

Name: \_\_\_\_\_

Period: \_\_\_\_\_

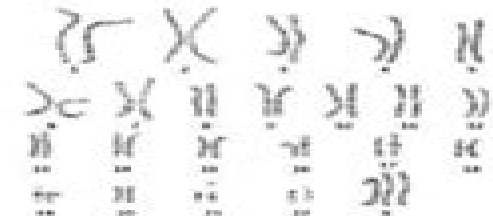
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# **Karyotype Worksheet**

- 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?        2        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
XXX	Triple X Disease
XXY	Klinefelter's Syndrome
XYY	Jacob's Syndrome
Trisomy 18	Edward's Syndrome
Trisomy 21	Down's Syndrome
Trisomy 13	Patau Syndrome

## Lab 21 A Chromosome Study Answer Key

**Daniel A. Arber, Bertil Glader, Alan F.  
List, Robert T. Means, Frixos  
Paraskevas, George M. Rodgers**

## **Lab 21 A Chromosome Study Answer Key:**

**Handbook of Autopsy Practice** Jurgen Ludwig, 2002-07-18 The second edition of Handbook of Autopsy Practice appeared in 1979 under the title Current Methods of Autopsy Practice W B Saunders Company that edition was out of print in the early 1980s Now over 20 years later it appeared timely to thoroughly update the material in a third edition by adding what we have learned in the meantime and eliminating text that has become obsolete There is an acute need for a complete and readily accessible resource for autopsy work because few pathologists still specialize in autopsy practice and as a consequence expertise in autopsy technology and autopsy pathology has declined Our colleagues in the forensic field have remained the only large group of autopsy practitioners For most other pathologists the economic situation time constraints and the steadily decreasing autopsy rates have made a career in autopsy pathology unattractive This state of affairs is perpetuated by a lack of interest among many of our young colleagues partly because the teaching of autopsy pathology and autopsy techniques during most residencies is insufficient Numerous articles have been written about this situation but the trend I fear is irreversible Still autopsies will be requested particularly in complex and difficult situations where the questions remaining after the death of the patient might challenge even experienced autopsy pathologists Under these circumstances this Handbook of Autopsy Practice should meet a particular need by providing the prosecutor with a source of information when it is most required in the autopsy room

**The AGT Cytogenetics Laboratory Manual** Marilyn S. Arsham, Margaret J. Barch, Helen J. Lawce, 2017-04-24 Cytogenetics is the study of chromosome morphology structure pathology function and behavior The field has evolved to embrace molecular cytogenetic changes now termed cytogenomics Cytogeneticists utilize an assortment of procedures to investigate the full complement of chromosomes and or a targeted region within a specific chromosome in metaphase or interphase Tools include routine analysis of G banded chromosomes specialized stains that address specific chromosomal structures and molecular probes such as fluorescence in situ hybridization FISH and chromosome microarray analysis which employ a variety of methods to highlight a region as small as a single specific genetic sequence under investigation The AGT Cytogenetics Laboratory Manual Fourth Edition offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the science behind them One of the most valuable assets is its rich compilation of laboratory tested protocols currently being used in leading laboratories along with practical advice for nearly every area of interest to cytogeneticists In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years such as the basic components of a cell use of a microscope human tissue processing for cytogenetic analysis prenatal constitutional and neoplastic laboratory safety and the mechanisms behind chromosome rearrangement and aneuploidy this edition introduces new and expanded chapters by experts in the field Some of these new topics include a unique collection of chromosome heteromorphisms clinical examples of genomic imprinting an example driven overview of chromosomal microarray mathematics specifically geared for the cytogeneticist usage of ISCN s

cytogenetic language to describe chromosome changes tips for laboratory management examples of laboratory information systems a collection of internet and library resources and a special chapter on animal chromosomes for the research and zoo cytogeneticist The range of topics is thus broad yet comprehensive offering the student a resource that teaches the procedures performed in the cytogenetics laboratory environment and the laboratory professional with a peer reviewed reference that explores the basis of each of these procedures This makes it a useful resource for researchers clinicians and lab professionals as well as students in a university or medical school setting *Handbook of Autopsy Practice* Brenda L. Waters, 2010-05-19 *Handbook of Autopsy Practice* Fourth Edition is divided into three parts Part I contains six new chapters in which the reader will find an assortment of tools that will increase the value of the autopsy Included in the section are valuable resources and tools such as a sample next of kin letter a quality assurance worksheet new discourse on the dissection procedure which is accompanied by a worksheet and template for the gross description There is also a new detailed discussion of the safe handling of sharps complete with photographs and the reader will also find the updated requirements of the Eye Bank of America and the U S Food and Drug Administration for ocular tissue transplantation Part II has been updated with new diseases and recent references added Practicing autopsy pathologists residents and students are invited to review this alphabetical listing of disorders before each autopsy in order to re acquaint themselves with what they might encounter Part III provides a series of tables providing organ weights and body measurements for fetuses children and adults *Handbook of Autopsy Practice* Fourth Edition is an essential resource for clinicians pathologists residents and students who strive to hone their trade and increase the value of the autopsies they perform Nuclear Science Abstracts ,1973

The ACT Cytogenetics Laboratory Manual Association of Cytogenetic Technologists, 1991 Revised and expanded to cover advanced instrumentation techniques There are three separate chapters on peripheral blood culture continuous cell lines and prenatal diagnosis and culture and new chapters on solid tumours fragile sites and molecular cytogenetics *Laboratory Investigations in Human Physiology* George K. Russell, 1978 **Laboratory Test Handbook** David S. Jacobs, 1996 Contains information about laboratory procedures including test name and synonyms patient care recommendations specimen requirements reference ranges interpretive information footnotes and references This ed has expanded coverage of laboratory assays related to molecular pathology and treatments of clinical virology and therapeutic drug monitoring

*Wintrobe's Clinical Hematology* Daniel A. Arber, Bertil Glader, Alan F. List, Robert T. Means, Frixos Paraskevas, George M. Rodgers, 2013-08-29 With the 13th edition Wintrobe's Clinical Hematology once again bridges the gap between the clinical practice of hematology and the basic foundations of science Broken down into eight parts this book provides readers with a comprehensive overview of Laboratory Hematology The Normal Hematologic System Transfusion Medicine Disorders of Red Cells Hemostasis and Coagulation Benign Disorders of Leukocytes The Spleen and or Immunoglobulins Hematologic Malignancies and Transplantation Within these sections there is a heavy focus on the morphological exam of the peripheral

blood smear bone marrow lymph nodes and other tissues With the knowledge about gene therapy and immunotherapy expanding new up to date information about the process and application of these therapies is included Likewise the editors have completely revised material on stem cell transplantation in regards to both malignant and benign disorders graft versus host disease and the importance of long term follow up of transplantation survivors Mayo Medical Laboratories Handbook Curtis L. Bakken,1981 **Classified List of Publications of the Carnegie Institution of Washington** Carnegie Institution of Washington,1921 Wallerstein Laboratories Communications on the Science and Practice of Brewing Wallerstein Laboratories,1940 **Laboratory Papers. V.1-** Cornell University. Department of Plant Breeding,1908 **Current Methods of Autopsy Practice** Jurgen Ludwig,1979 **Genetic Disorders of the Skin** Joseph C. Alper,1991 **Journal of Osaka Dental University** Osaka Shika Daigaku,1971 **Laboratory Tests and Diagnostic Procedures** Cynthia C. Chernecky,Barbara J. Berger,2008 Find complete answers to questions such as which laboratory tests to order or what the results might mean Laboratory Tests and Diagnostic Procedures 6th Edition covers more tests than any other reference of its kind with over 900 lab tests and diagnostic procedures in all In Part I you ll find an alphabetical list of hundreds of diseases conditions and symptoms including the tests and procedures most commonly used to confirm or rule out a suspected diagnosis In Part II you ll find descriptions of virtually every laboratory and diagnostic test available This edition is updated with the latest research and over 20 NEW test entries Written by educator Cynthia Chernecky and clinical nurse specialist Barbara Berger this lab reference covers today s lab tests with concise easy to use information More than 900 laboratory tests and diagnostic procedures are included more than any other reference Over 600 diseases conditions and symptoms are listed along with the tests used to confirm them Alphabetical organization and A to Z thumb tabs make it easy to find the information you re looking for Alternative test names and acronyms are cross referenced to simplify lookup Instructions for client and family teaching help you offer guidance concerning test preparation and follow up care Age and gender specific norms are provided giving you complete lifespan coverage Risks and Contraindications are highlighted to help you safeguard your patients and provide effective care Panic Level Symptoms and Treatment are provided for dangerously increased and decreased levels Minimum volumes for blood samples are included useful when a client s blood preservation is essential as well as information on whether blood specimens can be drawn during hemodialysis Tests for toxic substances are included making this a lab diagnostic and toxicology book all in one Abbreviations measurement prefixes and symbols are listed on the front and back covers for convenience Information on herbal supplements indicates when a client s use of natural remedies might affect test results Over 20 NEW test entries present the latest tests and procedures with a strong focus on affordable clinically relevant genetic tests UPDATED content includes the latest research relating to accuracy of tests diagnostic value of results and associated cost benefit ratios Acta Biologica Academiae Scientiarum Hungaricae ,1971 *Memoirs* ,1929 *European Journal of Gynaecological Oncology* ,1980 Excerpta Medica ,1990

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