

Learning Objectives

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The first part of the text discusses the importance of understanding the underlying mechanisms of various biological processes. It highlights the role of genetic factors in determining individual differences in susceptibility to certain conditions. The text also mentions the need for further research to clarify the complex interactions between genes and the environment.

The second part of the text focuses on the clinical implications of these findings. It suggests that a better understanding of the genetic basis of these conditions could lead to more targeted and effective treatments. The text also notes the potential for genetic testing to identify individuals at higher risk of developing certain conditions, allowing for early intervention and monitoring.

In conclusion, the text emphasizes the significance of genetic research in advancing our knowledge of human health and disease. It calls for continued collaboration between researchers and clinicians to translate these findings into practical applications that benefit patients.

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Ca ses of Addic ion

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Understanding the Disease of Addiction

Learning Objectives

- Identify the neurobiological basis of addiction
- Describe the role of dopamine in addiction
- Explain the genetic and environmental factors that influence addiction

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11. Which of the following is NOT a common symptom of post-acute withdrawal in early sobriety?

- Irritability
- Anxiety
- Fatigue
- Depression

12. Magnetic resonance imaging studies show that cue-induced craving in addicts is associated with increased reaction between the:

- Amygdala and nucleus accumbens
- Hypothalamus and nucleus accumbens
- Hypothalamus and amygdala
- Hypothalamus and prefrontal cortex

13. Injury to which area in a nonaddicted person results in decision making similar to that of the addicted person?

- Ventral striatum
- Ventral tegmental area
- Nucleus accumbens
- Nucleus subthalamicus

14. Continued use of an addicting substance causes:

- Tolerance and dependence
- Dependence and withdrawal
- Tolerance and withdrawal
- Dependence and withdrawal

15. Escalation of use occurs in an effort to:

- Avoid withdrawal symptoms
- Avoid tolerance
- Avoid dependence
- Avoid withdrawal symptoms and tolerance

Evaluation Form (required)

1. Rate your achievement of each objective from 5 (high/excellent) to 1 (low/poor).

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