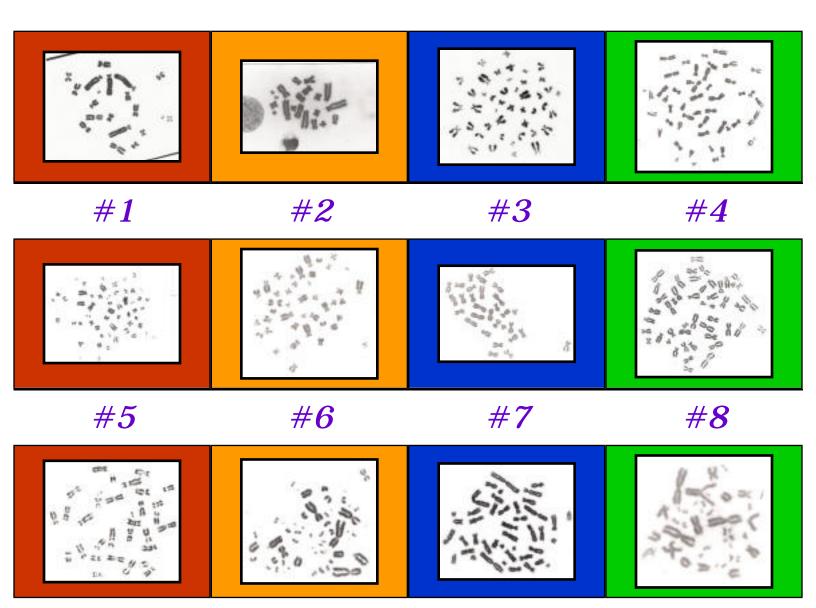
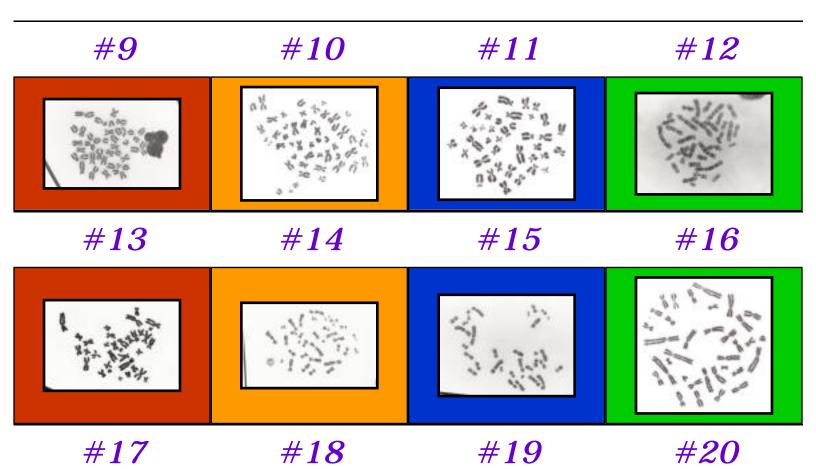
Interspecific Karyotyping:

Mystery at the Zoo!

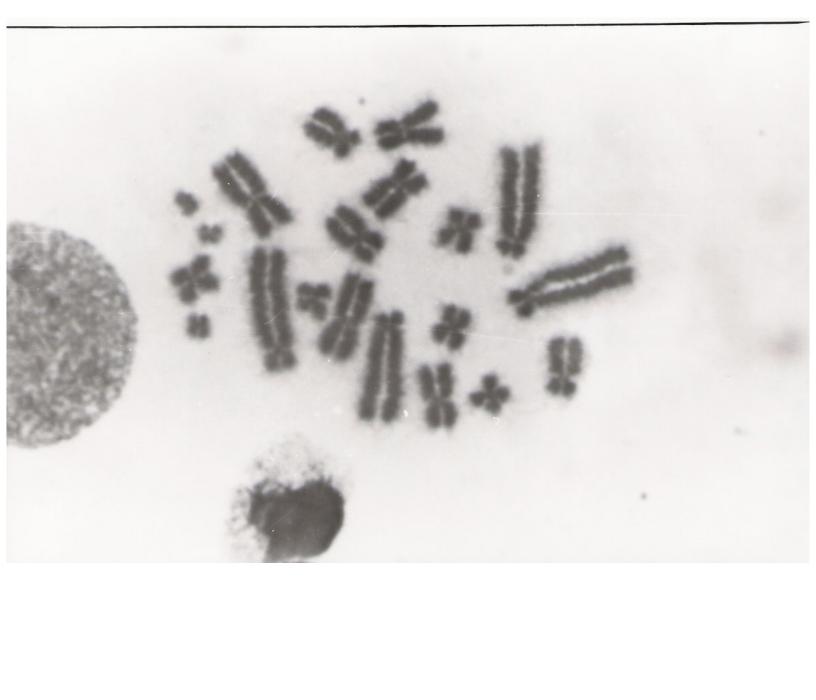
As a research assistant in the zoo genetics lab, it is your job to figure out which species possesses each of the chromosome spreads you see below. You will print out one spread (by number) and cut them out and pair them to decipher to which species they belong. Once you have your spread complete, get it approved by your instructor who will then give you the key to which you can compare your finished karyotype.

Also, some have chromosomes that are laying on top of each other, making cutting difficult. When this happens, you must print 2 copies of the spread so that every chromosome is accounted for. You must only cut out one copy of each chromosome if you print more than one copy of your spread due to chromosome overlap. It helps to count them before you cut them out.













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a Co

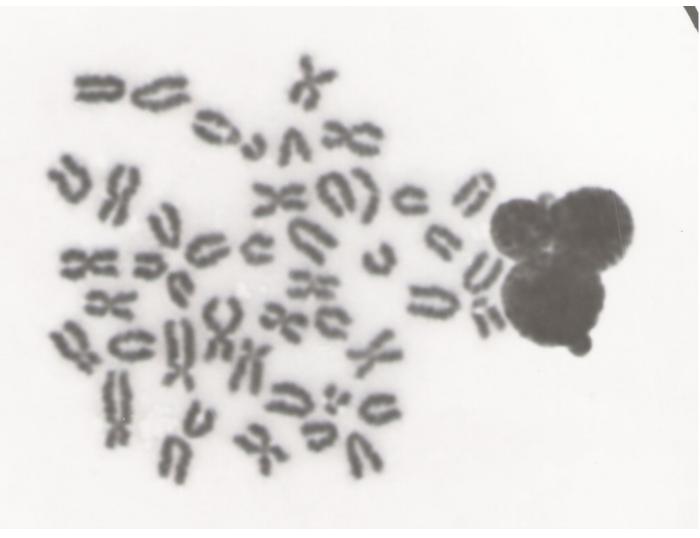
8

100 8 4 oc X

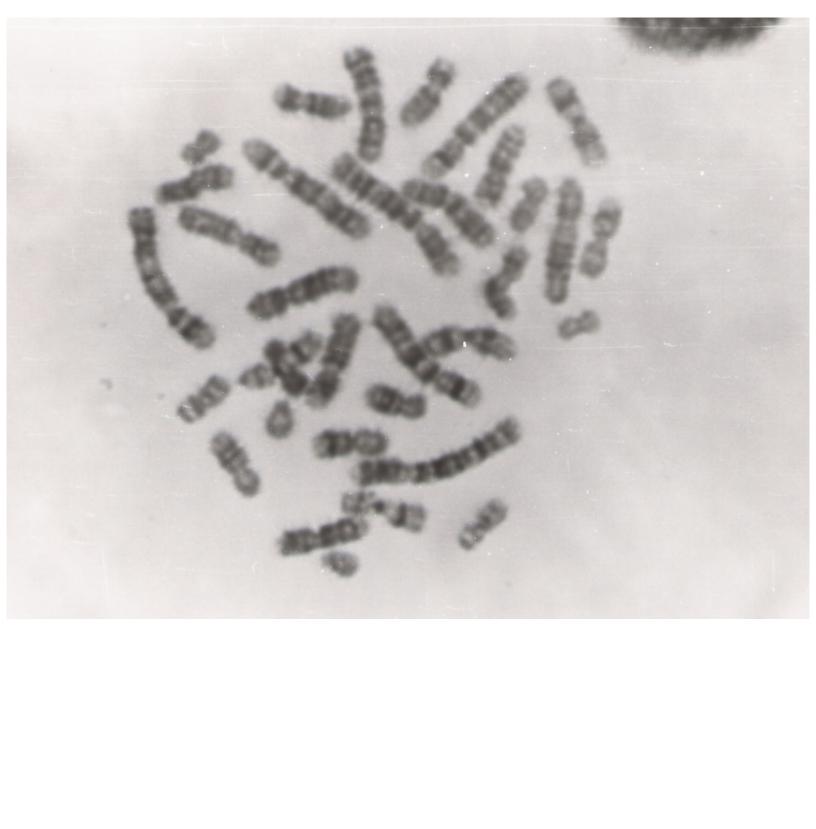












5° 4





Interspecific Karyotyping:

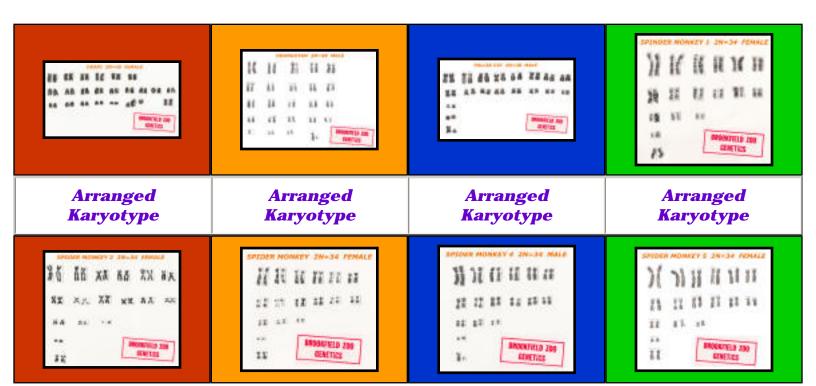
Putting the Pieces Together!

Gender

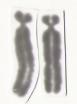
Take the karyotypes you have just gotten approved by your instructor, and compare them to the following completed karyotypes. You may click on any picture below for a larger image. When finished, write the following information along the top of your card:

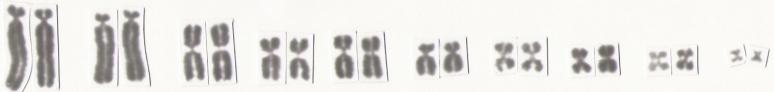
Species name Diploid # (2N)

Arranged	Arranged	Arranged	Arranged
Karyotype	Karyotype	Karyotype	Karyotype
M M M TE TE TE AN TE AN IN THE	AN AN AN AN AN AN AN AN	ES EN EN ES	1) U 11 01 01 01 01 01 11 11 11 11 11 11 11
Arranged	Arranged	Arranged	Arranged
Karyotype	Karyotype	Karyotype	Karyotype
H II AN	ANTILLASSI PALISTIN (IN-10 PRINCIP B.A. A.A. A.D. A.B. E.E. A.B. A.B. A.B. A.B. A.B. A.B. A.B. E.E. A.B. A.B. A.B. A.B. A.B. A.B. A.B. A.B.	TE NO ES ES ES EX AN ES ES EX AN ESTE ES EX AN EST ES ES EX AN EST ES ES EX AN EST ES EST ES EST ES EST ES EST ES EST EST	20
Arranged	Arranged	Arranged	Arranged
Karyotype	Karyotype	Karyotype	Karyotype
26	SE SE SE OR OF AN ALL ALL THE	BE BE SEE SEE IN THE	THE REAL PROPERTY OF THE PARTY
Arranged	Arranged	Arranged	Arranged
Karyotype	Karyotype	Karyotype	Karyotype



AARDVARK 1 2N=20 FEMALE

















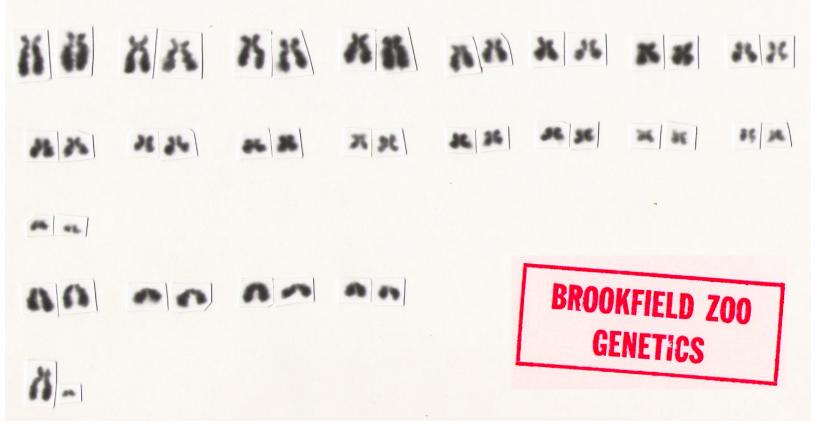




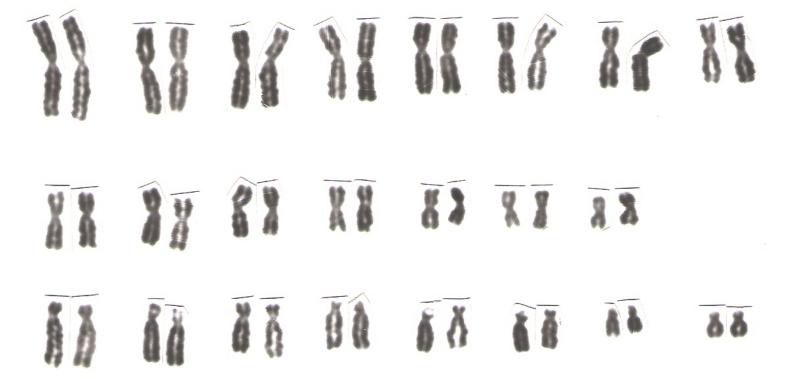
AARDVARK 2 2N=20 MALE



BELUGA 2N=44 MALE

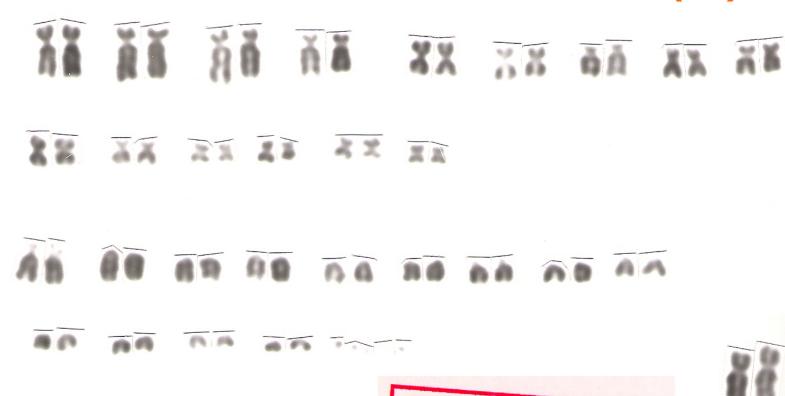


CHIMPANZEE 2N=48 MALE

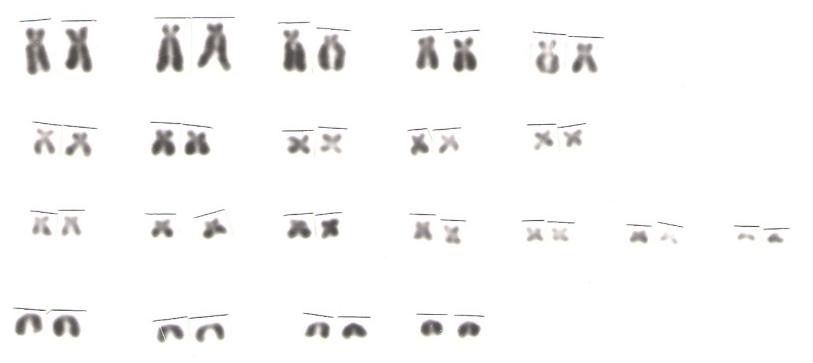


XX

CINEREOUS VULTURE 2N=62 MALE (ZZ)

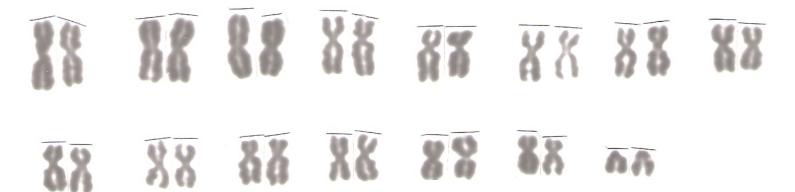


BOTTLENOSE DOLPHIN 2N=30 FEMALE

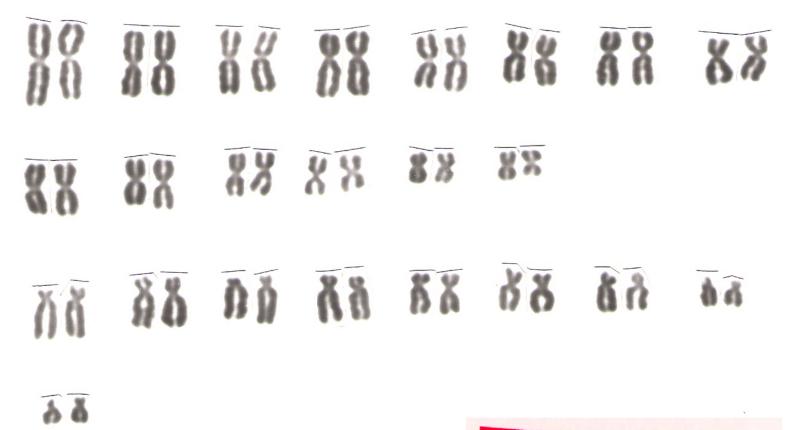


NX

RETICULATED GIRAFFE 2N=30 FEMALE



GORILLA 2N=48 FEMALE



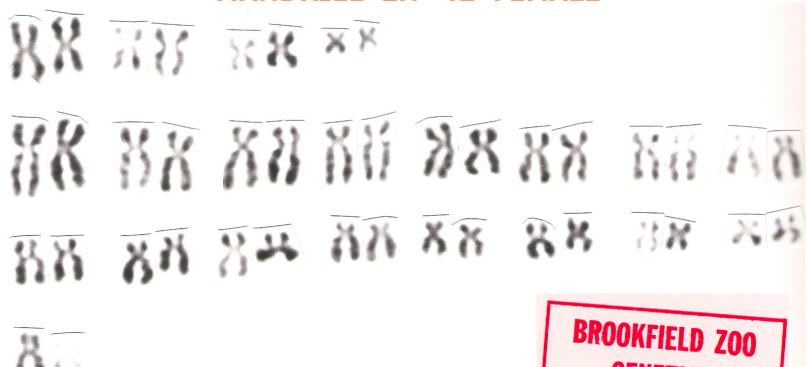
000

KUDU 2N=32 FEMALE



INCA TERN 2N=54 MALE (ZZ)

80 00 00 00 00 00



GENETICS

MONITOR LIZARD 2N=40 MALE (ZZ)



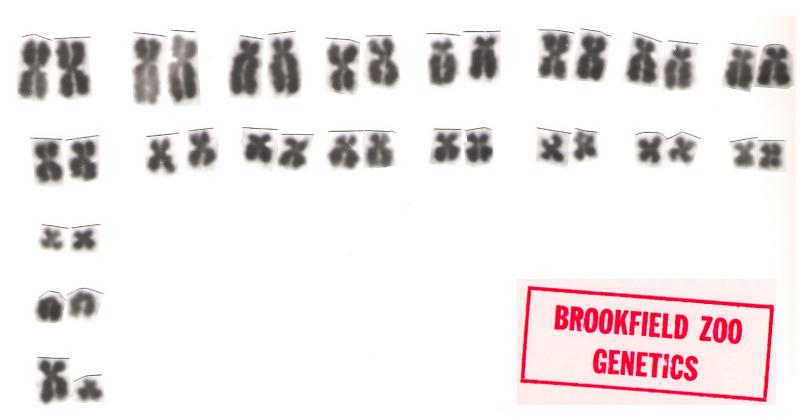
OKAPI 2N=45 FEMALE



ORANGUTAN 2N=48 MALE



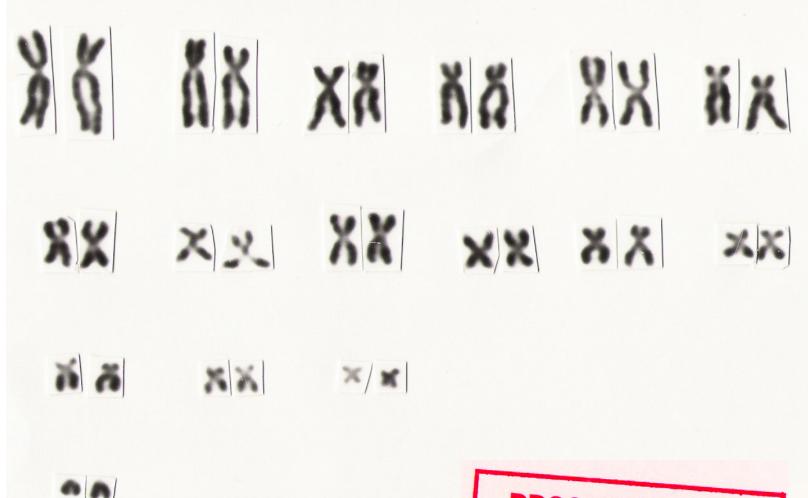
PALLAS CAT 2N=38 MALE



SPIDER MONKEY 1 2N=34 FEMALE



SPIDER MONKEY 2 2N=34 FEMALE



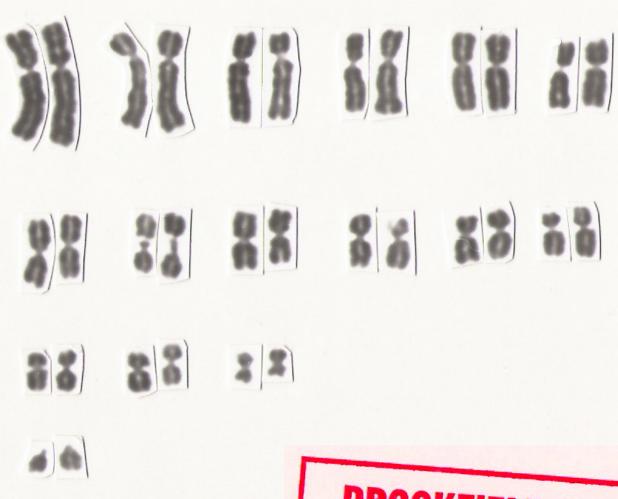
8 4

SPIDER MONKEY 2N=34 FEMALE

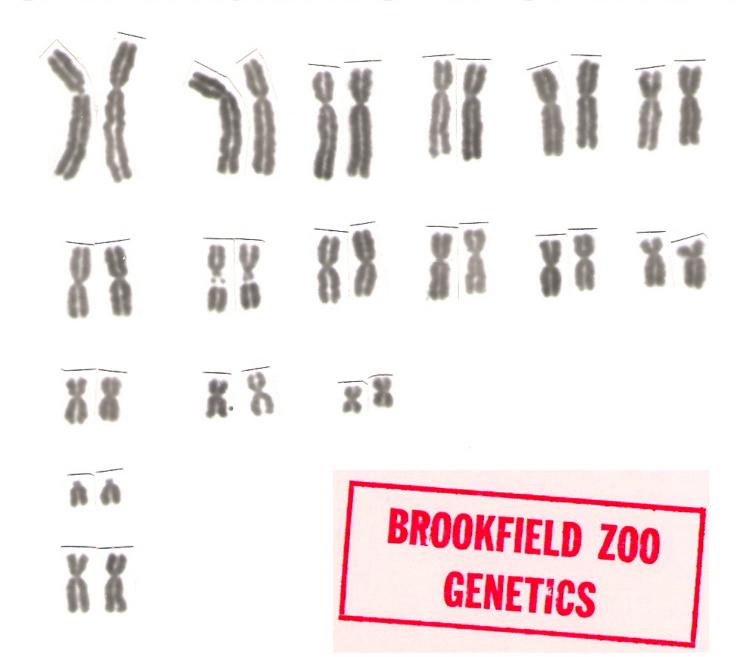


2 %

SPIDER MONKEY 4 2N=34 MALE



SPIDER MONKEY 5 2N=34 FEMALE



Interspecific Karyotyping:

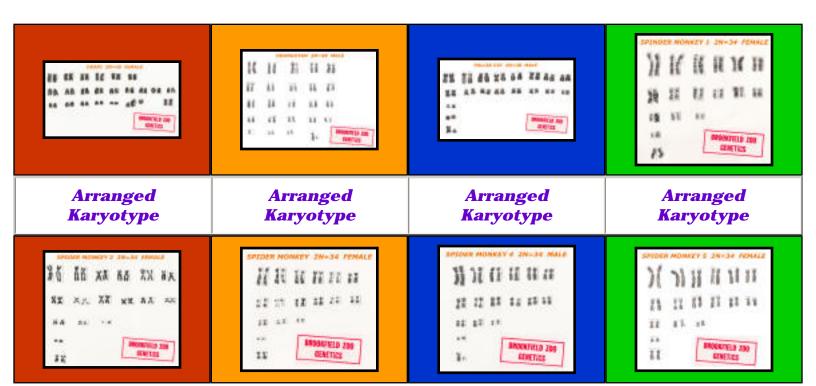
Putting the Pieces Together!

Gender

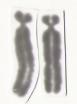
Take the karyotypes you have just gotten approved by your instructor, and compare them to the following completed karyotypes. You may click on any picture below for a larger image. When finished, write the following information along the top of your card:

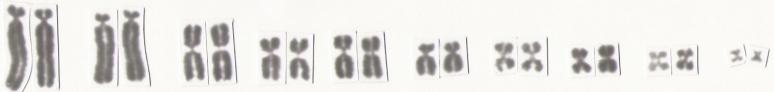
Species name Diploid # (2N)

Arranged	Arranged	Arranged	Arranged
Karyotype	Karyotype	Karyotype	Karyotype
M M M TE TE TE AN TE AN IN THE	AN AN AN AN AN AN AN AN	ES EN EN ES	1) U 11 01 01 01 01 01 11 11 11 11 11 11 11
Arranged	Arranged	Arranged	Arranged
Karyotype	Karyotype	Karyotype	Karyotype
H II AN	ANTILLASSI PALISTIN (IN-10 PRINCIP B.A. A.A. A.D. A.B. E.E. A.B. A.B. A.B. A.B. A.B. A.B. A.B. E.E. A.B. A.B. A.B. A.B. A.B. A.B. A.B. A.B.	TE NO ES ES ES EX AN ES ES EX AN ESTE ES ESTE ES EST ES EST ES EST ES EST EST	20
Arranged	Arranged	Arranged	Arranged
Karyotype	Karyotype	Karyotype	Karyotype
26	SE SE SE OR OF AN ALL ALL THE	BE BE SEE SEE IN THE	THE REAL PROPERTY OF THE PARTY
Arranged	Arranged	Arranged	Arranged
Karyotype	Karyotype	Karyotype	Karyotype



AARDVARK 1 2N=20 FEMALE

















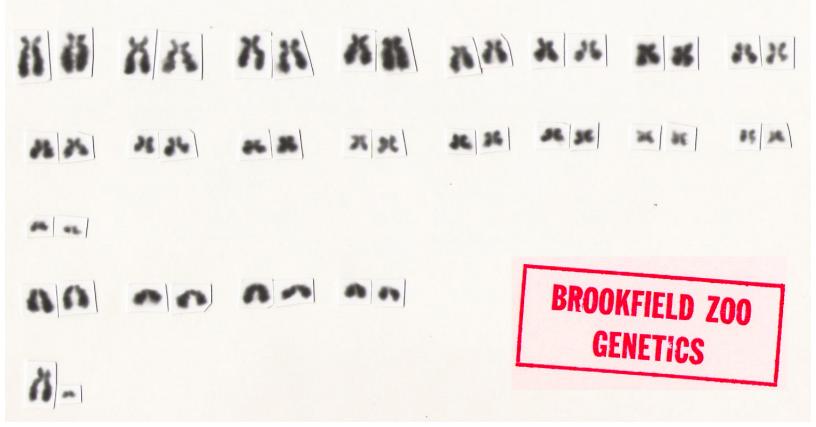




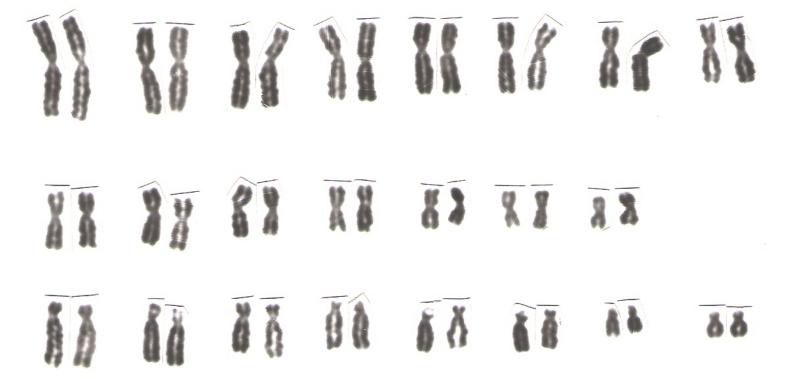
AARDVARK 2 2N=22 MALE



BELUGA 2N=44 MALE

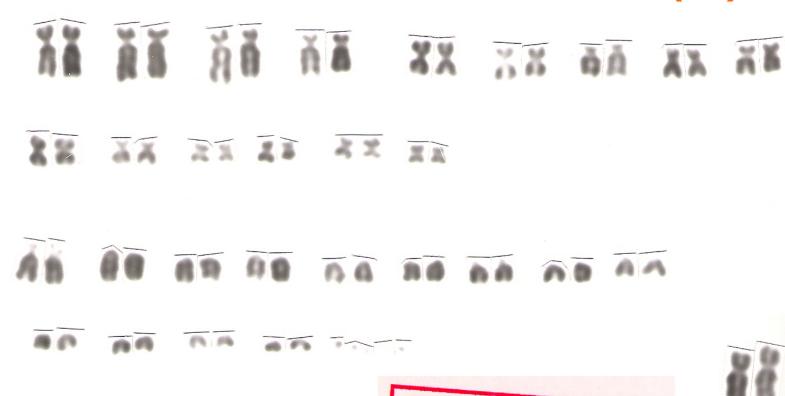


CHIMPANZEE 2N=48 MALE

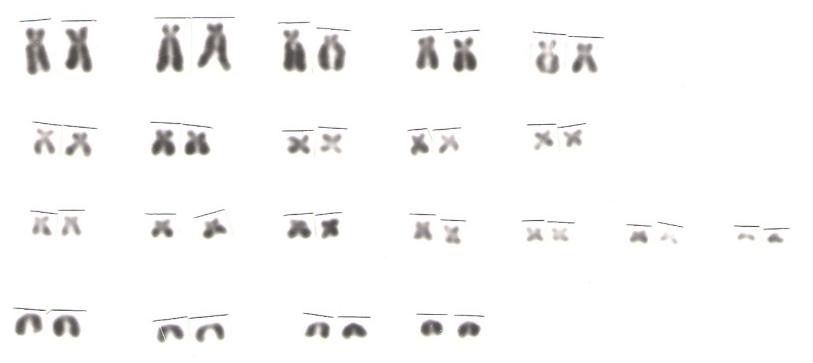


XX

CINEREOUS VULTURE 2N=62 MALE (ZZ)

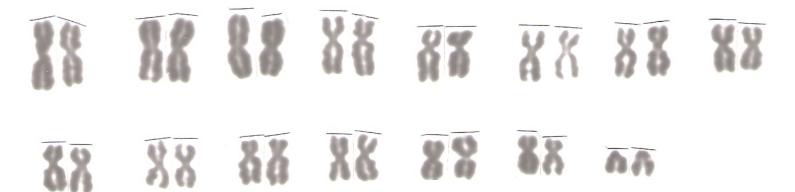


BOTTLENOSE DOLPHIN 2N=30 FEMALE

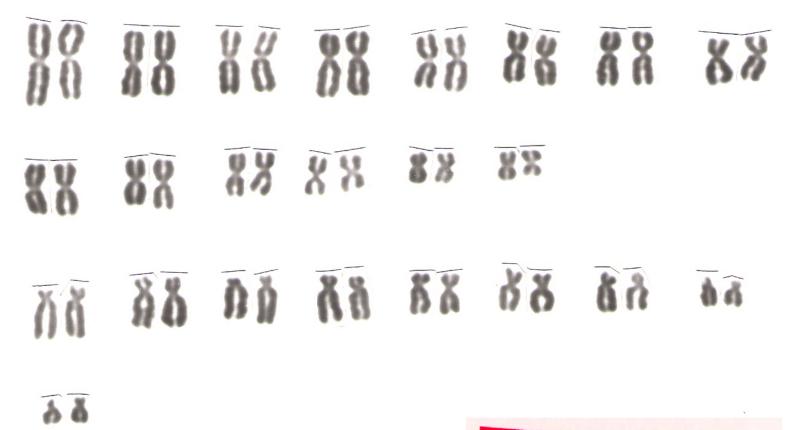


NX

RETICULATED GIRAFFE 2N=30 FEMALE



GORILLA 2N=48 FEMALE



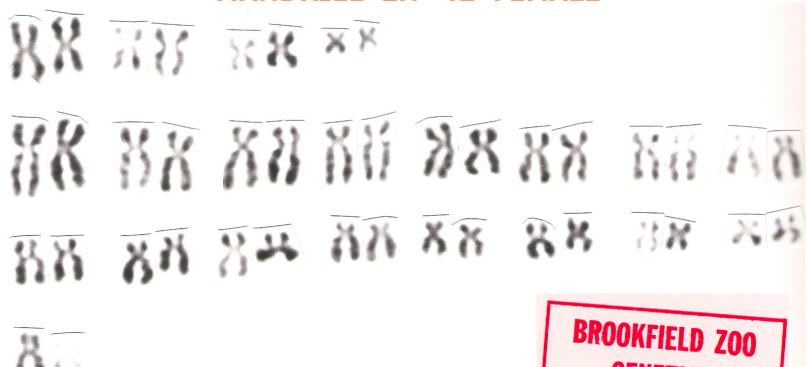
000

KUDU 2N=32 FEMALE



INCA TERN 2N=58 MALE (ZZ)

80 00 00 00 00 00



GENETICS

MONITOR LIZARD 2N=40 MALE (ZZ)



OKAPI 2N=45 FEMALE

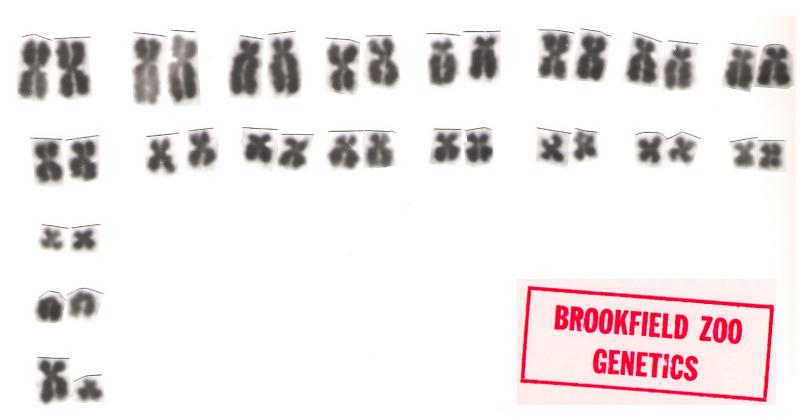


ORANGUTAN 2N=48 MALE

Proper pairings



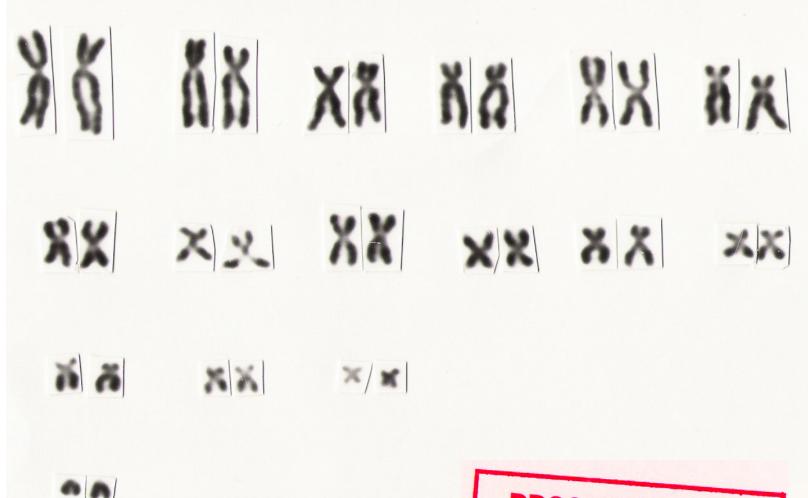
PALLAS CAT 2N=38 MALE



SPIDER MONKEY 1 2N=34 FEMALE



SPIDER MONKEY 2 2N=34 FEMALE



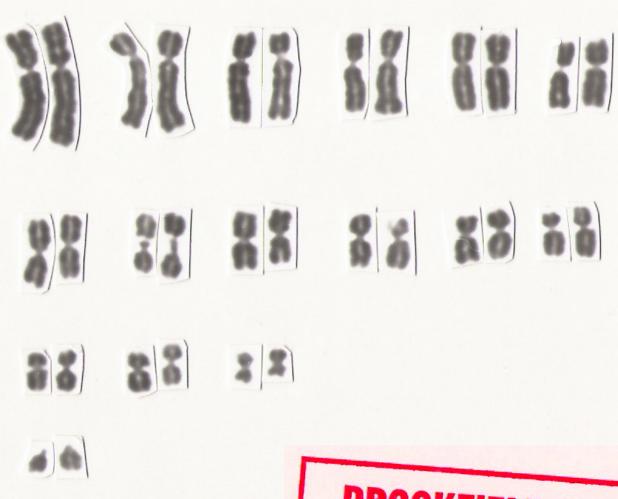
8 4

SPIDER MONKEY 2N=34 FEMALE



2 %

SPIDER MONKEY 4 2N=34 MALE



SPIDER MONKEY 5 2N=34 FEMALE

