

PSYCH 260/BBH 203

Exam 3 Review

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2022-03-29 13:55:40

Emotion, stress, & reward

- Biological perspectives on (e.g., Plutchik)
- Acute vs. chronic stressors
- Nodes in fear processing/stress network
- Nodes in 'reward' network, and some key neurotransmitters
<https://psu-psychology.github.io/psych-260-2021-fall/lectures/260-2021-10-26-emotion.html#30>

Depression

- Monoamine hypothesis and serotonin's presumed role
- Treatments for

Bipolar disorder

- Treatments for
- How differs from/similar to depression, schizophrenia

Schizophrenia

- Symptoms of
- Brain abnormalities
- Dopamine hypothesis vs.
- Glutamate hypothesis

Sensory systems

- Topographic maps
- Non-uniform sensitivity
- Hierarchical processing (and thalamic relay)
- Functional segregation
- Receptor specialization]
- Myelination, axon diameter & speed

Sensory systems

- Primary sensory/motor areas in cortex
- Receptive field size, cortical size, & sensory acuity

Somatosensation & pain

- Touch, temperature, pain receptors in skin
- Pathways to cortex

Neurophysiology

- Events leading to neurotransmitter release

Brain evolution/development

- Cortical size, brain size, human vs. other animals
- Key pre/postnatal events in human brain development

Neuroanatomy

- Cerebral ventricles
- Lobes of the cerebral cortex