Human Anatomy and Physiology- I

BIOL2401- **Lab Practical 4** Terminology

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| Lab 25: Nerve Tissue | | | | |
| dendrite |  | Axon Schwann cell | nodes of Ranvier | |
| cell body |  | axon hillock myelin sheath | |  |
| Nissl bodies |  |  | |  |
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| Lab 26: Spinal Cord | | | | | | | | | | | | |  |  | | |
| meninges | | | anterior median fissure | | | | | gray matter | | | | | conus medullaris | | | |
|  | | dura mater | posterior median sulcus | | | | |  | gray commissure | | | | cauda equina | | |  |
|  | | arachnoid mater | central canal | | | | |  |  | | | | filum terminale | | |  |
|  | | pia mater | dorsal root | | | | |  | white matter | | | |  | | |  |
|  | |  |  | dorsal root ganglia | | | |  |  | | | | sympathetic chain ganglion | | | |
|  | |  | ventral root | | | | |  |  | | | |  | | | |
|  | |  | spinal nerve  Interneuron | | | | |  | | | | |  | | | |
|  | |  |  | | | | |  | | | | |  | | | |
| spinal nerves | | | | | plexus | | | | |  |  | | | |
|  | cervical nerves - 8 pairs | | | |  | cervical plexus | | | | lumbosacral plexus | | | | |
|  | thoracic nerves - 12 pairs | | | |  | brachial plexus | | | | lumbar plexus | | | | |
|  | lumbar nerves - 5 pairs | | | |  | axillary n. | | | |  | femoral n. | | | |
|  | sacral nerves - 5 pairs | | | |  | radial n. | | | |  | | obturator n. | | |
|  | coccygeal nerve - 1pair | | | |  | ulnar n. | | | |  | sacral plexus | | | |
| intercostal nerves | | | | |  |  | median n. | | |  | sciatic n. | | | |
| **Lab 27: Reflexes** | | | | |  |  |  | | |  | tibial n. | | | |

Patellar reflex Calcaneal reflex Biceps reflex

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| Lab 28: Brain & Cranial Nerves | | | | |  | |
| cerebrum | | | fissure | | diencephalon | |
| cerebral hemispheres | | | longitudinal fissure | | thalamus | |
| corpus callosum | | | lobes | | hypothalamus | |
| gray matter | | | frontal | | pituitary gland | |
| white matter | | | parietal | | optic chiasma | |
| convolution (gyri) | | | temporal | | mammillary bodies | |
| precentral (motor) gyrus | | | occipital | | cerebellum | |
| postcentral (sensory) gyrus | | | insula | | arbor vitae | |
| sulci | | | ventricles | | brain stem | |
| central sulcus | | | lateral ventricles (L & R) | | midbrain | |
|  | | | third ventricle | | Pons | |
|  | | | fourth ventricle | | Medulla oblongata | |
|  | | | Choroid plexus | |  | |
| cranial nerves | | |  | |  | |
| I Olfactory | IV Trochlear | | VII Facial | |  |
| II Optic | V Trigeminal | | VIII Vestibulocochlear | | X Vagus |
| III Oculomotor |  | | IX Glossopharyngeal | | XI Accessory |
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| Lab 29: Sheep Brain | | |  | | | | |  |  | | |  | |  |  |
| External - dorsal | | | External - ventral | | | | | | Internal | | | | | | |
|  | meninges | |  | longitudinal fissure | | | | |  | cerebrum | | | | | |
|  |  | dura mater |  | olfactory bulb | | | | |  |  | gray matter | | | | |
|  |  | arachnoid mater |  | optic nerve | | | | |  |  |  | |  | | |
|  |  | pia mater |  | optic chiasma | | | | |  |  | white matter | | | | |
|  | cerebral hemispheres | |  | optic tract | | | | |  |  | ventricles | | | | |
|  |  | longitudinal fissure |  | mammillary bodies | | | | |  |  |  | | L & R ventricles | | |
|  |  | lobes |  | pituitary gland | | | | |  |  |  | | 3rd ventricle | | |
|  |  | frontal lobe |  |  | | | | |  |  |  | | cerebral aqueduct | | |
|  |  | parietal lobe |  | midbrain | | | | |  | 4th ventricle | | | | | |
|  |  | temporal lobe |  | pons | | | | |  | choroid plexus | | | | | |
|  |  | occipital lobe |  | medulla oblongata | | | | |  | corpus callosum | | | | | |
|  |  | corpus callosum |  | cerebellum | | | | |  | diencephalon | | | | | |
|  |  | pineal gland |  | spinal cord | | | | |  | thalamus | | | | | |
|  |  | cerebellum |  |  | | | | |  | hypothalamus | | | | | |
|  |  | midbrain |  |  | | | | |  | cerebellum | | | | | |
|  |  |  |  |  | | | | |  | arbor vitae | | | | | |
|  |  | medulla oblongata | | |  |  |  | |  | brain stem | | | | | |
|  |  | spinal cord | | |  |  |  | |  | midbrain | | | | | |
|  |  |  | | |  |  |  | |  | pons | | | | | |
|  |  |  | | |  |  |  | |  | medulla oblongata | | | | | |

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| Lab 30: Receptors and Somatic Senses | | |
| free nerve endings | Meissner's corpuscle | Pacinian corpuscle |

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| Lab 31: Senses of Smell & Taste | |
| columnar epithelium cell | taste bud |
| olfactory receptor cell | taste pore |
| cribriform plate | taste (gustatory) cell |
| olfactory bulb |  |
| olfactory nerve |  |

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| Lab 32: The Ear & Hearing | | |
| External ear | Internal ear | round window |
| auricle | cochlea | semicircular canal |
| external auditory meatus | oval window | ampullae |
| Middle ear | organ of Corti | vestibule |
| tympanic membrane | receptors (hair cells) |  |
| auditory ossicles |  |  |
| malleus |  | vestibulocochlear (auditory) n. |
| incus |  |  |
| stapes |  |  |
| Auditory (Eustachian) canal |  |  |
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| Lab 34: The Eye |  |  |  |  |  |  |
|  |  | conjunctiva |  | iris |  | choroid coat |
| lacrimal gland |  | cornea |  | pupil |  | sclera |
|  |  | anterior cavity |  | lens |  | retina |
|  |  | aqueous humor |  | ciliary body |  | macula lutea |
|  |  |  |  | posterior cavity |  | fovea centralis |
|  |  |  |  | vitreous humor |  | optic disc |
|  |  |  |  |  |  | optic nerve |

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| Lab 11: Integumentary System | | | |
| **Basic structure of the skin (integument):** | | | |
| epidermis | | dermis | |
|  | stratum (germinativum) basale |  | dermal papillae |
|  | stratum spinosum |  | melanin |
|  | stratum granulosum |  |  |
|  | stratum lucidum | hypodermis (subcutaneous) | |
|  | stratum corneum |  | |

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| **Appendages and products of the skin:** | | | | |
| Glands |  |  |  | Hair |
|  |  |  |  | hair follicle |
| Sweat gland- sweat |  |  |  | hair root |
| apocrine gland |  |  |  | hair shaft |
| eccrine gland |  |  |  |  |
| Sebaceous gland- sebum |  |  |  | arrector pili muscle |
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