

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES



Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Approved by Pharmacy Council of India, New Delhi.
Coimbatore -641035

COURSE NAME : PHARMACOGNOSY

D.PHARM/ I YEAR

TOPIC 2 : MORPHOLOGICAL AND PHARMACOLOGICAL CLASSIFICATION

DESIGN THINKING STAGES IN CLASSIFICATION

Empathize: Understand the users — in this case, students, pharmacists, or researchers who use the alphabetical classification system.

Define: Clearly define the problem based on the insights from the empathize stage.

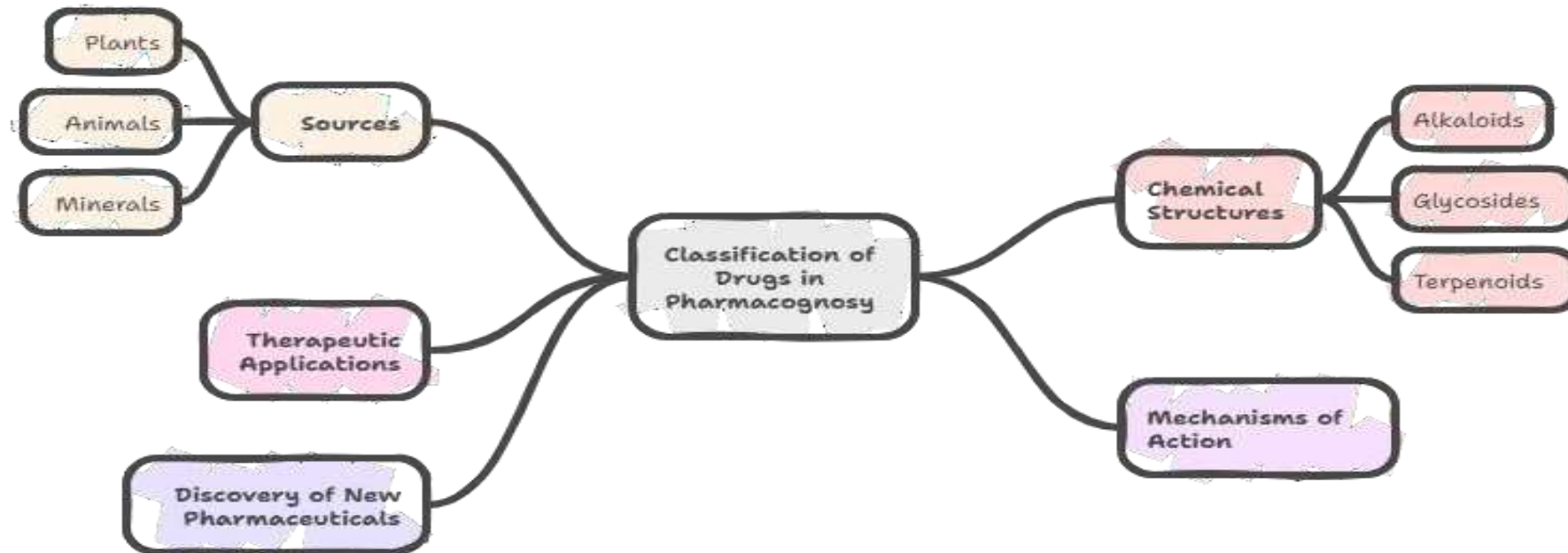
Ideate: Generate possible solutions or improvements.

Prototype: Create a tangible version of your solution

Test: Evaluate the prototype with real users.

MINDMAP

Classification of Drugs in Pharmacognosy

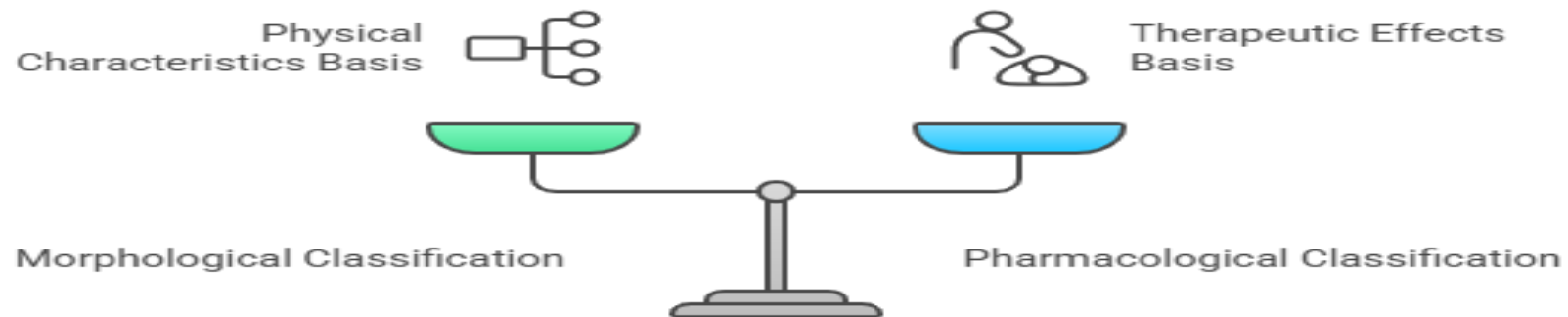


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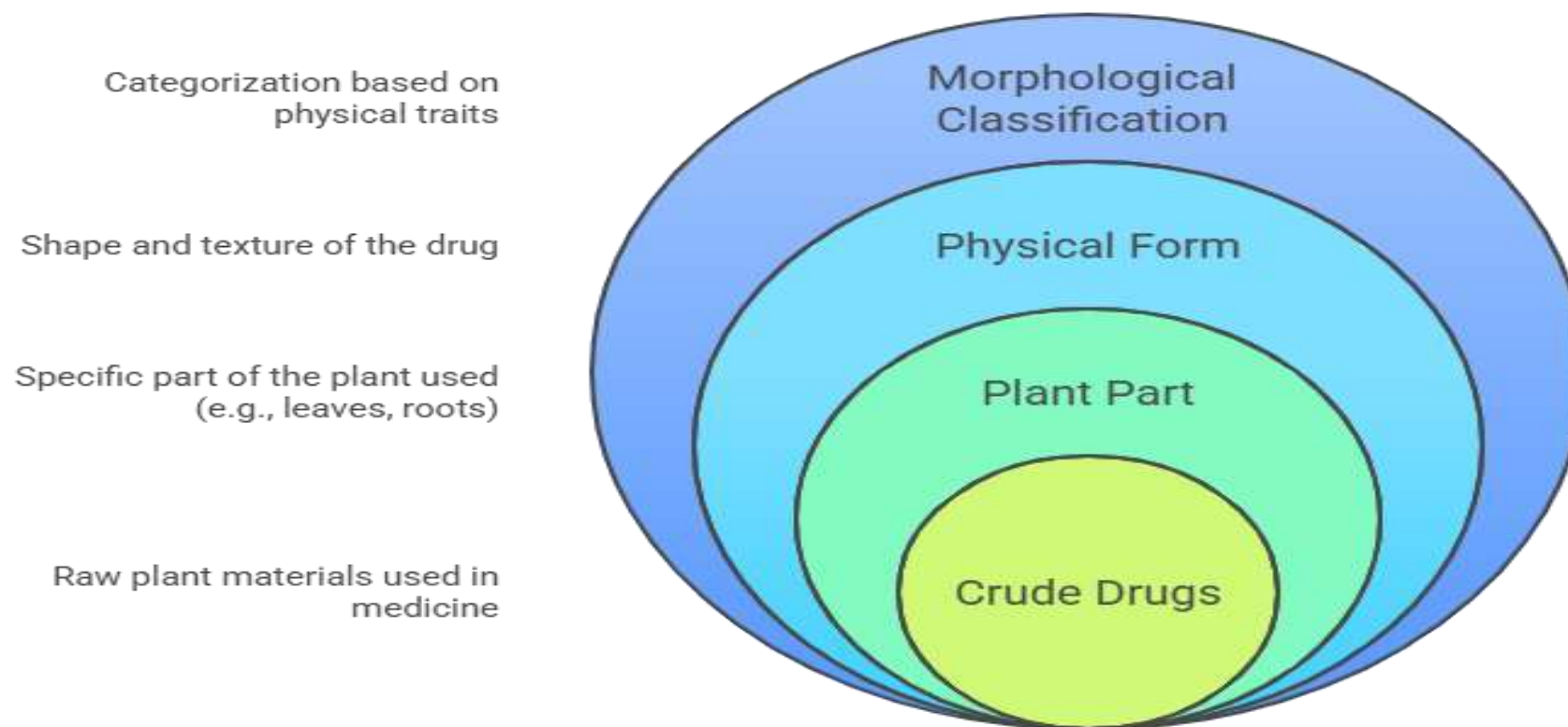
INTRODUCTION

Compare drug classification methods in pharmacognosy.



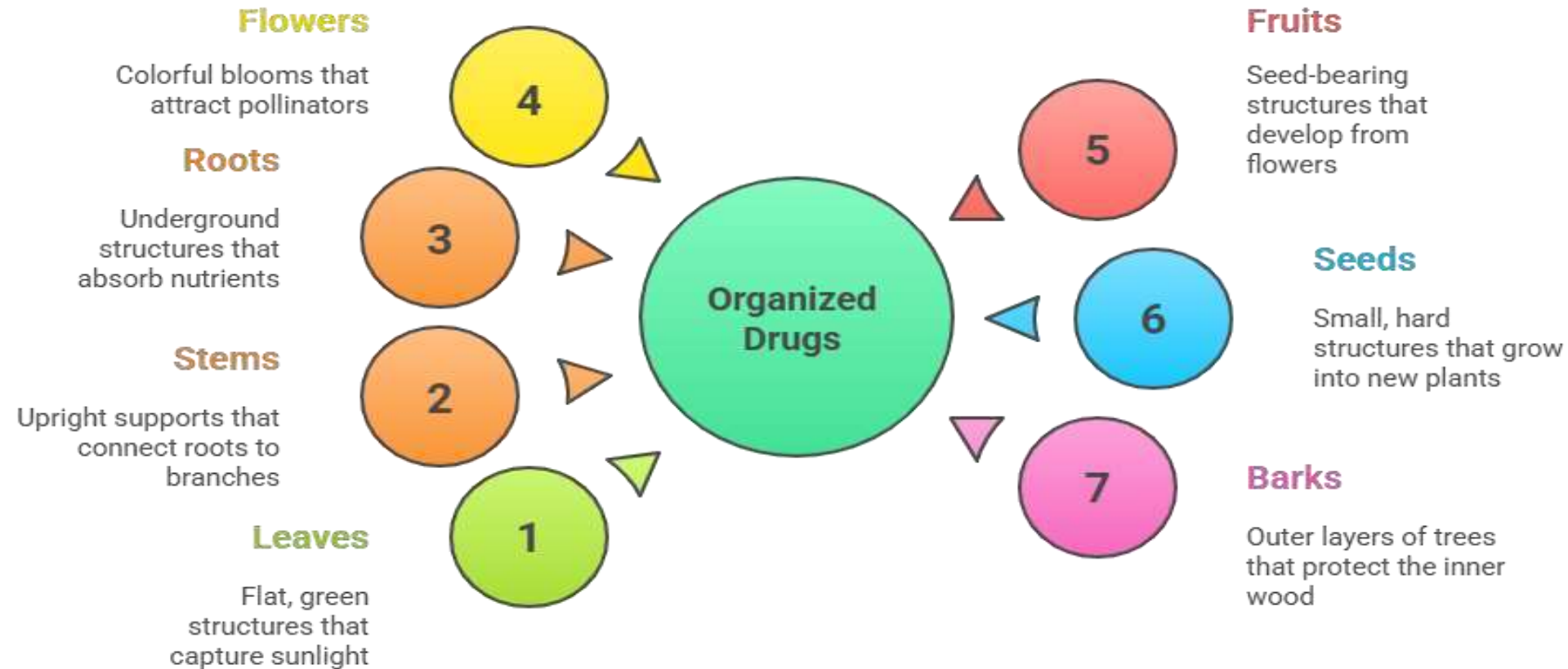
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Morphological Drug Classification



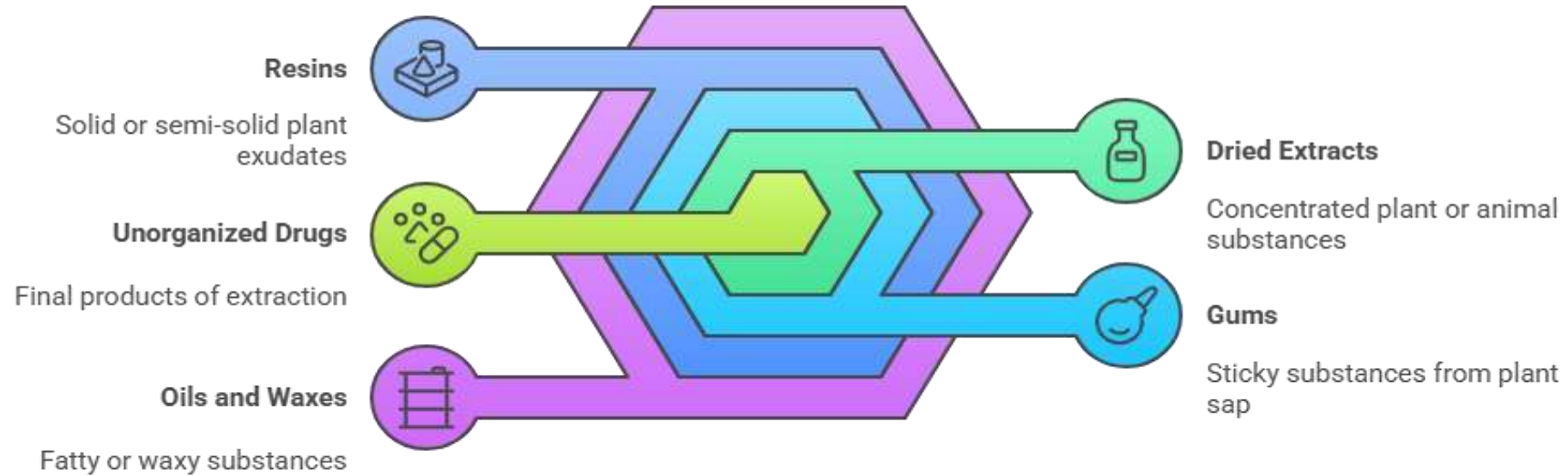
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Components of Organized Drugs



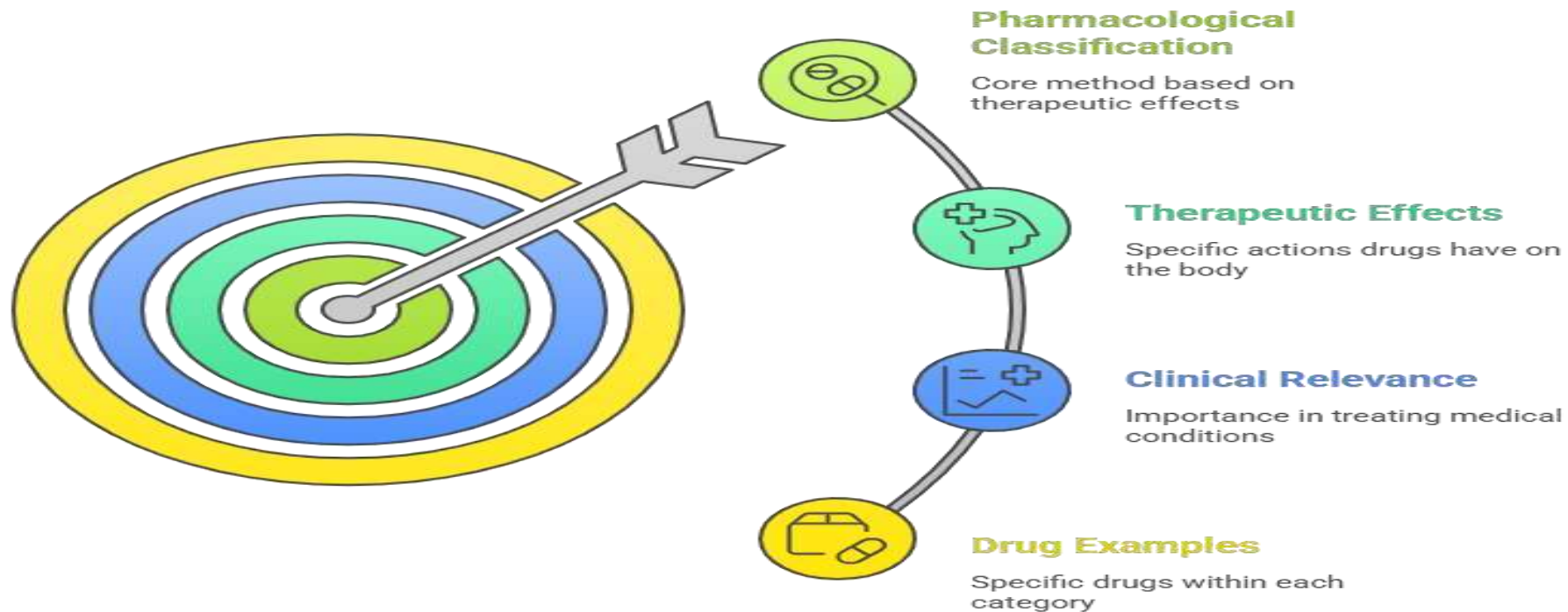
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Unorganized Drugs Composition



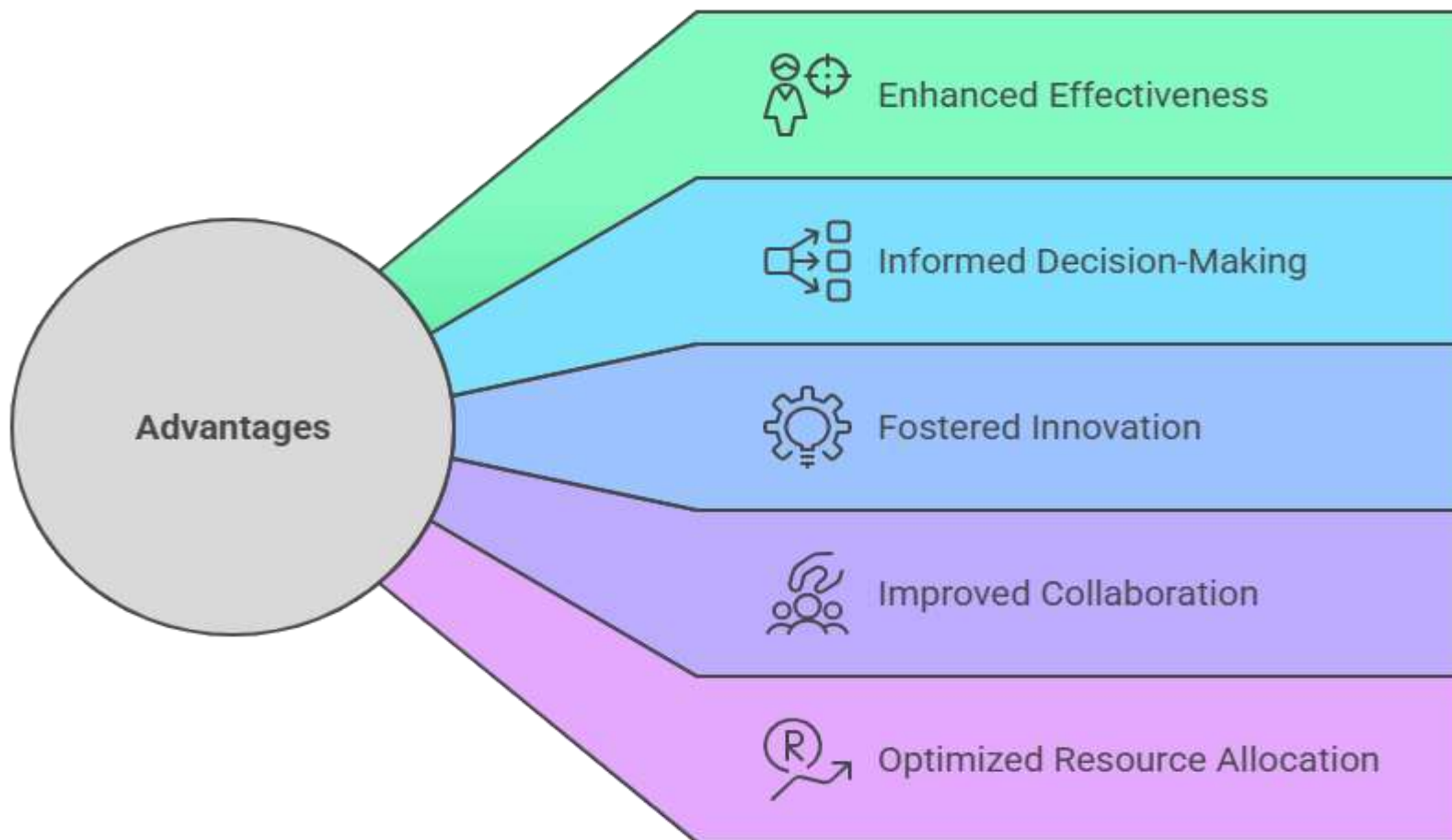
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Pharmacological Drug Classification



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Unveiling the Multifaceted Benefits of Advantages



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Limitations of Morphological Classification

Does Not Account Chemotypes

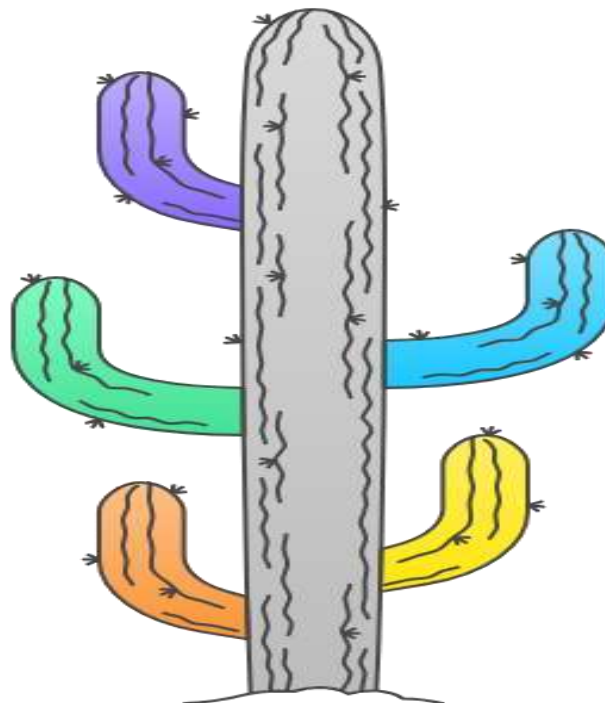
Inconsistencies in pharmacological activity

Subjectivity in Identification

Leads to inaccurate categorization

Limited Correlation

Variations in chemical composition



Lack of Pharmacological Info

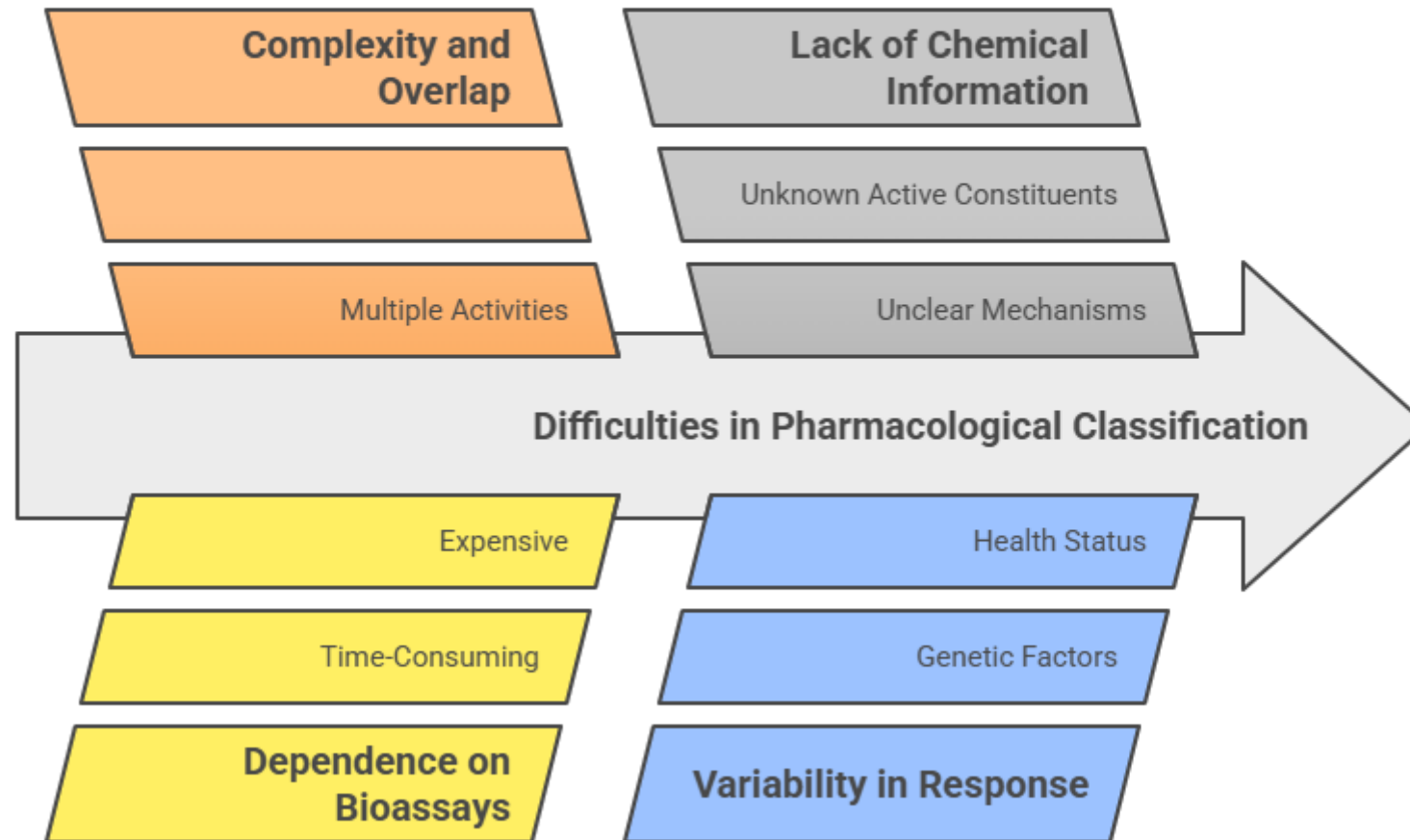
Requires further therapeutic investigation

Focus on Plant Part

Ignores active therapeutic constituent

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Challenges in Pharmacological Classification of Drugs



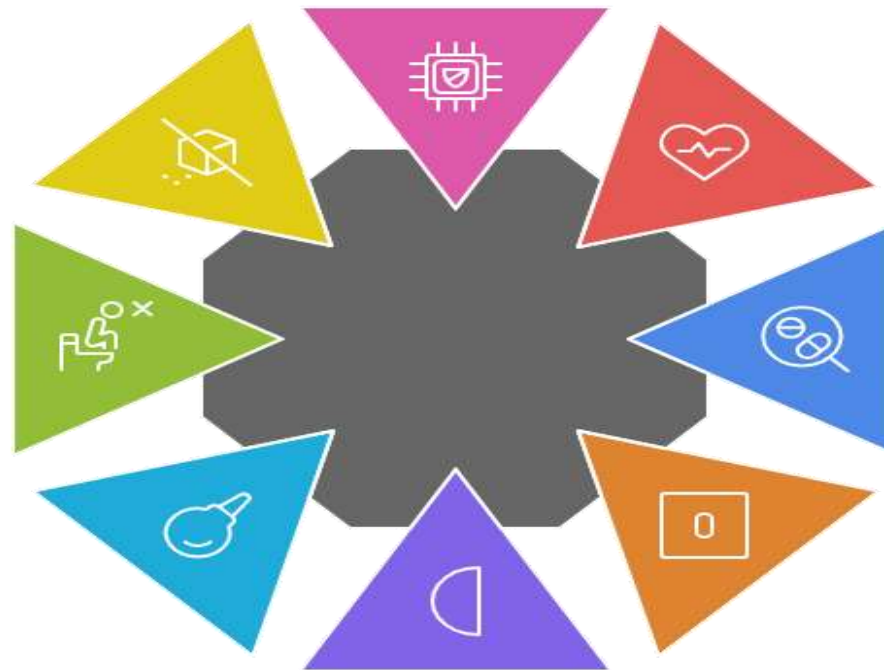
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Morphological Classification of Drugs



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Pharmacological Classification of Drugs



- ▶ **Cardiotonics**
Drugs that strengthen the heart
- ▶ **Antihypertensives**
Drugs that lower blood pressure
- ▶ **Analgesics**
Drugs that relieve pain
- ▶ **Sedatives**
Drugs that calm or induce sleep
- ▶ **Laxatives**
Drugs that promote bowel movements
- ▶ **Antidiarrheals**
Drugs that stop diarrhea
- ▶ **Antidiabetics**
Drugs that control blood sugar
- ▶ **Antimicrobials**
Drugs that fight infections

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IMPORTANCE AND FUTURE



Unlocking Natural Drug Knowledge Through Dual Classification

Morphological Classification

Organizes drugs by physical form



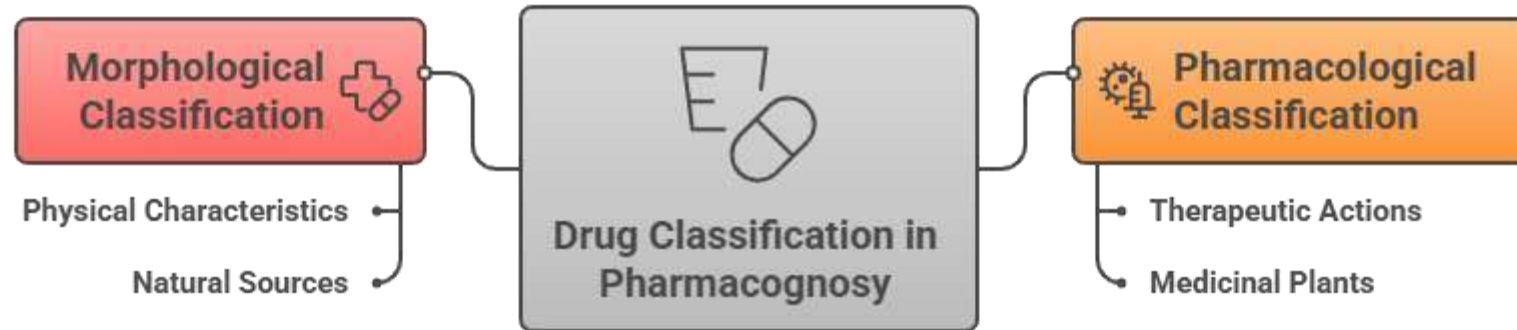
Pharmacological Classification

Groups drugs by therapeutic action

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SUMMARY

Drug Classification in Pharmacognosy



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ASSESSMENT

Which classification method is most suitable for understanding drug properties?



Morphological Classification

Simple, based on physical characteristics



Pharmacological Classification

Complex, based on therapeutic effects

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1. Morphological classification of crude drugs is based on:



- a)Therapeutic use
- b)Chemical nature of constituents
- c)Plant part used
- d)Alphabetical order

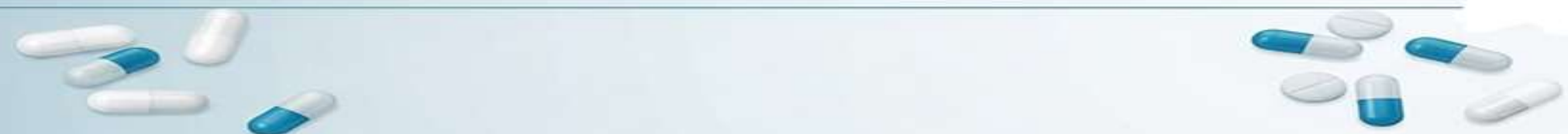
ASSESSMENTS

3. Which of the following is an example of a leaf drug?



REFERENCES

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2. Pharmacognosy – Varro E. Tyler, Lynn R. Brady, James E. Robbers
3. Textbook of Pharmacognosy and Phytochemistry – Biren Shah, Avinash Seth
4. Practical Pharmacognosy – C.K. Kokate
5. World Health Organization (WHO) – Traditional Medicine
6. National Center for Complementary and Integrative Health (NCCIH)
7. Pharmacognosy Reviews (phcogrev.com)
8. ScienceDirect – Pharmacognosy Topics
9. ResearchGate – Pharmacognosy Publications



Thank You

