

Name: _____

Period: _____

Date: _____

Karyotype Worksheet

- Look at the karyotype to the right.
 - Circle the Autosomal chromosomes.
 - Put a box around the Sex chromosomes.
 - Is this person male or female? _____
- How many total chromosomes does a normal person have?
Circle 23 46
- Put a star on a homologous pair.



- Look at the karyotype to the right. Do you see any chromosomal abnormalities? YES NO
- Put a circle around the abnormal chromosomes.
- Using the key below for chromosomal diseases, identify the disease this person has _____
- Is this person male or female? _____



- Look at the karyotype to the left. Is it
MALE or FEMALE

NORMAL or ABNORMAL

- Using the key below, what disease does the karyotype above have? _____
- Which chromosome is the longest and has the most genes? 1 or 21
- Which chromosome is the shortest and has the fewest genes? 1 or 22
- In a normal karyotype how many autosomal chromosomes are there? _____

- In a normal karyotype how many sex chromosomes are there? _____
- One type of chromosomal mutation is trisomy 21. What is another name for it? _____

Chromosome Problem	Name of Disorder
X	Turner's Syndrome
XOX	Triple X Disease
XOY	Klinefelter's Syndrome
XYY	Jacob's Syndrome
Trisomy 18	Edward's Syndrome
Trisomy 21	Down's Syndrome
Trisomy 13	Patau Syndrome

Karyotypes Lab Answers

RS Peters

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'RS Peters' text.

Karyotypes Lab Answers:

Karyotypes of Parasitic Hymenoptera Vladimir E. Gokhman, 2009-03-06 Not so long ago karyology was considered a vanguard biological discipline which could solve nearly all problems of systematics and phylogenetics We liked to believe in the bright future in a magician who will appear like a Jack in the box and reveal the truth to us However excessive hopes related to the chromosomal study came true only in part In the meantime new candidates claimed the place of the magician i.e. phenetics succeeded by cladistics and now by molecular methods in systematics and phylogeny Nevertheless it becomes progressively more obvious nowadays that cladistics is just a bright envelope for the fairly primitive and theoretically vulnerable approach that deprives living organisms and their groups of the traces of integrity and reduces them to the plain sum of characters Modern molecular techniques look more perceptive and may yield more reliable results although the details are sometimes embarrassing and comparison with the fossil record does not necessarily reveal their superiority over cladistics These methods are accessible by research teams with massive funding and good equipment and this strongly decreases the range and diversity of the material studied However classifications are often created by individual systematists with the restricted access to molecular methods In this context karyological techniques are in the preferable position although they certainly do not provide direct and immaculate markers of taxonomic and phylogenetic relationships chromosomal study is a morphological method with all its advantages and drawbacks

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