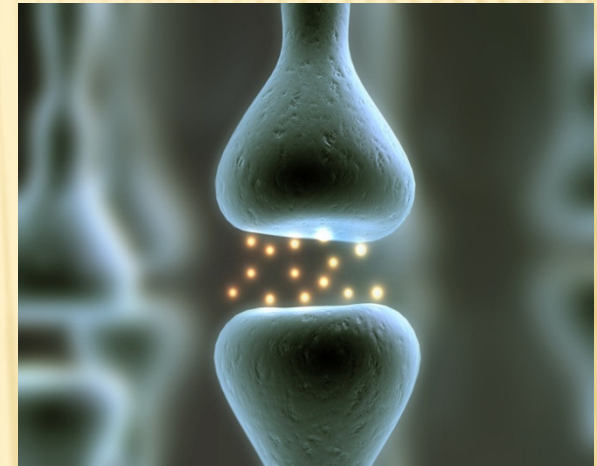


REVIEW

REVIEW

CHAPTER 10 – BRAIN DAMAGE AND NEUROPLASTICITY

- ✗ Brain Tumors
 - + Malignant vs benign
- ✗ Stroke
 - + Ischemic vs Hemorrhagic
 - + Types of Ischemic Stroke
 - + Brain damage associated with stroke (excess ???)
- ✗ Closed Head Injuries
 - + Contre-coup, contusions, concussion, CTE
- ✗ Infections of the Brain
 - + Bacterial vs Viral



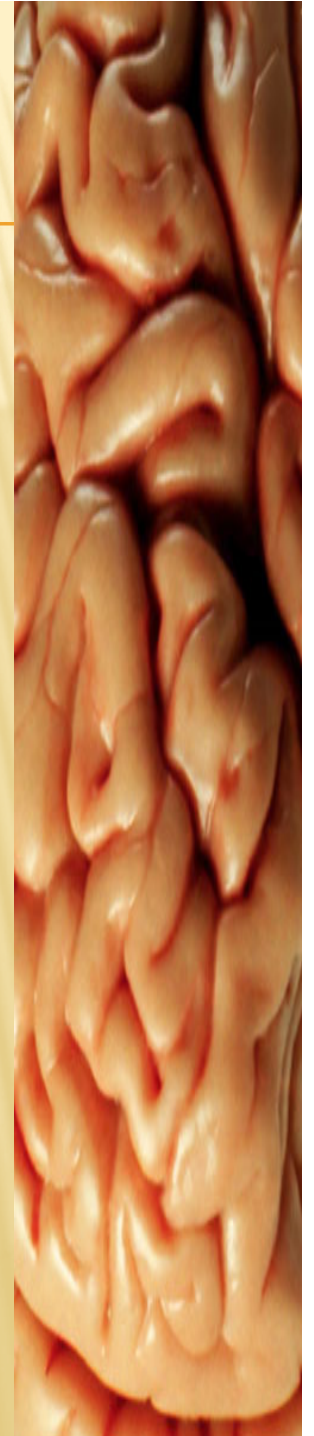
CHAPTER 10 – BRAIN DAMAGE AND NEUROPLASTICITY

- ✗ Neurotoxins
- ✗ Epilepsy
 - + Partial vs Generalized
 - + Simple vs Complex
 - + Grand Mal vs Petit Mal
 - + Kindling Model
- ✗ Parkinson's Disease
 - + Causal factors, neuro changes, treatment, MPTP



CHAPTER 10 – BRAIN DAMAGE AND NEUROPLASTICITY

- ✘ Huntington's Disease
 - + Symptoms, causes
- ✘ Multiple Sclerosis
 - + Symptoms, potential causes
- ✘ Alzheimer's Disease
 - + Symptoms, neuro changes, animal models



CHAPTER 10 – BRAIN DAMAGE AND NEUROPLASTICITY

- ✘ Neural Reorganization
 - + Examples, mechanisms
- ✘ Recovery of Function after Brain Damage
 - + Constraint-induced therapy
 - + Facilitated Walking
 - + Cognitive Exercises



CHAPTER 15 – DRUG ADDICTION & REWARD

× Drug Administration

+ Oral, injection, inhalation, mucus membranes

× Dose Response Curves

+ Margin of safety

× Drug Tolerance

+ Metabolic vs Functional

+ Drug sensitization

× Withdrawal Effects

+ Compensatory responses



CHAPTER 15 – DRUG ADDICTION & REWARD

- × **Conditioned Drug Tolerance**
 - + Overdose in new environments
- × **Tobacco**
- × **Alcohol**
- × **Cocaine**
- × **Marijuana**
- × **Opiates**
- × **Reward Circuitry – Mesocorticolimbic Pathway**
 - + VTA to NA to PFC



CHAPTER 15 – DRUG ADDICTION & REWARD

- × **Animal Models of Drug Addiction**
 - + Intracranial Self Stimulation
 - + Intravenous Drug Administration
 - + Conditioned Place Preference
 - + Behavioural Sensitization
- × **Neural Mechanisms of Incentive Sensitization**
- × **Physical Dependence Theory vs Positive Incentive Theory**
 - + Drug Wanting vs Drug Liking

CHAPTER 17 – EMOTION, STRESS, HEALTH

- ✘ Phineas Gage
- ✘ Universality of Emotions (Ekman & Friesen)
- ✘ Microexpressions
- ✘ Stress Response
 - + Sympathetic Nervous System (activated) – NE and EPI from adrenal medulla
 - + HPA Axis (activated) – glucocorticoids from adrenal cortex
 - + Parasympathetic Nervous System - inhibited

CHAPTER 17 – EMOTION, STRESS, HEALTH

- × **Psychosomatic Illnesses & Stress Response (adaptive vs maladaptive)**
 - + **Cardiovascular Stress**
 - + **Gastrointestinal Stress (ulcers)**
- × **Stress and the Hippocampus**
 - + **Behavioural and physiological changes**
- × **Auditory vs Contextual Fear Conditioning**
- × **Brain Mechanisms of Emotion**

CHAPTER 18 – PSYCHIATRIC DISORDERS

- × Schizophrenia
 - + Symptoms
 - + Causal Factors – genetics & environment; diathesis stress model
 - + Antipsychotic Drugs
 - × Chlorpromazine, Reserpine – side effects
 - + Dopamine Theory of Schizophrenia
 - + D2 Theory of Schizophrenia
 - + Problems with the D2 Theory
 - + Current Understanding



CHAPTER 18 – PSYCHIATRIC DISORDERS

✦ Affective Disorders

- + Depression (Unipolar, Reactive vs Endogenous)
- + Mania
- + Bipolar
- + Causal Factors
 - ✦ Genetics
 - ✦ Stress Hypersensitivity
- + Antidepressant Drugs
 - ✦ MAOIs
 - ✦ Tricyclics
 - ✦ SSRIs
 - ✦ SNRIs
 - ✦ LiCl



CHAPTER 18 – PSYCHIATRIC DISORDERS

- × **Affective Disorders**
 - + Monoamine Theory
 - + Brain damage
- × **Anxiety Disorders**
 - + Different Classes
 - + Anti-Anxiety Meds
 - × Benzodiazepines
 - × SSRIs
- × **Tourette's Syndrome**

