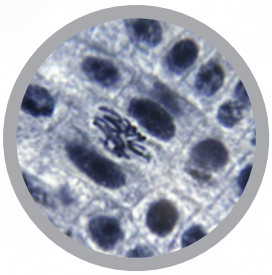
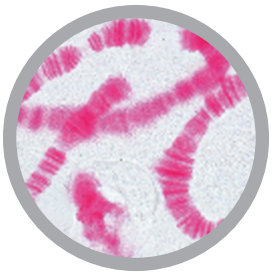
# CYTOLOGY & GENETICS SLIDE SETS

Cat #: CH-GE1 - **ANIMAL AND PLANT GENETICS SLIDE SET - 17 slides**



1 - Mitosis of animal sec. (Parascaris equorum)
2 - Meiosis of animal sec. (Locust)
3 - Meiosis of Parascaris equorum sec.
4 - Testis of grasshopper meiosis sec.
5 - Testis of frog meiosis
6 - Testis of rabbit meiosis
7 - Meiosis of plants sections (Lilium anther)
8 - Root tip of Allium cepa l.s. (show mitotic division)
9 - Root tip of Zea mays l.s. (show mitosis)
10 - Chromosome of allium w.m.
11 - Root tip of vicia faba (show mitosis)
12 - Meiosis of anther of Zea mays (metaphase1)
13 - Meiosis of anther of Zea mays (anaphase1)
14 - Meiosis of anther of Zea mays (telophase1)
15 - Meiosis of anther of Zea mays (metaphase2)
16 - Meiosis of anther of Zea mays (anaphase2)
17 - Meiosis of anther of Zea mays (telophase2)

Cat #: JL-1CEG - **THE ANIMAL CELL SLIDE SET - 12 slides**



1 - Squamous epithelium, isolated cells from human mouth.
Nuclei and cytoplasm are shown
2 - Striated muscle l.s. showing nuclei, striations, myofibrils
3 - Compact bone and hyaline cartilage t.s., two sections on one slide for comparison
4 - Nerve fibres isolated, fixed and stained by osmic acid to show myeline sheaths and Ranvier's nodes
5 - Liver of Salamandra t.s., showing simple animal cells with cellular membranes, nuclei, and cytoplasm
6 - Kidney of mouse, t.s. vital stained with trypanblue to demonstrate the storage of epithelial cells
7 - Ovary of cat, t.s. showing primary, secondary, and Graafian follicles
8 - Testis of frog, t.s. showing spermatogenesis. Spermatogonia, spermatocytes, spermatids, and mature spermatozoa
9 - Salamandra larva, t.s. of skin and other organs selected to show cell division (mitosis) in various stages
10 - Uteri of Ascaris megalocephala, t.s. iron hematoxyline stained to show details of meiosis with chromosomes and nuclear spindles
11 - Salivary gland of Chironomus larva. Giant chromosomes showing large chromomeres. Stained for DNA after Feulgen
12 - Ova from Psammechinus (sea urchin). Unfertilized ova, fertilized ova, early

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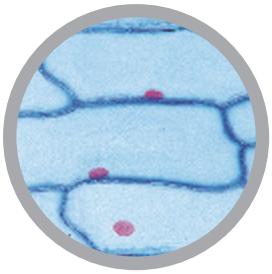
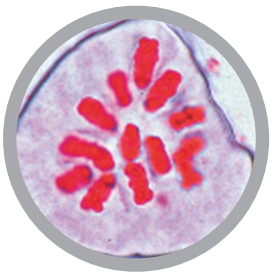
Cat #: JL-2CEG - **THE PLANT CELL SLIDE SET - 12 slides**



1 - Epidermis of Allium cepa (onion), w.m. showing simple plant cells with cell walls, nuclei and cytoplasm
2 - Root tips of Allium cepa l.s. showing cell division (mitosis) in all stages, clearly stained
3 - Pollen mother cells of Lilium. Prophase of first maturation division (meiosis) showing chromosomes as fine threads
4 - Pollen mother cells of Lilium. Metaphase and anaphase of first maturation division (meiosis) showing nuclear spindles and contracted chromosomes
5 - Wood of Tilia macerated and w.m. showing wood cells, vessels and fibres
6 - Fruit of Pyrus (pear) t.s. showing stone cells (sclerenchyma cells)
7 - Tuber of Solanum (potato) t.s. shows cork and starch grains
8 - Cucurbita pepo (pumpkin) l.s. of stem showing vascular bundles with sieve tubes, spiral and annular vessels, sclerenchyma fibres
9 - Ricinus endosperm t.s. showing aleurone grains
10 - Anthers of Lilium (lily), t.s. showing pollen sacs and pollen grains
11 - Ovary of Lilium (lily), t.s. showing arrangement of ovules and embryosac
12 - Spirogyra showing conjugation stages and formation of zygotes

Cat #: JL-9CEG - **DEVELOPMENT OF THE MICROSPORE MOTHER CELLS OF LILIUM CANDIDUM SLIDE SET - 12 slides**



1 - Leptotene, the chromosomes appear as fine threads
2 - Zygotene, the homologous chromosomes associate in pairs. The chromosomes appear as strings of beads
3 - Pachytene, complete pairing of the chromosomes
4 - Diplotene, shortening of the chromosomes by contraction. Interchange of chromatin between the maternal and paternal chromosomes (crossing over)
5 - Diakinesis, further contraction of the bivalents, the nuclear membrane disappears
6 - Metaphase and anaphase of the first (heterotypic) division, showing spindle threads. Two haploid sets of chromosomes are separated
7 - Telophase of the first and prophase of the second division
8 - Metaphase and anaphase of the second (homeotypic) division, two mitotic figures are present.
9 - Pollen tetrads, four nuclei are formed after the second division, each bearing the haploid number of chromosomes. Formation of cell walls
10 - Uninucleate microspores after separation of daughter cells
11 - Mature two-nucleate pollen grains at the time of shedding. Each pollen grain possesses a tube cell and a generative cell
12 - Mature pollen grains, w.m. to show structure of the cell walls

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