

Brain and Behavior Study Guide 3

- What is emotion? Cognition, feelings, and actions
- Sympathetic NS: Changes both physiology (**adrenaline**) and emotion (**anger/fear**)
- James-Lang Theory: Emotion is what we call our physiological responses to stimulation; feelings result from body actions; leads to 2 predictions: 1) People with a weak autonomic response feel less emotion 2) Increasing one's response = enhance emotion
- Evidence for James-Lang: Paralyzed individuals have **impaired sympathy** (if so, they should feel less emotion if emotions are just a response to our physical state) and this has no clinical evidence; **pure autonomic failure** (output from ANS -> body fails (almost) completely), these people still have emotions, but their response is less intense
- Mobius Syndrome: Inability to show facial features
- Emotion and the brain: **Limbic system** (includes forebrain area surrounding thalamus), **frontal and temporal lobes** (hypothalamus and amygdala too)
- fMRI and PET imaging: Cortical areas active during emotion are compared to a neutral period, the location of each emotion **varies**, results may depend on procedure instead of targeted emotion
- Measurement of evoked response: Brain specializes to strongly attend to human faces, different emotions evoke activity in the same brain region, patients under scanning are subjected to either **visual images** or **chemical stimulation**
- No physiological proof of certain neurons controlling certain emotions
- Localization of **disgust** is located deep between the temporal and frontal lobes; strongly activated in disgust (when **insula** is activated, also can be activated with **frightening faces**); this region is also in the primary taste cortex
- Left and Right Hemisphere
- Left hemisphere: Activation of frontal and temporal areas -> **behavior activation system** (BAS)
- Right hemisphere: Same as left, but -> **behavioral inhibition system** (BIS)
- Greater activity in left: Happy
- Greater activity in right: More prone to unpleasant emotions
- Right seems to be more responsive to **emotional stimuli** than left; crying/laughing activates right **amygdala**, attention to facial expression activates right **temporal cortex**
- damage to this area causes trouble recognizing facial expression
- Emotional Functions
- Adaptive...fear, anger, disgust
- Aids in decision making: Detecting autonomic reactions about danger that we can't consciously identify (bases decisions on emotional consideration, or how the outcome will make us feel; failure to anticipate unpleasant emotion may lead to bad decision making; brain scans show that contemplating certain moral dilemma activates brain regions related to emotions, or parts of **PFC** and **cingulate gyrus**)
- Emotions and Brain Damage
- People with ventromedial PFC damage here make different moral decisions; they don't anticipate feelings arising from them; "the dictator game"
- 6 distinct universal emotions: Sadness, anger, happiness, disgust, surprise, fear
- Attack Behavior
- Unpleasant stimuli triggers attack behavior
- First attack usually increases chance for second attack (and longer)

Metro Behavior Study Guide

Didier Musso



Metro Behavior Study Guide:

Study Guide John Farley, 2002-07 This complete guide provides an overview of the corresponding chapter in the student text summarizes its major topics and concepts offers applied exercises and features end of the chapter quizzes with solutions

An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994 Geographical Reports of Tokyo Metropolitan University Tōkyō Toritsu Daigaku. Chirigakubu, 2006 **Monthly Catalog of United States Government Publications**, 1984 *Resources in Education*, 1973 Metropolitan Management, Transportation and Planning, 1921 *Geography Regions and Concepts, Study Guide* Harm J. de Blij, Peter O. Muller, 1991-01-18 This solid introduction provides an overview of world regional geography and is strongly grounded in spatial concepts and linked to basic systematic geography Organized according to developed and less developed regions it covers the human and physical foundations of world geography Europe the Soviet Union North America Australia Japan Middle and South America Africa Southwest Asia South Asia China and Southeast Asia As with previous editions the Sixth Edition features outstanding illustrative material and a full color cartographic program but also incorporates four major chapter revisions substantial updating and new chapter on opening maps Among the major topics covered are regional concepts and classification culture and landscape and physical environmental dimensions Specifics for each region are also discussed such as changing natural environment history settlement population politics economics and their impact industrialization and urbanization environmental hazards and much more **Research in Education**, 1973 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1972 **Student Study Guide for Use with Sexuality Today** Gary F. Kelly, Richelle Frabotta, 2005-03 **Summary Review of Major Metropolitan Area Transportation Studies in the United States** Richard M. Zettel, Institute of Transportation and Traffic Engineering, Richard R. Carll, 1962 **Metropolitan Pulpit and Homiletic Monthly**, 1913 Resources in Women's Educational Equity, 1979 Literature cited in AGRICOLA Dissertations abstracts international ERIC ABI INFORM MEDLARS NTIS Psychological abstracts and Sociological abstracts Selection focuses on education legal aspects career aspects sex differences lifestyle and health Common format bibliographical information descriptors and abstracts and ERIC subject terms used throughout Contains order information Subject author indexes **A Guide to Health Data**, 1988 A directory of information systems maintained by Minnesota state agencies which contain data related to public health in Minnesota Foreword **There are No Boundaries to Independent Study** Colorado Consortium for Independent Study via Correspondence, 1987 **Forthcoming Books** Rose Arny, 1997-12 *The Annual Guides to Graduate Study*, 1967 *Linguistics and Language Behavior Abstracts*, 1991 **Resources in Education**, 1995 *The Development of Secondary Centers Within Metropolitan Cities* Harold Charles Hoffsommer, 1923

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