**Homeostasis Revision Guide**

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| **Major Glands** | |
| Gland | Function and Associated Hormones |
| Hypothalamus |  |
| Pituitary |  |
| Thyroid |  |
| Juxtaglomuleral cells (JGA) |  |
| Pancreas |  |
| Adrenal Gland |  |

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| **Major Hormones** | |
| Hormone | Function |
| ADH |  |
| ~~TRH~~ |  |
| TSH |  |
| Thyroxine (T4) |  |
| Insulin |  |
| Glucagon |  |
| Adrenaline |  |
| Renin |  |
| Angiotensin |  |
| Aldosterone |  |

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| **Sensory** | |
| Sensor | Function - what it senses, messages it sends, effect, etc. |
| Hypothalamus  • thermoreceptors  • osmoreceptors |  |
| Medulla oblongata  Chemoreceptors |  |
| JGA Baroreceptors  (mechanoreceptors) |  |
| Amygdala | Upper brain stem – detection of stress; sends message to hypothalamus, which then signals the adrenal gland to produce adrenaline. |
| Pancreatic Chemoreceptors |  |

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| **Nervous System** | |
| Aspect | Structure, Function, Pathway, etc. |
| Stimulus-Response Pathway |  |
| Reflex arc |  |
| Neurotransmitters |  |
| Synapse |  |
| Sensory Nerve |  |
| Interneuron |  |
| Motor Nerve |  |
| Effector |  |

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| **The Big 4 Homeostatic Control Areas** | |
| Aspect | Function, Negative Feedback process, major glands, major hormones, nerve vs hormone action involved, etc |
| Gluco Regulation |  |
| Thermoregulation |  |
| Osmoregulation  (and associated blood volume/pressure) |  |
| Chemoregulation  (pH & CO2) |  |

**Flight or Fight Response & Adrenaline**

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| Adrenaline |  |