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 nerveInterneuron  |  |  |
|  |  |  |  |  |
| 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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