Lab Practical Information (in addition to what is on the other content sheet)

**Histology:**

You need to know the microscope slides of the following:

Epithelium: simple squamous, simple cuboidal, simple ciliated columnar, simple columnar, pseudostratified, stratified squamous keratinized, stratified squamous non-keratinized, transitional,

Connective: adipose, reticular, areolar, dense regular, dense irregular, hyaline cartilage, elastic cartilage, fibrocartilage, blood, bone

Muscular: skeletal muscle, smooth muscle, cardiac muscle

Nervous: nervous

**Skeletal system:**

**Axial Skeleton:**

SKULL: Know which bones are cranial and which are facial

Coronal suture, Ethmoid, External auditory(acoustic) meatus, Foramen magnum, Frontal, Glabella, Lambdoidal suture, Mandible, Mandibular foramen, Mandibular notch, Mandiublar symphysis, Mastoid process, Maxilla, Mental foramen, Nasal, Occipital, Occipital condyle, Palatine bone, Palatine process of the maxilla, Parietal, Sagittal suture,Sphenoid, Squamosal suture, Styloid process, Supraorbital notch(foramen),Temporal, Zygomatic bone, Zygomatic process of the temporal bone

HYOID

VERTEBRA: Vertebral Parts: Vertebral foramen, Spinous process, Transverse process, Body

RIB: rue ribs- on articulated

False ribs-on articulated

Floating ribs-on articulated

STERNUM: Manubrium, Body, Xiphoid process

**Appendicular Skeleton:**

CLAVICLE:

SCAPULA: Spine, Acromion process, Coracoid process, Glenoid cavity

HUMERUS: Head, Greater tubercle, Medial epicondyles, Lateral epicondyles, Olecranon fossa,Lesser tubercle, Trochlea, Capitulum, Deltoid tuberosity

ULNA: Olecranon process,Semilunar notch (trochelear notch), Styloid process

RADIUS: Head, Styloid process, Radial tuberosity

CARPALS:

METACARPALS:

PHALANGES: Proximal phalanx, Middle phalanx, Distal phalanx

PELVIS: Acetabulum, ilium, ischium, pubis, obturator foramen

FEMUR: Head, Greater trochanter, Lesser trochanter, Lateral condyle, Medial condyle

Lateral epicondyle, Medial epicondyle

PATELLA:

TIBIA: Medial malleolus

FIBULA: Head, Lateral malleolus

TARSALS: Talus, Calcaneus, Cuneiforms (3), Cuboid , Navicular

METATARSALS:

PHALANGES: Proximal phalanx, Middle phalanx, Distal phalanx

**Muscles: Human to know**

|  |  |
| --- | --- |
| Frontalis | |
| Occipitalis | |
| Orbicularis oculi | |
| Zygomaticus (Major and minor) | |
| Orbicularis oris | |
| Mentalis | |
| Platysma | |
| Masseter | |
| Temporalis | |
| **Neck muscles** | | |
| Sternocleidomastoid  Platysma | |
| **Muscles of the trunk – breathing,** | | |
| Intercostals | |
| Diaphragm | |
| **Trunk muscles – abdominal wall,** | | |
| Rectus abdominis | |
| Linea alba Connective Tissue | |
| External abdominal oblique or external oblique | |
| Internal obliques | |
| Transverse abdominis | |
| **Thorax muscles (anterior – front),** | | |
| Pectoralis minor | |
| Serratus anterior | |
| **Thorax muscles (posterior – back** | | |
| Trapezius | |
| Latissimus dorsi | |
| **Muscles acting on the upper limbs** | | |
| Pectoralis major | |
| Latissimus dorsi | |
| Deltoids | |
| **Muscles acting on the forearm** | | |
| Triceps brachii | |
| Biceps brachii | |
| Brachialis | |
| Brachioradialis | |
| **Thigh and leg, (A = anterior, P = posterior)** | | |
| Sartorius | A |
| Adductor group | A |
| Quadriceps femoris | A |
| Gluteus maximus | P |
| Gluteus medius | P |
| Hamstring group | P |
| **Ankle and toes** | | |
| Tibialis anterior | |
| Gastrocnemius | |

**Brain Dissection:**

Longitudinal fissure, lateral fissure, all lobes of the brain, gyri, sulci, cerebrum, cerebellum, arbor vitae, diencephalon, brain stem, mid brain, medulla, pons, corpus callosum, spinal cord, hypothalamus, thalamus

**Cow Eye:**

Anterior Cavity, Posterior Cavity, cornea, pupil, iris, optic nerve, retina, choroid coat, vitreous humor, aqueous humor, sclear