

### 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**  
**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**

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## **Table of Contents Metro Behavior Study Guide**

1. Understanding the eBook Metro Behavior Study Guide
  - The Rise of Digital Reading Metro Behavior Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Metro Behavior Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Metro Behavior Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Metro Behavior Study Guide
  - Personalized Recommendations
  - Metro Behavior Study Guide User Reviews and Ratings
  - Metro Behavior Study Guide and Bestseller Lists

5. Accessing Metro Behavior Study Guide Free and Paid eBooks
  - Metro Behavior Study Guide Public Domain eBooks
  - Metro Behavior Study Guide eBook Subscription Services
  - Metro Behavior Study Guide Budget-Friendly Options
6. Navigating Metro Behavior Study Guide eBook Formats
  - ePUB, PDF, MOBI, and More
  - Metro Behavior Study Guide Compatibility with Devices
  - Metro Behavior Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Metro Behavior Study Guide
  - Highlighting and Note-Taking Metro Behavior Study Guide
  - Interactive Elements Metro Behavior Study Guide
8. Staying Engaged with Metro Behavior Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Metro Behavior Study Guide
9. Balancing eBooks and Physical Books Metro Behavior Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Metro Behavior Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Metro Behavior Study Guide
  - Setting Reading Goals Metro Behavior Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Metro Behavior Study Guide
  - Fact-Checking eBook Content of Metro Behavior Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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