

Final Pharmacology Test Study Guide

Antipsychotics & Serotonin

Serotonin – synthesised from Tryptophan

Found in the:

- CNS: sleep & wake cycles... many functions within the CNS
- CV: vasoconstrictor in splanchnic, renal, pulmonary beds, but also stimulates NO which has a vasodilatory effect, also has α -adrenoceptor effect but there is serotonin auto-receptors on the vagus nerve $\rightarrow$ bradycardia & hypotension
- GI: serotonin the primary neurotransmitter of the enteric NS $\rightarrow$ increases motility in the gut, but also has inhibitory effect
- Inflammation: platelet activation/aggregation, increase vascular permeability, chemottractant

Synthesis:

- Tryptophan $\rightarrow$ hydroxylated by Tryptophan hydroxylase $\rightarrow$ **L-tryptophan 5-hydroxy acid decarboxylase** (**requires **vit B6**!) $\rightarrow$ **5-hydroxy-tryptamine, 5-HT, Serotonin** $\rightarrow$ secretory granules
- Serotonin can be converted into Melatonin (circadian rhythms) in **Pineal gland** $\rightarrow$ **Suprachiasmatic nucleus**, (rich in melatonin receptors) regulates sleep/wake cycles

Ramelteon – prescribed for insomnia, agonist at the melatonin receptors in the suprachiasmatic nucleus, has short t_{1/2} (no long-term effects of drowsiness)

Serotonin Receptors: ****GPCR's except for 5HT2, varied distribution**

- 5HT1
 - o **G_i (inhibitory)** $\rightarrow$ **Ca²⁺ channels & K⁺ channels**
 - o 5HT1A & 5HT1D – auto-receptors, negative feedback to stop neurotransmitters
 - o (5HT1B subtype on vascular smooth muscle $\rightarrow$ vasoconstriction)
- 5HT2
 - o **G_q (IP3/Ca²⁺ pathway)** $\rightarrow$ smooth muscle contraction, platelet release of granules, CNS neurotransmission
 - o 5HT2A & 5HT2C $\rightarrow$ **PLA2** $\rightarrow$ cleaves arachidonic acid $\rightarrow$ inflammatory response
 - Methysergide
 - Antipsychotic drugs
 - LSD
 - Psilocybin
 - Ayahuasca
- 5HT3
 - o **Ligand-gated Na⁺ channel** $\rightarrow$ depolarisation
 - CNS, GI tract, vagal afference
 - Ondansetron
- 5HT4
 - o **G_s (stimulatory)** $\rightarrow$ increase secretions & peristalsis
 - CNS, smooth muscle, GI system
- 5HT5,6
- 5HT7

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Clifford Lane



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Table of Contents Mcneese State University Pharmacology Final Study Guide

1. Understanding the eBook Mcneese State University Pharmacology Final Study Guide
 - The Rise of Digital Reading Mcneese State University Pharmacology Final Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Mcneese State University Pharmacology Final 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 Mcneese State University Pharmacology Final Study Guide
 - User-Friendly Interface

4. Exploring eBook Recommendations from Mcneese State University Pharmacology Final Study Guide
 - Personalized Recommendations
 - Mcneese State University Pharmacology Final Study Guide User Reviews and Ratings
 - Mcneese State University Pharmacology Final Study Guide and Bestseller Lists
5. Accessing Mcneese State University Pharmacology Final Study Guide Free and Paid eBooks
 - Mcneese State University Pharmacology Final Study Guide Public Domain eBooks
 - Mcneese State University Pharmacology Final Study Guide eBook Subscription Services
 - Mcneese State University Pharmacology Final Study Guide Budget-Friendly Options
6. Navigating Mcneese State University Pharmacology Final Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Mcneese State University Pharmacology Final Study Guide Compatibility with Devices
 - Mcneese State University Pharmacology Final Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mcneese State University Pharmacology Final Study Guide
 - Highlighting and Note-Taking Mcneese State University Pharmacology Final Study Guide
 - Interactive Elements Mcneese State University Pharmacology Final Study Guide
8. Staying Engaged with Mcneese State University Pharmacology Final Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mcneese State University Pharmacology Final Study Guide
9. Balancing eBooks and Physical Books Mcneese State University Pharmacology Final Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mcneese State University Pharmacology Final Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mcneese State University Pharmacology Final Study Guide
 - Setting Reading Goals Mcneese State University Pharmacology Final Study Guide
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Mcneese State University Pharmacology Final Study Guide
 - Fact-Checking eBook Content of Mcneese State University Pharmacology Final 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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