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22 Built-in Flash - TTL auto, Manual output (full, 1/2 ... reducing camera shake when camera movement could result in blurred photos (for example, macro, or microscope photography, etc.) 32 MB-D80 ...

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microscope equipped with standard DAPI, FITC, Texas Red and CY5 (far red) filters. The microscope is also equipped ...

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[31] Images were visualized using

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a Nikon Eclipse 80i inverted microscope ... as described in the GeneChip manual. Raw data files (.CEL) were converted into probe set values by Robust multi ...

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resolution large field of view  
images deep within living  
organisms MELVILLE, N.Y., Nov.  
30, 2021 /PRNewswire/ -- Nikon  
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microscope~~

Advisor Insights Personal Finance  
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For around half of the couples  
who have trouble conceiving the  
cause of infertility is sperm-  
related. Intracytoplasmic sperm  
injection (ICSI) is the most

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common and successful treatment for male infertility. Here, the pioneers for the technique, along with authorities in the field, describe the underlying science of ICSI and other micromanipulation techniques. Practical advice for performing the techniques is covered in depth, including sperm selection, laser-assisted ICSI, and the use of piezo in ICSI. Examining the safety of ICSI in animal models as well as the impact of ICSI on the health and well-being of the children conceived through the procedure is discussed. This manual is an essential resource for clinical embryologists and laboratory personnel wishing to refine or develop techniques and improve

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outcomes.

The Practical Manual of In Vitro Fertilization: Advanced Methods and Novel Devices is a unique, accessible title that provides a complete review of the most well-established and current diagnostic and treatment techniques comprising in vitro fertilization. Throughout the chapters, a uniform structure is employed, including a brief abstract, a keyword glossary, a step-by-step protocol of the laboratory procedures, several pages of expert commentary, key issues of clinical concern, and a list of references. The result is a readily accessible, high quality reference guide for reproductive endocrinologists, urologists,

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embryologists, biologists and research scientists. The Manual also offers an excellent description of novel procedures that will likely be employed in the near future. An indispensable resource for physicians and basic scientists, the Practical Manual of In Vitro Fertilization: Advanced Methods and Novel Devices is an invaluable reference and addition to the literature.

Although Grandma has seen many wonderful sights around the world, none compare to the wonder of her bouncy, growing, "heaven-and-earthly" granddaughter Madeleine.

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Basic techniques - cells tissue culture of model species. Tissue culture & transformation of crop species. Propagation & conservation of germplasm. Direct gene transfer & protoplast fusion. Reproductive tissues. Mutant selection.

This essential guide can help readers identify blood type cells, which are difficult to categorize, and explains the morphologic characteristics of peripheral blood cells in detail. Some of the book's features include: color photographs that depict each stage of cell maturation in the exact sequence of development; comparative photographs of difficult-to-identify cells from different cell lines with adjacent

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diagrams and instructions in chart form; and an explanation of the entire differential procedure, with mathematical guidelines.

Brief historical background and basic principles of the microscopy; Set-up and alignment; Numerical aperture; Condensing systems and their use; Objectives; Phase contrast and nomarski interference; Troubleshooting; Photomicrography; Fluorescence microscopy; Field location; Special techniques.

This practical handbook provides an extremely comprehensive, highly illustrated and up-to-date

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guide to micromanipulation techniques in assisted conception in a clinical setting. It includes detailed, illustrated descriptions of all the common micromanipulation systems currently in use in IVF laboratories around the world and clearly explains how to optimise their successful use. The volume covers state-of-the-art techniques including intracytoplasmic sperm injection (ICSI), and procedures such as assisted hatching and the blastomere biopsy (for preimplantation genetic diagnosis PGD). Valuable information on troubleshooting the potential mechanical and technical difficulties that can arise is provided to help all the practitioners of these techniques,

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including trainee embryologists and consultant obstetricians, and technicians and scientists involved in animal transgenesis and cloning. It will undoubtedly be of immense value to all doctors and scientists working with assisted reproductive technologies.

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

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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

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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;

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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

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makes it a useful resource for researchers, clinicians, and lab professionals, as well as students in a university or medical school setting.

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