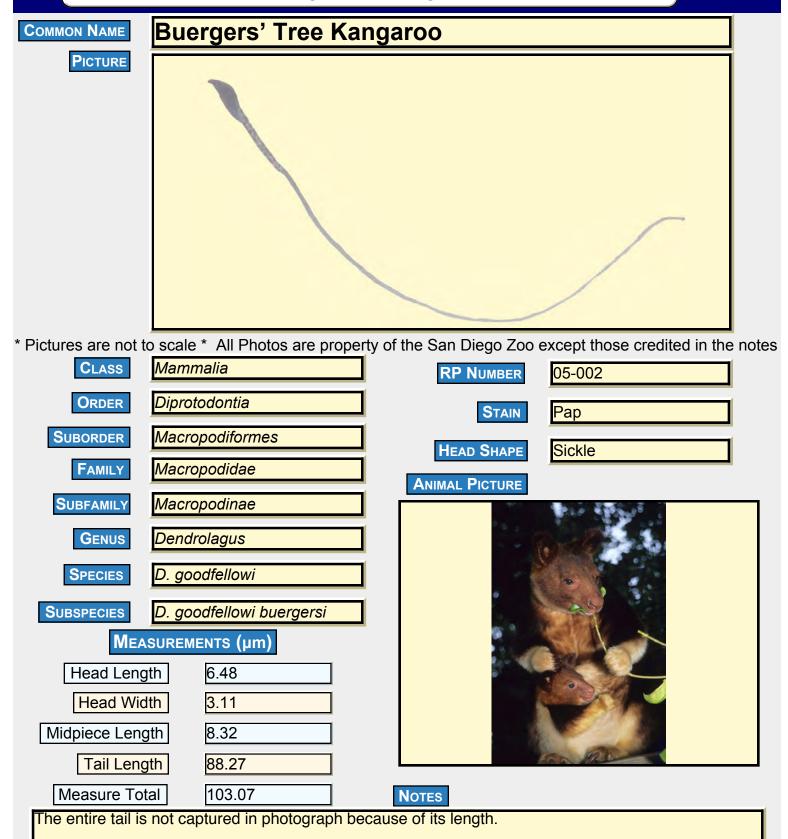
COMMON NAME	San Diego Gopher Snake	
PICTURE		
	o scale * All Photos are property of the San Diego Zoo except those credited in the not	es
CLASS	RP Number 88-197	
ORDER	<u>Squamata</u> <u>Pap</u>	
SUBORDER	Serpentes HEAD SHAPE Filiformal	
FAMILY	Acrochordidae ANIMAL PICTURE	
SUBFAMILY	Colubrinae	
GENUS	Pituophis	
SPECIES	P. melanoleucus	
SUBSPECIES	P. melanoleucus annectens	
MEA	SUREMENTS (µm)	
Head Leng	th 6.25	
Head Wid	lth 2.50	
Midpiece Leng	oth 3.75	
Tail Leng	77.50	

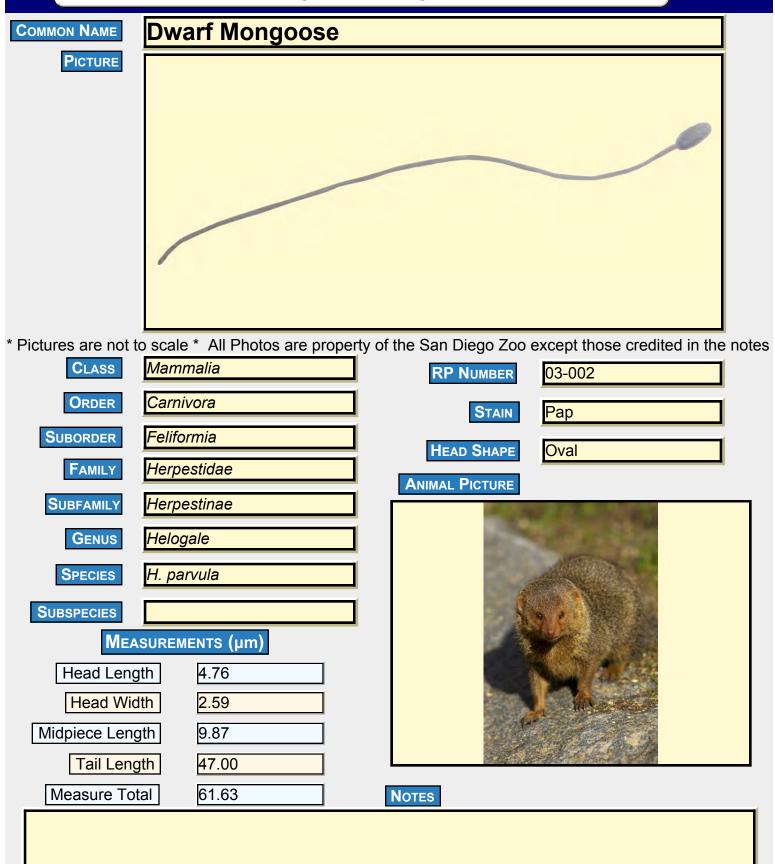
Notes

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

87.50

Measure Total





Bottlenose Dolphin

PICTURE

Bottlenose Dolphin

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

CLASS Mammalia

ORDER Cete

Suborder Cetacea

FAMILY Delphinidae

Subfamily Delphinae

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

RP Number

03-216

STAIN

Pap

HEAD SHAPE

Oval

ANIMAL PICTURE



Notes

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

COMMON NAME

Grand Cayman Iguana

PICTURE



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

CLASS Sauropsida

ORDER Squamata

Suborder Lacertilia

FAMILY Iguanidae

SUBFAMILY

GENUS

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

RP Number

04-099

STAIN

None

HEAD SHAPE

Filiformal

ANIMAL PICTURE

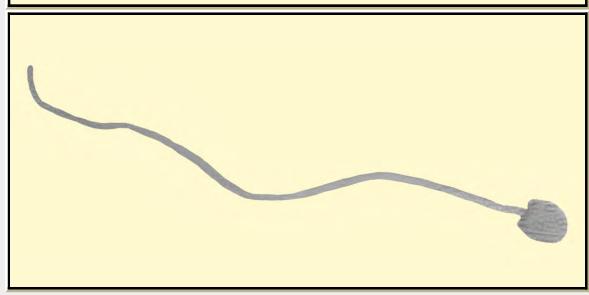


Notes

COMMON NAME

California Sea Lion

PICTURE



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

CLASS

Mammalia

ORDER

Carnivora

SUBORDER

Pinnipedia

FAMILY

Otariidae

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

RP NUMBER

04-121

STAIN

Pap

HEAD SHAPE

Round

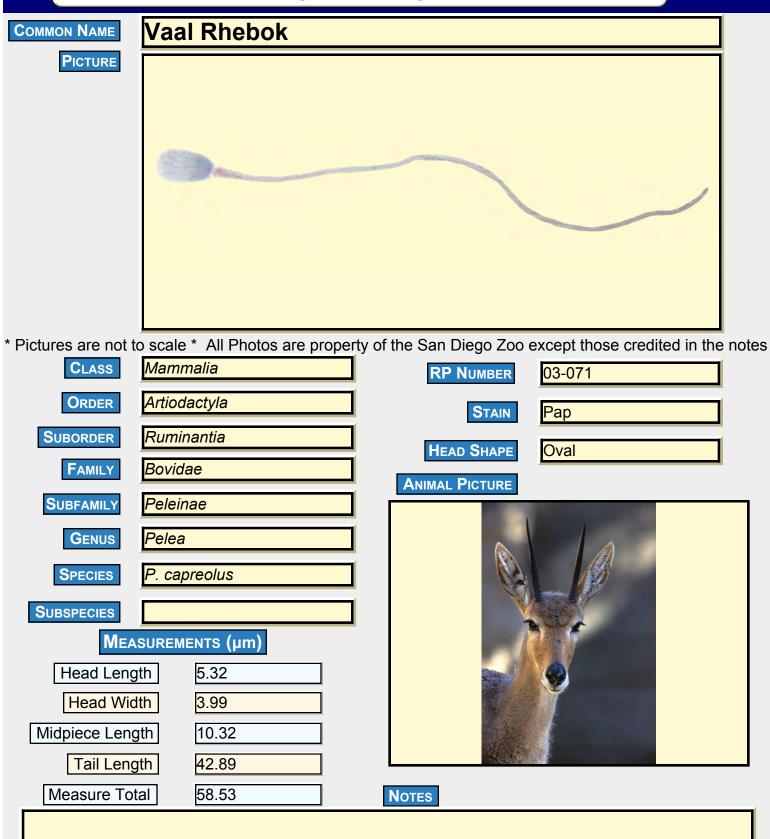
ANIMAL PICTURE



Notes

COMMON NAME	Somali Wild Ass
PICTURE	
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the not Mammalia RP Number 03-059
ORDER	Perissodactyla Pap
SUBORDER	HEAD SHAPE Oval
FAMILY	Equidae ANIMAL PICTURE
SUBFAMILY	
GENUS	Equus
SPECIES	E. africanus
SUBSPECIES	E. africanus somalicus
MEA	SUREMENTS (µm)
Head Leng	oth 6.32
Head Wid	2.37
Midpiece Leng	gth 10.27
Tail Leng	59.25 South State of the state
Measure Tot	
accentric head a	attachment is normal

COMMON NAME	Kinkajou (Honey Bear)
PICTURE	
* Pictures are not to	to scale * All Photos are property of the San Diego Zoo except those credited in the not Mammalia RP Number 04-103
ORDER	Carnivora
SUBORDER	Caniformia
FAMILY	Procvonidae Round
SUBFAMILY	Bassariscinae ANIMAL PICTURE
GENUS	Potos
Species	P. flavus
SUBSPECIES	ASUREMENTS (µm)
Head Leng	
Head Wid	3.95
Midpiece Leng	gth 21.33
Tail Leng	gth 52.93
Measure Tot	79.79 Notes



COMMON NAME	Ring-Tailed Lemur
PICTURE	
	scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 04-156
ORDER	<u>Primates</u> STAIN Pap
SUBORDER	Strepsirrhini HEAD SHAPE Round
FAMILY	Lemuridae ANIMAL PICTURE
SUBFAMILY	Lemurinae
GENUS	Lemur
SPECIES	L. catta
SUBSPECIES	
	SUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Tail Leng	
Measure Total	

PICTURE			
		0	
	cale * All Photos are property o	of the San Diego Zoo	except those credited in the not
ORDER Ar	tiodactyla	STAIN	Coomassie
	uminantia	HEAD SHAPE	Oval
	iraffidae	ANIMAL PICTURE	
	iraffinae	10-	1
GENUS	kapia		
SPECIES O.	. johnstoni		
SUBSPECIES		64	
	REMENTS (µm)		
Head Length	4.46		
Head Width	2.31		
Midpiece Length			
Tail Length		Norma	
Measure Total	51.01	Notes	

COMMON NAME	Columbia Basin Py	gmy Rabbit	
PICTURE			
* Pictures are not t	o scale * All Photos are proper		except those credited in the note
		RP Number	06-100
ORDER	Lagomorpha	STAIN	Pap
SUBORDER		HEAD SHAPE	Oval
FAMILY	Leporidae	ANIMAL PICTURE	
SUBFAMILY			
GENUS	Brachylagus		
SPECIES	B. idahoensis		
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng	7.50		
Head Wid	4.00		
Midpiece Leng	15.00		
Tail Leng	25.50	1/1/10	

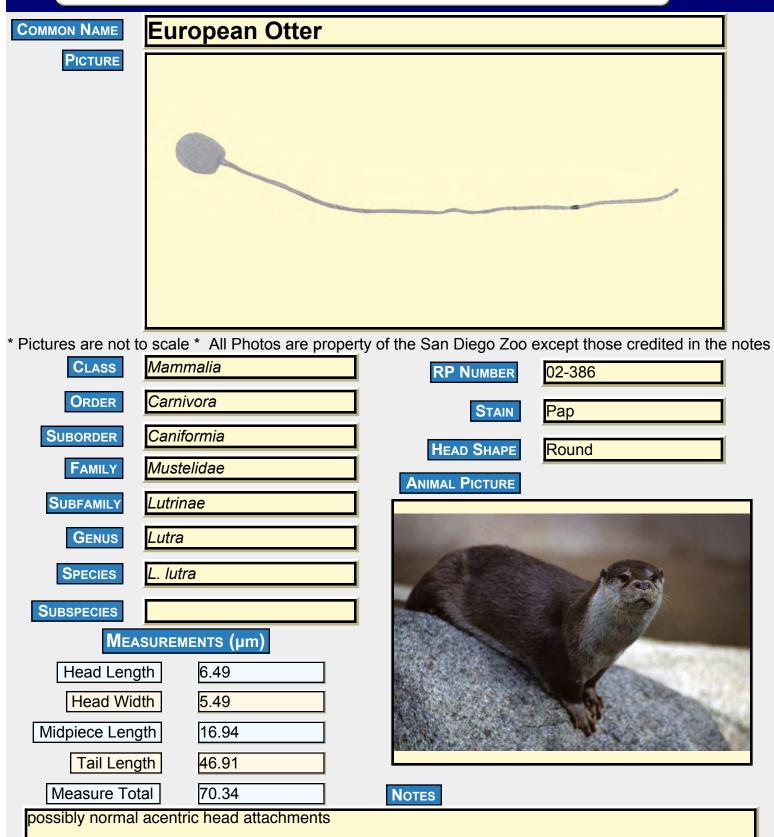
Cytoplasmic droplet present due to sperm being extracted directly from the vas deferens Photo credit: Copyright Oregon Zoo

Notes

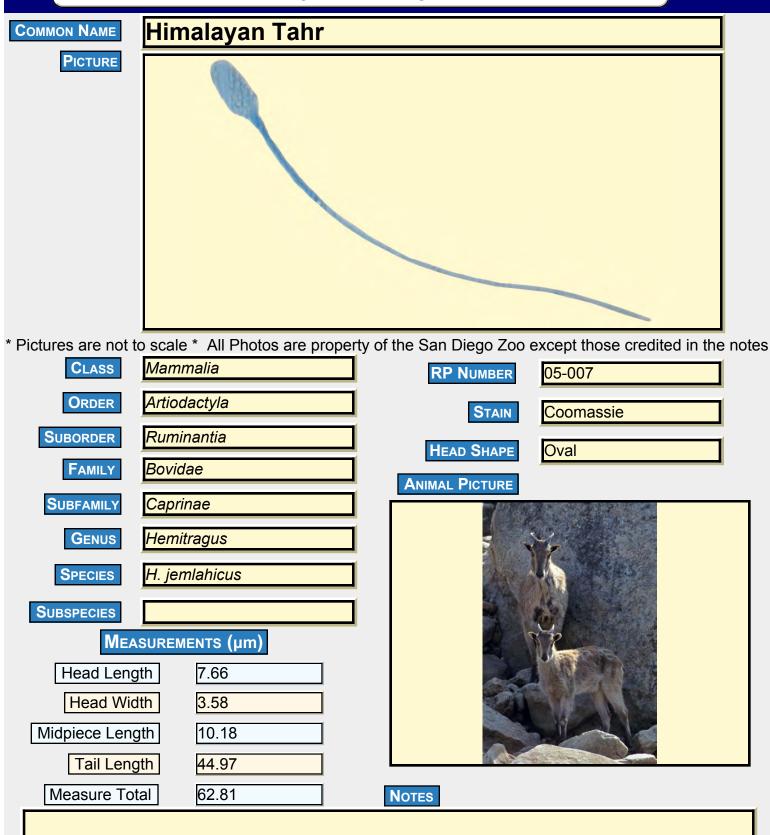
Measure Total

48.00

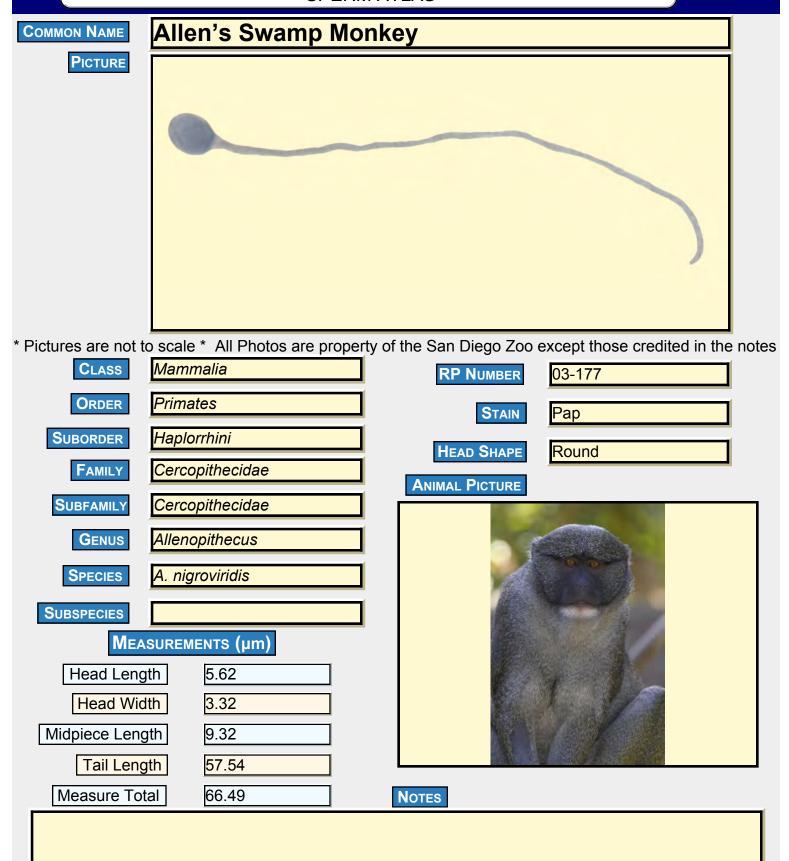
South African Aardvark COMMON NAME **PICTURE** Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes CLASS Mammalia **RP NUMBER** 08-013 ORDER Tubulidentata Pap STAIN SUBORDER HEAD SHAPE Oval Orycteropodidae FAMILY ANIMAL PICTURE SUBFAMILY GENUS Orycteropus O. after SPECIES SUBSPECIES MEASUREMENTS (µm) Head Length 6.00 Head Width 3.75 Midpiece Length 24.00 Tail Length 63.50 Measure Total 93.50 Notes



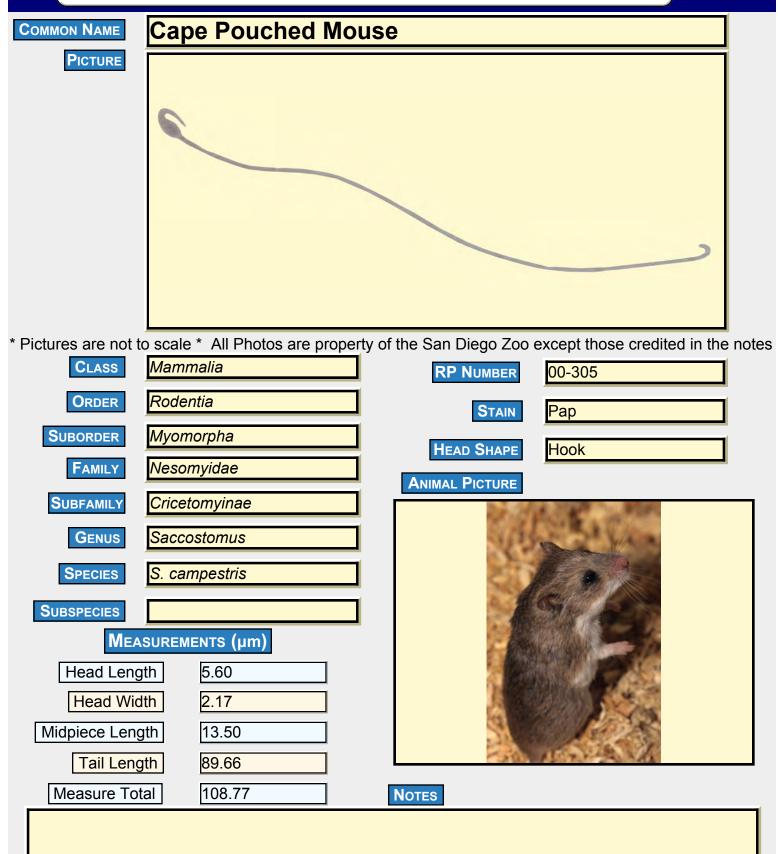
COMMON NAME	Feather-Tailed Glider	
PICTURE		
* Pictures are not to	to scale * All Photos are property of the San Diego Zoo except those credited Mammalia RP Number 03-278	in the notes
ORDER	Diprotodontia STAIN Pap	
SUBORDER	Phalangerida Head Shape Oval	=
FAMILY	Acrobatidae ANIMAL PICTURE	
SUBFAMILY		
GENUS	Acrobates	
SPECIES	Acrobates pygmaeus	
Subspecies	The state of the s	
	ASUREMENTS (µm)	
Head Leng		
Head Wid		
Midpiece Leng		
Tail Leng		
Measure Total	otal 102.43 Notes	

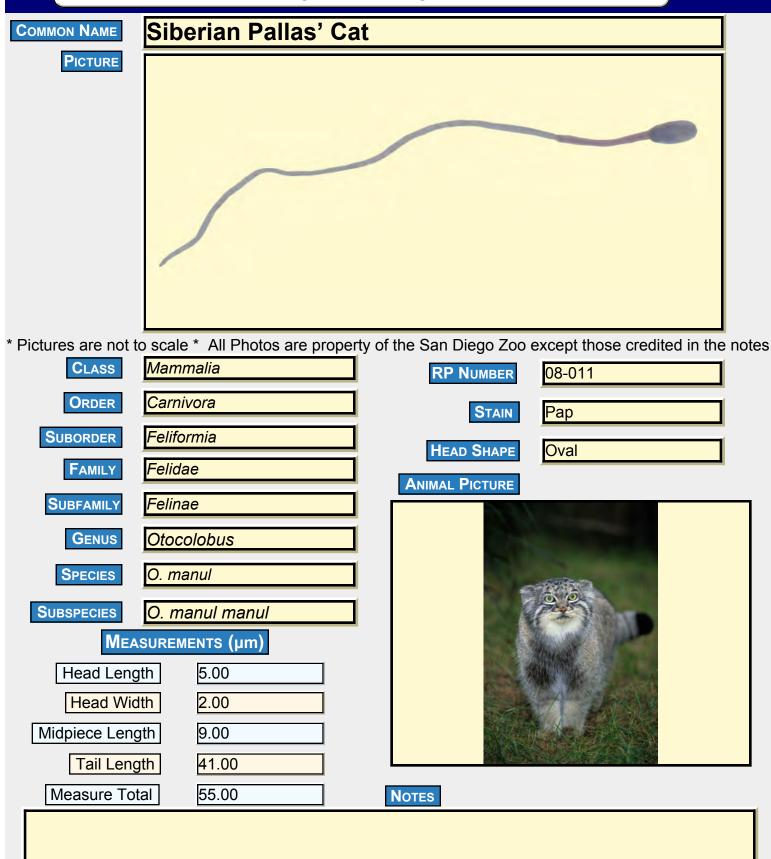


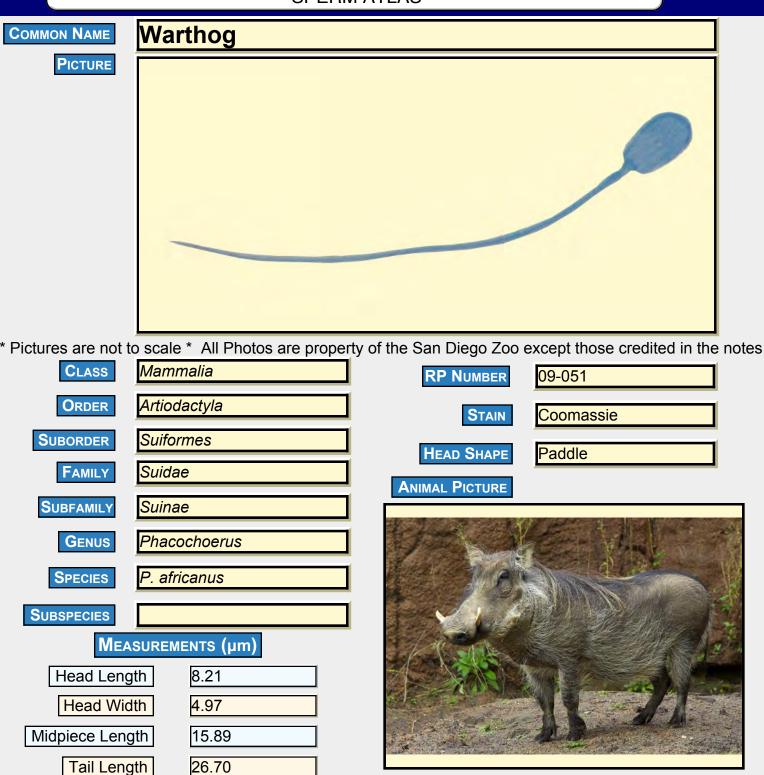
COMMON NAME	Persian Leopard
PICTURE	
* Pictures are not to	scale * All Photos are property of the San Diego Zoo except those credited in the no Mammalia RP Number 03-052
ORDER	Carnivora STAIN Pap
SUBORDER	Feliformia HEAD SHAPE Oval
FAMILY	Felidae ANIMAL PICTURE
SUBFAMILY	Pantherinae
GENUS SPECIES	Panthera P. pardus
Subspecies	P. pardus saxicolor
Head Leng	th 4.48
Head Wid	
Midpiece Leng	
Tail Leng	
Measure Tot	Al Notes



COMMON NAME	East African River	^r Hippopotamus	
PICTURE			
		erty of the San Diego Zoo	except those credited in the no
CLASS	Mammalia	RP Number	87-146
ORDER	<u>Artiodactyla</u>	STAIN	H&E
SUBORDER	Suiformes	HEAD SHAPE	Round
FAMILY	Hippopotamidae	ANIMAL PICTURE	<u> </u>
SUBFAMILY	Hippopotaminae	ANIMAL PICTURE	
GENUS	Hippopotamus	1	
SPECIES	H. amphibius		
SUBSPECIES	ASUREMENTS (µm)		
Head Leng	gth 3.00		
Head Wid	dth		
Midpiece Len	gth 4.00		
Tail Len	gth 45.00		
Measure To	otal 52.00	Notes	



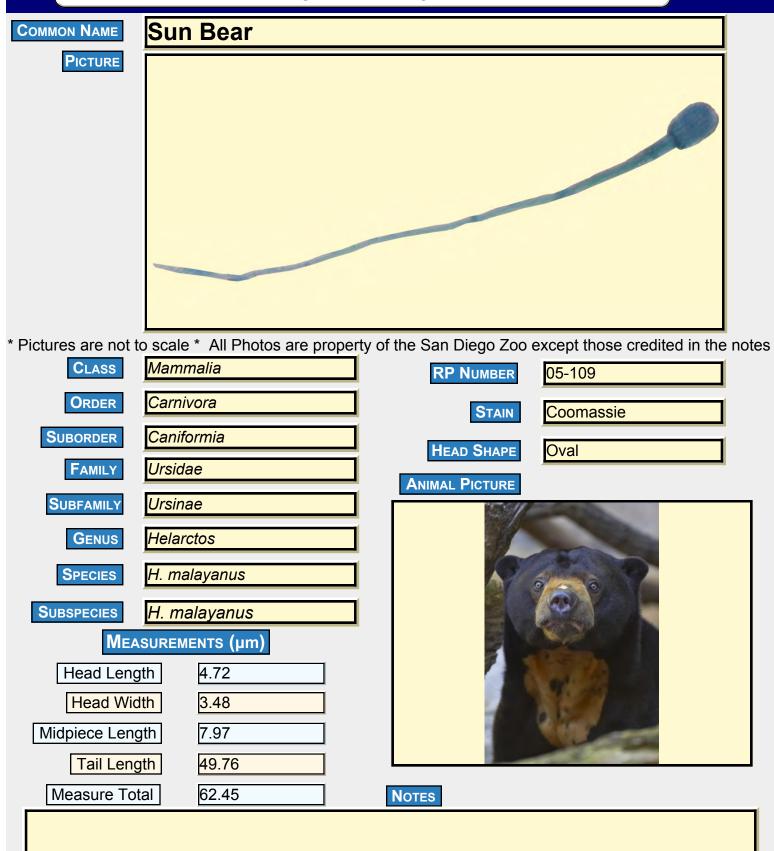




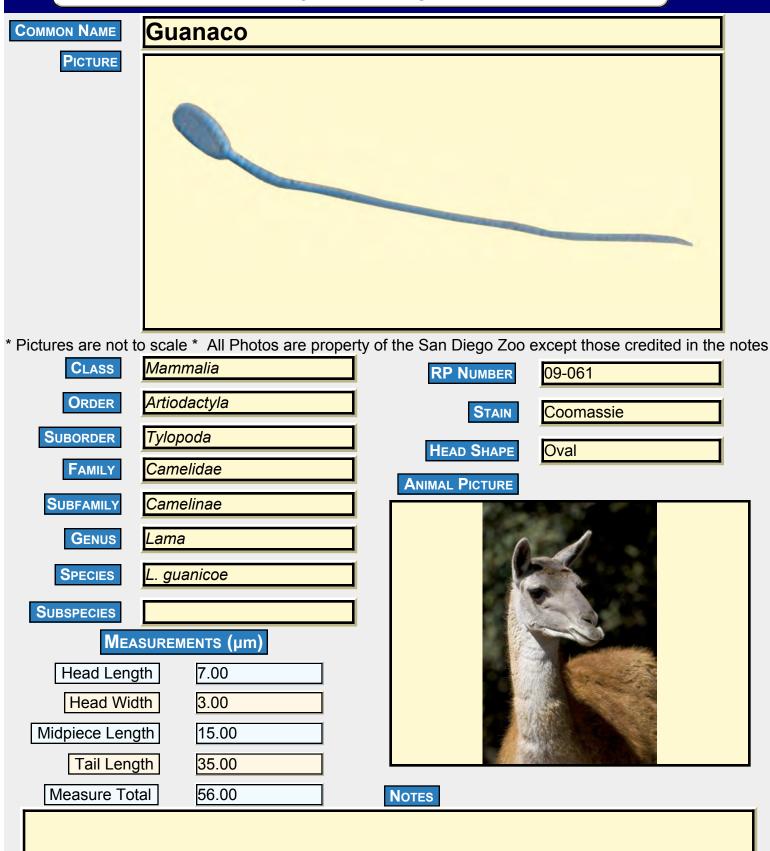
Notes

Measure Total

50.80



COMMON NAME	Eas	tern Kianç	3			
PICTURE						
			e property o	f the San Diego Zoo	except those credited in th	e notes
CLASS	Mamn	nalia		RP Number	07-205]
ORDER	Periss	odactyla		STAIN	Pap	1
SUBORDER	Hippo	morpha		HEAD SHAPE	Oval	1
FAMILY	Equida	ae		ANIMAL PICTURE	Ovai	4
SUBFAMILY				ANIMAL PICTURE	ALVIER END	
GENUS	Equus	3		-		
SPECIES	E. kiai	ng				
SUBSPECIES	E. kiai	ng holdereri				
MEA	SUREMI	ЕNTS (µm)		A		
Head Leng	jth	5.50				
Head Wid	lth	3.00				
Midpiece Leng	gth	9.00				
Tail Leng	gth	43.50				
Measure Tot	tal	58.00		Notes		
Most sperm app	ear to h	nave accentric h	nead attachn	nents.		



	OI EI IIVI	TTETTO		
COMMON NAME	Bengal Slow Loris			
PICTURE				
	scale * All Photos are property	of the San Diego Zoo	except those credited in the	notes
CLASS	Mammalia	RP NUMBER	04-176	
ORDER	Primates	STAIN	None	
SUBORDER	Euprimates	HEAD SHAPE	Round	
FAMILY	Lorisidae	ANIMAL PICTURE	1.00.10	
SUBFAMILY		ANIMALTIOTORE		
GENUS	Nycticebus			
SPECIES	N. bengalensis			
SUBSPECIES			(0)	
MEAS	SUREMENTS (µm)			
Head Leng	th 5.50			
Head Wid	th 3.75			
Midpiece Leng				
Tail Leng				
Measure Tota	al 72 50	Notes		

COMMON NAME	Kenya Impala
PICTURE	
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Mammalia RP Number
ORDER	Artiodactyla Giemsa
SUBORDER	HEAD SHAPE Paddle
FAMILY	Bovidae ANIMAL PICTURE
SUBFAMILY	Animal Picture Animal Picture
GENUS	Aepyceros
SPECIES	A. melampus
SUBSPECIES	
	SUREMENTS (µm)
Head Leng	
Head Wid	1th 5.71
Midpiece Leng	gth 11.77
Tail Leng	38.36
Measure Tot	tal 56.05 Notes

COMMON NAME	Javan Rusa
PICTURE	
	and the second of the second o
* Pictures are not to	to scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Mammalia RP NUMBER
ORDER	Artiodactyla Pap
SUBORDER	HEAD SHAPE Paddle
FAMILY	Cervidae ANIMAL PICTURE
SUBFAMILY	Cervinae Rusa
SPECIES	R. timorensis
SUBSPECIES	T. amorensis
	ASUREMENTS (µm)
Head Leng	9.14
Head Wid	
Midpiece Leng	
Tail Leng Measure Tot	

COMMON NAME	Addax
PICTURE	
* Pictures are not t	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number
ORDER	Artiodactyla Giemsa Giemsa
SUBORDER	
FAMILY	Bovidae Oval
SUBFAMILY	Hippotragnae ANIMAL PICTURE
GENUS	Addax
SPECIES	A. nasomaculatus
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 6.92
Head Wic	4.29
Midpiece Leng	gth 10.71
Tail Leng	gth 41.76
Measure Tot	tal 59.39 Notes

COMMON NAME	Malayan Tiger
PICTURE	
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammala RP Number
ORDER	Carnivora Pope
SUBORDER	HEAD SHAPE Round
FAMILY	Felidae
SUBFAMILY	ANIMAL PICTURE
GENUS	Panthera
SPECIES	P. tigris
SUBSPECIES	P. t. jacksoni
MEA	SUREMENTS (µm)
Head Leng	9th 4.00
Head Wid	3.00
Midpiece Leng	7.00
Tail Leng	9th 46.00
Measure Tot	tal 57.00 Notes

COMMON NAME	Pere David's Deer
PICTURE	
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Mammalia RP Number
ORDER	Artiodactyla Giemsa
SUBORDER	
FAMILY	Cervidae Paddle
SUBFAMILY	Cervinae ANIMAL PICTURE
GENUS	Elaphurus
Species	E. davidianus
	E. davidiarius
SUBSPECIES	
	SUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Tail Leng	
Measure Tot	tal 59.63 Notes

COMMON NAME	Speke's Gazelle
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Mammalia RP Number
ORDER	Artiodactyla Pap
SUBORDER	HEAD SHAPE Paddle
FAMILY	Boyidae
SUBFAMILY	Antilopinae Animal Picture
GENUS	Gazella
SPECIES	G. spekei
SUBSPECIES	ASUREMENTS (µm)
Head Leng	gth 6.00
Head Wid	dth 4.00
Midpiece Len	gth 10.00
Tail Leng	gth 45.00
Measure To	tal 65.00 Notes

PICTURE Trans-pecos Copperhead

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

CLASS Reptilia

ORDER Squamata

Suborder Serpentes

Family Viperidae

Subfamily Crotalinae

GENUS Agkistrodon

Species Agkistrodon contortix

SUBSPECIES

MEASUREMENTS (µm)

Head Length 8.00

Head Width 1.00

Midpiece Length 35.00

Tail Length 40.00

Measure Total 83.00

RP Number

12-010

STAIN

None

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

COMMON NAME	Red Spitting Cobra	3	
PICTURE			
* Pictures are not t	to scale * All Photos are proper	ty of the San Diego Zoo	except those credited in the n
ORDER	Squamata		
SUBORDER	Serpentes	STAIN	None
FAMILY	Elapidae	HEAD SHAPE ANIMAL PICTURE	Filiformal
SUBFAMILY		ANIMAL FICTORE	
GENUS	Naja		
SPECIES	Naja pallida		
SUBSPECIES		Same and the same	
Head Leng	surements (µm)		
Head Wid			
Midpiece Leng			
Tail Leng	22.00	16	
Measure To	tal 99.00	Notes	

COMMON NAME	Echidna			
PICTURE				
	o scale * All Photos are proper			notes
CLASS	Mammalia	RP Number	12-049	
ORDER	Monotremata	STAIN	None	
SUBORDER		HEAD SHAPE	Helical	
FAMILY	Tachyglossidae	ANIMAL PICTURE		
SUBFAMILY				h
GENUS	Tachyglossus	150	11/2/2	2
SPECIES	Tachyglossus Aculeatus	Mill	William Start	r
SUBSPECIES				7 6
MEA	SUREMENTS (µm)			
Head Leng	th			
Head Wid	th			
Midpiece Leng	gth			
Tail Leng				No.
Measure Tot	al	Notes		

COMMON NAME	Silvered leaf monk	ey		
PICTURE				
		-		
	AND PERSONS ASSESSED.			
* Pictures are not t	o scale * All Photos are prope Mammalia	rty of the San Diego Zoo	except those credited in the r	notes
ORDER	Primates			
SUBORDER		STAIN	Giemsa	
FAMILY	Cercopithecidae	HEAD SHAPE	Round	
SUBFAMILY		ANIMAL PICTURE	No.	7
GENUS	trachypithecus			
SPECIES	trachypithecus cristatus cris			
SUBSPECIES			* Cydin	
MEA	SUREMENTS (µm)			
Head Leng				
Head Wid				
Midpiece Leng				
Tail Leng Measure Tot		Notes		
INICASUIC TO	[di] [J3.00	Notes		

COMMON NAME	Fiji Island Banded	l Iguana	
PICTURE			
		erty of the San Diego Zoo	except those credited in the note
CLASS	Reptilia	RP Number	12-058
ORDER	Squamata	STAIN	Pope
SUBORDER		HEAD SHAPE	Filiformal
FAMILY	Iguanidae		- Iniorrial
SUBFAMILY		ANIMAL PICTURE	
GENUS	Brachylophus	i l	AV
SPECIES	Brachylophus Fasciatus		
	<u> Draenylophas r asciatas</u>		
SUBSPECIES			
	ASUREMENTS (µm)		
Head Leng			
Head Wid			NO.
Midpiece Leng			
Tail Lenç			
Measure To	tal 82.50 not be distinguished from tail	Notes	

	9: E::	VI / (TE/(G	
COMMON NAME	Desert Big Horn (S	Sheep)	
PICTURE			
		0	
* Pictures are not	to scale * All Photos are prope	rty of the San Diego Zoo	except those credited in the note
CLASS	Mammalia Mammalia	RP Number	12-048
ORDER	<u>Artiodactyla</u>	STAIN	Giemsa
SUBORDER		HEAD SHAPE	Paddle
FAMILY	Bovidae	ANIMAL PICTURE	<u>r addic</u>
SUBFAMILY	Caprinae	100	56 N TV
GENUS	Ovis		
SPECIES	Ovis canadensis		
SUBSPECIES	Ovis canadensis nelsoni		
MEA	ASUREMENTS (µm)		
Head Leng			
Head Wid		and the	
Tail Leng			
Measure To		Notes	

COMMON NAME	Long-tailed Hornbi	II	
PICTURE			
			1
* Pictures are not CLASS	to scale * All Photos are proper	ty of the San Diego Zoo RP Number	except those credited in the note:
ORDER	Coraciiformes		
SUBORDER		STAIN	None
FAMILY	Bucerotidae	HEAD SHAPE	Filiformal
SUBFAMILY	Bucerotinae	ANIMAL PICTURE	
GENUS	Tropicranus	À	
SPECIES	Tropicranus albocristatus		
SUBSPECIES	ASUREMENTS (µm)		
Head Leng			
Head Wid	dth	100	
Midpiece Len	gth		
Tail Len	gth		A SHOW A PY
Measure To		Notes	
The midpiece o	f this sperm is abnormally curve	ed	

COMMON NAME	Mexican Lancehea	d Rattlesnake	
PICTURE			
		ty of the San Diego Zoo	except those credited in the notes
CLASS	Reptilia	RP Number	12-086
ORDER	Squamata	STAIN	Pope
SUBORDER	Serpentes	HEAD SHAPE	Filiformal
FAMILY	Viperidae		i illioittiai
SUBFAMILY	Crotalinae	ANIMAL PICTURE	
GENUS	Crotalus		
SPECIES	Crotalus polystictus		1 2 6 C
SUBSPECIES		03	
MEA	SUREMENTS (µm)		
Head Leng	9.00	7/1/5	
Head Wid	1.50		
Midpiece Leng	53.00		
Tail Leng	25.00		A A A A A A A A A A A A A A A A A A A
Measure Tot	87.00	Notes	

COMMON NAME	Black Bear
PICTURE	
* Pictures are not t	o scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 12-090
ORDER	Carnivora Pope
SUBORDER	HEAD SHAPE Round
FAMILY	Ursidae Animal Picture
SUBFAMILY	
GENUS	Ursus
SPECIES	Ursus americanus
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Tail Leng	
Measure Tot	tal 70.00 Notes

OMMON NAME	lala (Hawaiian Crow)
PICTURE	
ictures are not to sca	ale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS Ave	
ORDER Pas	Sseriformes
SUBORDER	
	HEAD SHAPE Helical
SUBFAMILY	ANIMAL PICTURE
GENUS	
SPECIES	vus Hawaiiensis
SUBSPECIES	
MEASURE	EMENTS (µm)
Head Length	17.00
Head Width	2.00
Midpiece Length	
Tail Length	19.00
	39.00 Notes

COMMON NAME	Sarus Crane	
PICTURE		
		-
		900
		160
* Pictures are not	t to scale * All Photos are property of the San Diego Zoo except those credite	d in the notes
CLASS	Aves RP Number 12-108	
ORDER	Gruiformes None	<u> </u>
SUBORDER		
FAMILY	Gruidae Filiformal	
SUBFAMILY	ANIMAL PICTURE	
GENUS	Grus	
SPECIES	Grus antigone	
SUBSPECIES	EASUREMENTS (μm)	
Head Leng		
Head Wid		
Midpiece Len		
Tail Len		
Measure To		

COMMON NAME	Bongo
PICTURE	
* Pictures are not t	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 11-061
ORDER	Artiodactyla Coomassie
SUBORDER	HEAD SHAPE Paddle
FAMILY	Bovidae ANIMAL PICTURE
SUBFAMILY	Bovinae
GENUS	<u>Tragelaphus</u>
SPECIES	Tragelaphus eurycerus
SUBSPECIES MEA	ASUREMENTS (µm)
Head Leng	9.00
Head Wid	
Midpiece Len	
Tail Leng	
Measure To	tal 52.00 Notes

COMMON NAME	Cape Clawless Ot	ter
PICTURE		
		erty of the San Diego Zoo except those credited in the not
CLASS	Mammalia	RP Number 11-041
ORDER	Carnivora	STAIN Coomassie
SUBORDER		HEAD SHAPE Round
FAMILY	Mustelidae	
SUBFAMILY	Lutrinae	ANIMAL PICTURE
GENUS	Aonyx	
SPECIES	Aonyc capensis capensis	
	renye capencie capencie	
SUBSPECIES	ASUREMENTS (µm)	
Head Leng		
Head Wid		
Midpiece Len		
Tail Len		
Measure To		Notes

	SPERM AT	LAS	
COMMON NAME	Francois' Langur		
PICTURE			
	scale * All Photos are property of		
	Mammalia	RP Number	11-049
ORDER	Primates	STAIN	Coomassie
SUBORDER		HEAD SHAPE	Round
FAMILY	Cercopithecidae	ANIMAL PICTURE	
SUBFAMILY		ANIWAL FICTURE	Control of the Contro
GENUS	Trachypithecus	British	
SPECIES	Trachpithecus francoisi		
SUBSPECIES			
MEAS	JREMENTS (µm)		
Head Length	5.00		
Head Width	3.00		
Midpiece Length	10.00		
Tail Length	45.00		

Notes

Measure Total

60.00

* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the n CLASS Mammalia RP NUMBER 10-129 ORDER Rodentia STAIN Giemsa SUBORDER FAMILY Cuniculidae ANIMAL PICTURE SUBFAMILY GENUS Cuniculus SPECIES Cuniculus Paca SUBSPECIES MEASUREMENTS (µm)	COMMON NAME	Lowland Paca
ORDER Rodentia STAIN Giemsa SUBORDER FAMILY Cuniculidae SUBFAMILY GENUS Cuniculus SPECIES Cuniculus Paca SUBSPECIES SUBSPECIES	PICTURE	
CLASS Mammalia ORDER Rodentia STAIN Giemsa SUBORDER FAMILY Cuniculidae SUBFAMILY GENUS Cuniculus SPECIES Cuniculus Paca SUBSPECIES SUBSPECIES	* Pictures are not to	scale * All Photos are property of the San Diego Zoo except those credited in the no-
SUBORDER FAMILY Cuniculidae ANIMAL PICTURE SPECIES Cuniculus STAIN GIETTISA HEAD SHAPE Paddle ANIMAL PICTURE SUBSPECIES SUBSPECIES		
SUBORDER FAMILY Cuniculidae ANIMAL PICTURE SUBFAMILY SPECIES Cuniculus SUBSPECIES SUBSPECIES	ORDER	Rodentia Giemsa
SUBFAMILY GENUS Cuniculus SPECIES Cuniculus Paca SUBSPECIES SUBSPECIES	SUBORDER	
GENUS Cuniculus SPECIES Cuniculus Paca SUBSPECIES	FAMILY	Cuniculidae
Subspecies Cuniculus Paca Subspecies	SUBFAMILY	
Subspecies	GENUS	Cuniculus
	SPECIES	Cuniculus Paca
		SUREMENTS (µm)
Head Length 5.00		
Head Width 3.00	Head Widt	th 3.00
Midpiece Length 7.00	Midpiece Leng	th 7.00
Tail Length 26.00	Tail Leng	th 26.00
Measure Total 38.00 Notes	Measure Tota	al Notes

COMMON NAME	Pot-bellied Pig			
PICTURE				
	o scale * All Photos are property	of the San Diego Zoo	except those credited in the	notes
CLASS	Mammalia	RP Number	12-039	
ORDER	Artiodactyla	STAIN	Coomassie	
SUBORDER		HEAD SHAPE	Paddle	
FAMILY	Suidae		i addie	
SUBFAMILY		ANIMAL PICTURE		
GENUS	Sus	10.00		
SPECIES	Sus scrofa	70		
SUBSPECIES				
	SUREMENTS (µm)			
Head Leng				
Head Wid		100		
Midpiece Len	gth		SHEWAY!	
Tail Len				
Measure To		Notes		

COMMON NAME	Cape aardwolf
PICTURE	
* Dictures are not t	re scale * All Dhotos are preparty of the San Diogo Zoo except those gradited in the note
CLASS CLASS	to scale * All Photos are property of the San Diego Zoo except those credited in the note: Number 86-116
ORDER	Carnivora
SUBORDER	STAIN Giemsa
FAMILY	Head Shape Oval
SUBFAMILY	Protelinae ANIMAL PICTURE
GENUS	Proteles
SPECIES	Proteles cristata cristata
	Proteies cristata cristata
SUBSPECIES	
	SUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Tail Leng	52.00
Measure Tot	tal 63.00 Notes

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

COMMON NAME	Lowland Anoa	
PICTURE		
* Pictures are not	to scale * All Photos are prop	perty of the San Diego Zoo except those credited in the not
CLASS	Mammalia	RP Number 10-113
ORDER	<u>Artiodactyla</u>	STAIN Giemsa
SUBORDER		<u> </u>
FAMILY	Bovidae	HEAD SHAPE Paddle
SUBFAMILY	Bovinae	ANIMAL PICTURE
GENUS	Bubalus	
SPECIES	Bubalus depressicornis	
SUBSPECIES		
MEA	ASUREMENTS (µm)	
Head Leng	gth 8.00	
Head Wid	dth 4.00	
Midpiece Len	gth 17.00	
Tail Leng	gth 32.00	
Measure To	tal 57.00	Notes
the sperm was	epididymal therefore there is	a cytoplasmic droplet present

Common Name	Fringe-ear	ed oryx			
PICTURE					
		•			
* Dictures are not	to scale * All Phot	os are property o	of the San Diego Zoo	except those credit	red in the note
CLASS	Mammalia	os are property c	RP Number	13-001	
ORDER	<u>Artiodactyla</u>		STAIN	Coomassie	
SUBORDER					
FAMILY	Bovidae		HEAD SHAPE	Paddle	
SUBFAMILY			ANIMAL PICTURE		
GENUS	Oryx				AND THE PERSON NAMED IN
SPECIES	Oryx beisa callot	tis			
	Gryx series carret				
SUBSPECIES	ASUREMENTS (µm)				9
Head Len				174	Print's
Head Wi					
Midpiece Len					
Tail Len			The second secon		
Measure To			Notes		
the sperm was	epididymal therefo	re there is a cyto	plasmic droplet pres	ent	

COMMON NAME	Fen	nec Fox	(
PICTURE	•		•		6			•	
* Pictures are not t CLASS ORDER	o scale	malia	s are prope	erty of the	RP Numb		xcept those 10-004 Giemsa	credited in	the note
SUBORDER	Canic	lae]	HEAD SHA		Oval		
GENUS	vulpe					(
SPECIES SUBSPECIES MEA		es zerda IENTS (μm)			A	1			
Head Leng	ıth	6.00							Meat.
Head Wid	Ith	4.00		di					
Midpiece Leng	gth	13.00							
Tail Leng	<mark>th</mark>	37.00							
Measure Tot	al	56.00		Not	ES				

COMMON NAME	Lion-tail	ed Macaq	ue		
PICTURE					
		hotos are prop	erty of the San Diego Zoo	except those credited in the	e notes
CLASS	Mammalia		RP Number	10-069	
ORDER	Primates		STAIN	Giemsa	
SUBORDER			HEAD SHAPE	Round	
FAMILY	Cercopithecid	dae		rtourid	
SUBFAMILY			ANIMAL PICTURE		_
GENUS	macaca				
SPECIES	Macaca silen	us			
Subspecies	SUREMENTS (ım)			
Head Leng	th 4.74				1
Head Wid	th 3.16				
Midpiece Leng	th 11.85			THE WAY	
Tail Leng	th 43.45				
Measure Tot	60.04		Notes		

COMMON NAME	Malayan Sambar		
PICTURE			
* Pictures are not t	o scale * All Photos are prope Mammalia	erty of the San Diego Zoo	except those credited in the not
ORDER	Artiodactyla	STAIN	Giemsa
SUBORDER		HEAD SHAPE	Paddle
FAMILY	Cervidae	ANIMAL PICTURE	
SUBFAMILY	Cervinae		
GENUS	Cervus]	V Y
SPECIES	Cervus unicolor equina		
SUBSPECIES MEA	SUREMENTS (µm)		
Head Leng	8.00		
Head Wid	4.00	100	
Midpiece Leng		1	
Tail Leng			
Measure To	fal 63.00	Notes	

COMMON NAME	Per	sian Onage	er					
PICTURE								
								000
	/						-	8
* Pictures are not			property	of the San Die	ego Zoo e	except tho	se credited ir	the note
CLASS	Mami	malia		RP No	UMBER	09-131		
ORDER	Peris.	sodactyla			STAIN	Giemsa		
SUBORDER				HEAD	SHAPE	Oval		_
FAMILY	Equic	lae		ANIMAL PI		0.10.		_
SUBFAMILY				AMMAL	OTOKE	A THE SPACE OF	A Contract of the	
GENUS	Equu	s						
SPECIES	Equu	s hemionus onag	er		- 0.0	可知也中国		4
SUBSPECIES								
MEA	SUREM	IENTS (µm)						
Head Leng	gth	12.00			Xa			
Head Wid	dth	5.00						
Midpiece Len	gth	20.00						
Tail Leng	gth	85.00						
Measure To	tal	117.00		Notes				,
the sperm was	epididy	mal therefore the	re is a cyto	oplasmic drop	let prese	nt		

COMMON NAME	Prz	Przewalski's Horse						
PICTURE								
Pictures are not	to scale		re property		ego Zoo e _{UMBER}	xcept thos	e credited in th	ne no
ORDER		sodactyla	=			Ciamaa		⊿ ¬
SUBORDER			=		STAIN	Giemsa		<u>_</u>
FAMILY	Equid	'ae	=		SHAPE	Oval		_
SUBFAMILY			_	ANIMAL PI	ICTURE			
GENUS	Equus	S	_				700	
SPECIES		s Ferus						
SUBSPECIES			=					
	ASUREM	ENTS (µm)						
Head Len		5.60				WYAY		
Head Wi	dth	2.80		ON THE	-11-	in Almy	A STATE OF THE STA	
Midpiece Len	gth	6.40						
Tail Len	gth	44.00						
Measure To	otal	56.00		Notes				

COMMON NAME	Lowland Nyala	
PICTURE		
* Pictures are not t	to scale * All Photos are property	of the San Diego Zoo except those credited in the not
CLASS	Mammalia	RP Number 12-040
ORDER	Artiodactyla	STAIN Giemsa
SUBORDER		HEAD SHAPE Paddle
FAMILY	Bovidae	ANIMAL PICTURE
SUBFAMILY		
GENUS	Tragelaphus	
SPECIES	Tragelaphus angasii	
SUBSPECIES		
MEA	ASUREMENTS (µm)	
Head Leng	gth 10.00	
Head Wid		
Midpiece Leng		
Tail Leng		
Measure To	tal 66.00 epididymal therefore there is a cy	NOTES toplasmic droplet present

COMMON NAME	Angolan Roan Ante	lope	
PICTURE			
Pictures are not t	o scale * All Photos are property Mammalia	of the San Diego Zoo o	except those credited in the note
ORDER		STAIN	Giemsa
SUBORDER		HEAD SHAPE	Oval
FAMILY	Bovidae	ANIMAL PICTURE	
SUBFAMILY	Hippotragus		THE RESERVE
SPECIES	Hippotragus equinus cottoni	100	
SUBSPECIES			
	SUREMENTS (µm)		
Head Leng			
Midpiece Leng			
Tail Leng	gth 38.00		
Measure To	fal 64.00	Notes	

Indochinese Sika	
	ty of the San Diego Zoo except those credited in the note
	RP Number 11-135
	STAIN
Cervidae	HEAD SHAPE Paddle
Cervinae	ANIMAL PICTURE
Cervus	
Cervus nippon pseudaxis	
SUREMENTS (µm)	
7.00	
h 4.00	
th 11.00	
h 41.00	
T 50.00	Notes
	scale * All Photos are proper Mammalia Artiodactyla Cervidae Cervinae Cervus Cervus nippon pseudaxis SUREMENTS (µm) h

COMMON NAME West Caucasian Tur	
PICTURE	
* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the	 e notes
CLASS Mammalia RP Number 09-165	
ORDER Artiodactyla STAIN Giemsa	
SUBORDER HEAD SHAPE Paddle	
FAMILY Bovidae ANIMAL PICTURE	
SUBFAMILY	\neg
Capra Capra	
SPECIES Capra Caucasia	
Subspecies	
MEASUREMENTS (μm)	4
Head Length 8.00	
Head Width 4.00	
Midpiece Length 12.00	
Tail Length 30.00	
Measure Total 50.00 Notes	

COMMON NAME	White-lipped deer
PICTURE	
* Pictures are not t	o scale * All Photos are property of the San Diego Zoo except those credited in the note
	Artical catula
ORDER	Artiodactyla Stain Giemsa
SUBORDER	HEAD SHAPE Paddle
FAMILY	Cervidae ANIMAL PICTURE
SUBFAMILY	Cervinae
GENUS	Cervus
SPECIES	Przewalskium albirostris
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 8.00
Head Wid	4.00
Midpiece Leng	gth 12.00
Tail Leng	gth 44.00
Measure Tot	tal 64.00 Notes
the sperm was e	epididymal therefore there is a cytoplasmic droplet present

COMMON NAME	Zambian Sable Antelope
PICTURE	
* Pictures are not	o scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Mammalia RP Number 10-128
ORDER	Artiodactyla Giemsa
SUBORDER	HEAD SHAPE Oval
FAMILY	Bovidae ANIMAL PICTURE
SUBFAMILY	
GENUS	Hippotragus
SPECIES	Hippotragus niger
SUBSPECIES MEA	SUREMENTS (µm)
Head Leng	7.00
Head Wid	
Midpiece Len	
Tail Len	
Measure To	Popididymal therefore there is a cytoplasmic droplet present

COMMON NAME	Sumatran Tiger	
PICTURE		
Pictures are not CLASS ORDER	to scale * All Photos are prop Mammalia Carnivora	perty of the San Diego Zoo except those credited in the no
SUBORDER	Carriivora	STAIN Coomassie
FAMILY	Felidae	HEAD SHAPE Round ANIMAL PICTURE
GENUS	Panthera	
SPECIES	Panthera tigris	
SUBSPECIES MEA	Panthera tigris sumatrae ASUREMENTS (µm)	
Head Leng	gth 3.95	
Head Wid	dth 3.16	
Midpiece Len	gth 7.90	
Tail Len	gth 47.40	
Measure To	tal 59.25	Notes
sperm was epi	didymal therefore there is a cy	cytoplasmic droplet present

COMMON NAME	Mountain Yellow I	_egged Frog	
PICTURE			Ī
			Harry Control
	6		
			And the second
			and the second
* Pictures are not	to scale * All Photos are prope	erty of the San Diego Zoo	except those credited in the note
CLASS	Amphibia	RP Number	12-147
ORDER	Anura	STAIN	None
SUBORDER		HEAD SHAPE	Filiformal
FAMILY	Ranidae	ANIMAL PICTURE	
SUBFAMILY			
GENUS	Rana	1	6-
SPECIES	Rana muscosa]	
SUBSPECIES	12-147		
ME	ASUREMENTS (µm)	and the	35/8/
Head Leng			
Head Wid		10 To	
Midpiece Len		5745	
Measure To		Notes	
		HOTEO	

PICTURE	Tur	kmenistan Car	acal	
		-		
ctures are not	to scale			oo except those credited in the r
ORDER	Carni		RP NUMBER	
SUBORDER			HEAD SHAPE	
FAMILY	Felida	ne e	Animal Picture	
SUBFAMILY	Carac	eal		
SPECIES	Carac	cal Caracal Schmitzi		
SUBSPECIES	ACUDEM	ENTS (µm)		
Head Len		5.00		
Head Wi		2.00		
Midpiece Len	ngth	12.00		The same of the sa
		12.00 43.00		

COMMON NAME	Atlantic Croaker
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Actinopterygii RP Number
ORDER	Perciformes Stain None
SUBORDER	HEAD SHAPE Round
FAMILY	Sciaenidae Animal Picture
SUBFAMILY	
GENUS	<u>Micropogonias</u>
SPECIES	Micropongonias undulatus
SUBSPECIES	10 Carling
MEA	ASUREMENTS (µm)
Head Leng	gth
Head Wid	dth
Midpiece Leng	gth
Tail Leng	gth
Measure To	
A. Croaker photo	edit Chris Tubbs to credit Wenxian Tan

COMMON NAME	Javan Banteng		
PICTURE			
			0.00
	0		
* Pictures are not t	o scale * All Photos are property Mammalia	of the San Diego Zoo RP NUMBER	except those credited in the notes
ORDER	Artiodactyla		
SUBORDER		STAIN	Coomassie
FAMILY	Bovidae	HEAD SHAPE	Paddle
SUBFAMILY		ANIMAL PICTURE	
GENUS	Bos	150	
SPECIES	Bos javanicus javanicus		
SUBSPECIES			
	SUREMENTS (µm)	and the state of t	
Head Leng	7.00	+227 W	
Head Wid	4.50		
Midpiece Leng			LL BALL
Tail Leng			
Measure Tot	62.00	Notes	1

	SPERIV	AILAS		
Common Name	East African Sitatu	nga		
PICTURE		•		
CLASS	o scale * All Photos are proper	ty of the San Diego Zoo	except those credited in the n	ote
ORDER	Artiodactyla	STAIN	Coomassie	
SUBORDER	Bovidae	HEAD SHAPE	Paddle	
SUBFAMILY		ANIMAL PICTURE		
GENUS	Tragelaphus	2 1/		
SPECIES	Tragelaphus spekii spekii	A SAME		1
SUBSPECIES				1
Head Leng Head Wid Midpiece Leng	th 4.50			

Notes

Tail Length

Measure Total

35.00

55.00

COMMON NAME	Southeastern Cro	owned Duiker	
PICTURE			
* Pictures are not	to scale * All Photos are prop	perty of the San Diego Zoo	except those credited in the notes
CLASS	Mammalia	RP Number	11-055
ORDER	Artiodactyla	STAIN	Coomassie
SUBORDER		HEAD SHAPE	Paddle
FAMILY	Bovidae	ANIMAL PICTURE	i addic
SUBFAMILY	Cephalophinae	ANIMAL PICTURE	
GENUS	Sylvicapra		0
SPECIES	Sylvicapra grimmia caffra		
SUBSPECIES MEA	ASUREMENTS (µm)		
Head Len	gth 10.00		
Head Wi	dth 5.00		
Midpiece Len	gth 15.00		
Tail Len	gth 40.00		
Measure To		Notes	
the sperm was	epididymal therefore there is	a cytoplasmic droplet pres	ent

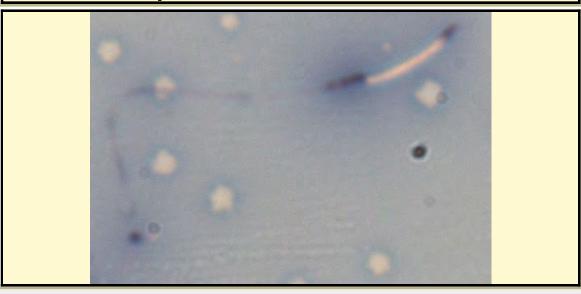
COMMON NAME	South American E	Bushmaster	
PICTURE			
		erty of the San Diego Zoo	except those credited in the not
CLASS	Reptilia	RP Number	13-027
ORDER	Squamata	STAIN	Pope
SUBORDER	Serpentes	HEAD SHAPE	Filiformal
FAMILY	Viperidae		inionna
SUBFAMILY	Crotalinae	ANIMAL PICTURE	
GENUS	Lachesis	2.63	
SPECIES	Lachesis Muta Muta	The state of the state of	and the latter with the latter
SUBSPECIES			
MEA	ASUREMENTS (µm)		
Head Len	gth 11.00		A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
Head Wi	dth 1.50		
	- (1-)		
Midpiece Len	gth 50.00		
Midpiece Len			

COMMON NAME	Gen	nsbok				
PICTURE					0	
* Pictures are not	to scale	* All Photos	are property	of the San Diego	Zoo except those	credited in the notes
CLASS	Mamr	nalia		RP Number	11-123	
ORDER	<u>Artiod</u>	actyla		STA	Giemsa	
SUBORDER				HEAD SHA	_	
FAMILY	Bovid	ae		ANIMAL PICTUI		
SUBFAMILY	<u>Hippo</u>	tragnae		ANIMALTICIO	NE .	
GENUS	Oryx					
SPECIES	Oryx (gazella		- 1		100
SUBSPECIES					11	
MEA	SUREM	ЕNTS (µm)				1000
Head Leng	gth	8.00			BYD	22
Head Wid	dth	4.00				200
Midpiece Len	gth	10.00			9	25
Tail Leng	gth	35.00				and the same of th
Measure To		54.00		Notes		
the sperm was	epididyi	mai therefore	tnere is a cyt	oplasmic droplet p	present	

COMMON NAME

Brown eared-pheasant

PICTURE



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

CLASS Aves

Aves

Galliformes

SUBORDER

Phasianidae Phasianidae

Subfamily Phasianinae

<u>Crossoptilon</u>

Species Crossoptilon mantchirucum

SUBSPECIES

ORDER

MEASUREMENTS (µm)

Head Length 11.00

Head Width 1.50

Midpiece Length 4.00

Tail Length 65.00

Measure Total 80.00

RP Number

90-076

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

Midpiece was hard to distinguish from tail

COMMON NAME

Komodo Dragon

PICTURE



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

CLASS Reptilia

Squamata

SUBORDER Lacertilia

ORDER

Family Varanidae

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

RP NUMBER

13-047

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

Sample was sent from the Forth Worth Zoo

Could not distinguish the midpiece from the tail so the length is combined

COMMON NAME	Killer Whale (orca)		
PICTURE			
		•	
	to scale * All Photos are property o	of the San Diego Zoo	except those credited in the note
CLASS	<u>Mammalia</u>	RP Number	88-204
ORDER	Cetacea	STAIN	H&E
SUBORDER	Odontoceti		Round
FAMILY	Delphinidae	HEAD SHAPE	Round
SUBFAMILY		ANIMAL PICTURE	
GENUS	Orcinus		
SPECIES	Orcinus orca	A CONTRACTOR OF THE PARTY OF TH	
SUBSPECIES			
MEA	ASUREMENTS (µm)		
Head Leng	gth		
Head Wid	dth		
Midpiece Leng	gth		
Tail Leng	gth		
Measure Tot	tal	Notes	
This comple we	o from a Cae Warld onimal		1

This sample was from a Sea World animal Animal Photo Credit: http://www.free-picture.net/albums/fishes/whales/killer-whale_1379938609.jpg

COMMON NAME	Uganda Giraffe (R	othschild Giraff	e)
PICTURE			
* Pictures are not t	to scale * All Photos are prope	erty of the San Diego Zoo	except those credited in the note
CLASS	Mammalia	RP Number	99-253
ORDER	Artiodactyla	STAIN	Pap
SUBORDER		HEAD SHAPE	Oval
FAMILY	Giraffidae	ANIMAL PICTURE	Ovui
SUBFAMILY		ANIWAL FICTURE	
GENUS	Giraffa		W V
SPECIES	giraffa camelopardalis		
SUBSPECIES		J. J. W.	Y
MEA	SUREMENTS (µm)		
Head Leng	gth 6.40		
Head Wid	3.20		在
Midpiece Leng	gth 10.40	The second state of	
Tail Lenç	gth 45.60		
Measure To		Notes	
the sperm was	epididymal therefore there is a	cytoplasmic droplet pres	ent

COMMON NAME	Green Anole	
PICTURE		
	o scale * All Photos are property of the San Diego Zoo except those credited in the no	te
CLASS	Reptilia RP Number 13-071	
ORDER	Squamata Pope	
SUBORDER	Iguania HEAD SHAPE Filiformal	
FAMILY	Polychrotidae Animal Picture	
SUBFAMILY	TIMINAL PROTORE	ı
GENUS	Anolis	
SPECIES	Anolis carolinensis	
SUBSPECIES		
	SUREMENTS (µm)	
Head Leng		
Head Wid	th 1.25	
Midpiece Leng	10.00	
Tail Leng	56.00	

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

Notes

Measure Total

80.00

COMMON NAME	Mainland Drill
PICTURE	
* D: 4	
* Pictures are not to CLASS	scale * All Photos are property of the San Diego Zoo except those credited in the note Mammalia RP NUMBER 03-156
ORDER	Primatos
	STAIN
SUBORDER	HEAD SHAPE Oval
FAMILY	Cercopithecidae ANIMAL PICTURE
SUBFAMILY	
GENUS	Mandrillus
SPECIES	Mandrillus leucophaeus
SUBSPECIES	
	SUREMENTS (µm)
Head Leng	
Head Wid	3.00
Midpiece Leng	th 9.00
Tail Leng	th 57.00
Measure Tot	70.00 Notes

COMMON NAME	Demoiselle Cran	е
PICTURE		
ا Pictures are not to	scale * All Photos are pro	operty of the San Diego Zoo except those credited in the not
CLASS	Aves	RP Number
ORDER	Gruiformes	STAIN Pope
SUBORDER		-
FAMILY	Gruidae	HEAD SHAPE Filiformal
SUBFAMILY		ANIMAL PICTURE
	Anthropoides	
	Anthropoides virgo	
SUBSPECIES		
MEAS	UREMENTS (µm)	COMPANY AND AND STATE OF
Head Length	12.00	
Head Width	1.00	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
Midpiece Lengt	n	
Tail Lengtl	50.00	
Measure Tota	62.00	Notes

COMMON NAME	Binturong
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Mammalia 03-262
ORDER	Carnivora Pap
SUBORDER	HEAD SHAPE Oval
FAMILY	Viverridae
SUBFAMILY	ANIMAL PICTURE
GENUS	Arctictis
SPECIES	Arctictis binturong
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	th 4.00
Head Wid	2.00
Midpiece Leng	15.00
Tail Leng	th 57.00
Measure To	76.00 Notes
Also known as	a bearcat

COMMON NAME	Banded Linsang		
PICTURE			
		rty of the San Diego Zoo	except those credited in the note
CLASS	<i>lammalia</i>	RP Number	98-360
ORDER	Carnivora	STAIN	Pap
SUBORDER		<u> </u>	
FAMILY	Prionodontidae	HEAD SHAPE	Oval
SUBFAMILY		ANIMAL PICTURE	
	Prionodon		
SPECIES	Prionodon linsang		
SUBSPECIES			
MEASU	IREMENTS (µm)		
Head Length	4.00		19.1"
Head Width	1.60	A. A.	沙 里丁二辛。人
Midpiece Length	20.00		
Tail Length	48.00		
Measure Total	72.00	Notes	

	SPERM A	ATLAS	
COMMON NAME	Royal Antelope		
PICTURE			
	•		0
* Pictures are not to CLASS	o scale * All Photos are property Mammalia		except those credited in the note
ORDER	Artiodactyla	RP Number	13-110
SUBORDER	, in a country in	STAIN	Giemsa
FAMILY	Bovidae	HEAD SHAPE	Oval
SUBFAMILY		ANIMAL PICTURE	
GENUS	Neotragus		
SPECIES	Neotragus pygmaeus		
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng		1	
Head Wid			

Notes

the sperm was epididymal therefore there is a cytoplasmic droplet present

41.00

60.00

Tail Length

Measure Total

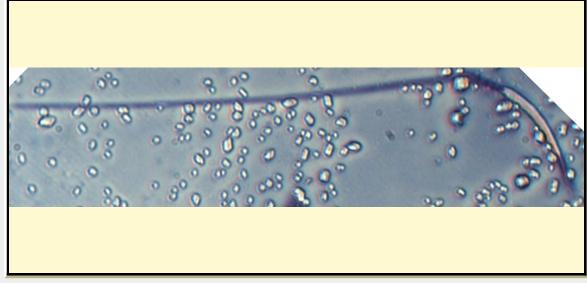
COMMON NAME	Sme)W				
PICTURE		•	0 0			
* Pictures are not t	to scale	* All Photos ar	e property of	the San Diego Zoo	except those credited in the	■ e note:
CLASS	<u>Aves</u>			RP Number	13-120]
ORDER	<u>Anseri</u>	formes		STAIN	None	- 1
SUBORDER				HEAD SHAPE	Filiformal	1
FAMILY	<u>Anatid</u>	ae		ANIMAL PICTURE	i illioirriai	
SUBFAMILY	<u>Mergir</u>	nae		ANIMAL PICTURE		
GENUS	Merge	llus				
SPECIES	Mergu	s albellus				
SUBSPECIES						
MEA	SUREME	Ентѕ (µm)				
Head Leng	gth	7.00				
Head Wid	dth	1.00				
Midpiece Leng	gth					
Tail Leng	gth	17.00				
Measure To		24.00		Notes		
No midpiece wa	as disce	rnible				

COMMON NAME	Eth	iopian Moun	tain Ad	lder		
PICTURE						
Pictures are not	to scale	e * All Photos are pr	roperty of th	ne San Diego Zoo	except those credi	ted in the note
CLASS	<u>Reptil</u>	lia		RP Number	13-132	
ORDER	Squar	mata		STAIN	Pope	
SUBORDER	Serpe	entes				
FAMILY	Viperi	idae	= ,	HEAD SHAPE	Filiformal	
SUBFAMILY	Viperi	inae	-	ANIMAL PICTURE		
GENUS	Bitis		5 L			
SPECIES	Bitis p	parviocula	_			The same of
SUBSPECIES						
ME	ASUREM	IENTS (µm)			The state of the s	
Head Len	gth	11.00				
Head Wi	dth	1.25				
Midpiece Len	gth	53.00				
Tail Len	gth	26.00				
Measure To	otal	90.00	N	OTES		

COMMON NAME

Green Iguana

PICTURE



RP NUMBER

HEAD SHAPE

ANIMAL PICTURE

STAIN

13-136

Pope

Filiformal

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

Reptilia CLASS

ORDER Squamata

SUBORDER

Iguanidae FAMILY

SUBFAMILY

GENUS Iguana

SPECIES Iguana iguana

SUBSPECIES

MEASUREMENTS (µm)

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

COMMON NAME	Maui Parrotbill	
PICTURE		
	to scale * All Photos are property of the San Diego Zoo except those credited in the r	note
CLASS	Aves RP Number 13-140	
ORDER	Passeriformes	
SUBORDER	HEAD SHAPE Helical	
FAMILY	Fringillidae ANIMAL PICTURE	
SUBFAMILY	Drepanidinae Protoke	
GENUS	Pseudonestor	
SPECIES	Pseudonestor xanthophrys	
SUBSPECIES	ASUREMENTS (µm)	
Head Leng		
Head Wic		
Midpiece Leng		
Tail Leng		
Measure To		
Cellular debris a	around tail due to the post mortem sample.	

COMMON NAME	Pua	iohi					
PICTURE							
* Pictures are not t	o scale	* All Photos are	property of	the San Diego Zo	oo except the	ose credited in the n	otes
CLASS	Aves			RP Number	<u>13-144</u>		
ORDER	Passe	riformes		STAIN	None		
SUBORDER				HEAD SHAPE			
FAMILY	Turdid	ae			_		
SUBFAMILY				ANIMAL PICTURE	3		
GENUS	Myade	estes					
SPECIES	Myade	estes palmeri		7			*
SUBSPECIES							
		ENTS (µm)	_			No. 11	1
Head Leng		10.00	_				
Head Wid		1.00					
Midpiece Leng				-120			
Tail Leng		95.00					
Measure To	tal			Notes			_

COMMON NAME	Atlantic Purple Sea U	Jrchin	
PICTURE			
			The state of the s
	THE RESERVE OF THE PARTY OF THE		POSTERNA
	THE RESERVE OF THE PARTY OF THE		
* Pictures are not t	o scale * All Photos are property o	of the San Diego Zoo exc	ept those credited in the note:
CLASS	Echinoidea	RP Number	
ORDER	Echinoida	STAIN	one
SUBORDER		HEAD SHAPE C	onical
FAMILY	Strongylocentrotidae	ANIMAL PICTURE	
SUBFAMILY		Market	WHILITE .
GENUS	Strongylocentrotus		
SPECIES	Strongylocentrotus		
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng	yth		
Head Wid	lth		
Midpiece Leng			
Tail Leng			188
Measure Tot	redit: Dr. Scott Applebaum	Notes	

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

COMMON NAME	Pacific Oyster		
PICTURE			
* Pictures are not	to scale * All Photos are prope	erty of the San Diego Zoo	except those credited in the note
CLASS	Bivalvia	RP Number	
ORDER	Ostreoida	STAIN	None
SUBORDER		1	
FAMILY	Ostreidae	HEAD SHAPE	Round
SUBFAMILY		ANIMAL PICTURE	
GENUS	Crassostrea		
SPECIES	Crassostrea gigas		
SUBSPECIES	ASUREMENTS (µm)		
Head Leng			
Head Wid			
Midpiece Len			
Tail Leng			· 在一个人
Measure To		Notes	
	ers photo credit: Dr. Scott App		

	OI EI IIVI	7112718	
COMMON NAME	Baja Pronghorn		
PICTURE			
* Pictures are not t	o scale * All Photos are property	of the San Diego Zoo	except those credited in the notes
CLASS	Mammalia Mammalia	RP Number	15-126
ORDER	<u>Artiodactyla</u>	STAIN	Giemsa
SUBORDER		HEAD SHAPE	Oval
FAMILY	Antilocapridae	ANIMAL PICTURE	Ovai
SUBFAMILY		THAIRING THE TOTAL	A 100 CO 110
GENUS	<u>Antilocapra</u>	1000	
SPECIES		The same	
SUBSPECIES	Antilocapra americana	100	
MEA	SUREMENTS (µm)		
Head Leng	7.50		
Head Wid	4.00		
Midpiece Leng	gth 11.00		
Tail Leng	gth 42.00		
Measure To	60.50	Notes	

COMMON NAME	Manchurian Brown Bear
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 13-196
ORDER	<u>Carnivora</u> Stain Giemsa
SUBORDER	
FAMILY	Ursidae Round
SUBFAMILY	ANIMAL PICTURE
GENUS	Ursus
SPECIES	Ursus arctos lasiotus
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	th 7.00
Head Wid	th 5.00
Midpiece Leng	10.00
Tail Leng	th 49.00
Measure Tot	66.00 Notes
the sperm was e	epididymal therefore there is a cytoplasmic droplet present

COMMON NAME	Southern	ı Pudu				
PICTURE						
	>					
* Pictures are not t	scale * All Ph	notos are prope	1		ccept those cr	redited in the note
ORDER	Artiodactyla Artiodactyla Artiodactyla				Giemsa	
SUBORDER			HEAD		Paddle	
FAMILY	Cervidae		ANIMAL	PICTURE		
SUBFAMILY	Pudu					
SPECIES	Pudu puda			N 10		
SUBSPECIES	SUPEMENTS (W					
Head Leng	th 9.00	<u>'''</u>				1
Head Wid					1	
Midpiece Leng	th 8.00		Harldsohar		L) HE SHE	
Tail Leng						
Measure Totathe sperm was of		of and the control	Notes		1	

COMMON NAME C	nevrotain		
PICTURE			
	ale * All Photos are prope mmalia	rty of the San Diego Zoo	except those credited in the no
ORDER Arti	odactyla	STAIN	Pap
SUBORDER		HEAD SHAPE	Round
FAMILY Tra	gulidae	ANIMAL PICTURE	i todila
SUBFAMILY			V
GENUS Tra	gulus		
SPECIES Tra	gulus javanicus ravus		
SUBSPECIES MEASURE	EMENTS (µm)		
Head Length	4.50	全大型	
Head Width	4.00		
Midpiece Length	8.00		A The second of the
Tail Length	25.00		of 107/WWW
		Notes	

COMMON NAME	L'hoests Guenon
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 06-227
ORDER	Primates Pap
SUBORDER	HEAD SHAPE Oval
FAMILY	Cercopithecidae ANIMAL PICTURE
SUBFAMILY	ANIWAL PICTURE
GENUS	Cercopithecus
SPECIES	Cercopithecus Ihoesti
SUBSPECIES MEA	SUREMENTS (µm)
Head Leng	gth 4.00
Head Wid	2.50
Midpiece Leng	9th 41.00
Tail Leng	9.00
Measure Tot	tal 54.00 Notes

COMMON NAME	Clouded Leopard
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 13-243
ORDER	<u>Carnivora</u> Stain None
SUBORDER	HEAD SHAPE Oval
FAMILY	Animal Picture
SUBFAMILY	pantheridae
GENUS	neofelis
SPECIES	neofelis nebulosa nebulosa
SUBSPECIES	
	ASUREMENTS (µm)
Head Leng	
Midpiece Len	
Tail Leng	
Measure To	

COMMON NAME	Mang Mountain Pit	Viper	
PICTURE			
* Pictures are not t	o scale * All Photos are proper	ty of the San Diego Zoo	except those credited in the not
CLASS	Reptilia	RP Number	13-245
ORDER	Squamata	STAIN	Pope
SUBORDER	Serpentes	HEAD SHAPE	Sickle
FAMILY	Viperidae		Sickle
SUBFAMILY	Crotalinae	ANIMAL PICTURE	
GENUS	Trimeresurus		
SPECIES	Trimeresurus		
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng			A COST
Head Wid			
Midpiece Leng	yth 45.00		
Tail Leng	23.00		
Measure Tot	78.00	Notes	

COMMON NAME	Palila	
PICTURE		
* Pictures are not	to scale * All Photos are prope	erty of the San Diego Zoo except those credited in the no
CLASS	Aves	RP NUMBER 13-265
ORDER	Passeriformes	STAIN Pope
SUBORDER	Passeri	HEAD SHAPE Helical
FAMILY	Fringilidae	ANIMAL PICTURE
SUBFAMILY	Carduelinae	ANIMALTICIONE
GENUS	Loxioides	The second secon
SPECIES	Loxioides bailleui	
SUBSPECIES		
	ASUREMENTS (µm)	
Head Leng	gth 20.00	
Head Wid	dth 1.00	
Midpiece Len	gth 62.00	
Tail Len	gth 44.00	
Measure To		Notes
Sample sent fro	om Keauhou Bird Conservation	n Center

COMMON NAME	South African Rock I	Hyrax		
PICTURE				
	scale * All Photos are property o	of the San Diego Zoo	except those credited in the	notes
CLASS	Mammalia	RP Number	13-272	
ORDER	<u>Hyracoidea</u>	STAIN	None	
SUBORDER		HEAD SHAPE	Round	
FAMILY	Procaviidae	ANIMAL PICTURE		
SUBFAMILY		1		
GENUS	Procavia			
SPECIES	Procavia Capensis Capensis		4	
SUBSPECIES				
	SUREMENTS (µm)			
Head Leng	th 5.63			
Head Wid	th 3.75			
Midpiece Leng	th 15.00			
Tail Leng	th 35.00			
Measure Tot	55.63	Notes		

COMMON NAME	Gerenuk		
PICTURE		*	
' Pictures are not t	o scale * All Photos are proper	ty of the San Diego Zoo	except those credited in the note
CLASS	Mammalia	RP Number	14-021
ORDER	Artiodactyla	STAIN	Giemsa
SUBORDER			
FAMILY	Bovidae	HEAD SHAPE	Paddle
SUBFAMILY	Antilopinae	ANIMAL PICTURE	
GENUS	Litocranius		
SPECIES	Litocranius walleri walleri		
SUBSPECIES			
	SUREMENTS (µm)		
Head Leng			
Head Wid			
Midpiece Leng	13.00		
Tail Leng	gth 33.00		
Measure Tot	tal 54.00	Notes	

	SPER	M ATLAS	
COMMON NAME	Papuan Mountain-	pigeon	
PICTURE			>0
		<u> </u>	except those credited in the note
CLASS	Aves	RP Number	14-040
ORDER	Columbiformes	STAIN	Pope
SUBORDER		HEAD SHAPE	Filiformal
FAMILY	Columbidae	ANIMAL PICTURE	
SUBFAMILY			
GENUS	Gymnophaps		
SPECIES	Gymnophaps albertisii		
SUBSPECIES			
MEA	ASUREMENTS (µm)		
Head Leng	gth		
Head Wid	dth	B	
Midpiece Len	gth		
Tail Leng	gth		

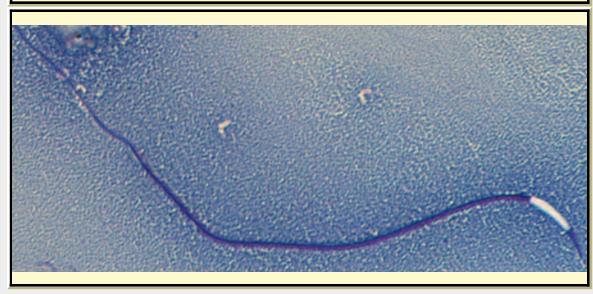
Notes

Measure Total

COMMON NAME

Black Milksnake

PICTURE



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

CLASS Reptilia

Squamata

Suborder Serpentes

ORDER

FAMILY Colubridae

Subfamily Colubrinae

GENUS Lampropeltis

Species Lampropeltis triangulum

SUBSPECIES

MEASUREMENTS (µm)

Head Length 13.00

Head Width 1.00

Midpiece Length 68.00

Tail Length 30.00

Measure Total 111.00

RP NUMBER

14-043

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

Rough-necked Monitor COMMON NAME **PICTURE** Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes Reptilia CLASS **RP NUMBER** 14-065 ORDER Squamata STAIN Pope SUBORDER Lacertilia HEAD SHAPE Filiformal **FAMILY** Varanidae **ANIMAL PICTURE** SUBFAMILY Varanus GENUS Varanus rudicollis SPECIES SUBSPECIES MEASUREMENTS (μm) Head Length 11.00 Head Width 1.50

49.00 Notes

5.00

33.00

Midpiece Length

Measure Total

Tail Length

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

COMMON NAME	Stripe faced dunnart	
PICTURE		
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the note	es
CLASS	Mammalia RP Number	
ORDER	Dasyuromorphia None	
SUBORDER		
FAMILY	Dasyuridae Filiformal	
SUBFAMILY	ANIMAL PICTURE	
GENUS	Sminthopsis	
SPECIES	Sminthopsis macroura	
SUBSPECIES		
MEA	SUREMENTS (µm)	
Head Leng	th	
Head Wid	th	
Midpiece Leng	gth © Gerhard Koertner	
Tail Leng		
Measure Tot		
the sperm was e	epididymal therefore there is a cytoplasmic droplet present	

Sperm photo credit: Natalie Calatyud Animal Photo credit: Gerhard Koerttner

COMMON NAME	Oriental Fire-bell	ied toad
PICTURE		
* Dictures are not	to scale * All Photos are pro	perty of the San Diego Zoo except those credited in the note
CLASS	Amphibia	RP Number 14-124
ORDER	Anura	STAIN None
SUBORDER		HEAD SHAPE Filiformal
FAMILY	Bombinatoridae	ANIMAL PICTURE
SUBFAMILY		general and the second
GENUS	Bombina	
SPECIES	Bombina orientalis	- Constitution Con
SUBSPECIES	ASUREMENTS (µm)	
Head Leng		
Head Wid		
Midpiece Leng	gth	
Tail Leng	gth 8.00	

COMMON NAME	Polar Bear
PICTURE	
* Pictures are not t	to scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Mammalia RP Number 14-151
ORDER	Carnivora Stain Pap
SUBORDER	HEAD SHAPE Round
FAMILY	<u>Ursidae</u>
SUBFAMILY	ANIMAL PICTURE
GENUS	<u>Ursus</u>
SPECIES	Ursus maritimus
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 5.00
Head Wid	dth 4.00
Midpiece Leng	gth 11.00
Tail Leng	gth 31.00
Measure Tot	tal 47.00 Notes

COMMON NAME	Southern Leaf-tailed Gecko	
PICTURE		
* Pictures are not t	to scale * All Photos are property of the San Diego Zoo except	those credited in the notes
CLASS	Reptilia RP Number 14-16	
ORDER	Squamata Pope	
SUBORDER	HEAD SHAPE Filifor	mal
FAMILY	Gekkonidae Animal Picture	
SUBFAMILY		
GENUS	<u>Uroplatus</u>	F-35-15
SPECIES	Uroplatus sikorae sameiti	100
SUBSPECIES		
Head Leng	agth 15.00	Land Comment
Head Wid		
Midpiece Leng		
Tail Leng	ngth 55.00	
Measure Tot	otal 76.00 Notes	1

COMMON NAME	Ros	eate Spo	onbill				
PICTURE							
	5.83	100 500	250	. 100770		1701919100	122
							230
						7 4 5 75	
						1	40
				100000			
* Pictures are not to	o scale	* All Photos a	are property of	of the San Diego	Zoo ex	ccept those credited	I in the note:
CLASS	Aves			RP Nume		14-168	
ORDER	Pelec	aniformes		STA	AIN	Pope	
SUBORDER				HEAD SHA	APF	Filiformal	_
FAMILY	Thres	iornithidae		ANIMAL PICTU			
SUBFAMILY							
GENUS	<u>Platal</u>	ea		me.		4 4	22
SPECIES	<u>Platal</u>	ea ajaja			A THE		
SUBSPECIES					and the		
MEA	SUREM	ЕNTS (µm)			1		
Head Leng	ıth	10.00		-			
Head Wid	lth	1.50					
Midpiece Leng		7.00		4-3			大大大
Tail Leng		67.00					
Measure Tot abnormal morph		as head was h	ent hack on t	NOTES			

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 Av

Aves

RP Number 14-27

14-275

ORDER

Galliformes

STAIN

Pope

SUBORDER

HEAD SHAPE

Filiformal

FAMILY

SUBFAMILY

GENUS

Numida

Numidae

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

COMMON NAME	Indian Python	
PICTURE		
	o scale * All Photos are prope	erty of the San Diego Zoo except those credited in the note
CLASS	Reptilia	RP NUMBER 14-316
ORDER	Squamata	STAIN Pope
SUBORDER	Serpentes	HEAD SHAPE Filiformal
FAMILY	Pythonidae	
SUBFAMILY		ANIMAL PICTURE
GENUS	Python	
SPECIES	Python molurus	
Subspecies Meas	SUREMENTS (µm)	
Head Leng	th 12.00	
Head Wid	1.25	
Midpiece Leng	gth 35.00	
Tail Leng	th 46.00	
Measure Tot	al 93.00	Notes

COMMON NAME	Tentacled Snake		
PICTURE			
	o scale * All Photos are prope	erty of the San Diego Zoo	except those credited in the n
CLASS	Reptilia	RP Number	14-318
ORDER	Squamata	STAIN	Pope
SUBORDER		HEAD SHAPE	Filiformal
FAMILY	Colubridae	ANIMAL PICTURE	
SUBFAMILY			
GENUS	Erpeton		
SPECIES	Erpeton tentacultaum		
SUBSPECIES			T KIN WALL
MEA	SUREMENTS (µm)		A THE PER
Head Leng			
Head Wid			
Midpiece Leng			
Tail Leng			
Measure To		Notes	
ivieasurements	in pope stain: Light part: 23 D	агк рагт: 60	

COMMON NAME	Sri Lankan Slender	Loris
PICTURE		
		*
* Dietures are ret t	a a cala * All Dhatas are property	of the Can Diago Zoo except these gradited in the ne
CLASS	Mammalia	of the San Diego Zoo except those credited in the no
ORDER	Primates	STAIN Giemsa
SUBORDER		HEAD SHAPE Round
FAMILY	Lorisidae	ANIMAL PICTURE
SUBFAMILY		
GENUS	Loris	
SPECIES	Loris tardigradus	
SUBSPECIES	SUREMENTS (µm)	
Head Leng		
Head Wid	th 4.00	
Midpiece Leng		
Tail Leng		
Measure Tot The head legnth	al 75.00 sis 5um without the acrosome bu	NOTES It 6um with the acrosome

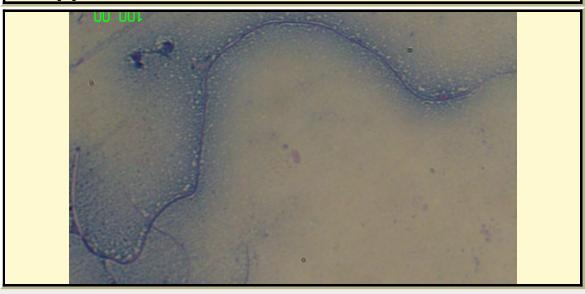
COMMON NAME	Pacific Pocket Mo	use
PICTURE		
		erty of the San Diego Zoo except those credited in the no
CLASS	Mammalia	RP Number 14-336
ORDER	Rodentia	STAIN Pope
SUBORDER		HEAD SHAPE HOOK
FAMILY	Heteromyidae	ANIMAL PICTURE
SUBFAMILY		ANIMAL PICTURE
GENUS	Perognathus	
SPECIES	Perognathus longimembris	
SUBSPECIES	ASUREMENTS (µm)	
Head Leng		
Head Wid		
Midpiece Leng		
Tail Leng	gth 50.00	
Measure Tot	tal	Notes

COMMON NAME	Fishing Cat		
PICTURE			
* Pictures are not	to scale * All Photos are prope	erty of the San Diego Zoo	except those credited in the notes
CLASS	Mammalia	RP Number	15-022
ORDER	Carnivora	STAIN	Coomassie
SUBORDER		HEAD SHAPE	Round
FAMILY	Felidae		ixourid
SUBFAMILY		ANIMAL PICTURE	
GENUS	Prionailurus		
SPECIES	Prionailurus viverrinus		Y
SUBSPECIES	ASUREMENTS (µm)		
Head Leng	gth 5.00		
Head Wid	3.00		
Midpiece Leng	gth 10.00		
Tail Leng	gth 42.00		
Measure To		Notes	
the sperm was	epididymal therefore there is a	cytoplasmic droplet pres	ent

COMMON NAME

Philippine Collared Dove

PICTURE



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CLASS Aves

ORDER Columbiformes

SUBORDER

FAMILY Columbidae

SUBFAMILY

GENUS Streptopelia

Species Streptopelia dusumieri

SUBSPECIES

MEASUREMENTS (µm)

Head Length 17.00

Head Width 1.00

Midpiece Length 122.00

Tail Length 31.00

Measure Total 170.00

RP Number 15-032

STAIN Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

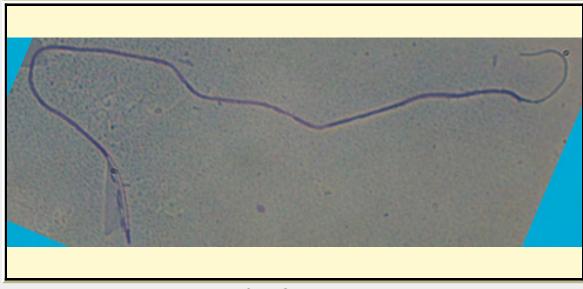
a small portion of the tail was not able to be imaged due to length of tail Photo credit: Dr. Yap Lip Kee https://www.flickr.com/photos/lipkee/552614782/in/set -72157600385867643/

COMMON NAME	Dalmatian Pelican
PICTURE	
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Aves 15-050
ORDER	Pelecaniformes Pope
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Pelecanida Animal Picture
SUBFAMILY	ANIMAL FIOTOLE
GENUS	Pelecanus
SPECIES	Pelecanus crispus
SUBSPECIES	
	SUREMENTS (µm)
Head Leng	
Head Wid	2.00
Midpiece Leng	9th 4.00
Tail Leng	55.00
Measure Tot	al 68.00 Notes

COMMON NAME

Emerald Dove

PICTURE



RP NUMBER

HEAD SHAPE

ANIMAL PICTURE

STAIN

15-064

Pope

Filiformal

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

CLASS Aves

Columbiformes

SUBORDER

FAMILY Columbidae

SUBFAMILY

GENUS Chalcophaps

Species Chalcophaps indica

SUBSPECIES

ORDER

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.

COMMON NAME

Naked Mole-rat

PICTURE



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CLASS Mammalia

Rodentia

SUBORDER

FAMILY Bathyergidae

Subfamily Heterocephalinae

GENUS Heterocephalus

Species Heterocephalus glaber

SUBSPECIES

ORDER

MEASUREMENTS (µm)

Head Length 6.50

Head Width 2.50

Midpiece Length 1.50

Tail Length 35.00

Measure Total 43.00

RP NUMBER

15-077

STAIN

Pope and No stain

HEAD SHAPE

Oval

ANIMAL PICTURE



Notes

Non stained sperm and acrosome stained sperm

OMMON NAME	Haw	<i>r</i> aiian Goo	se (Ne	ene)		
PICTURE						
icture <u>s are no</u> t t	o scale	* All Photos are	e property	of the San	Diego Zoo	except those credited in the
CLASS	Aves			RP	Number 1	15-080
ORDER	Anser	iformes			STAIN	Pope and No stain
SUBORDER				TO STATE OF		
FAMILY	Anatio	lae	一		AD SHAPE	Helical
SUBFAMILY			=	ANIMAL	. PICTURE	
GENUS	Branta		=		30.10	THE RESERVE
			_		4°	
SPECIES	Branta	a sandvicensis		200		
SUBSPECIES				1/1		2000
MEA	SUREMI	ENTS (µm)				
Head Leng	gth	27.50			A PORT A	
Head Wid	dth	1.25				
Midpiece Leng	gth				SA VANA	ALZXXVIII.
Γ=	ath	50.00		A STATE OF THE STA		A ACTUAL DESCRIPTION OF THE PROPERTY OF THE PR
Tail Leng						

Tambourine Dove COMMON NAME **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** 15-099 ORDER Columbiformes STAIN Pope SUBORDER HEAD SHAPE Filiformal FAMILY Columbidae **ANIMAL PICTURE** SUBFAMILY GENUS Turtur Turtur tympanistria SPECIES SUBSPECIES MEASUREMENTS (µm) Head Length 20.00 Head Width 0.75 Midpiece Length Tail Length 145.00

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

Notes

Measure Total

165.00

COMMON NAME	Hamilton's Pond Turtle	
PICTURE		
* Pictures are not to	scale * All Photos are property of the Sa	n Diego Zoo except those credited in the note
CLASS	Reptilia	15-103
ORDER	Testudines	STAIN Pope
SUBORDER		EAD SHAPE Filiformal
FAMILY	Geoemydidae	AL PICTURE
SUBFAMILY	ANIM	AL PICTURE
GENUS	Geoclemys	
SPECIES	Geoclemys hamiltonii	
Subspecies Meas	SUREMENTS (µm)	
Head Lengt	h 10.00	
Head Widt	h 1.00	
Midpiece Lengt	h 6.00	THE RESERVE
Tail Lengt	h 53.00	
Measure Tota	70.00 Notes	

COMMON NAME	American Crow
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Aves RP Number 15-111
ORDER	Passeriformes Pope
SUBORDER	HEAD SHAPE Helical
FAMILY	Corvidae ANIMAL PICTURE
SUBFAMILY	ANIMAL PICTURE
GENUS	Corvus
SPECIES	Corvus brachyrhynchos
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	gth 6.50
Head Wid	1.00
Midpiece Leng	gth 3.00
Tail Leng	35.00
Measure Tot	tal 44.50 Notes

COMMON NAME	Yellow-crowned Gonolek
PICTURE	
	scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Aves 15-141
ORDER	Passeriformes Pope
SUBORDER	HEAD SHAPE Sickle
FAMILY	Malaconotidae Animal Picture
SUBFAMILY	ANIMALTIOTORE
GENUS	Laniarius
SPECIES	Laniarius barbarus
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	th 12.00
Head Wid	th 1.00
Midpiece Leng	4.00
Tail Leng	24.00
Measure Tot	40.00 Notes

COMMON NAME	Scarlet-faced Lio	cichla	
PICTURE			
		-	except those credited in the notes
CLASS	Aves	RP Number	15-144
ORDER	Passeriformes	STAIN	Pope
SUBORDER		HEAD SHAPE	Sickle
FAMILY	Leiothrichidae		Olonic
SUBFAMILY		ANIMAL PICTURE	Control of the Control
GENUS	Liocichla		
SPECIES	Liocichla ripponi		
SUBSPECIES			
MEA	ASUREMENTS (µm)		
Head Leng	gth 14.00		
Head Wid	1.00		
Midpiece Leng	gth		
Tail Leng	gth 62.00	1	
Measure To		Notes	
the midpiece co Animal Photo C	uld not be distinguished from redit: Vic Murayama	the tail so the tail measure	ement includes both

COMMON NAME

Greater Roadrunner

PICTURE



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

CLASS Aves

ORDER Cuculiformes

SUBORDER

FAMILY Cuculidae

Subfamily Neomorphinae

GENUS

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

RP Number

15-142

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE

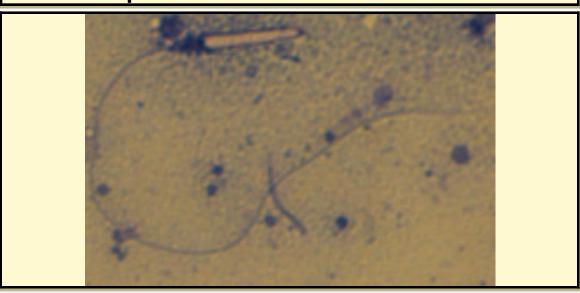


Notes

COMMON NAME

Eurasian Spoonbill

PICTURE



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CLASS Aves

Aves

ORDER Pelecaniformes

SUBORDER

Threskiornithidae

SUBFAMILY

Genus Platalea

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

RP Number

15-151

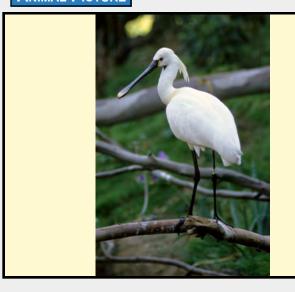
STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

COMMON NAME	Pygmy Marmoset		
PICTURE			
			6380 P
	A STATE OF THE PARTY OF THE PAR	APPENDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO	
* Pictures are not to	scale * All Photos are proper	ty of the San Diego Zoo	except those credited in the not
CLASS	Mammalia	RP Number	15-159
ORDER	Primates	STAIN	Pope
SUBORDER			
FAMILY	callitrichidae	HEAD SHAPE	Round
SUBFAMILY		ANIMAL PICTURE	
GENUS	Cebuella		
SPECIES	Cebuella pygmaea	(0)	
SUBSPECIES			
	SUREMENTS (µm)		
Head Leng			
Head Wid	4.00		
Midpiece Leng	7.00		
Tail Leng	th 45.00		
Measure Tot	58.00	Notes	

COMMON NAME	Amur Leopard
PICTURE	
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 15-191
ORDER	Carnivora Giemsa
SUBORDER	
FAMILY	Felidae
SUBFAMILY	ANIMAL PICTURE
GENUS	Panthera Panthera
SPECIES	Panthera pardus
	Tantinera pardus
SUBSPECIES	
	SUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Tail Leng	
Measure Tot	tal 52.00 Notes

COMMON NAME	Cactus Mouse		
PICTURE			
		rty of the San Diego Zoo	except those credited in the notes
CLASS	Mammalia	RP Number	10-045
ORDER		STAIN	Pap
SUBORDER	Rodentia		
FAMILY	Cricetidae	HEAD SHAPE ANIMAL PICTURE	Hook
SUBFAMILY		ANIMALTICIONE	
GENUS	Peromyscus		Services .
SPECIES	Peromyscus eremicus		
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng	pth		
Head Wid	dth		
Midpiece Leng	gth		
Tail Leng	gth		
Measure To		Notes	
DHOTO CDEDI	T. James N. Stuart at https://w	MANA flickr	

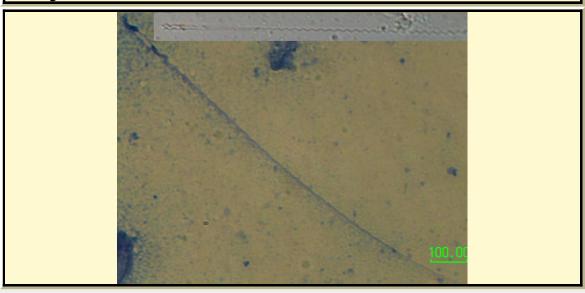
PHOTO CREDIT: James N. Stuart at https://www.flickr. com/photos/stuartwildlife/6218689150/in/photolist-atwpCs-dcrcND-bvSQ1S-93idcZ-dLqidX-Gdt2DrwibrH-azNYvQ-9p2kio-8VYGNd-dnubH7-cJV22A-78S9FQ-4qPDQ3-b8s5U-pjHon5-6sMj86-hPFQmAbEtUvp-6tGErv-64i7aP-99mY5M-EL99h-e7GEvK-8VKCX2-fiuTvN-5sW8dX-bOVW6v-8NvKPe

COMMON NAME	Crocodile Lizard		
PICTURE			
* Dictures are not t	to scale * All Photos are property of the San Diego Zoo	except those credited in the	notes
CLASS	Reptilia RP Number	14-340	HOLES
ORDER	Squamata	None	
SUBORDER			
FAMILY	Shinisauridae Head Shape	Filiformal	
SUBFAMILY	ANIMAL PICTURE		\neg
GENUS	Shinisaurus	ALTERNATION MAN	
SPECIES	Shinisaurus crocodilurus		
SUBSPECIES			90
	ASUREMENTS (µm)		W
Head Leng	ngth		ě
Head Wid	idth		
Midpiece Lenç	ngth		
Tail Leng			
Measure To	otal		

COMMON NAME

Fairy-Bluebird

PICTURE



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CLASS Aves

ORDER Passeriformes

Suborder Passeri

FAMILY

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

Non stained sperm and acrosome stained sperm

RP Number

15-093

STAIN

Pope and No stain

HEAD SHAPE

Sickle

ANIMAL PICTURE



Notes

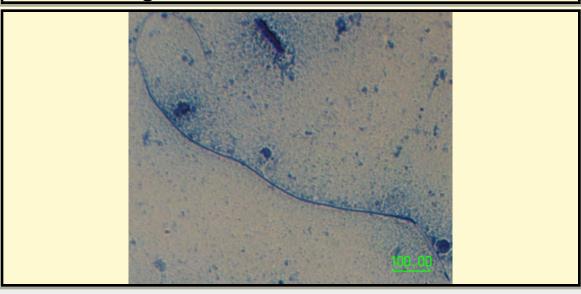
COMMON NAME	Capuchinbird
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Aves 15-297
ORDER	Passeriformes Pope
SUBORDER	HEAD SHAPE Helical
FAMILY	Cotingidae Animal Picture
SUBFAMILY	ANIWALFICTURE
GENUS	Perissocephalus Perissocephalus
SPECIES	Perissocephalus tricolor
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	11.00
Head Wid	1.00
Midpiece Leng	9th 4.00
Tail Leng	ath 31.00
Measure Tot	tal 46.00 Notes

COMMON NAME	Gouldian Finch	
PICTURE		
* Pictures are not CLASS	to scale * All Photos are property of the San Diego Zoo except those credited Aves RP Number 15-272	in the notes
ORDER	Passeriformes Stain Pope	=
SUBORDER	HEAD SHAPE Helical	=
FAMILY	Estrildidae ANIMAL PICTURE	_
SUBFAMILY		
GENUS	<u>Erythrura</u>	
SPECIES	Erythrura gouldidae	
SUBSPECIES MEA	ASUREMENTS (µm)	'
Head Leng	gth 6.00	
Head Wi	idth 1.25	
Midpiece Len		
Tail Len		
Measure To	otal 64.00 Notes	

COMMON NAME

Domestic Pigeon

PICTURE



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CLASS Aves

Aves

Columbiformes

SUBORDER

ORDER

Columbidae

FAMILY

SUBFAMILY

GENUS

Columba

SPECIES

Columba livia

SUBSPECIES

Columba livia domestica

MEASUREMENTS (µm)

Head Length

11.00

Head Width

1.00

Midpiece Length

70.00

Tail Length

30.00

Measure Total

111.00

Animal photo credit: Travis Thor Matteson

RP NUMBER

15-226

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE

Notes



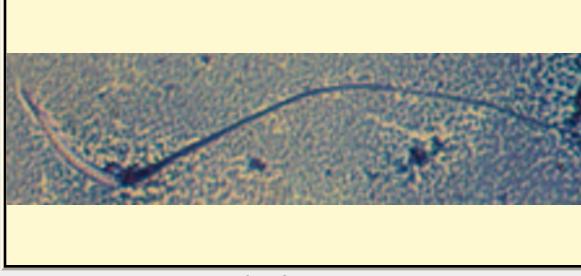
COMMON NAME	Green Tree Python
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	RP Number 15-262
ORDER	Squamata Pope
SUBORDER	Serpentes HEAD SHAPE Filiformal
FAMILY	Pythonidae ANIMAL PICTURE
SUBFAMILY	ANIMALTIOTORE
GENUS	Morelia
SPECIES	Morelia viridis
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 12.00
Head Wid	dth 1.00
Midpiece Leng	gth 35.00
Tail Leng	gth 38.00
Measure To	tal 85.00 Notes

COMMON NAME	Argentine Racer	
PICTURE		
* Pictures are not	to scale * All Photos are prop	erty of the San Diego Zoo except those credited in the not
CLASS	Reptilia	RP NUMBER 15-307
ORDER	Squamata	STAIN Pope
SUBORDER	Serpentes	HEAD SHAPE Filiformal
FAMILY	Colubridae	ANIMAL PICTURE
SUBFAMILY	Xenodontinae	ANIMAL FICTORE
GENUS	Philodryas	
SPECIES	Philodryas baroni	
SUBSPECIES		
ME	ASUREMENTS (µm)	
Head Len	gth 11.00	
Head Wi	dth 1.00	
Midpiece Len	gth 51.00	
Tail Len	gth 35.00	
Measure To	otal 97.00	Notes

COMMON NAME

Zhou's Box Turtle

PICTURE



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CLASS Reptil

Reptilia

Testudines

SUBORDER

ORDER

FAMILY Geoemydidae

SUBFAMILY

Geomydinae

GENUS

Cuora

SPECIES

Cuora zhoui

SUBSPECIES

MEASUREMENTS (µm)

Head Length

13.00

Head Width

1.00

Midpiece Length

6.00

Tail Length

50.00

Measure Total

69.00

RP Number

15-250

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



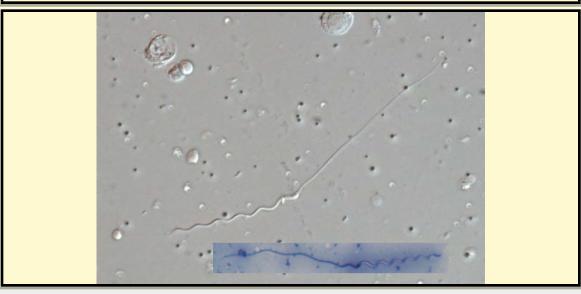
Notes

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

COMMON NAME

Brother's Island Tuatara

PICTURE



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

CLASS Reptilia

ORDER Sphenodontia

SUBORDER

FAMILY Sphenodontidae

Subfamily Sphenodontinae

GENUS Sphenodon

Species Sphenodon guntheri

SUBSPECIES

MEASUREMENTS (µm)

Head Length 53.00

Head Width 2.00

Midpiece Length

Tail Length 88.00

Measure Total 141.00

RP Number

15-355

STAIN

Pope and No stain

HEAD SHAPE

Helical

ANIMAL PICTURE



Notes

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

	White-tailed Deer		
PICTURE			
CLASS	<i>lammalia</i>	erty of the San Diego Zoo	except those credited in the no
	Artiodactyla	STAIN	Giemsa
SUBORDER C	Dervidae	HEAD SHAPE	Paddle
	Capreolinae	ANIMAL PICTURE	A Rubban
OUDIFAMILI	rapreomiae		
GENUS	Odocoileus Odocoileus virginianus		
GENUS SPECIES SUBSPECIES	Odocoileus virginianus		
GENUS SPECIES SUBSPECIES MEASU	Ddocoileus virginianus UREMENTS (µm)		
GENUS SPECIES SUBSPECIES	JREMENTS (µm) 9.00		
GENUS SPECIES SUBSPECIES MEASU Head Length	JREMENTS (µm) 9.00 4.00		
SPECIES SUBSPECIES MEASU Head Length Head Width	JREMENTS (µm) 9.00 4.00 10.00		

COMMON NAME	Sudan Red-Fronted	Gazelle
PICTURE		
* D'al an ann an 11		
* Pictures are not t	Mammalia	of the San Diego Zoo except those credited in the not 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	SUREMENTS (µm)	
Head Leng		
Head Wid	6.00	
Midpiece Leng		
Tail Leng		
Measure To	al 60.00	Notes

COMMON NAME	Ellipsen Waterbuck	k
PICTURE		
* Pictures are not t	o scale * All Photos are proper	ty of the San Diego Zoo except those credited in the not
CLASS	Mammalia	RP Number 16-141
ORDER	Artiodactyla	STAIN Pope
SUBORDER		HEAD SHAPE Oval
FAMILY	Bovidae	ANIMAL PICTURE
SUBFAMILY	Reduncinae	ANIWAL FICTORE
GENUS	Kobus	
SPECIES	Kobus ellipsiprymnus	
Subspecies		
	SUREMENTS (µm)	
Head Leng		
Head Wid		
Midpiece Leng	13.00	
Tail Leng	43.00	
Measure To	tal 63.00	Notes

SAN DIEGO ZOO INSTITUTE FOR CONSERVATION RESEARCH

		HYSIOLOGY DIVISION M ATLAS	
COMMON NAME	Hooded Merganse	er en	
PICTURE			
* Pictures are not	to scale * All Photos are proper Aves	erty of the San Diego Zoo except those credited in t	the notes
ORDER	Anseriformes	STAIN Pope	<u> </u>
SUBORDER	Anatidae	HEAD SHAPE Filiformal	
SUBFAMILY	Merginae	ANIMAL PICTURE	

GENUS

SPECIES

Head Length

Head Width

Tail Length

Midpiece Length

Measure Total

SUBSPECIES

Lophodytes

MEASUREMENTS (μm)

Lophodytes cucullatus

15.00

2.00

5.00

78.00

98.00

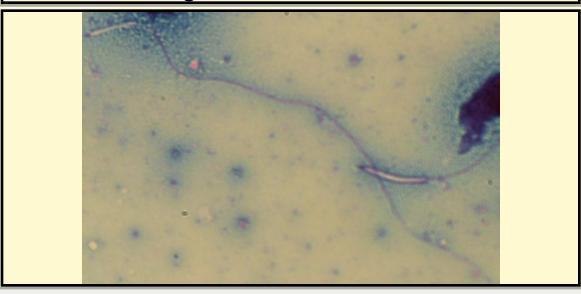


Notes

COMMON NAME

African Olive-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 15-327

ORDER

Columbiformes

Pope

SUBORDER

<u>|</u>

HEAD SHAPE

ANIMAL PICTURE

STAIN

Filiformal

FAMILY

Columbidae

SUBFAMILY

GENUS

Columba

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.

COMMON NAME	African Penguin
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Aves 15-334
ORDER	Sphenisciformes Pope
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Spheniscidae Animal Picture
SUBFAMILY	ANIWAL FICTURE
GENUS	Spheniscus
SPECIES	Spheniscus demersus
	epitelinesae aemeleae
SUBSPECIES	
	SUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Tail Leng	
Measure Tot	tal 73.00 Notes

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

SPERM ATLAS Turquoise Tanager COMMON NAME **PICTURE** Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes

CLASS Aves

Passeriformes

SUBORDER

ORDER

Thraupidae FAMILY

SUBFAMILY

GENUS Tangara

SPECIES Tangara mexicana

SUBSPECIES

MEASUREMENTS (µm)

Head Length 15.00

1.50 Head Width

Midpiece Length 2.00

> 129.00 Tail Length

Measure Total 146.00 **RP NUMBER**

16-058

STAIN

Pope

HEAD SHAPE

Helical

ANIMAL PICTURE



Notes

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

COMMON NAME	Slender-tailed Meer	kat	
PICTURE			
* Pictures are not to	o scale * All Photos are property	/ of the San Diego Zoo	except those credited in the notes
CLASS	Mammalia	RP Number	16-079
ORDER	Carnivora	STAIN	Pope
SUBORDER		HEAD SHAPE	Oval
FAMILY	Herpestidae	ANIMAL PICTURE	Ovai
SUBFAMILY		ANIMAL FICTURE	N. C. C. C.
GENUS	Suricata	(3.3)	
SPECIES	Suricata suricatta	6.1	
SUBSPECIES		7	
MEA	SUREMENTS (µm)		
Head Leng	th 5.00	100	
Head Wid	3.00		
Midpiece Leng	oth 6.00	1	
Tail Leng	th 69.00		
Measure Tot		Notes	
The sperm was	epididymal therefore there is a c	ytoplasmic droplet pres	sent

PICTURE			
► Pictures are not to s	cale * All Photos are property	of the San Diego Zoo	except those credited in the no
	lammalia	RP Number	16-084
ORDER	arnivora	STAIN	Coomassie
SUBORDER			
	elidae	HEAD SHAPE	Oval
SUBFAMILY	1	ANIMAL PICTURE	
	eopardus	A CASE	2017 F
SPECIES	eopardus pardalis		
SUBSPECIES			
MEASU	REMENTS (µm)		
Head Length	5.50		
Head Width			1000
Midpiece Length			
Tail Length			
Measure Total	65.50	Notes	

Western Red Panda COMMON NAME **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** 16-018 ORDER Carnivora STAIN Pope SUBORDER HEAD SHAPE Oval FAMILY Ailuridae **ANIMAL PICTURE** SUBFAMILY GENUS Ailurus Ailurus fulgens fulgens SPECIES SUBSPECIES MEASUREMENTS (µm) Head Length 4.00 Head Width 2.00

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.

Notes

Midpiece Length

Measure Total

Tail Length

8.00

35.00

47.00

COMMON NAME

Samar Cobra

PICTURE



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

CLASS Reptilia

Squamata

Suborder Serpentes

COPONICC

FAMILY Elapidae

SUBFAMILY

GENUS Naja

Species Naja naja samarensis

SUBSPECIES

ORDER

MEASUREMENTS (µm)

Head Length 12.00

Head Width 2.00

Midpiece Length 60.00

Tail Length 23.00

Measure Total 95.00

RP NUMBER

15-329

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

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

COMMON NAME	Bornean Eared Frog
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Amphibia RP Number 16-057
ORDER	Anura Pope
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Rhacophoridae
SUBFAMILY	ANIMAL PICTURE
GENUS	Polypedates
SPECIES	Polypedates otilophus
SUBSPECIES	SUREMENTS (µm)
Head Leng	
Head Wid	1.00
Midpiece Leng	5.00
Tail Leng	135.00
Measure To	tal Notes

* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the n CLASS Reptilia ORDER Squamata STAIN Pope SUBORDER Gekkota FAMILY Gekkonidae SUBFAMILY GENUS Uroplatus SPECIES Uroplatus phantasticus	COMMON NAME	Satanic Leaf-tailed Gecko
ORDER Squamata Stain Pope Suborder Gekkota FAMILY Gekkonidae ANIMAL PICTURE Subfamily Genus Uroplatus	PICTURE	
ORDER Squamata Stain Pope Suborder Gekkota FAMILY Gekkonidae ANIMAL PICTURE Subfamily Genus Uroplatus		scale * All Photos are property of the San Diego Zoo except those credited in the no
SUBORDER Gekkota FAMILY Gekkonidae SUBFAMILY GENUS Uroplatus STAIN FOPE Filiformal FANIMAL PICTURE	CLASS	Reptilia RP Number 16-134
SUBORDER Gekkota HEAD SHAPE Filiformal ANIMAL PICTURE GENUS Uroplatus	ORDER	Stain Pope Pope
GENUS Uroplatus ANIMAL PICTURE ANIMAL PICTURE	SUBORDER	Gekkota
Subfamily Genus Uroplatus	FAMILY	Gekkonidae
and the second s	SUBFAMILY	ANIWAL PICTURE
and the second s	GENUS	Uroplatus
		and the second s
MEASUREMENTS (µm)		CUREMENTS (um)
Head Length 14.00 Head Width 1.00		
Midpiece Length 8.00		
Tail Length 55.00		
Measure Total 77.00 Notes		
TOTES		NOILO

SPERM ATLAS Anegada Ground Iguana COMMON NAME **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** 16-146 ORDER Squamata STAIN None SUBORDER HEAD SHAPE Filiformal FAMILY Iguanidae **ANIMAL PICTURE** SUBFAMILY GENUS Cyclura SPECIES Cyclura pinguis SUBSPECIES MEASUREMENTS (µm) Head Length 18.00

1.25 Head Width

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

COMMON NAME	Jamaican Iguana	
PICTURE		
* Dietures are not t	to cools * All Dhotos are prope	orthy of the Can Diago Zoo expent these gradited in the na
CLASS	Reptilia	erty of the San Diego Zoo except those credited in the no
ORDER	Squamata Squamata	STAIN Pope
SUBORDER		1
FAMILY		HEAD SHAPE Filiformal
SUBFAMILY		ANIMAL PICTURE
GENUS	Cyclura	
SPECIES	Cyclura collei	
SUBSPECIES		
	ASUREMENTS (µm)	
Head Leng		
Head Wid		
Midpiece Leng	gth 5.00	AND STATE OF THE S
Tail Leng	gth 60.00	
Measure To	otal 85.00	Notes

COMMON NAME	West African Gree	en Mamba
PICTURE		
* Pictures are not t	o scale * All Photos are prope	erty of the San Diego Zoo except those credited in the no
CLASS	Reptilia	RP Number 16-020
ORDER	Squamata	STAIN Pope
SUBORDER	Serpentes	HEAD SHAPE Filiformal
FAMILY	Elapidae	
SUBFAMILY	Elapinae	ANIMAL PICTURE
GENUS	Dendroaspis	
SPECIES	Dendroaspis viridis	
SUBSPECIES		
MEA	SUREMENTS (µm)	
Head Leng	th 10.00	
Head Wid	1.50	
Midpiece Leng	59.00	
Tail Leng	26.00	
Measure Tot	95.00	Notes

DMMON NAME	Mojave Rattlesnak	(e	
PICTURE			
ictures are not	to scale * All Photos are prope	rty of the San Diego Zoo	except those credited in the no
CLASS	Reptilia	RP Number	16-010
ORDER	Squamata	STAIN	Pope
SUBORDER	Serpentes	1	
FAMILY	Viperidae	HEAD SHAPE	Filiformal
SUBFAMILY	Crotalinae	ANIMAL PICTURE	
GENUS	Crotalus		
SPECIES	Crotalus scutulatus		交行》
SUBSPECIES			
ME	ASUREMENTS (µm)	The state of the s	
Head Ler	ngth 11.00		
Head Ler			
	/idth 2.00		
Head W	7idth 2.00 sgth 55.00		

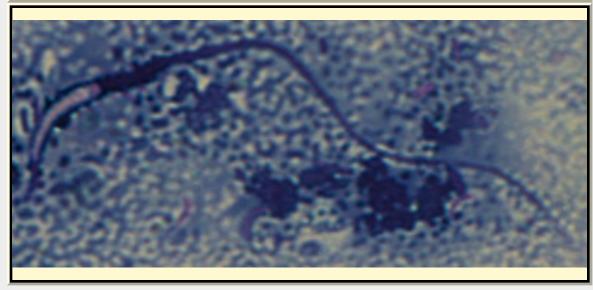
COMMON NAME	Red Diamond Rattlesnake
PICTURE	
	scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Reptilia RP Number 15-315
ORDER	Squamata Pope
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Viperidae
SUBFAMILY	ANIMAL PICTURE
GENUS	<u>Crotalus</u>
SPECIES	Crotalus ruber
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	th 11.00
Head Wid	th 1.00
Midpiece Leng	th 48.00
Tail Leng	th 37.00
Measure To	96.00 Notes
Animal Photo ci	edit: Jeff Lemm

COMMON NAME	Southern Pacific Rattlesnake
PICTURE	
Pictures are not	to scale * All Photos are property of the San Diego Zoo except those credited in the n
CLASS	RP Number 16-080
ORDER	Squamata Pope
SUBORDER	
FAMILY	Viperidae Filiformal
SUBFAMILY	Crotalinae Animal Picture
GENUS	Crotalus
SPECIES	Crotalus oreganus
SUBSPECIES	Crotalus oreganus helleri
	ASUREMENTS (µm)
Head Len	
Head Wi	
Midpiece Len	
Tail Len	
Measure To	otal 88.00 Notes

COMMON NAME

Yangtze Softshell Turtle

PICTURE



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

CLASS

ORDER Testudines

SUBORDER Cryptodira

F_{AMILY} Trionychidae

SUBFAMILY

GENUS Rafetus

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

RP Number

16-089B

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

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

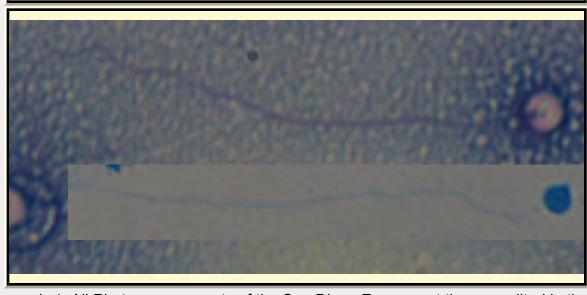
COMMON NAME	frican Yellow-Spotted Hyrax
PICTURE	
* Pictures are not to so	cale * All Photos are property of the San Diego Zoo except those credited in the no
	RP NUMBER 15-333
ORDER Hy	vracoidea Giemsa
SUBORDER	HEAD SHAPE Oval
FAMILY Pr	ocaviidae Animal Picture
SUBFAMILY	ANIMALTICIONE
GENUS He	eterohyrax
SPECIES	eterohyrax brucei brucei
SUBSPECIES	
MEASUF	REMENTS (µm)
Head Length	6.00
Head Width	4.00
Midpiece Length	10.00
Tail Length	34.00
Measure Total	50.00 Notes didymal therefore there is a cytoplasmic droplet present

COMMON NAME	Les	ser Hedgel	hog Te	nrec			
PICTURE				**		***	
* D: 4	<u></u>	* 411 51 4		(II 0 D:			
* Pictures are not to CLASS	o scale <u>Mamn</u>		property o	of the San Dieg RP Num		except those cre	edited in the notes
ORDER	Afroso						
		, , , , , , , , , , , , , , , , , , ,	_	S	STAIN	Giemsa	
SUBORDER	Tana	aida a	=	HEAD S	HAPE	Oval	
FAMILY	Tenre	cidae		ANIMAL PIC	TURE		
SUBFAMILY	<u></u>						,
GENUS	Echino	ops		_		- 1	1
SPECIES	Echino	ops telfairi		TO MA			
SUBSPECIES				, ARAS		THE WASHINGTON	
MEA	SUREM	ENTS (µm)					
Head Leng		7.00	\neg				200
Head Wid		5.00	₹ .				
Midpiece Leng	ıth	26.00					1
Tail Leng	ıth	75.00		A SHORA COLOR	- 1	STATE OF THE PARTY	
Measure Tot	tal	108.00		Notes			
The sperm was	epididy	mal therefore the	ere is a cyt	oplasmic dropl	et prese	ent	

COMMON NAME

Rock Wrasse

PICTURE



Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes CLASS Actinopterygii **RP NUMBER** 16-144 ORDER Perciformes Pope and Coomassie STAIN SUBORDER HEAD SHAPE Round FAMILY Labridae ANIMAL PICTURE SUBFAMILY

Species Halichoeres semicinctus

SUBSPECIES

GENUS

Measure Total

MEASUREMENTS (µm)

Halichoeres

Head Length 4.50

Head Width 4.50

Midpiece Length

Tail Length 48.00

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

52.50

Notes

COMMON NAME	Mandrill
PICTURE	
* Pictures are not to s	scale * All Photos are property of the San Diego Zoo except those credited in the no
	Mammalia RP Number 16-081
ORDER	Primates Pope Pope
SUBORDER	HEAD SHAPE Oval
FAMILY	Cercopithecidae ANIMAL PICTURE
SUBFAMILY	
GENUS	Mandrillus
SPECIES /	Mandrillus sphinx
SUBSPECIES MEASU	JREMENTS (µm)
Head Length	6.00
Head Width	4.00
Midpiece Length	9.00
Tail Length	
Measure Total	68.00 NOTES

COMMON NAME	Golden Lion Tamarin
PICTURE	
* Pictures are not t	to scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Mammalia RP Number 16-090
ORDER	Primates Coomassie
SUBORDER	HEAD SHAPE Round
FAMILY	callitrichidae ANIMAL PICTURE
SUBFAMILY	ANIMAL PICTURE
GENUS	Leontopithecus
SPECIES	Leontopithecus rosalia
SUBSPECIES	
	ASUREMENTS (µm)
Head Leng	gth 5.50
Head Wid	dth 4.00
Midpiece Leng	gth 5.00
Tail Leng	gth 68.00
Measure To	tal 78.00 Notes

COMMON NAME	African Bullfrog		
PICTURE			
		ry of the San Diego Zoo except those credited in the n	otes
CLASS	Amphibia	RP Number 16-153	
ORDER	Anura	STAIN Pope	
SUBORDER		HEAD SHAPE Filiformal	
FAMILY	Pyxicephalidae	ANIMAL PICTURE	
SUBFAMILY			
GENUS	Pyxicephalus		
SPECIES	Pyxicephalus adspersus		
SUBSPECIES			3
MEA	SUREMENTS (µm)		3
Head Leng	th 14.00		
Head Wid	1.00		
Midpiece Leng	ıth		
Tail Leng	th 13.00		***
Measure Tot	27.00	Notes	

COMMON NAME	Cricket	
PICTURE		
· Dioturos aro not f	to scale * All Photos are proporty of th	e San Diego Zoo except these credited in the not
CLASS	Insecta	e San Diego Zoo except those credited in the not
ORDER	Orthoptera	STAIN Pope
SUBORDER	Ensifera	HEAD SHAPE Filiformal
FAMILY	Gyllidae	Animal Picture
SUBFAMILY		10.1
GENUS	Acheta	
SPECIES	Acheta domestica	
SUBSPECIES		8
MEA	ASUREMENTS (µm)	
Head Leng	gth 20.00	
Head Wid		
Midpiece Leng		11
Tail Lenç		
Measure To		ould not be measured so it is a minimum

Picture could not show entire length of tail.

COMMON NAME	Vietnam Giant Flying Squirrel		
PICTURE			
* Pictures are not t	o scale * All Photos are property o	of the San Diego Zoo	except those credited in the note
CLASS	Mammalia	RP Number	16-188
ORDER	Rodentia	STAIN	Pope
SUBORDER			
FAMILY	Sciuridae	HEAD SHAPE	Paddle
SUBFAMILY		ANIMAL PICTURE	
GENUS	Petaurista		
SPECIES	Petaurista philippensis lylei		
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng			
Head Wid	16.00		
Midpiece Leng	7.00		
Tail Leng	120.00		
Measure Tot	tal 144.00	Notes	

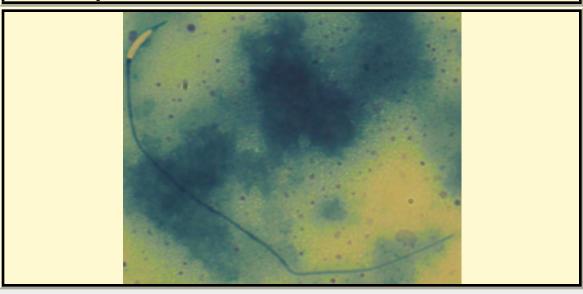
Midpiece was hard to disseminate, this measurement is a best guess.
The acrosome has a massive apical acrosomal segment with varying degrees of flexion

COMMON NAME	Southwestern Speckled Rattlesnake				
PICTURE					
		-			
* Pictures are not to CLASS	scale * All Photos are property Reptilia	of the San Diego Zoo	except those credited in the no	otes	
ORDER	Squamata	STAIN	Pope		
SUBORDER	Serpentes	HEAD SHAPE	Filiformal		
FAMILY	Viperidae	ANIMAL PICTURE	ı illiomai		
SUBFAMILY	Crotalinae	ANIMALTIOTORE		1	
GENUS	Crotalus				
SPECIES	Crotalus Pyrrhus			The same	
SUBSPECIES					
MEA	SUREMENTS (µm)			ı	
Head Leng	th 13.00			15,67	
Head Wid	th 2.00				
Midpiece Leng		a state will be the second			
Tail Leng				_	
Measure Tot	92.00	Notes			

COMMON NAME

Tamaulipan Rock Rattlesnake

PICTURE



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

CLASS Reptilia

ORDER Squamata

SUBORDER

Family Viperidae

SUBFAMILY

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

RP Number

16-186

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

COMMON NAME	Milky Stork
PICTURE	
* Pictures are not to CLASS	o scale * All Photos are property of the San Diego Zoo except those credited in the note Aves
	THE HOMBER
ORDER	<u>Ciconiiformes</u> STAIN Pope
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Ciconiidae Animal Picture
SUBFAMILY	
GENUS	Mycteria
SPECIES	Mycteria cinerea
SUBSPECIES	SUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Tail Leng	57.00
Measure Tot	

American Toad COMMON NAME **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** 16-154 ORDER Anura STAIN Pope SUBORDER HEAD SHAPE Filiformal FAMILY Bufonidae ANIMAL PICTURE SUBFAMILY GENUS Anaxyrus SPECIES Anaxyrus americanus SUBSPECIES MEASUREMENTS (µm) 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

COMMON NAME

California Toad

PICTURE



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

CLASS Amphibia

Anura

SUBORDER

FAMILY Bufonidae

SUBFAMILY

GENUS Anaxyrus

SPECIES Anaxyrus boreas halophilus

SUBSPECIES

ORDER

MEASUREMENTS (µm)

Head Length 23.00

Head Width 2.00

Midpiece Length

Tail Length 44.00

Measure Total 67.00

HEAD SHAPE

ANIMAL PICTURE

RP NUMBER

STAIN



16-180

Pope

Filiformal

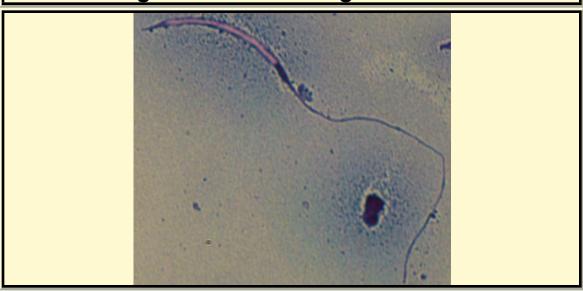
Notes

Midpiece could not be located in this image

COMMON NAME

Rabbs' Fringe-limbed Treefrog

PICTURE



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

CLASS Amphibia

ORDER Anura

SUBORDER

FAMILY Hylidae

SUBFAMILY

GENUS Ecnomiohyla

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

Animal Photo: Brian Gratwicke

Sperm sample from: Atlanta Botanical Garden

RP NUMBER

16-193

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

COMMON NAME

Roti Island Snake-necked Turtle

PICTURE



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

CLASS Reptilia

Testudines

SUBORDER Pleurodira

FAMILY Chelidae

Subfamily Chelodininae

GENUS Chelodina

Species Chelodina mccordi

SUBSPECIES

ORDER

MEASUREMENTS (µm)

Head Length 13.00

Head Width 1.50

Midpiece Length 5.00

Tail Length 25.00

Measure Total 43.00

RP Number

16-229

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



Notes

Midpiece may have swollen with the staining process

COMMON NAME	Blue-headed Wood-dove	
PICTURE		
* Pictures are not	scale * All Photos are property of the San Diego Zoo except those credited in the	note
CLASS	Aves RP Number 16-224	
ORDER	Columbiformes Stain Pope	
SUBORDER	HEAD SHAPE Filiformal	
FAMILY	Columbidae ANIMAL PICTURE	
SUBFAMILY	ANIMAL FICTORE	
GENUS	<u>Turtur</u>	
SPECIES	Turtur brehmeri	
Subspecies		
	SUREMENTS (µm)	2
Head Leng	th 24.00	
Head Wid	th 1.00	a dec
Midpiece Leng	th	
Tail Leng	th 165.00	
Measure To		
The midpiece w Get animal pho	as not able to be distinguished from the tail o from Visual Services	

COMMON NAME	Geoffroy's Marmos	set
PICTURE		
Pictures are not to CLASS	o scale * All Photos are proper Mammalia	rty of the San Diego Zoo except those credited in the not
ORDER	Primates	
Suborder		Coomassie
FAMILY	callitrichidae	HEAD SHAPE Oval
SUBFAMILY		Animal Picture
GENUS	Callithrix	
SPECIES	Callithrix geoffroyi	
SUBSPECIES		
MEA	SUREMENTS (µm)	
Head Leng	th 5.00	
Head Wid	1th 2.50	
Midpiece Leng	th 6.00	
Tail Leng	th 62.00	

COMMON NAME	Flamboyant Cuttlefish
PICTURE	
* Dictures are not t	a scale * All Dhotos are property of the San Diogo Zoo except those gradited in the note
CLASS	o scale * All Photos are property of the San Diego Zoo except those credited in the note: Cephalopoda RP Number
ORDER	Sepiida Stain Pinacyanol Chloride
SUBORDER	
FAMILY	Sepiidae Filiformal
SUBFAMILY	ANIMAL PICTURE
GENUS	Metasepia
SPECIES	Metasepia pfefferi
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	th 11.00
Head Wid	2.00
Midpiece Leng	pth
Tail Leng	yth 84.00
Measure Tot	tal 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

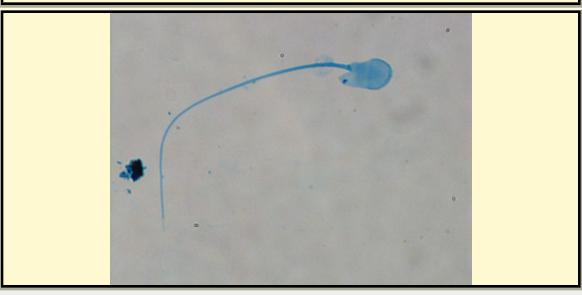
COMMON NAME	Pacific Spadefish		
PICTURE			
* Pictures are not to	o scale * All Photos are proper	ty of the San Diego Zoo	except those credited in the note
CLASS	Actinopterygii	RP Number	
ORDER	Perciformes	STAIN	Pinacyanol Chloride
SUBORDER		HEAD SHAPE	Round
FAMILY	Ephippidae		Round
SUBFAMILY		ANIMAL PICTURE	
GENUS	Chaetodipterus		63 3 3 3
SPECIES	Chaetodipterus zonatus		Ale
SUBSPECIES			
MEA	SUREMENTS (µm)		A COUNTY
Head Leng	th 2.00	Mich 30	4
Head Wid	lth 2.00		
Midpiece Leng	th		A STATE OF
Tail Leng	th		
Measure Tot		Notes	
Sperm sample f	rom: Birch Aquarium at Scripps		

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

COMMON NAME

Southern Three-Banded Armadillo

PICTURE



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

CLASS Mammalia

ORDER Cingulata

SUBORDER

FAMILY Chlamyphoridae

SUBFAMILY

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

RP Number 17-208

Stain Coomassie Coomassie

HEAD SHAPE Paddle

ANIMAL PICTURE



Notes

COMMON NAME	White-Fronted Bee-	Eater	
PICTURE			
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	-		
	The same of the same		
* Pictures are not to	scale * All Photos are property	of the San Diego Zoo	except those credited in the not
CLASS	Mammalia	RP Number	17-091
ORDER	Coraciiformes	STAIN	Pope
SUBORDER		HEAD SHAPE	Filiformal
FAMILY	<u>Meropidae</u>	ANIMAL PICTURE	
SUBFAMILY			
GENUS	Merops		The work
SPECIES	Merops bullockoides		- Co CO
SUBSPECIES	SUREMENTS (µm)		
Head Leng			
Head Wic			
Midpiece Leng	th		
Tail Leng			
Measure Tot	al	Notes	

COMMON NAME	Wattled Crane
PICTURE	
* D' .	
^ Pictures are not CLASS	to scale * All Photos are property of the San Diego Zoo except those credited in the no Aves
ORDER	Gruiformos
SUBORDER	STAIN Pope
FAMILY	Gruidae Filiformal
SUBFAMILY	ANIMAL PICTURE
	Purgoronus
GENUS	Bugeranus
SPECIES	Bugeranus carunculatus
SUBSPECIES	
	ASUREMENTS (µm)
Head Leng	
Head Wi	
Tail Len	
Measure To	
S	NOTES

COMMON NAME	White Croaker
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Actinopterygii RP Number 18-014
ORDER	Perciformes Stain Pope
SUBORDER	HEAD SHAPE Round
FAMILY	Sciaenidae ANIMAL PICTURE
SUBFAMILY	TINIMAE PROTORE
GENUS	Genyonemus
SPECIES	Genyonemus lineatus
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 3.00
Head Wid	dth 3.00
Midpiece Leng	gth
Tail Leng	gth 42.00
Measure To	otal 45.00 Notes

COMMON NAME	Donkey	
PICTURE		
	to scale * All Photos are property of the San Diego Zoo except those credited	l in the note
CLASS	Mammalia RP Number 17-173	
ORDER	Perissodactyla Pope	
SUBORDER		=
FAMILY	Equidae Oval	_
SUBFAMILY	ANIMAL PICTURE	
GENUS	Equus	
SPECIES	Equus africanus	J. Prince
SUBSPECIES	ASUREMENTS (µm)	
Head Leng	gth 6.00	de
Head Wid	dth 3.00	ne.
Midpiece Leng	gth 9.00	
Tail Leng	gth 38.00	
Measure To		

COMMON NAME	Sarcastic Fringehea	ad	
PICTURE			
		y of the San Diego Zoo except thos	e credited in the note
CLASS	Actinopterygii	RP Number	
ORDER	Perciformes	STAIN Pinacyan	ol Chloride
SUBORDER		HEAD SHAPE Round	
FAMILY	Chaenopsidae	ANIMAL PICTURE	
SUBFAMILY			
GENUS	Neoclinus		
SPECIES	Neoclinus blanchardi		
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng	2.50		100
Head Wid	2.50		
Midpiece Leng	gth		
Tail Leng	9th 40.00		
Measure To		Notes	
S M	A S		
A P		F S N	

COMMON NAME	Lesser Spot-nose	d Guenon
PICTURE		
* Pictures are not	to scale * All Photos are prope	erty of the San Diego Zoo except those credited in the not
CLASS	<u>Mammalia</u>	RP Number 17-133
ORDER	Primates	STAIN Coomassie
SUBORDER	Cercopithecidae	HEAD SHAPE Round ANIMAL PICTURE
GENUS SPECIES	Cercopithecus Cercopithecus petaurist	
SUBSPECIES		
Head Len	asurements (µm)	
Head W		
Midpiece Ler		
Tail Len		
Measure To	otal 73.00	Notes

COMMON NAME	Н
PICTURE	
	scale * All Photos are property of the San Diego Zoo except those credited in the note
CLA	Mammalia RP Number 17-074
ORDER	Carnivora Pope
UBORDER	HEAD HAPE Oval
FAMILY	Hyaenidae
UBFAMILY	A IMAL PICTURE
GE U	Crocuta
PE IE	Crocuta crocuta
UB PE IE	
MEA	UREME μm)
Head Lengt	4.10
Head Widt	th 2.10
Midpiece Lengt	th 7.50
Tail Lengt	th 47.50
Measure Tota	o E

COMMON NAME	Purple-striped Je	llyfish	
PICTURE			
* Pictures are not to	scale * All Photos are prop	erty of the San Diego Zoo	except those credited in the no
CLASS	Scyphozoa	RP Number	
ORDER	Semaeostomeae	STAIN	Pap
SUBORDER		HEAD SHAPE	Round
FAMILY	Pelagiidae Pelagiidae	ANIMAL PICTURE	
SUBFAMILY			
GENUS	Chrysaora		
SPECIES	Chrysaora colorata		
SUBSPECIES			
MEAS	SUREMENTS (µm)		
Head Leng	th 4.00		
Head Wid			Color of the second
Midpiece Leng			
Tail Leng			
Measure Tota	A S	Notes	
S M T A	Α 5	U P R	

COMMON NAME	Visayan Warty Pig	g
PICTURE		
* Pictures are not t	o scale * All Photos are prop	perty of the San Diego Zoo except those credited in the not
CLASS	Mammalia Mammalia	RP Number 17-125
ORDER	<u>Artiodactyla</u>	STAIN Pope
SUBORDER		HEAD SHAPE Paddle
FAMILY	Suiadae	ANIMAL PICTURE
SUBFAMILY		ANIMAL PICTURE
GENUS	Sus	
SPECIES	Sus cebifrons	
Subspecies		
	SUREMENTS (µm)	
Head Leng	10.00	
Head Wid	5.00	
Midpiece Leng	gth 11.00	
Tail Leng	9th 45.00	
Measure To	tal 60.00	Notes
С		

COMMON NAME	Caatinga Lancehea	ded Pitviper	
PICTURE		0 0000	
* Pictures are not to	scale * All Photos are property	of the San Diego Zoo	except those credited in the note
ORDER	Squamata Squamata	STAIN	Pope
SUBORDER	Serpentes	HEAD SHAPE	Filiformal
FAMILY	Viperidae	ANIMAL PICTURE	- IIIIOIIIIai
SUBFAMILY	Crotalinae		
GENUS	Bothrops		
SPECIES	Bothropoides erythromelas		M.B.
SUBSPECIES			
	SUREMENTS (µm)		
Head Leng			
Head Wid Midpiece Leng			
Tail Leng			
Measure Tot		Notes	

COMMON NAME	Turbo Snail		
PICTURE			
* Pictures are not to	o scale * All Photos are	property of the San Diego Zoo	except those credited in the notes
CLASS	Gastropoda	RP Number	
ORDER		STAIN	Pinacyanol Chloride
SUBORDER		<u> </u>	
FAMILY	Turbinidae	HEAD SHAPE	Conical
SUBFAMILY		ANIMAL PICTURE	
GENUS	Turbo	=	
		=	
SPECIES	Turbo fluctuosa		
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng	th 5.00		
Head Wid	1.50		
Midpiece Leng	yth		
Tail Leng	th 48.00		
Measure Tot		Notes	
S S	Α 5	5	Т
F			

COMMON NAME	African House Sna	ıke		
PICTURE				
	o scale * All Photos are proper	rty of the San Diego Zoo	except those credited in the r	notes
CLASS	Reptilia	RP NUMBER	17-132	
ORDER	Squamata	STAIN	Pope	
SUBORDER	Serpentes		Filiformal	
FAMILY	Lamprophiidae	HEAD SHAPE	Fillioffial	
SUBFAMILY	Lamprophiinae	ANIMAL PICTURE		_
GENUS	Lamprophis			
SPECIES	Lamprophis fuliginosus			
SUBSPECIES				
MEA	SUREMENTS (µm)			
Head Leng	gth			
Head Wid	dth			
Midpiece Leng	gth			
Tail Leng	gth			
Measure To	tal	Notes		
А Р С	L	FL		

COMMON NAME	Abdim's Stork
PICTURE	
* Pictures are not	to scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Aves RP Number 17-139
ORDER	<u>Ciconiformes</u> STAIN Pope
SUBORDER	
FAMILY	Ciconiidae Filiformal
SUBFAMILY	ANIMAL PICTURE
GENUS	Ciconia
SPECIES	Ciconia abdimii
SUBSPECIES	
ME	ASUREMENTS (µm)
Head Len	gth 12.00
Head Wi	dth 1.00
Midpiece Len	gth 2.00
Tail Len	gth 51.00
Measure To	otal 65.00 Notes

COMMON NAME	African Openbill Sto	ork	
PICTURE			
* Pictures are not t	o scale * All Photos are property	/ of the San Diego Zoo ε	except those credited in the note
CLASS	Mammalia	RP Number	17-122
ORDER	Ciconiiformes	STAIN	Pope
SUBORDER			
FAMILY	Ciconiidae	HEAD SHAPE	Filiformal
SUBFAMILY		ANIMAL PICTURE	
GENUS	Anastomus		all the second
SPECIES	Anastomus lamelligerus		
	7 Wild Sterna of Carriering Grad		
SUBSPECIES	SUREMENTS (µm)		
Head Leng			
Head Wid			
Midpiece Leng			
Tail Leng			
Measure To		Notes	

COMMON NAME	Tasmanian Devil
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 17-111
ORDER	Dasyuromorphia Stain None
SUBORDER	HEAD SHAPE Oval
FAMILY	Dasyuridae ANIMAL PICTURE
SUBFAMILY	THUMAL TOTAL
GENUS	Sarcophilus
SPECIES	Sarcophilus harrisii
Subspecies	
MEA	ASUREMENTS (µm)
Head Leng	gth 38.00
Head Wid	5.00
Midpiece Leng	gth
Tail Leng	gth 165.00
Measure Tot	tal 203.00 Notes

COMMON NAME	Peron's Tree Frog
PICTURE	
* Pictures are not to CLASS	to scale * All Photos are property of the San Diego Zoo except those credited in the note RP Number
ORDER	Anuro
SUBORDER	STAIN
FAMILY	Head Shape Filiformal
SUBFAMILY	ANIMAL PICTURE
GENUS	<u>Litoria</u>
SPECIES	Litoria peronii
Subspecies	
	ASUREMENTS (µm)
Head Leng	gth
Head Wid	dth
Midpiece Leng	
Tail Leng	
Measure Tot S P C A P C	M R U N U
A P C	A R C L

COMMON NAME	White-Headed Buffalo-Weaver
PICTURE	
* Pictures are not t	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Aves RP Number 17-135
ORDER	Passeriformes Pope
SUBORDER	HEAD SHAPE Helical
FAMILY	Ploceidae ANIMAL PICTURE
SUBFAMILY	
GENUS	<u>Dinemellia</u>
SPECIES	Dinemellia dinemelli
SUBSPECIES	
	ASUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Measure To	<u> </u>

COMMON NAME

Scimitar-horned Oryx

PICTURE



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

CLASS Mammalia

ORDER Artiodactyla

SUBORDER

FAMILY Bovidae

SUBFAMILY

GENUS

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

RP Number

17-247

STAIN

Pope

HEAD SHAPE

Paddle

ANIMAL PICTURE



Notes

COMMON NAME	Giant Anteater
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the notes
CLASS	Mammalia RP Number 15-343
ORDER	Pilosa Pope
SUBORDER	Vermilingua HEAD SHAPE Paddle
FAMILY	Myrmecophagidae Animal Picture
SUBFAMILY	7 TANIMAL TOTALE
GENUS	Myrmecophaga Total Control of the Co
SPECIES	Myrmecophaga tridactyla
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 7.30
Head Wid	dth 3.70
Midpiece Leng	gth 13.70
Tail Leng	gth 40.10
Measure To	
А Р	V M

COMMON NAME	Malay Great Argus	5	
PICTURE			
* Pictures are not t	o scale * All Photos are prope	rtv of the San Diego Zoo	except those credited in the no
CLASS	Aves	RP Number	13-275
ORDER	Galliformes	STAIN	Pope
SUBORDER			
FAMILY	Phasianidae	HEAD SHAPE	Filiformal
SUBFAMILY		ANIMAL PICTURE	
GENUS	Argusianus		
SPECIES	Argusianus argus argus		
SUBSPECIES		, Va	
MEA	SUREMENTS (µm)		
Head Leng	11.80		
Head Wid	0.90	and the same	
Midpiece Leng	9th 4.70		
Tail Leng	9th 66.60		and the second s
Measure To	tal 83.10	Notes	

COMMON NAME	Blackbuck		
PICTURE			
		0	
	10		•
* Pictures are not t	o scale * All Photos are proper	ty of the San Diego Zoo	except those credited in the note
CLASS	Mammalia	RP Number	10-026
ORDER	Artiodactyla	STAIN	Giemsa
SUBORDER		HEAD SHAPE	Paddle
FAMILY	Bovidae	ANIMAL PICTURE	
SUBFAMILY GENUS	antilope	2000	STATE OF LINE
SPECIES	Antilope cervicapra		
SUBSPECIES	Antilope del vidapia	OV	
	SUREMENTS (µm)		
Head Leng			7
Head Wic	4.70		
Midpiece Leng			
Tail Leng		Name	
Measure To	tal 58.20	Notes	

COMMON NAME

Cape Buffalo

PICTURE



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

CLASS Mammalia

ORDER Artiodactyla

Suborder Ruminantia

FAMILY Bovidae

Subfamily Bovinae

GENUS Syncerus

Species S. caffer

Subspecies S. caffer caffer

MEASUREMENTS (µm)

Head Length 6.30

Head Width 3.20

Midpiece Length 10.30

Tail Length 42.00

Measure Total 58.60

RP Number

03-116

STAIN

Giemsa

HEAD SHAPE

Paddle

ANIMAL PICTURE



Notes

COMMON NAME	Domestic Cat
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Mammalia RP Number
ORDER	<u>Carnivora</u> <u>Stain</u> <u>Giemsa</u>
SUBORDER	HEAD SHAPE Oval
FAMILY	Felidae
SUBFAMILY	ANIMAL PICTURE
GENUS	Felis
SPECIES	Felis catus
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	5.00
Head Wid	2.00
Midpiece Leng	gth 8.00
Tail Leng	9th 40.00
Measure Tot	tal 53.00 Notes
A	

COMMON NAME	Oustalet's Chameleon
PICTURE	
* Pictures are not	to scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Reptilia 15-187
ORDER	Squamata Pope
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Chamaeleonidae
SUBFAMILY	ANIMAL PICTURE
GENUS	<u>Furcifer</u>
SPECIES	Furcifer oustaleti
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 7.80
Head Wi	dth 2.00
Midpiece Len	gth 12.40
Tail Len	gth 90.60
Measure To	otal 110.80 Notes
A	M

South African Cheetah COMMON NAME **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** 96-034 ORDER Carnivora Pap STAIN SUBORDER Feliformia HEAD SHAPE Round FAMILY Felidae ANIMAL PICTURE SUBFAMILY Felinae GENUS Acinonyx A. jubatus SPECIES A. jubatus jubatus SUBSPECIES MEASUREMENTS (µm) Head Length 3.50 Head Width 2.10 Midpiece Length 9.40 Tail Length 38.50 Measure Total 51.40 Notes

COMMON NAME	Red-Crowned Crane
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Aves RP Number
ORDER	Gruiformes None
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Gruidae Animal Picture
SUBFAMILY	ANIMALTIOTORE
GENUS	Grus
SPECIES	Grus japonensis
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 8.30
Head Wid	dth 1.10
Midpiece Leng	gth 2.00
Tail Leng	gth 39.40
Measure To	Notes Notes

COMMON NAME	Barbary Red Deer
PICTURE	
* Pictures are not	to scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Mammalia RP Number 12-122
ORDER	Artiodactyla Giemsa Giemsa
SUBORDER	Ruminantia
FAMILY	Cervidae Paddle
SUBFAMILY	Cervinae Animal Picture
GENUS	Cervus
SPECIES	Cervus Elaphus Barbarus
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 8.00
Head Wi	dth 4.30
Midpiece Len	gth 11.20
Tail Len	gth 42.80
Measure To	otal 62.00 Notes

COMMON NAME	Calamian Deer		
PICTURE			
		•	
* Pictures are not t	o scale * All Photos are prope	ty of the San Diego Zoo	except those credited in the not
CLASS	Mammalia	RP Number	11-045
ORDER	<u>Artiodactyla</u>	STAIN	Coomassie
SUBORDER	Ruminantia	HEAD SHAPE	Paddle
FAMILY	Cervidae	ANIMAL PICTURE	
SUBFAMILY	Cervinae		
GENUS	Axis		Y Y
SPECIES	Axis calamianensis		
SUBSPECIES MEA	SUREMENTS (µm)		
Head Leng			
Head Wid			
Midpiece Leng			A L
Tail Leng			THE WINDS CONTRACTOR OF STREET
Measure To	60.20	Notes	

	OI LITTO	112,10	
COMMON NAME	California Mule Deer		
PICTURE			
	-		
* Pictures are not to CLASS	o scale * All Photos are property Mammalia		
		RP Number	14-317
ORDER	Artiodactyla	STAIN	Giemsa
SUBORDER		HEAD SHAPE	Paddle
FAMILY	Cervidae	ANIMAL PICTURE	
SUBFAMILY			
GENUS	Odocoileus		
S PECIES	Odocoileus hemionus		
Subspecies			
MEA	SUREMENTS (µm)		
Head Leng	7.50		
Head Wid	4.00		
Midpiece Leng	10.90		And the second s
Tail Leng	34.60	an buse	
Measure Tot	al 53.00	Notes	

COMMON NAME	Western Tufted Deer	
PICTURE		
* Pictures are not t	o scale * All Photos are property of the San Di	iego Zoo except those credited in the note
CLASS		NUMBER 15-021
ORDER	Artiodactyla	STAIN Pope
SUBORDER	HEAD	Shape
FAMILY	Cervidae Animal P	
SUBFAMILY		
GENUS	Elaphodus	
SPECIES	Elaphodus cephalophus	
SUBSPECIES	SUREMENTS (µm)	
Head Leng	7.70	
Head Wid		
Midpiece Leng		
Tail Leng		
Measure Tot	55.50 N OTES	

OMMON NAME	D	
PICTURE		
	scale * All Photos are prope Mammalia	erty of the San Diego Zoo except those credited in the not
ORDER	Carnivora	STAIN Giemsa
SUBORDER		HEAD SHAPE Paddle
	Canidae	ANIMAL PICTURE
	Caninae	
	Cuon	
	Cuon alpinus lepturus	
SUBSPECIES	SUREMENTS (µm)	
Head Lengt		
Head Widt		
Midpiece Lengt	th 20.00	
Tail Lengt	h 36.00	
Measure Tota	62.00	Notes

COMMON NAME	Cavendish's Dik [Dik
PICTURE		
		perty of the San Diego Zoo except those credited in the no
CLASS	<u>Mammalia</u>	RP NUMBER 12-136
ORDER	<u>Artiodactyla</u>	Stain
SUBORDER		HEAD SHAPE Paddle
FAMILY	Bovidae	ANIMAL PICTURE
SUBFAMILY		
GENUS	Madoqua	
SPECIES	Madoqua kirkii cavendishi	
SUBSPECIES	ASUREMENTS (µm)	
Head Len	ngth 6.00	
Head W	idth 2.50	
Midpiece Ler	ngth 10.60	
Tail Len	ngth 44.20	
Measure To	otal 60.80	Notes

COMMON NAME	Domestic Dog			
PICTURE				
	o scale * All Photos are prope		except those credited in the	notes
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 familiiaris			
MEA	SUREMENTS (µm)			
Head Leng	th 5.80			
Head Wic	3.00			*
Midpiece Leng	9.00	1-106		55
Tail Leng	th 40.50	2. Year Part		Service Control
Measure Tot		Notes		
A	С			

COMMON NAME	Eastern Yellow-Backed Duiker
PICTURE	
* Pictures are not to	scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 15-353
ORDER	Artiodactyla Giemsa
SUBORDER	Ruminantia HEAD SHAPE Paddle
FAMILY	Bovidae ANIMAL PICTURE
SUBFAMILY	Cephalophus Animal Picture
GENUS	Cephalophus
SPECIES	C. silvicultor
SUBSPECIES	C. silvicultor silvicultor
MEA	SUREMENTS (µm)
Head Leng	th 8.50
Head Wid	th 4.50
Midpiece Leng	th 13.20
Tail Leng	
Measure Tot	al 64.00 Notes
С	

COMMON NAME	Red Flanked	Duiker			
PICTURE					
CLASS	Mammalia			cept those credited in the 3-252	e note
ORDER	Artiodactyla	=	STAIN	Coomassie	1
SUBORDER	Bovidae		EAD SHAPE	² addle	
SUBFAMILY		ANIMA	AL PICTURE		
GENUS	Cephalophus				36
SPECIES	Cephalophus rufilat	us	Z.		
SUBSPECIES	SUREMENTS (µm)				1
Head Leng	7.00				1
Head Wid	4.60				700
Midpiece Leng	12.70				
Tail Leng	gth 37.20				
Measure To	tal 56.90	Notes			

COMMON NAME	Indian Gaur
PICTURE	
* Pictures are not to CLASS	to scale * All Photos are property of the San Diego Zoo except those credited in the no Mammalia RP Number 15-209
ORDER	Artiodoctyle
SUBORDER	STAIN
FAMILY	Bovidae Paddle
Subfamily	Bovinae ANIMAL PICTURE
GENUS	Bos
SPECIES	Bos frontalis gaurus
SUBSPECIES	
	ASUREMENTS (µm)
Head Leng	
Head Wid	3.70
Midpiece Leng	gth 14.00
Tail Leng	gth 47.70
Measure To	tal 69.10 Notes

	Addra Gazelle	
PICTURE		
		erty of the San Diego Zoo except those credited in the no
CLASS	Mammalia	RP Number 04-174
ORDER	Artiodactyla	STAIN Giemsa
SUBORDER		HEAD SHAPE Paddle
FAMILY	Bovidae	
SUBFAMILY	Antilopinae	ANIMAL PICTURE
GENUS	Nanger	
SPECIES	Nanger dama ruficollis	
SUBSPECIES	SUREMENTS (µm)	
Head Leng	th 6.60	THE REPORT OF THE PARTY OF THE
Head Wid	4.50	
Midpiece Leng	9.50	
Tail Leng	1th 42.50	
Measure Tot	tal 58.60	Notes

	01 21 1111	7112718	
COMMON NAME	Grant's Gazelle		
Picture			, no. 0
* Pictures are not	to scale * All Photos are propert	y of the San Diego Zoo	except those credited in the note
CLASS	Mammalia	RP Number	14-344
ORDER	<u>Artiodactyla</u>	STAIN	Pope
SUBORDER		HEAD SHAPE	Paddle
FAMILY	Bovidae		radule
SUBFAMILY	Antilopinae	ANIMAL PICTURE	"
GENUS	Nanger		
SPECIES	Nanger granti		
SUBSPECIES		0.56	
	ASUREMENTS (µm)		
Head Leng			A CONTRACTOR OF THE PARTY OF TH
Head Wid			
Midpiece Leng			三十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二
Tail Leng		The same of the sa	The state of

Notes

Measure Total

53.60

COMMON NAME	Slender-Horned Ga	zelle		
PICTURE				
* Pictures are not t	o scale * All Photos are property	y of the San Diego Zoo	except those credited in the	note
CLASS	Mammalia	RP Number	12-186	
ORDER	Artiodactyla	STAIN	Coomassie	
SUBORDER		HEAD SHAPE	Paddle	
FAMILY	Bovidae		addie	
SUBFAMILY	Antilopinae	ANIMAL PICTURE		\neg
GENUS	Gazella	-		
SPECIES	G. leptoceros			
SUBSPECIES		100		
MEA	SUREMENTS (µm)	563		
Head Leng	8.70			
Head Wid	4.60			
Midpiece Leng	gth 12.48	a contract		
Tail Leng	gth 40.34	100		
Measure To	fal 61.52	Notes		

COMMON NAME	Thomson's Gazelle	
PICTURE		
* Pictures are not to	to scale * All Photos are property of the San Diego Z	Zoo except those credited in the note
CLASS	Mammalia RP Number	
ORDER	Artiodactyla	N Giemsa
SUBORDER	HEAD SHAP	
FAMILY	Bovidae Animal Picturi	
SUBFAMILY	ANIWAL FICTOR	1 1 +
GENUS	Eudorcas	
SPECIES	Eudorcas thomsonii	
Subspecies		
	ASUREMENTS (µm)	
Head Leng		
Head Wid		
Midpiece Leng	gth 5.70	
Tail Leng	gth 50.10	
Measure Tot	otal 66.80 Notes	

COMMON NAME	Masai Giraffe
PICTURE	
* Pictures are not t	to scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Mammalia RP Number 16-220
ORDER	Artiodactyla Coomassie
SUBORDER	HEAD SHAPE Oval
FAMILY	Giraffidae ANIMAL PICTURE
SUBFAMILY	ANIMAL FICTORE
GENUS	Giraffa
SPECIES	Giraffa tippelskirchi
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 5.70
Head Wid	2.50
Midpiece Leng	gth 8.20
Tail Lenç	gth 46.10
Measure To	tal 60.00 Notes

	Of EI livi	7112718	
COMMON NAME	Domestic Goat		
PICTURE			
* Pictures are not to	o scale * All Photos are property Mammalia	of the San Diego Zoo	except those credited in the notes
ORDER	Artiodactyla	STAIN	Giemsa
SUBORDER	Bovidae	HEAD SHAPE ANIMAL PICTURE	Paddle
SUBFAMILY	Caprinae		
SPECIES SPECIES	Capra hircus	M	
SUBSPECIES			
	SUREMENTS (µm)		
Head Leng		2.983	
Midpiece Leng		A	
Tail Leng			
Measure Tot	al 55.20	Notes	

COMMON NAME

Central Chinese Goral

PICTURE



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

CLASS Mammalia

ORDER Artiodactyla

Suborder Ruminantia

FAMILY Bovidae

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

RP Number

05-036

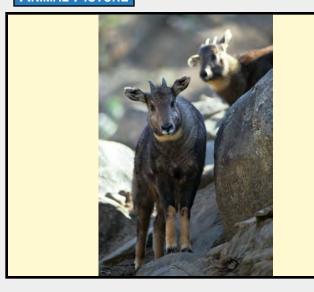
STAIN

Giemsa

HEAD SHAPE

Oval

ANIMAL PICTURE



Notes

COMMON NAME

Four-Toed African Hedgehog

PICTURE



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

CLASS Mammalia

Erinaceomorpha

SUBORDER

ORDER

FAMILY Erinaceidae

SUBFAMILY

Erinaceinae

GENUS

Atelerix

SPECIES

A. albiventris

SUBSPECIES

MEASUREMENTS (µm)

Head Length 4.40

9...

Head Width

3.30

Midpiece Length

11.38

Tail Length

72.10

Measure Total

87.88

RP NUMBER

09-003

STAIN

Giemsa

HEAD SHAPE

Round

ANIMAL PICTURE



Notes

N M

COMMON NAME	Domestic Horse
PICTURE	
* Pictures are not to	scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Mammalia RP Number 14-154
ORDER	Perissodactyla Giemsa
SUBORDER	HEAD SHAPE Oval
FAMILY	Equidae ANIMAL PICTURE
SUBFAMILY	ANIWALTICIORE
GENUS	<u>Equus</u>
SPECIES	Equus ferus
SUBSPECIES	Equus ferus caballus
MEAS	SUREMENTS (µm)
Head Lengt	the state of the s
Head Wid	th 2.70
Midpiece Leng	th 8.40
Tail Leng	th 35.30
Measure Total	Al Notes

COMMON NAME	Nubian Ibex		
PICTURE			
	0.		
	to scale * All Photos are property o		
CLASS	<u>Mammalia</u>	RP Number	14-329
ORDER	Artiodactyla	STAIN	Giemsa
SUBORDER		HEAD SHAPE	Paddle
FAMILY	Bovidae	ANIMAL PICTURE	
SUBFAMILY	Caprinae	THUMALTIOTORE	
GENUS	Capra		May E
SPECIES	C. nubiana		
SUBSPECIES			
MEA	ASUREMENTS (µm)		
Head Leng	gth 6.40		A STATE OF THE PARTY OF THE PAR
Head Wid	dth 3.40		
Midpiece Leng	gth 12.70		
Tail Leng	gth 45.20	The state of the s	
Measure To	tal 64.30	Notes	

Common Name	Black Spiny-tailed	d Iguana
PICTURE		
* Pictures are not	to scale * All Photos are prop	perty of the San Diego Zoo except those credited in the note
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		
MEA	ASUREMENTS (µm)	
Head Leng	gth 17.00	
Head Wi		
Midpiece Len		
Tail Len		
Measure To		Notes
A	Т	F S I

COMMON NAME	Jagu	ıar						
PICTURE								
* Pictures are not to			property of				e credited ir	the notes
CLASS	Mamma			RP Num	BER	14-126		
ORDER	Carnivo	ora	_	Sī	TAIN	Giemsa		
SUBORDER			_	HEAD SH	APE	Oval		
FAMILY	Felidae)		ANIMAL PICT	URE			
SUBFAMILY				77.0	the Co	100	A A CAR	7
GENUS	<u>Panthe</u>	<u>ra</u>		. 1	-	600×	the Co	
SPECIES	<u>Panthe</u>	ra onca				100	1000	
SUBSPECIES						100		
MEA		NTS (µm)						
Head Leng		3.80		THE STATE OF THE S				
Head Wid		2.90	<u></u>			8	10	200.3
Midpiece Leng		8.20	_		C. Maria	W. Y.		- P
Tail Leng		43.70	<u></u>					
Measure Tot	al	55.70		Notes				

Koala COMMON NAME **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** 14-140 ORDER Diprotodontia STAIN Pope SUBORDER Sickle HEAD SHAPE 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

COMMON NAME	Ugandan Kob
PICTURE	
* Pictures are not to CLASS	o scale * All Photos are property of the San Diego Zoo except those credited in the not Mammalia RP Number 14-349
ORDER	Artiodactyla Giemsa
SUBORDER	HEAD SHAPE Paddle
FAMILY	Bovidae ANIMAL PICTURE
SUBFAMILY	Kobus
SPECIES	Kobus kob thomasi
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	
Head Wid	
Tail Leng	
Measure Tot	

COMMON NAME	Greater Kudu
PICTURE	
* D'. (La contra de la contra dela contra de la contra dela contra de la contra del la contra
^ Pictures are not	to scale * All Photos are property of the San Diego Zoo except those credited in the not Mammalia RP Number
ORDER	Artiodactyla STAIN Giemsa
SUBORDER	HEAD SHAPE Paddle
FAMILY	Bovidae ANIMAL PICTURE
SUBFAMILY	Bovinae
GENUS	Tragelaphus
SPECIES	Tragelaphus strepsiceros
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	
Head Wi	
Midpiece Leng	
Measure To	

COMMON NAME	Nile Lechwe		
PICTURE			
* Diet	A A A II Dhatas are press	who of the Con Diego 700	
CLASS	Mammalia	RP Number	except those credited in the note 16-025
ORDER	Artiodactyla	STAIN	Pope
SUBORDER		HEAD SHAPE	Paddle
FAMILY	Bovidae	ANIMAL PICTURE	Laddic
SUBFAMILY			
GENUS	Kobus		
SPECIES	Kobus megaceros		
SUBSPECIES			
	SUREMENTS (µm)		
Head Leng			
Head Wid	4.40		一人的手列
Midpiece Leng			A WAR TO THE
Tail Leng	38.80		
Measure Tot	57.30	Notes	

COMMON NAME	Zambesi Lechwe
PICTURE	
* Dictures are not	to scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Mammalia RP Number 15-020
ORDER	Artiodactyla Coomassie
SUBORDER	HEAD SHAPE Paddle
FAMILY	Bovidae ANIMAL PICTURE
SUBFAMILY	
GENUS	Kobus
SPECIES	Kobus leche
SUBSPECIES MF4	ASUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Tail Leng	
Measure To	otal 55.60 Notes

COMMON NAME	L	
PICTURE		
		Diego Zoo except those credited in the notes
CLASS	<u>Mammalia</u>	16-025
ORDER	<u>Artiodactyla</u>	STAIN Pope
SUBORDER	He	Paddle Paddle
FAMILY	Bovidae	L PICTURE
SUBFAMILY	A IWA	LFICTORE
GENUS	Kobus	
SPECIES	Kobus megaceros	
SUBSPECIES		
MEAS	SUREMENTS (µm)	
Head Lengt	th 7.80	
Head Widt	4.40 4.40	
Midpiece Lengt	th 10.70	· 15 人工工作人人们上一个样
Tail Lengt	th 38.80	
Measure Tota	al 57.30 otes	

OMMON NAME	L
PICTURE	
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the notation i
ORDER	Carnivora
SUBORDER	
FAMILY	Felidae Oval
SUBFAMILY	A IMAL PICTURE
GENUS	<u>Panthera</u>
SPECIES	P. Pardus Japonensis
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	th 4.00
Head Wid	
Midpiece Leng	15.00
Tail Leng	
Measure Tot	al 42.00 otes

COMMON NAME	Transvaal Lion
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Mammalia RP Number 06-042
ORDER	<u>Carnivora</u> STAIN Giemsa
SUBORDER	Feliformia HEAD SHAPE Round
FAMILY	Felidae ANIMAL PICTURE
SUBFAMILY	Felinae
GENUS	Panthera
SPECIES	P. leo
SUBSPECIES	P. leo krugeri
MEA	SUREMENTS (µm)
Head Leng	th 4.20
Head Wid	2.40
Midpiece Leng	7.40
Tail Leng	43.10
Measure Tot	Notes Notes

* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the CLASS Mammalia RP Number 18-029 ORDER Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ROUND ROU					
* Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the CLASS Mammalia RP Number 18-029 ORDER Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ANIMAL PICTURE SUBFAMILY GENUS Nycticebus	COMMON NAME	Pygmy Slow Loris			
CLASS Mammalia Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ANIMAL PICTURE RP NUMBER 18-029 STAIN Coomassie RAMINAL PICTURE	PICTURE	RE			
CLASS Mammalia Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ANIMAL PICTURE RP NUMBER 18-029 STAIN Coomassie RAMINAL PICTURE					
CLASS Mammalia Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ANIMAL PICTURE RP NUMBER 18-029 STAIN Coomassie RAMINAL PICTURE					
CLASS Mammalia Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ANIMAL PICTURE RP NUMBER 18-029 STAIN Coomassie RAMINAL PICTURE				0	
CLASS Mammalia Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ANIMAL PICTURE RP NUMBER 18-029 STAIN Coomassie RAMINAL PICTURE					
CLASS Mammalia Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ANIMAL PICTURE RP NUMBER 18-029 STAIN Coomassie RAMINAL PICTURE					
CLASS Mammalia Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ANIMAL PICTURE RP NUMBER 18-029 STAIN Coomassie RAMINAL PICTURE			0		
CLASS Mammalia Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ANIMAL PICTURE RP NUMBER 18-029 STAIN Coomassie RAMINAL PICTURE					
CLASS Mammalia Primates STAIN Coomassie SUBORDER FAMILY Lorisidae ANIMAL PICTURE RP NUMBER 18-029 STAIN Coomassie RAMINAL PICTURE	* Pictures are not to	not to scale * All Photos are property	of the San Diego Zoo	except those credited in the	note
SUBORDER FAMILY Lorisidae ANIMAL PICTURE STAIN COOMASSIE Round ANIMAL PICTURE					
FAMILY Lorisidae Subfamily Genus Nycticebus HEAD SHAPE Round ANIMAL PICTURE	ORDER	Primates	STAIN	Coomassie	
SUBFAMILY GENUS Nycticebus ANIMAL PICTURE	SUBORDER	ER			
Subfamily Genus Nycticebus	FAMILY	Lorisidae		rtourid	
	SUBFAMILY	LY	ANIMALTICIONE		
Nycticebus pygmaeus Nycticebus pygmaeus	GENUS	Nycticebus			
	SPECIES	Nycticebus pygmaeus			
Subspecies	SUBSPECIES	ES			5
MEASUREMENTS (μm)	MEAS	MEASUREMENTS (µm)			4
Head Length 7.50	Head Leng	Length 7.50		10 9 P	S
Head Width 4.25	Head Wid	d Width 4.25			
Midpiece Length 6.25	Midpiece Leng	Length 6.25			
Tail Length 79.00	Tail Leng	Length 79.00		/ 2008 (Alice	
Measure Total 48.75 Notes	Measure Tot	e Total 48.75	Notes		

	SPERM	1 ATLAS		
COMMON NAME	North Indian Muntj	ac		
PICTURE				
* Pictures are not	to scale * All Photos are proper	ty of the San Diego Zoo	except those credited in the not	te
CLASS	<u>Mammalia</u>	RP Number	15-096	
ORDER	<u>Artiodactyla</u>	STAIN	Giemsa	
SUBORDER	Ruminantia	HEAD SHAPE	Paddle	
FAMILY	Cervidae	ANIMAL PICTURE		
SUBFAMILY	Cervinae			İ
GENUS	Muntiacus			
SPECIES	Muntiacus muntjak			
SUBSPECIES MEA	ASUREMENTS (µm) gth 5.60			
Head Wi				

Notes

Midpiece Length

Measure Total

Tail Length

12.60

38.20

56.40

PICTURE		
	cale * All Photos are property of the San Diego Zoo except those credited in the r	note
CLASS	RP NUMBER 11-022	
ORDER	STAIN Coomassie	
SUBORDER	Aniformia HEAD SHAPE Round	
FAMILY	Sidae ANIMAL PICTURE	
SUBFAMILY Ail	luropodinae	7
GENUS Ail	luropoda	
SPECIES A.	melanoleuca	
	melanoleuca melanoleuc REMENTS (µm)	
Head Length	4.00	
Head Width	2.80	
Midpiece Length	12.05	
Tail Length	34.73	
Measure Total	50.78 Notes	

	OI LIT	IVI ATLAS	
Common Name	White-Bellied Tree	e Pangolin	
PICTURE	9		
* Pictures are not CLASS	to scale * All Photos are prope Mammalia	erty of the San Diego Zoo RP Number	except those credited in the note 16-196
ORDER	Cimolesta	ī —	
		STAIN	Pope
SUBORDER	Pholidota	HEAD SHAPE	Filiformal
FAMILY	Manidae	ANIMAL PICTURE	
SUBFAMILY	Maninae		
GENUS	<i>Manis</i>		
SPECIES	M. tricuspis		
SUBSPECIES	M. tricuspis tricuspis		
MEA	ASUREMENTS (µm)		
Head Leng	gth 6.00		
Head Wi	1.10		
Midpiece Len	gth 10.40		
Tail Len	gth 53.50	633	
Measure To		Notes	

COMMON NAME	Burmese Python
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	RP Number 13-024
ORDER	Squamata Pope
SUBORDER	Serpentes HEAD SHAPE Filiformal
FAMILY	Pvthonidae
SUBFAMILY	ANIMAL PICTURE
GENUS	Python
SPECIES	Python molurus
SUBSPECIES	Python molurus bivittatus
	ASUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	gth 35.00
Tail Leng	
Measure To	96.40 Notes
S P	

COMMON NAME	Domestic Rabbit		
PICTURE			
* Pictures are not t	o scale * All Photos are prope	erty of the San Diego Zoo	except those credited in the note
CLASS	Mammalia	RP Number	12-068
ORDER	Lagomorpha	STAIN	Giemsa
SUBORDER		HEAD SHAPE	Paddle
FAMILY	Leporidae	ANIMAL PICTURE	<u> </u>
SUBFAMILY		TRAIMAET GTORE	
GENUS	Oryctolagus		
SPECIES	Oryctolagus cuniculus		
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng	eth 6.70		
Head Wid	3.90		
Midpiece Leng	9th 8.10		医多定型 医乳头
Tail Leng	34.30		
Measure To		Notes	
A	R T S F		

COMMON NAME	Raccoon
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Mammalia RP Number 14-131
ORDER	<u>Carnivora</u> Stain Giemsa
SUBORDER	HEAD SHAPE Conical
FAMILY	Procyonidae ANIMAL PICTURE
SUBFAMILY	
GENUS	Procyon
SPECIES	Procyon lotor
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 6.80
Head Wid	4.20 4.20
Midpiece Leng	gth 15.70
Tail Leng	55.50
Measure Tot	tal 78.00 Notes

COMMON NAME	Red-headed Ratsnake
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	RP Number 15-351
ORDER	Squamata Pope
SUBORDER	Serpentes HEAD SHAPE Filiformal
FAMILY	Colubridae Animal Picture
SUBFAMILY	ANIMAL FICTORE
GENUS	Elaphe
SPECIES	Elaphe moellendorffi
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 9.70
Head Wid	dth 0.60
Midpiece Leng	gth 61.00 Photo: Rex Knight®
Tail Leng	gth 29.00
Measure To	
A	R

PICTURE	
* Pictures are not to scale * All Photos are property of the San	Diego Zoo except those credited in the notes
CLASS Reptilia RF	16-138
ORDER Squamata	STAIN Pope
SUBORDER	AD SHAPE Filiformal
FAMILY Viperidae	- PICTURE
Subfamily Crotalinae	AND SECOND SECON
GENUS Crotalus	
Species Crotalus molossus	A 7 C.
Subspecies	
MEASUREMENTS (μm)	A CHU CONTRACTOR OF THE CONTRA
Head Length 10.40	CONTRACTOR IN
Head Width 0.70	
Midpiece Length	
Tail Length 74.00	
Measure Total Notes	

COMMON NAME	Siberian Reindeer
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 16-178
ORDER	Artiodactyla Stain Pope
SUBORDER	HEAD SHAPE Round
FAMILY	Cervidae ANIMAL PICTURE
SUBFAMILY	
GENUS	Rangifer
SPECIES	Rangifer tarandus sibiricus
SUBSPECIES	
	ASUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Tail Leng	gth 40.00
Measure To	<u> </u>

COMMON NAME	East African Black	Rhinoceros	
PICTURE			
	-		
* Pictures are not to	o scale * All Photos are propert	ry of the San Diego Zoo	except those credited in the n
ORDER	Perissodactyla	STAIN	Giemsa
SUBORDER	Ceratomorpha	HEAD SHAPE	Oval
FAMILY	Rhinocerotidae	ANIMAL PICTURE	
GENUS	Rhinocerotinae Diceros		
SUBSPECIES MEA	D. bicornis D. bicornis michaeli SUREMENTS (µm)		
Head Leng			
Head Wid	2.10	20	
Midpiece Leng			
Tail Leng			
Measure Tot	al 47.90	Notes	

COMMON NAME	Northern White Rhin	noceros	
PICTURE			
		ON THE PARTY OF TH	
			100
* Pictures are not t	o scale * All Photos are property	of the San Diego Zoo	except those credited in the not
CLASS	Mammalia Mammalia	RP Number	14-193
ORDER	Perissodactyla	STAIN	Coomassie
SUBORDER			
FAMILY	Rhinocerotidae	HEAD SHAPE	Oval
SUBFAMILY		ANIMAL PICTURE	
GENUS	Ceratotherium	AND DESCRIPTION OF PERSONS	
SPECIES	Ceratotherium simum	1/2 /0/1/	
SUBSPECIES	Ceratotherium simum cottoni		
MEA	SUREMENTS (µm)		
Head Leng	5.00		
Head Wid	1th 2.50		
Midpiece Leng	gth 6.70		
Tail Leng	36.20		
Measure To	47.90	Notes	

COMMON NAME	Southern White Rhind	oceros		
PICTURE				
			•	
* Pictures are not to	scale * All Photos are property of	the San Diego Zoo	except those credited in the	notes
CLASS	<u>Mammalia</u>	RP Number	15-256	
ORDER	Perissodactyla	STAIN	Giemsa	
SUBORDER				
FAMILY	Rhinocerotidae	HEAD SHAPE	Oval	
SUBFAMILY		ANIMAL PICTURE		\neg
GENUS	Ceratotherium	7.7.		
SPECIES	Ceratotherium simum	nom		
SUBSPECIES	Ceratotherium simum simum	VI The		
MEA	SUREMENTS (µm)			
Head Leng	th 4.50			
Head Wid	th 2.30	A STATE OF THE STA		
Midpiece Leng	th 7.80		and the same	
Tail Leng	th 32.10	ADD THE STATE OF T		PL MATE
Measure Tot	al 44.40	Notes		

COMMON NAME	Serval		
PICTURE			
* Pictures are not t	to scale * All Photos are property	of the San Diego Zoo	except those credited in the not
CLASS	Mammalia	RP Number	16-089
ORDER	Carnivora	STAIN	Pope
SUBORDER		HEAD SHAPE	Oval
FAMILY	Felidae	ANIMAL PICTURE	
SUBFAMILY	Felinae		
GENUS	Leptailurus		
SPECIES	Leptailurus serval		
SUBSPECIES			
	SUREMENTS (µm)		
Head Leng			
Head Wid			
Tail Leng			
Measure To		Notes	

COMMON NAME	Sudan Barbary Sho	eep	
PICTURE			
		ty of the San Diego Zoo	except those credited in the not
CLASS	Mammalia	RP NUMBER	08-021
ORDER	Artiodactyla	STAIN	Giemsa
SUBORDER	Ruminantia	HEAD SHAPE	Oval
FAMILY	Bovidae	ANIMAL PICTURE	Ovai
SUBFAMILY	Caprinae	ANIMAL FICTURE	
GENUS	Ammotragus		
SPECIES	Ammotragus lervia		
SUBSPECIES ME	ASUREMENTS (µm)		
Head Len			
Head Wi			
Midpiece Len	gth 14.93		A STATE OF THE STA
Tail Len	gth 36.40		
Measure To	otal 58.33	Notes	

Common Name	Striped Skunk	
PICTURE		
* Pictures are not	to scale * All Photos are prope	erty of the San Diego Zoo except those credited in the not
CLASS	Mammalia	RP Number 16-023
ORDER	Carnivora	STAIN Pope
SUBORDER	Caniformia	HEAD SHAPE Round
FAMILY	<u>Mephitidae</u>	ANIMAL PICTURE
SUBFAMILY		ANIMAL FICTORE
GENUS	Mephitis	
SPECIES	Mephitis mephitis	
SUBSPECIES		
	ASUREMENTS (µm)	
Head Len	gth 6.20	
Head Wi	dth 6.30	8333
Midpiece Len	gth 11.40	
Tail Len	gth 70.00	
Measure To	otal 87.60	Notes

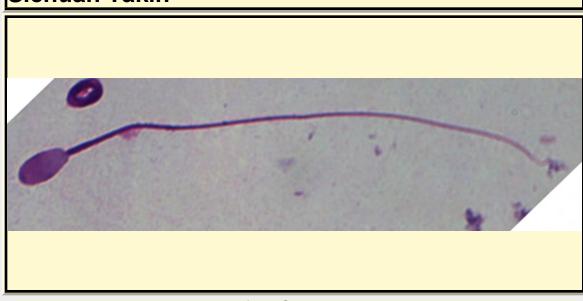
COMMON NAME	South African Springbok
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Mammalia RP Number 11-144
ORDER	Artiodactyla Coomassie Coomassie
SUBORDER	HEAD SHAPE Paddle
FAMILY	Bovidae ANIMAL PICTURE
SUBFAMILY	Antilopinae
GENUS	Antidorcas
SPECIES	Antidorcas marsupialis
SUBSPECIES	
	SUREMENTS (µm)
Head Leng	9th 6.60
Head Wid	3.30
Midpiece Leng	gth 8.70
Tail Leng	9th 44.00
Measure Tot	tal 59.30 Notes

COMMON NAME	outhern Steenbo	k	
PICTURE			
Pictures are not to so	ale * All Photos are prope	rty of the San Diego Zoo	except those credited in the no
	ammalia	RP Number	06-058
ORDER Art	tiodactyla	STAIN	Coomassie
SUBORDER		HEAD SHAPE	Paddle
FAMILY	vidae	ANIMAL PICTURE	r dddio
SUBFAMILY		ANIMAETIOTORE	
G ENUS Ra	phicerus		0.9
SPECIES R.	campestris	第二次	
SUBSPECIES MEASUR	EMENTS (μm)		
Head Length	6.90		
Head Width	3.40	The state of the s	
Midpiece Length	9.60	a market in the	
Tail Length	28.20		
Measure Total	44.70	Notes	

COMMON NAME

Sichuan Takin

PICTURE



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

CLASS

Mammalia

ORDER

Artiodactyla

SUBORDER

Ruminantia

FAMILY

Bovidae

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

RP NUMBER

08-051

STAIN

Giemsa

HEAD SHAPE

Oval

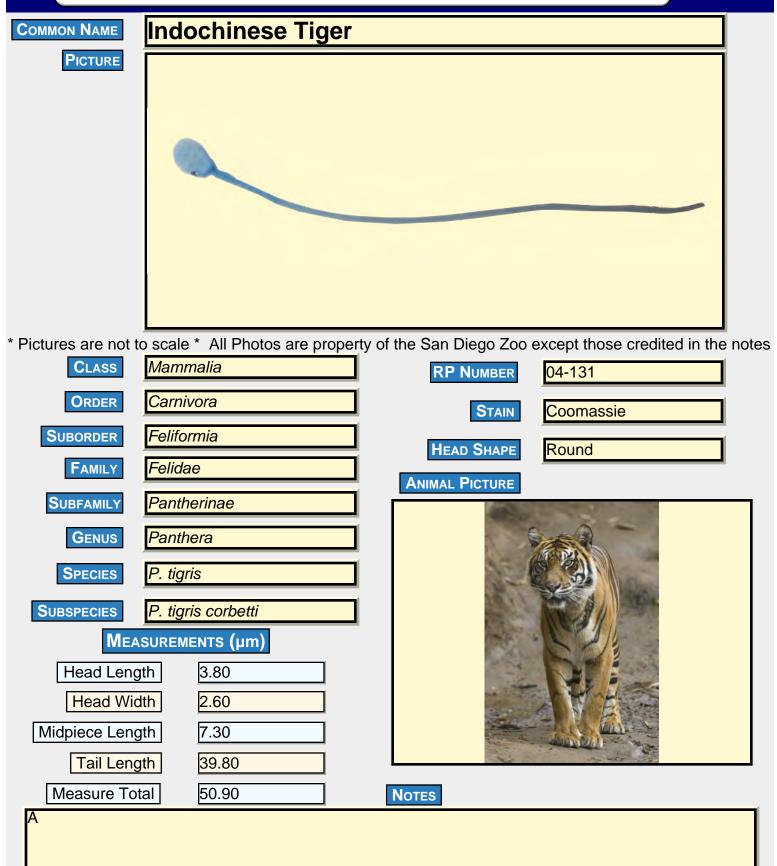
ANIMAL PICTURE



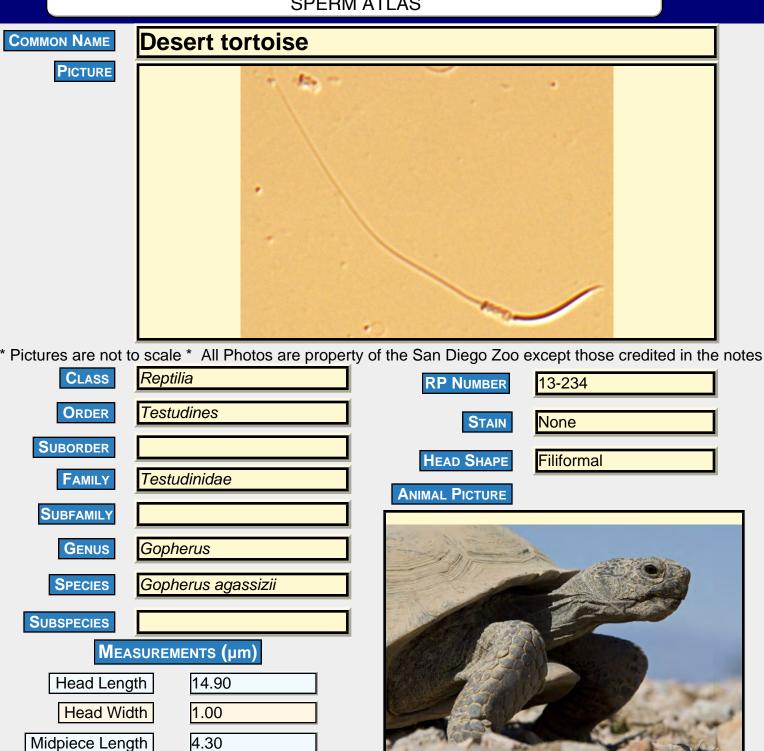
Notes

COMMON NAME	Argentine Black and White Tegu
PICTURE	
* Pictures are not	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Reptilia RP Number 13-076
ORDER	Squamata Pope
SUBORDER	Lacertilia
FAMILY	Teiidae Filiformal
SUBFAMILY	ANIMAL PICTURE
GENUS	Tupinambis
	Tupinambis merianae
SPECIES	Tupinamois menanae
SUBSPECIES	
	ASUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	
Tail Leng Measure To	
A P C	C M S A F
	L M G

COMMON NAME	Burmese Thamin		
PICTURE			
			-
* Pictures are not to	scale * All Photos are proper	ty of the San Diego Zoo	except those credited in the not
CLASS	Mammalia	RP Number	12-106
ORDER	Artiodactyla	STAIN	Giemsa
SUBORDER			
FAMILY	Cervidae	HEAD SHAPE	Paddle
SUBFAMILY	Cervinae	ANIMAL PICTURE	
GENUS	cervus		
SPECIES	Rucervus eldii thamin		
SUBSPECIES			
	SUREMENTS (µm)		3 3 44 1
Head Lengt			
Head Wid			
Midpiece Leng	th 14.10		
Tail Leng	th 44.80		
Measure Total		Notes	
С			



COMMON NAME	Southern Rocky Mo	ountain Boreal	Toad	
PICTURE				
	o scale * All Photos are propert	ty of the San Diego Zoo	except those credited in the r	notes
CLASS	Amphibia	RP Number	14-155	
ORDER	Anura	STAIN	None	
SUBORDER		HEAD SHAPE	Filiformal	
FAMILY	Bufonidae	ANIMAL PICTURE		
SUBFAMILY		ANIMAL FIOTORE		
GENUS	Bufo			
SPECIES	Anaxyrus boreas			
SUBSPECIES	Anaxyrus boreas boreas			
	SUREMENTS (µm)			1
Head Leng				
Head Wid			OF ST	
Midpiece Leng	gth	part la		
Tail Leng	gth 12.00			
Measure To	tal	Notes		
S S A CO A	N C N A	A S R	F NASRF	



Notes

Tail Length

Measure Total

44.70

63.90

	SPERM	IATLAS		
COMMON NAME	West African Mud	Furtle		
PICTURE				\neg
			-	
				The same
	Vandania.	- 2	OUT TO SHARE	
				100
			6 200	
* Pictures are not t	to scale * All Photos are propert	y of the San Diego Zoo	except those credited	in the note
CLASS	Reptilia	RP Number	16-127	
ORDER	Testudines	STAIN	Pope	
SUBORDER	Pleurodira	HEAD SHAPE	Filiformal	<u> </u>
FAMILY	Pelomedusidae	ANIMAL PICTURE	<u>, </u>	_
SUBFAMILY		20 NO SA 96		
GENUS	Pelusios	- No		
SPECIES	Pelusios castaneus			100 / 1
SUBSPECIES				St.
	ASUREMENTS (µm)			
Head Leng		7-1		
Head Wid	dth 0.90		30000	100

Notes

Midpiece Length

Measure Total

Tail Length

5.60

41.70

63.30

	SPERIVI A	TILAS	
COMMON NAME	Transcaspian Urial		
PICTURE			
* Pictures are not t	o scale * All Photos are property of	of the San Diego Zoo	except those credited in the note
CLASS	<u>Mammalia</u>	RP Number	14-277
ORDER	<u>Artiodactyla</u>	STAIN	Giemsa
SUBORDER	Ruminantia	HEAD SHAPE	Oval
FAMILY	Bovidae	ANIMAL PICTURE	<u> </u>
SUBFAMILY	Caprinae		1900 7 7 860
GENUS	Ovis	253	
SPECIES	Ovis aries		
SUBSPECIES	Ovis aris arkal	JE	
MEA	SUREMENTS (µm)		
Head Leng	7.20	100	
Head Wid	4.00	1000	
Midpiece Leng	gth 12.10	and the same of th	11872

Notes

Tail Length

Measure Total

41.10

60.40

PICTURE			
		/ :	P
			- NO
		ty of the San Diego Zoo	except those credited in the I
<u>CLASS</u> <u>Mamma</u>		RP Number	91-357
ORDER Diprotoc	dontia	STAIN	Coomassie and Pap
Suborder Macropo	odiformes	HEAD SHAPE	Oval
FAMILY Macropo	odidae	ANIMAL PICTURE	
SUBFAMILY Macropo	odinae		
GENUS Macropu	us		
Species Macropo	us parma		
SUBSPECIES			
MEASUREMEN	νт s (μm)		
Head Length	7.80		Silver N. F.
Head Width	2.00		
Midpiece Length	12.40		The state of the s
Tail Length	90.60	200	
Measure Total	110.80	Notes	

COMMON NAME	Southern Yellow-	footed Rock Wallaby
PICTURE		
		Int. of
* Dietures are not	to coole * All Dhotos are prop	arty of the San Diago Zoo event those gradited in the not
CLASS	Mammalia	erty of the San Diego Zoo except those credited in the not
ORDER	Diprotodontia	STAIN Coomassie
SUBORDER	Macropodidae	HEAD SHAPE Oval ANIMAL PICTURE
SUBFAMILY		ANIWAL FICTURE
GENUS	<u>Petrogale</u>	
SPECIES	Petrogale xanthopus	
SUBSPECIES		
Head Leng	asurements (µm)	
Head Wid		
Midpiece Len		
Tail Len	gth 85.90	
Measure To	tal 104.00	Notes

COMMON NAME

Bactrian Wapiti

PICTURE



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

CLASS Mammalia

ORDER Artiodactyla

Suborder Ruminantia

FAMILY Cervidae

Subfamily Cervinae

GENUS

SPECIES C. elaphus

Subspecies C. elaphus bactrianus

MEASUREMENTS (µm)

Head Length 7.50

Head Width 4.00

Midpiece Length 10.50

Tail Length 38.90

Measure Total 56.90

RP Number

07-208

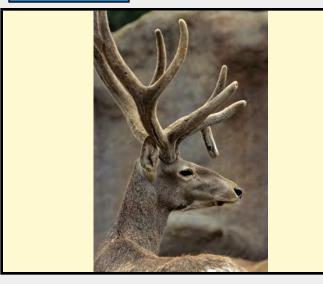
STAIN

Giemsa

HEAD SHAPE

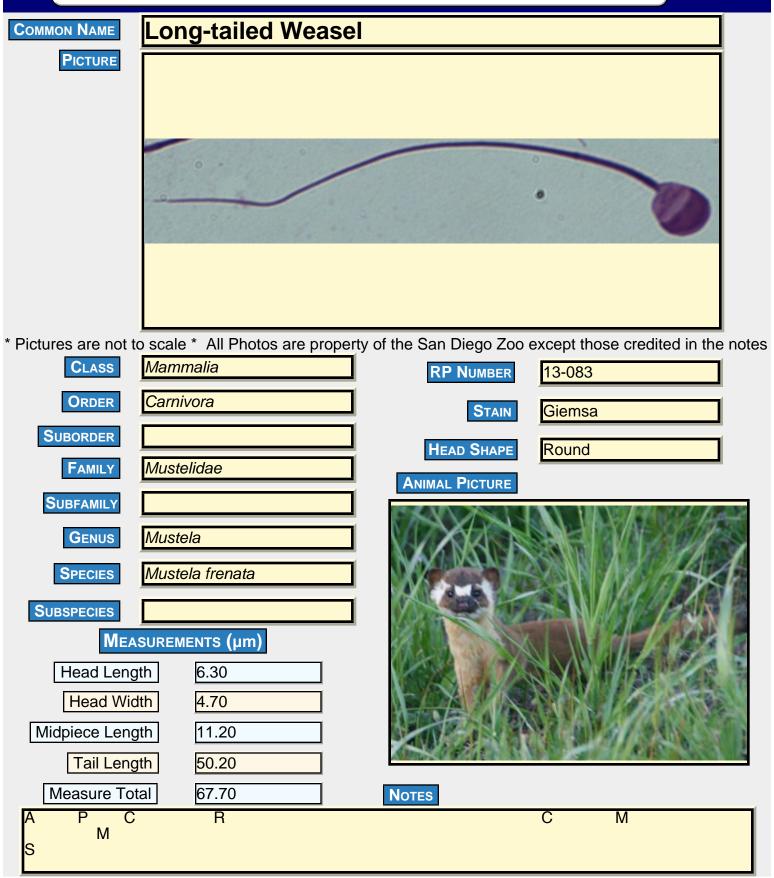
Paddle

ANIMAL PICTURE



Notes

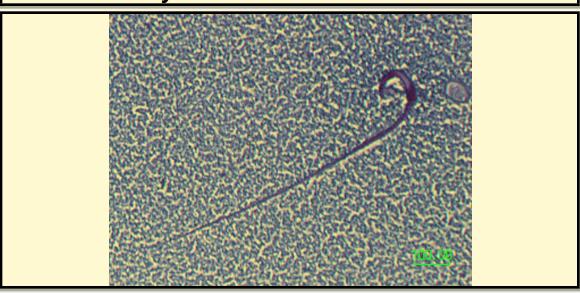
COMMON NAME	Lake	e Victoria De	fassa W	aterbuck		
PICTURE						
* Pictures are not to	scale	* All Photos are pro	perty of the	San Diego Zoo	except those credited in th	ne note:
CLASS	Mamm	nalia		RP Number	16-098]
ORDER	Artioda	actyla		STAIN	Coomassie	1
SUBORDER				HEAD SHAPE	Oval	- 1
FAMILY	Bovida	ne		IMAL PICTURE	<u> </u>	-
SUBFAMILY				IWAL I IOTOKL		
GENUS	Kobus			0 0		10
SPECIES	Kobus	ellipsiprymnus		2		
Subspecies					Autor Control	
	SUREME	ENTS (µm)				· · · · · · · · · · · · · · · · · · ·
Head Leng	_	6.90				
Head Wid		4.50				
Midpiece Leng	th	10.80				
Tail Leng	th	40.60				
Measure Tot	al	58.30	Note	ES		



COMMON NAME

Southern Hairy-Nosed Wombat

PICTURE



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

CLASS Mammalia

Diprotodontia

SUBORDER

Family Vombatidae

SUBFAMILY

GENUS Lasiorhinus

Species Lasiorhinus latifrons

SUBSPECIES

ORDER

MEASUREMENTS (µm)

Head Length 10.30

Head Width 3.00

Midpiece Length 15.30

Tail Length 51.60

Measure Total 77.20

RP NUMBER

15-114

STAIN

Pope

HEAD SHAPE

Sickle

ANIMAL PICTURE

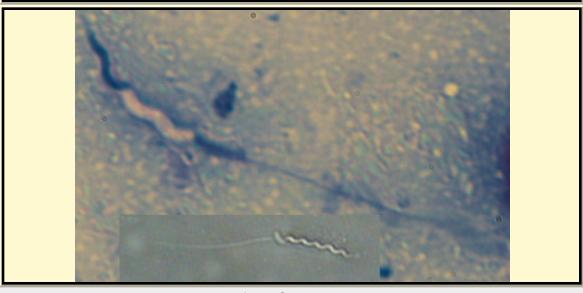


Notes

COMMON NAME

White Breasted Woodswallow

PICTURE



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CLASS Aves

RP NUMBER 15-071

ORDER **Passeriformes**

Pope and No stain STAIN

SUBORDER

HEAD SHAPE

Helical

FAMILY Artamidae

SUBFAMILY

GENUS Artamus

SPECIES Artamus leucorynchus **ANIMAL PICTURE**

MEASUREMENTS (µm)

SUBSPECIES

Head Length 10.70

Head Width 0.80

Midpiece Length 2.00

> Tail Length 49.80

Measure Total 62.50



Notes

COMMON NAME	Andean Cock of the Rock
PICTURE	
	scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Aves RP Number 15-137
ORDER	Passeriformes Pope and No stain
SUBORDER	HEAD SHAPE Helical
FAMILY	Cotingidae Animal Picture
SUBFAMILY	ANIWAL FICTORE
GENUS	Rupicola
	Rupicola peruvianus
Subspecies Meas	SUREMENTS (µm)
Head Lengt	
Head Widt	
Midpiece Lengt	th 5.00
Tail Lengt	th 26.00
Measure Tota	

COMMON NAME	Eastern Giant Eland	
PICTURE		
* Pictures are not t	o scale * All Photos are property o	of the San Diego Zoo except those credited in the no
CLASS	Mammalia	RP Number 17-120
ORDER	<u>Artiodactyla</u>	STAIN Coomassie
SUBORDER		HEAD SHAPE Paddle
FAMILY	Bovidae	ANIMAL PICTURE
SUBFAMILY		100 (200) - 400
GENUS	Taurotragus	
SPECIES	Taurotragus derbianus gigas	
SUBSPECIES		
MEA	SUREMENTS (µm)	
Head Leng		
Head Wid		
Midpiece Leng		
Tail Leng		
Measure To	69.90	Notes

COMMON NAME

Turkomen Markhor

PICTURE



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

CLASS Mammalia

ORDER Artiodactyla

Suborder Ruminantia

Family Bovidae

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

RP Number

04-026

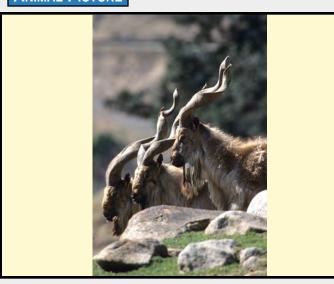
STAIN

Pope

HEAD SHAPE

Oval

ANIMAL PICTURE



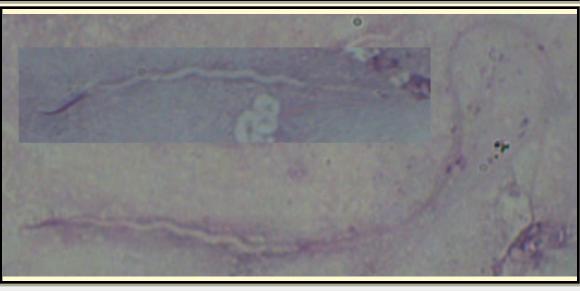
Notes

COMMON NAME	Mexican Beaded Lizard
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	RP Number 17-123
ORDER	Stain Pope Pope
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Helodermatidae ANIMAL PICTURE
SUBFAMILY	THIMAL PROTOKE
GENUS	Heloderma
SPECIES	Heloderma horridum
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 10.00
Head Wid	dth 1.75
Midpiece Leng	gth 4.00
Tail Leng	gth 53.00
Measure To	
A P C	P N

COMMON NAME

Grey Smooth-hound (Shark)

PICTURE



THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME	NAME AND ADDRESS OF THE PARTY O
* Pictures are not to scale * All Photos are property	of the San Diego Zoo except those credited in the notes
<u>Chondrichthyes</u>	RP Number
ORDER Carcharhiniformes	STAIN Pap
SUBORDER	HEAD SHAPE Helical
Triakidae	ANIMAL PICTURE
SUBFAMILY	ANIMAL I IOTOKE
GENUS Mustelus	
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
S A S A P C	
le le	P

COMMON NAME	Pilchard (Sardine)
PICTURE	
* Pictures are not t	o scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Actinopterygii RP Number
ORDER	Clupeiformes Pinacyanol Chloride
SUBORDER	
FAMILY	Clupeidae Round
SUBFAMILY	ANIMAL PICTURE
GENUS	Sardinops
SPECIES	Sardinops sagax
SUBSPECIES MEA	SUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng	gth
Tail Leng	9th 42.00
Measure To	tal Notes
S A P S	A S

COMMON NAME	African Bush Elephant
PICTURE	
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Mammalia RP Number 06-170
ORDER	Proboscidea Coomassie
SUBORDER	Thethytheria
FAMILY	Elephantidae ANIMAL PICTURE
SUBFAMILY	Elephantinae Elephantinae
GENUS	Loxodonta
SPECIES	L. africana
SUBSPECIES	L. africana africana
	SUREMENTS (µm)
Head Leng	7.00
Head Wid	3.25
Midpiece Leng	13.50
Tail Leng	
Measure Tot	tal 60.50 Notes

COMMON NAME	Superb Bird of Paradise
PICTURE	
* Pictures are not	to scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Aves RP Number 18-063
ORDER	Passeriformes Pope
SUBORDER	
FAMILY	Paradisaeidae Head Shape Helical
SUBFAMILY	ANIMAL PICTURE
	U an having
GENUS	<u>Lophorina</u>
SPECIES	Lophorina superba
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth 11.00
Head Wid	dth 1.00
Midpiece Leng	gth 3.00
Tail Leng	gth 34.00
Measure To	Notes Notes

COMMON NAME	Canary
PICTURE	
* Pictures are not t	scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Aves RP Number 18-062
ORDER	Passeriformes Stain Pope
SUBORDER	HEAD SHAPE Helical
FAMILY	Fringillidae
SUBFAMILY	ANIMAL PICTURE
GENUS	<u>Serinus</u>
SPECIES	Serinus canaria
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	th 14.00
Head Wid	
Midpiece Leng	th 4.00
Tail Leng	
Measure To	
A P C	C C

COMMON NAME	Arctic Fox
PICTURE	
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the notes
CLASS	Mammalia RP Number 16-137
ORDER	Carnivora Coomassie
SUBORDER	HEAD SHAPE Oval
FAMILY	Canidae Animal Picture
SUBFAMILY	ANIMALTIOTORE
GENUS	Vulpes
SPECIES	Vulpes lagophus
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	th 6.00
Head Wid	3.70
Midpiece Leng	th
Tail Leng	th 52.00
Measure Tot	al 58.00 Notes
T	

Western Grey Kangaroo COMMON NAME **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** 18-022 ORDER Diprotodontia STAIN Coomassie SUBORDER HEAD SHAPE Oval Macropodidae FAMILY ANIMAL PICTURE SUBFAMILY GENUS Macropus SPECIES Macropus fulginosus SUBSPECIES MEASUREMENTS (µm) Head Length 7.00 Head Width 2.00 Midpiece Length 10.50 Tail Length 94.00 Measure Total

Notes

111.50

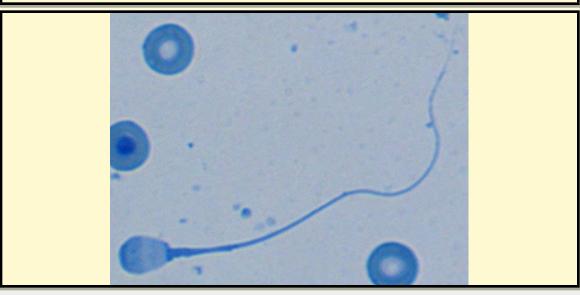
COMMON NAME	Blue Tree Monitor
PICTURE	
* Pictures are not to	o scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Reptilia 18-059
ORDER	Squamata Pope
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Varanidae ANIMAL PICTURE
SUBFAMILY	ATTIMAL FIOTORE
GENUS	<u>Varanus</u>
SPECIES	Varanus macraei
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	13.00 13.00
Head Wic	1.25
Midpiece Leng	9th 8.00
Tail Leng	yth 48.00
Measure Tot	MOTES NOTES

	SPERIV	TATLAS	
COMMON NAME	Virginia Opposum		
PICTURE			
* Pictures are not	to scale * All Photos are propert	y of the San Diego Zoo	except those credited in the note
CLASS	Mammalia	RP Number	18-123
ORDER	<u>Didelphimorphia</u>	STAIN	None
SUBORDER		HEAD SHAPE	Oval
FAMILY	Didelphidae	ANIMAL PICTURE	
SUBFAMILY			
GENUS	Didelphis		
SPECIES	Didelphis virginiana		
SUBSPECIES			
MEA	ASUREMENTS (µm)		
Head Leng	gth		
Head Wi	dth		
Midpiece Len			
Tail Len	gth		
Measure To	tal	Notes	

COMMON NAME

Asian Small-clawed Otter

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 18-048

ORDER

Carnivora

STAIN Coomassie

Oval

SUBORDER

HEAD SHAPE

ANIMAL PICTURE

FAMILY

Mustelidae

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

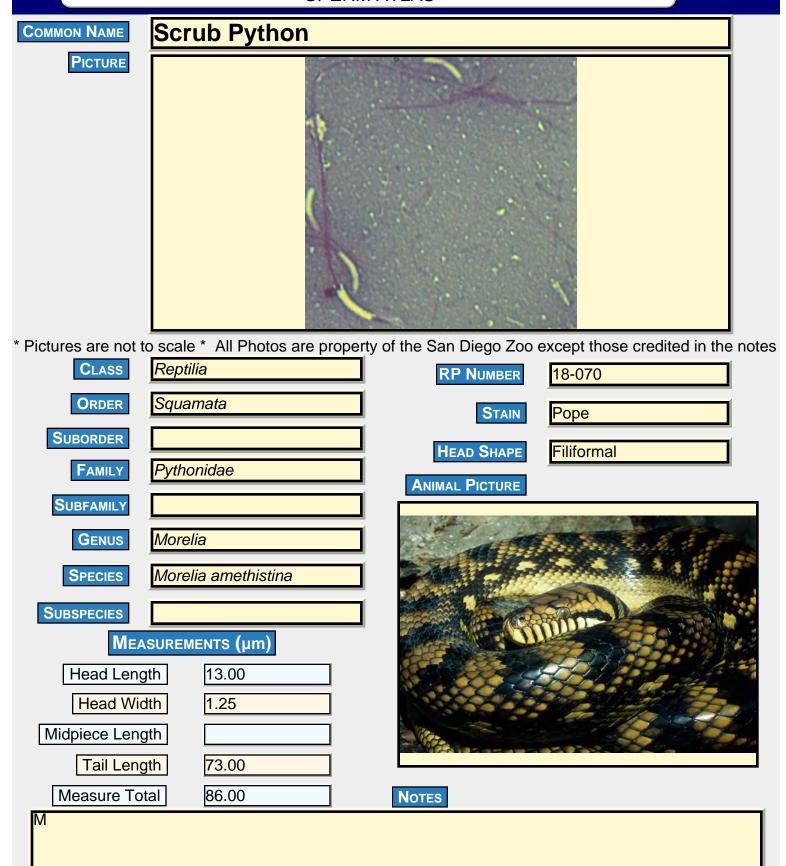
51.00



Notes

N

N



COMMON NAME

Southern Ratel

PICTURE



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CLASS Mammalia

ORDER Carnivora

SUBORDER

FAMILY Mustelidae

SUBFAMILY

GENUS Mellivora

SPECIES Mellivora capensis capensis

MEASUREMENTS (μm)

SUBSPECIES

Head Length 7.00

Head Width 7.00

Midpiece Length 11.00

Tail Length 55.00

Measure Total 73.00

RP Number 18-033

Stain Coomassie Coomassie

HEAD SHAPE Round

ANIMAL PICTURE



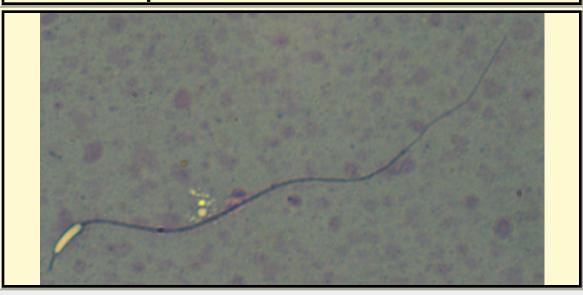
COMMON NAME	Raven	
PICTURE		
* Pictures are not to	scale * All Photos are property of the	ne San Diego Zoo except those credited in the not
	Aves	RP Number
ORDER	Passeriformes	STAIN Pope
SUBORDER		
FAMILY	Corivdae	HEAD SHAPE Helical
SUBFAMILY		Animal Picture
GENUS	Corvus	STOREST SANT WATER AND
SPECIES	Corvus corax	
SUBSPECIES		The same and the
	UREMENTS (µm)	
Head Length	7.4	
Head Width	1.00	
Midpiece Length	3.00	A CONTRACTOR OF THE PARTY OF TH
Tail Length	34.00	
Measure Total	54.00 No	OTES

COMMON NAME	Leopard Shark		
PICTURE			
	o scale * All Photos are property of th	ne San Diego Zoo	except those credited in the note
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		*	Constitution
	SUREMENTS (µm)		0
Head Leng			W. Co
Head Wid			0 0
Midpiece Leng			
Tail Leng			
Measure Tot	ται Να	OTES	

COMMON NAME

Oriental Whip Snake

PICTURE



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

CLASS Reptilia

ORDER Squamata

Suborder Serpentes

FAMILY Colubridae

SUBFAMILY

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

RP NUMBER

18-125

STAIN

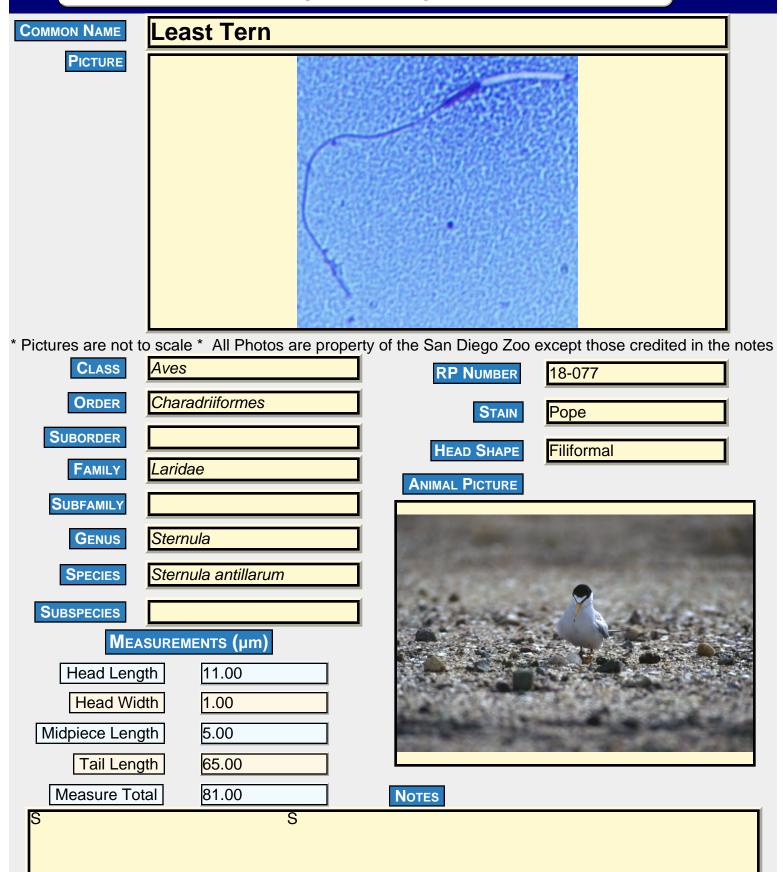
Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE





COMMON NAME

Woma

PICTURE



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

CLASS Reptilia

ORDER Squamata

Suborder Serpentes

FAMILY Pythonidae

SUBFAMILY

GENUS Aspidites

Species Aspidites ramsayi

SUBSPECIES

MEASUREMENTS (µm)

Head Length 13.00

Head Width 1.00

Midpiece Length 33.00

Tail Length 40.00

Measure Total 86.00

RP Number

18-125

STAIN

Pope

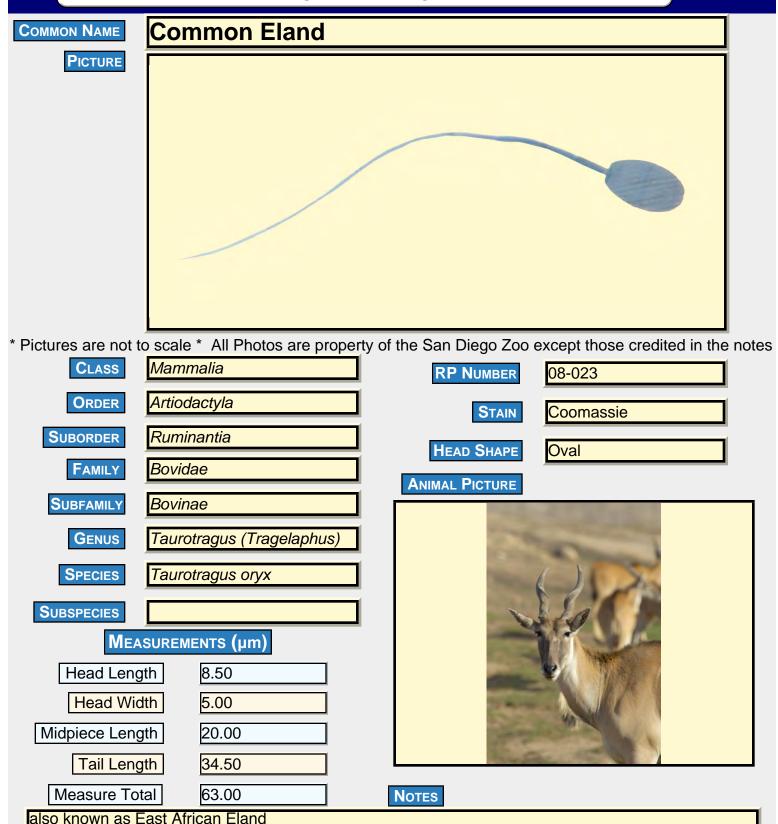
HEAD SHAPE

Filiformal

ANIMAL PICTURE



COMMON NAME	Woylie	
PICTURE		
* Pictures are not t		n Diego Zoo except those credited in the note
ORDER	<u>Diprotodontia</u>	STAIN Pope
SUBORDER		IEAD SHAPE Oval
FAMILY	Potoroidae	AL PICTURE
SUBFAMILY		
GENUS	Bettongia	
SPECIES	Bettongia ogilbyi	
SUBSPECIES	ASUREMENTS (µm)	
Head Leng		
Head Wid		
Midpiece Leng	gth 22.00	
Tail Leng	gth 150.00	
Measure To	otal 181.00 Notes	

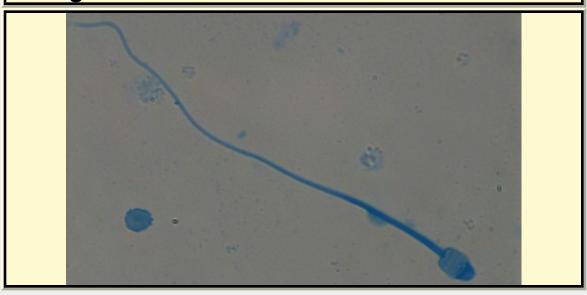


COMMON NAME	Kaiser Newt
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Amphibia RP Number 17-105
ORDER	Caudata None
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Salamandridae ANIMAL PICTURE
SUBFAMILY	ANIMALTICIONE
GENUS	Neurergus
SPECIES	Neurergus kaiseri
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Leng	gth
Head Wid	dth
Midpiece Leng	gth
Tail Leng	gth
Measure Tot	
note the wavy m	nembrane that runs along the tail

COMMON NAME

Rodrigues Fruit Bat

PICTURE



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

CLASS Mammalia

ORDER Chiroptera

SUBORDER

FAMILY Pteropodidae

SUBFAMILY

GENUS Pteropus

Species Pteropus rodricensis

SUBSPECIES

MEASUREMENTS (µm)

Head Length 7.00

Head Width 4.00

Midpiece Length 20.00

Tail Length 62.00

Measure Total 89.00

RP Number

18-185

STAIN

Coomassie

HEAD SHAPE

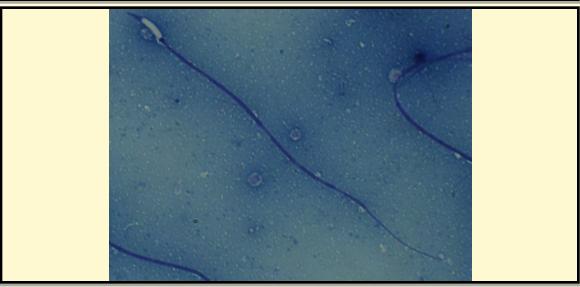
Oval

ANIMAL PICTURE



COMMON NAME	Domestic Chicken
PICTURE	
* Pictures are not to	scale * All Photos are property of the San Diego Zoo except those credited in the no
CLASS	Aves RP Number
ORDER	Galiformes Pope
SUBORDER	
FAMILY	Phasianidae Filiformal
SUBFAMILY	ANIMAL PICTURE
	Collug
GENUS	Gallus
SPECIES	Gallus gallus
SUBSPECIES	Gallus gallus domesticus
MEA	SUREMENTS (µm)
Head Leng	th 22.00
Head Wid	th 1.50
Midpiece Leng	th 6.00
Tail Leng	th 69.00
Measure Tot	al 97.00 Notes

Sri Lankan Spetacled Cobra PICTURE



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

CLASS Reptilia

ORDER Squamata

SUBORDER

FAMILY Elapidae

SUBFAMILY

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

RP NUMBER

19-007

STAIN

Pope

HEAD SHAPE

Filiformal

ANIMAL PICTURE



COMMON NAME	New Guinea Singin	g Dog
PICTURE		
* Pictures are not t	o scale * All Photos are propert	ry of the San Diego Zoo except those credited in the note
CLASS	Mammalia	RP NUMBER 18-166
ORDER	Carnivora	STAIN Pope
SUBORDER		
FAMILY	Canidae	HEAD SHAPE Oval ANIMAL PICTURE
SUBFAMILY		ANIWAL PICTURE
GENUS	Canis	
SPECIES	Canis hallstromi	
SUBSPECIES		
MEA	SUREMENTS (µm)	
Head Leng	6.00	
Head Wid	4.00	The second secon
Midpiece Leng	ıth	
Tail Leng	50.00	
Measure Tot	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.

	SPER	RM ATLAS	
COMMON NAME	Panamanian Gold	len Frog	
PICTURE			
* Pictures are not to	scale * All Photos are prope	erty of the San Diego Zoo	except those credited in the note
CLASS	Amphibia	RP Number	19-037
ORDER	Anura	STAIN	Pope
SUBORDER		HEAD SHAPE	Filiformal
FAMILY	Bufonidae	ANIMAL PICTURE	<u> </u>
SUBFAMILY		ANIMALTICIONE	
GENUS	Atelopus		THE RESERVE
SPECIES	Atelopus zeteki		
Subspecies			
	SUREMENTS (µm)	327	
Head Leng			-1
Head Wid	1.25		25
Midpiece Leng	3.00		
Tail Leng	th 37.00		

Notes

Measure Total

67.00

Allen's Hummingbird COMMON NAME **PICTURE** Pictures are not to scale * All Photos are property of the San Diego Zoo except those credited in the notes CLASS **Aves RP N**UMBER 19-020 **Apodiformes** ORDER STAIN Pope SUBORDER HEAD SHAPE Filiformal FAMILY Trochilidae ANIMAL PICTURE SUBFAMILY GENUS Selasphorus 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

COMMON NAME	Chinese Giant Salamander
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the not
CLASS	Amphibia RP Number 18-183
ORDER	<u>Urodela</u> <u>None</u>
SUBORDER	HEAD SHAPE Filiformal
FAMILY	Cryptobranchidae Animal Picture
SUBFAMILY	
GENUS	Andrias
SPECIES	Andrias davidlanus
SUBSPECIES	
	SUREMENTS (µm)
Head Leng	
Head Wid	
Midpiece Leng Tail Leng	NEW MENT
Measure Tot	
	nembrane that runs along the tail

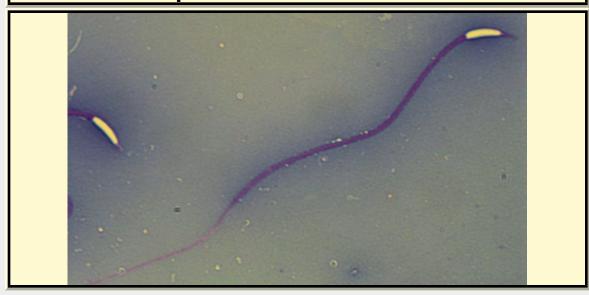
COMMON NAME	Splendid Su	unbird			
PICTURE					
		are property of	fthe San Diego Zoo	except those credi	ted in the notes
CLASS	Aves		RP Number	18-141	
ORDER	<u>Passeriformes</u>		STAIN	Pope	
SUBORDER			HEAD SHAPE	Helical	<u> </u>
FAMILY	Nectariniidae		ANIMAL PICTURE	riencar	
SUBFAMILY			ANIMAL FICTURE		
GENUS	Cinnyris		100		.7
SPECIES	Cinnyris cocciniga	strus	WE	19/1	View .
SUBSPECIES			FLE		12
MEA	SUREMENTS (µm)		The View		
Head Leng	13.50				1. 1.
Head Wid	1.00		1		7h.
Midpiece Leng	gth				
Tail Leng	92.00				
Measure To			Notes		
Midnioco could	not discorned from	tail thorofore tail	moscuroment inclu	doc tail and midnio	00

Common Name	Guyanan Tamandua
PICTURE	
* Pictures are not CLASS	to scale * All Photos are property of the San Diego Zoo except those credited in the notes Mammalia
	THE HOMEEN
ORDER	Pilosa Coomassie
SUBORDER	HEAD SHAPE Oval
FAMILY	Myrmecophagidae Animal Picture
SUBFAMILY	
GENUS	<u>Tamandua</u>
SPECIES	Tamandua tetradactyla
SUBSPECIES	
MEA	ASUREMENTS (µm)
Head Len	gth 10.00
Head Wi	dth 6.00
Midpiece Len	gth
Tail Len	gth 61.00
Measure To	otal 71.00 Notes
Midpiece could	not discerned from tail therefore tail measurement includes tail and midpiece.

COMMON NAME

Red Coachwhip

PICTURE



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

CLASS Reptilia

ORDER Squamata

Suborder Serpentes

FAMILY Colubridae

SUBFAMILY

GENUS Masticophis

Species Masticophis flagellum piceus

SUBSPECIES

MEASUREMENTS (µm)

Head Length 10.00

Head Width 1.50

Midpiece Length 55.00

Tail Length 32.00

Measure Total 97.00

RP Number

18-158

STAIN

Pope

HEAD SHAPE

Filiformal

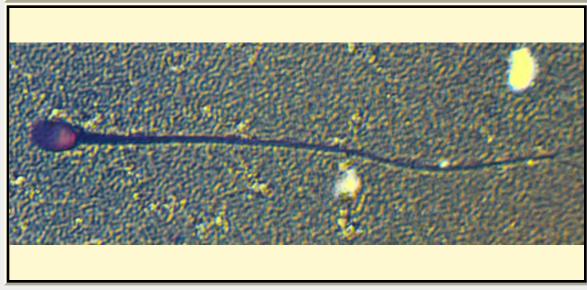
ANIMAL PICTURE



COMMON NAME

Eastern Angolan Colobus

PICTURE



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

CLASS Mammalia

Primates

Suborder Haplorhini

FAMILY Cercopithecidae

SUBFAMILY

Genus

Species Colobus angolensis

SUBSPECIES

ORDER

MEASUREMENTS (µm)

Head Length 6.50

Head Width 4.00

Midpiece Length 13.00

Tail Length 45.00

Measure Total 64.50

RP NUMBER

19-158

STAIN

Pope

HEAD SHAPE

Round

ANIMAL PICTURE



	SPERM	ATLAS	` _
Соммон N	Island Night Lizard		
Pict	TURE		
	re not to scale * All Photos are property	of the San Diego Zoo	
	ASS Reptilia	RP Number	19-087
OR	DER Squamata	STAIN	Pope
Subor		HEAD SHAPE	Filiformal
Far	Xantusiidae	ANIMAL PICTURE	
SUBFA	MILY		
GE	NUS Xantusia		
SPEC	Xantusia riversiana		
SUBSPE	CIES		
	MEASUREMENTS (μm)		
Hea	d Length		
	ad Width		May 1 1
	e Length	李子子。	
	ure Total	Notes	
Livieas	ure rotari i l	NOTES	

midpiece is abnormally bent due to processing

COMMON NAME	Spin	y-headed	Tree L	izard		
PICTURE						
* Pictures are not to	o scale *	All Photos are	property o	f the San Diego Zoo	o except those credited in the	notes
CLASS	<u>Reptilia</u>			RP Number	19-047	
ORDER	Squam	ata		STAIN	Pope	
SUBORDER	<u>Iguanid</u>	ae		HEAD SHAPE	Filiformal	
FAMILY	Tropidu	ıridae		ANIMAL PICTURE	ı illiottidi	
SUBFAMILY				ANIMAL FICTURE		
GENUS	Plica					
SPECIES	Plica pl	ica		200		
SUBSPECIES				MANN		
		NTS (µm)	_			7
Head Leng		17.00				
Head Wid		1.25	_		3	
Midpiece Leng		3.00				
Tail Leng	<u>jth</u>	57.00				
Measure Tot	tal	77.00		Notes		

COMMON NAME	Butterfly Ray
PICTURE	
	to scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Chondrichthyes RP Number
ORDER	Myliobatiformes Stain None
SUBORDER	
FAMILY	Gymnuridae Filiformal
	ANIMAL PICTURE
SUBFAMILY	
GENUS	Gymnura
SPECIES	Gymnura
SUBSPECIES	
	ASUREMENTS (µm)
Head Leng	A STATE OF THE PARTY OF THE PAR
Head Wid	
Midpiece Leng	
Tail Lenç	
Measure To	
Animal Photo: T Sperm sample to Butterfly ray spe sperm tail lengt	romas Willems from: Birch Aquarium at Scripps erm heads were measured in a range of 25-33um the was hard to measure fully

COMMON NAME	Pacific Pond	l Turtle		
PICTURE				
		are property of	the San Diego Zoo	except those credited in the r
CLASS	Reptilia		RP Number	
ORDER	<u>Testudines</u>		STAIN	Pap
SUBORDER			HEAD SHAPE	Filiformal
FAMILY	<u>Emydidae</u>			i illioimai
SUBFAMILY			ANIMAL PICTURE	
GENUS	<u>Actinemys</u>		4	
SPECIES	Actinemys marmora	ata		
SUBSPECIES				
	ASUREMENTS (µm)			
Head Leng	gth 15.00			
Head Wid				
Midpiece Leng	gth			
Tail Leng				
Measure To	tal 57.00	— ,	Notes	
Midpiece could Midpiece is ben	not discerned from ta			des tail and midpiece.
Whapicoc is bell	•			

COMMON NAME	Black Duiker
PICTURE	
	o scale * All Photos are property of the San Diego Zoo except those credited in the note
CLASS	Mammalia RP Number 19-033
ORDER	Artiodactyla Coomassie
SUBORDER	HEAD SHAPE Paddle
FAMILY	Bovidae ANIMAL PICTURE
SUBFAMILY	ANIMAE I ISTORE
GENUS	Cephalophus
SPECIES	Cephalophus niger
SUBSPECIES	
MEA	SUREMENTS (µm)
Head Leng	9.00
Head Wid	dth 6.50
Midpiece Leng	gth 13.00
Tail Leng	gth 47.00
Measure To	tal 69.00 Notes

COMMON NAME	Wolf Guenon		
PICTURE			
	T		-0.
* Pictures are not to CLASS	o scale * All Photos are property of the Mammalia	e San Diego Zoo e	except those credited in the note 19-034
ORDER	Primates Primates	STAIN	Coomassie
SUBORDER			
FAMILY	Cercopithecidae	HEAD SHAPE ANIMAL PICTURE	Round
SUBFAMILY		ANIMAL FICTURE	
GENUS	Cercopithecus		
SPECIES	Cercopithecus wolfi		
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng	th 5.00		
Head Wid			
Midpiece Leng			
Tail Leng	_		
Measure Tot	73.00 No	DTES	

COMMON NAME	Mouse		
PICTURE			
	-	rty of the San Diego Zoo except those credited in the no	tes
CLASS	Mammalia	RP Number	
ORDER	Rodentia	STAIN Pope	
SUBORDER		HEAD SHAPE HOOK	
FAMILY	Muridae	ANIMAL PICTURE	
SUBFAMILY	Murinae		1
GENUS	Mus		
SPECIES			
SUBSPECIES			
MEA	SUREMENTS (µm)		
Head Leng	th 9.50		
Head Wid	3.00		
Midpiece Leng	th		
Tail Leng	th 117.00		
Measure Tot	[126.50	Notes	
Animal photo cre	edit: http://www.animalstown.co	om/animals/m/mouse/wallpapers/mouse-wallpaper-04.	7

php Could not distinguish the midpiece from the tail so the tail measurement includes the tail and midpiece