

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 4 :

SCOPE AND EVALUATION OF PHARMACOGNOSY

Design Thinking in Pharmacognosy

1. Empathize

Understand the challenges in studying and applying natural compounds like alkaloids, terpenoids, glycosides, volatile oils, tannins, and resins.

2. Define

Synthesize insights to define core issues, such as standardizing isolation protocols.

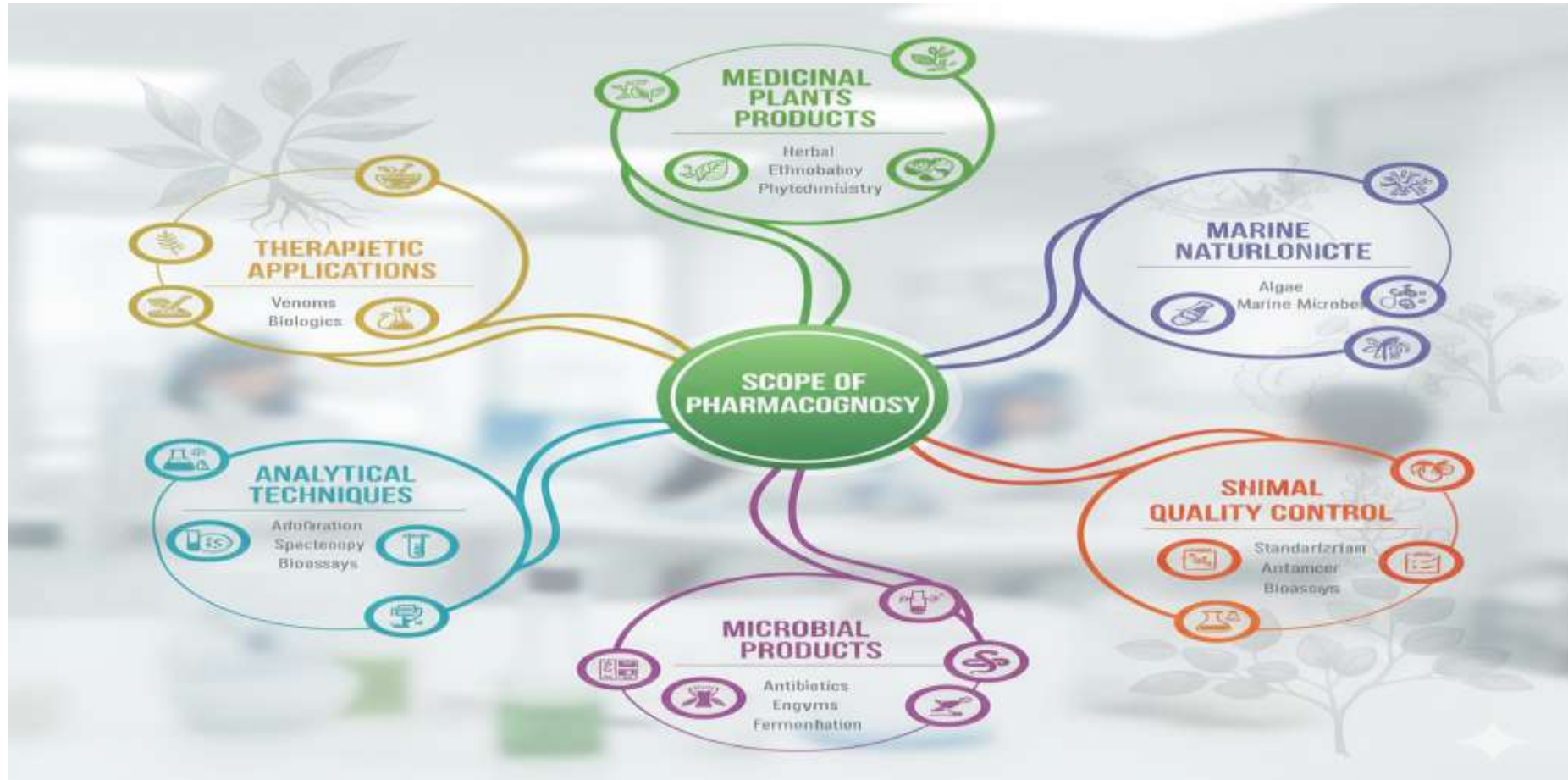
3. Ideate

Brainstorm innovative solutions, such as advanced extraction methods, biotechnological production, and novel therapeutic applications for these natural compounds.

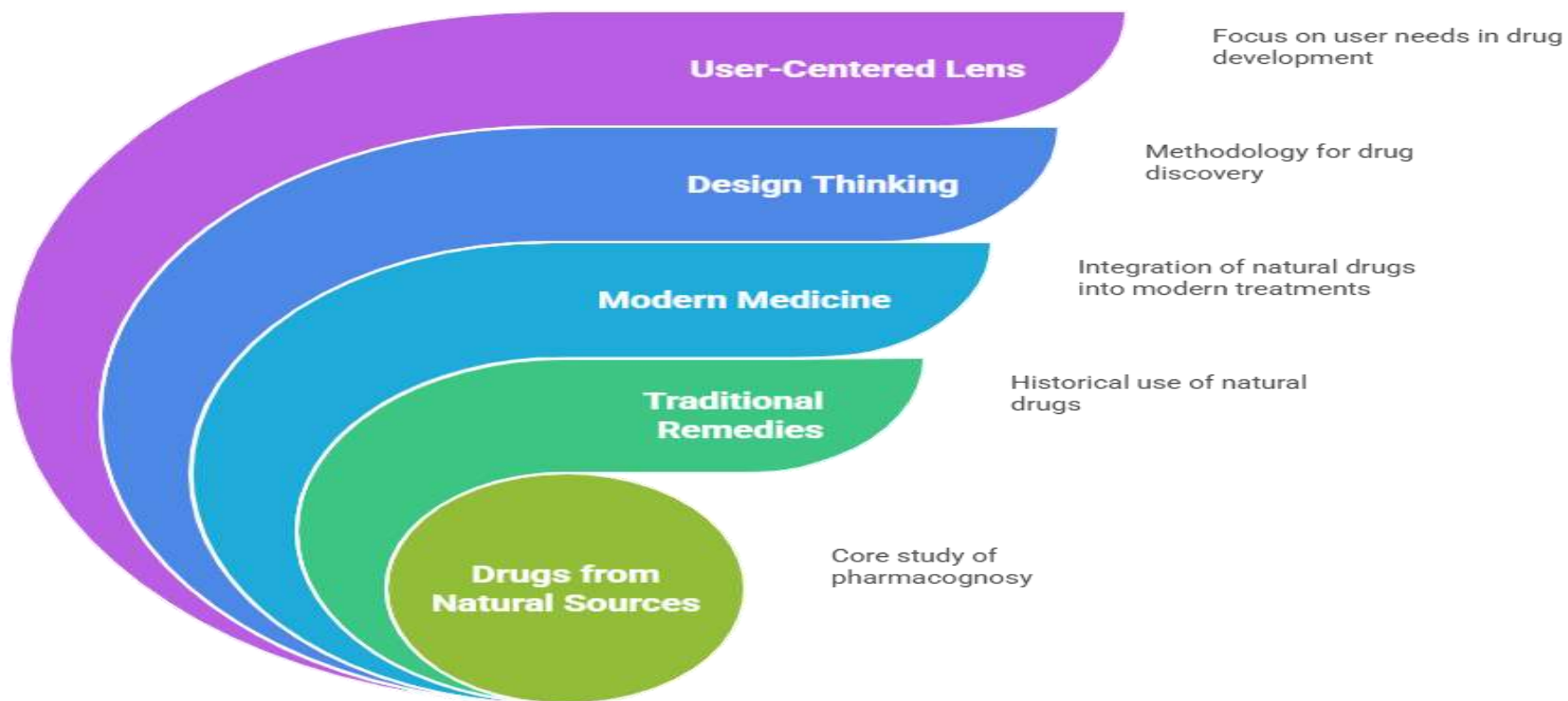
4. Prototype

Develop models for testing and evaluating these compounds, including analytical techniques for identification and formulations for therapeutic use.

MINDMAP

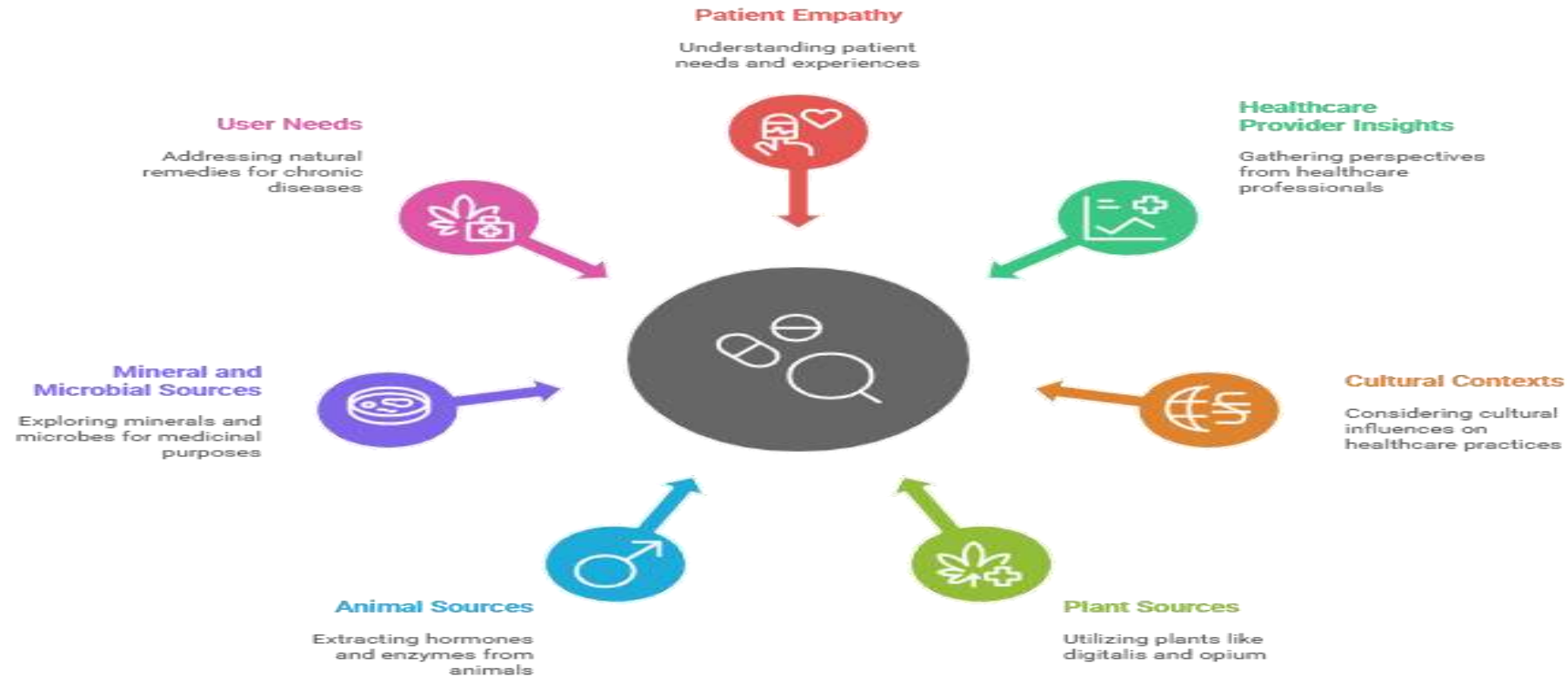


Pharmacognosy Study



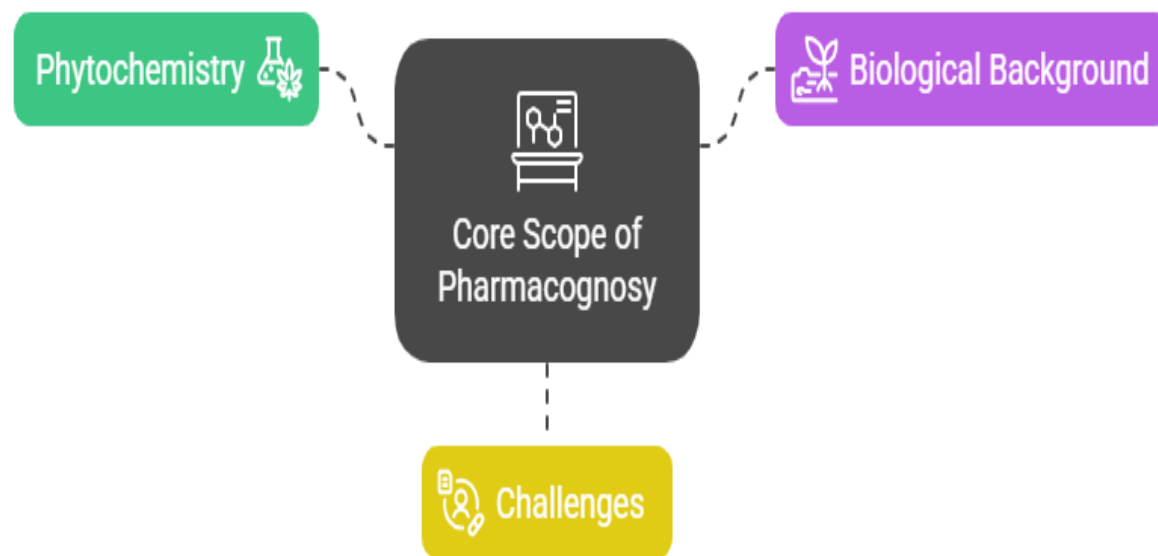
Made with  Napkin

Understanding Pharmacognosy



Made with  Napkin

Core Scope of Pharmacognosy



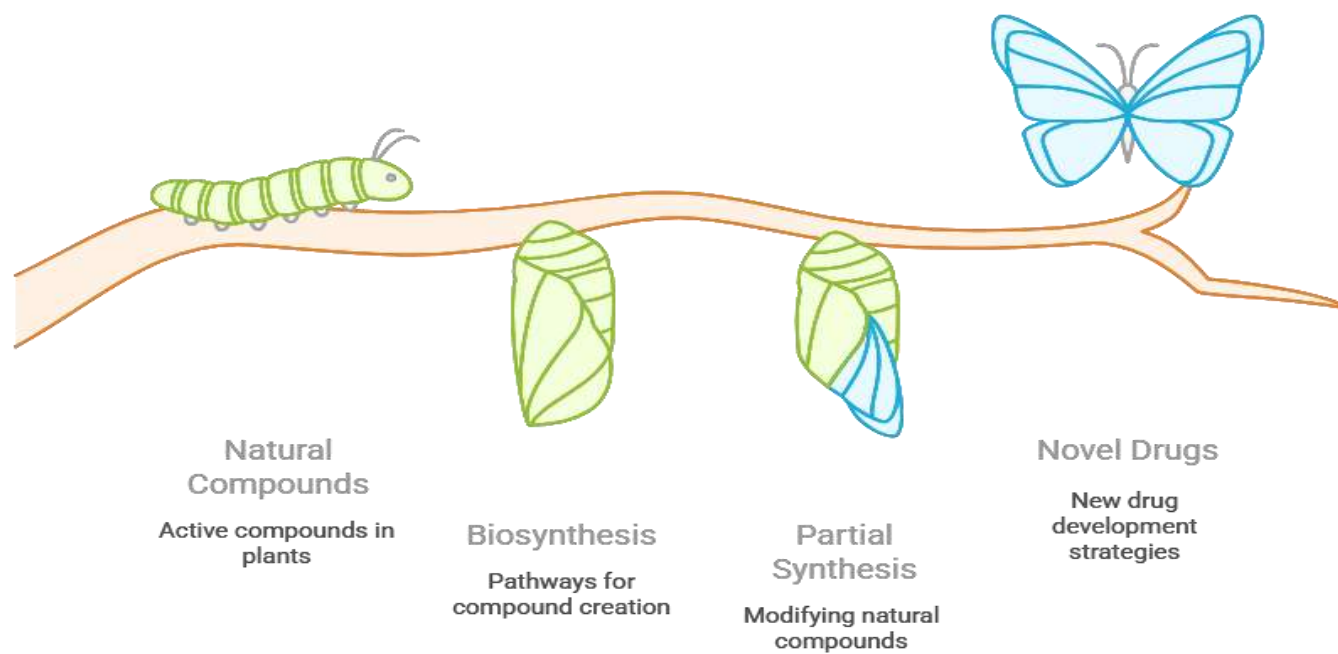
Made with  Napkin

Responsible Cultivation: Where Quality Meets Sustainability



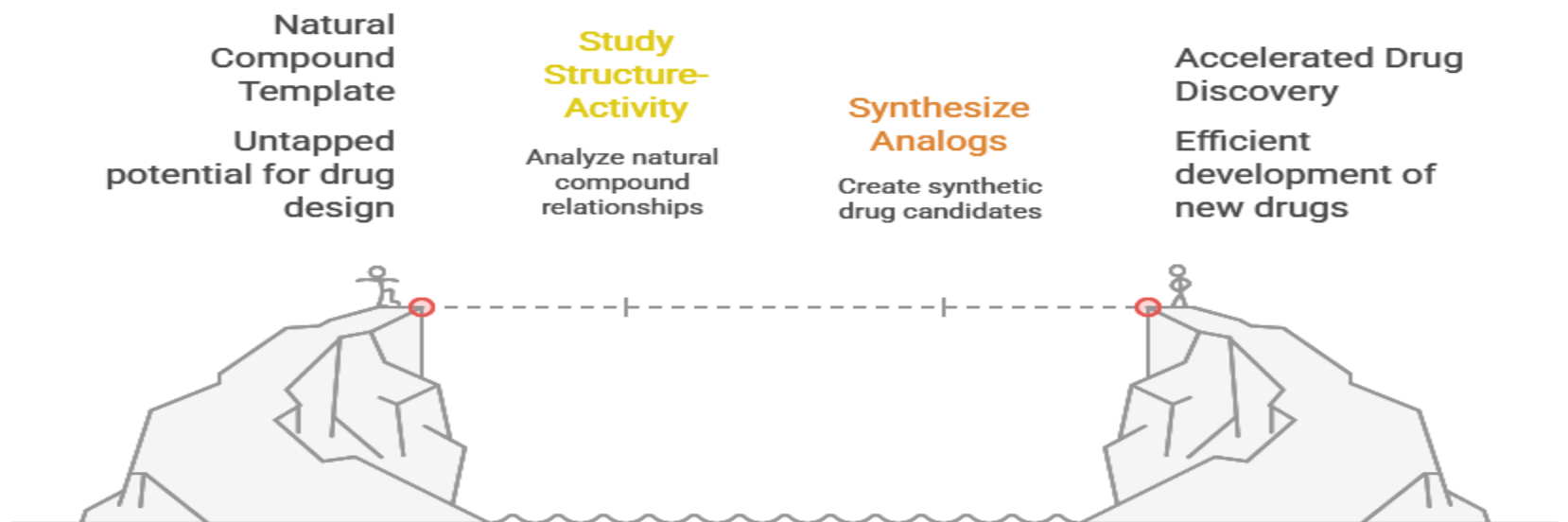
Made with  Napkin

Biosynthetic Pathways to Drugs



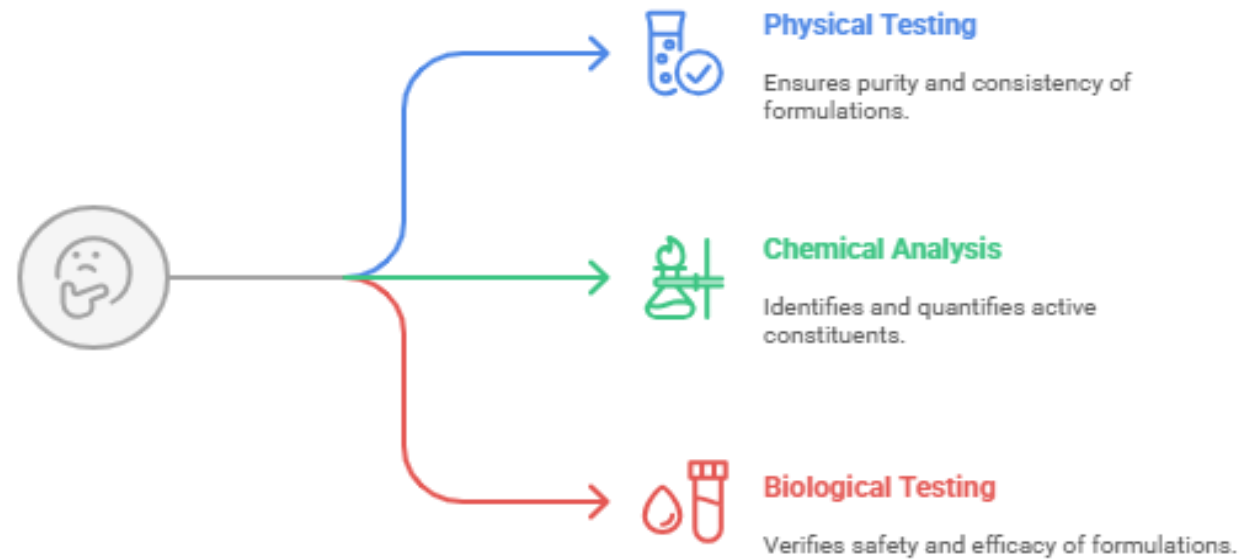
Made with  Napkin

Natural Compounds to Synthetic Drugs



Made with  Napkin

How to ensure quality and efficacy of herbal formulations?



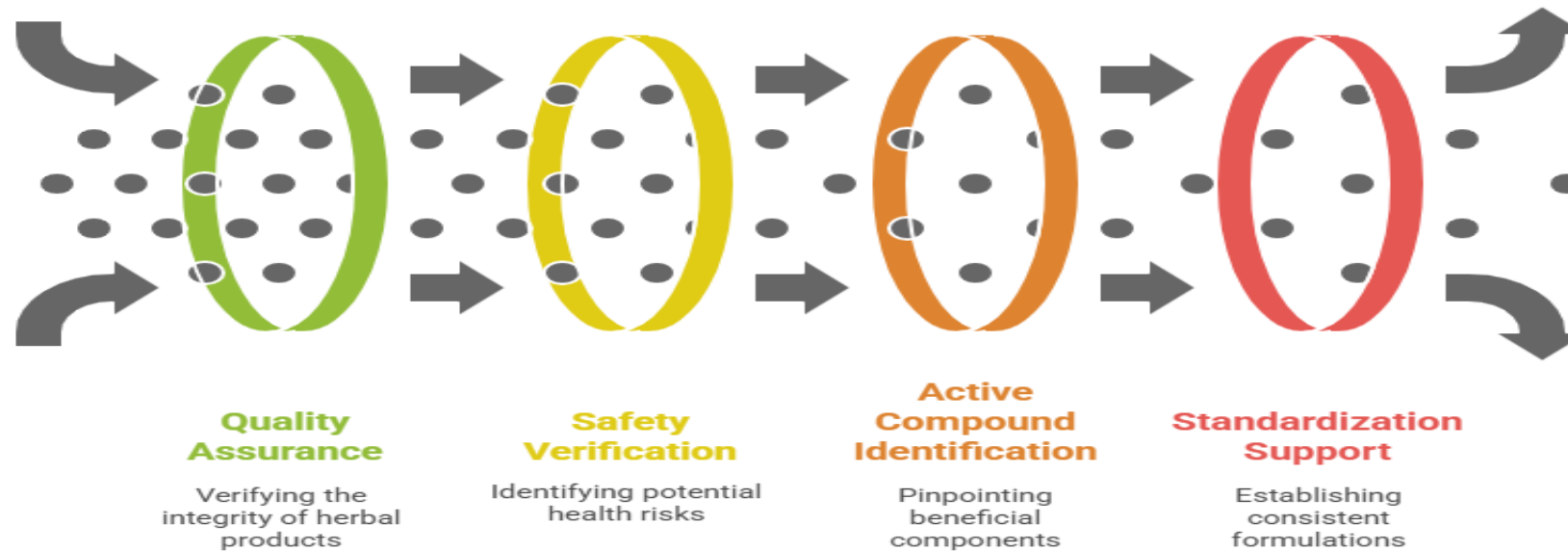
Made with  Napkin

How to evaluate crude drugs?



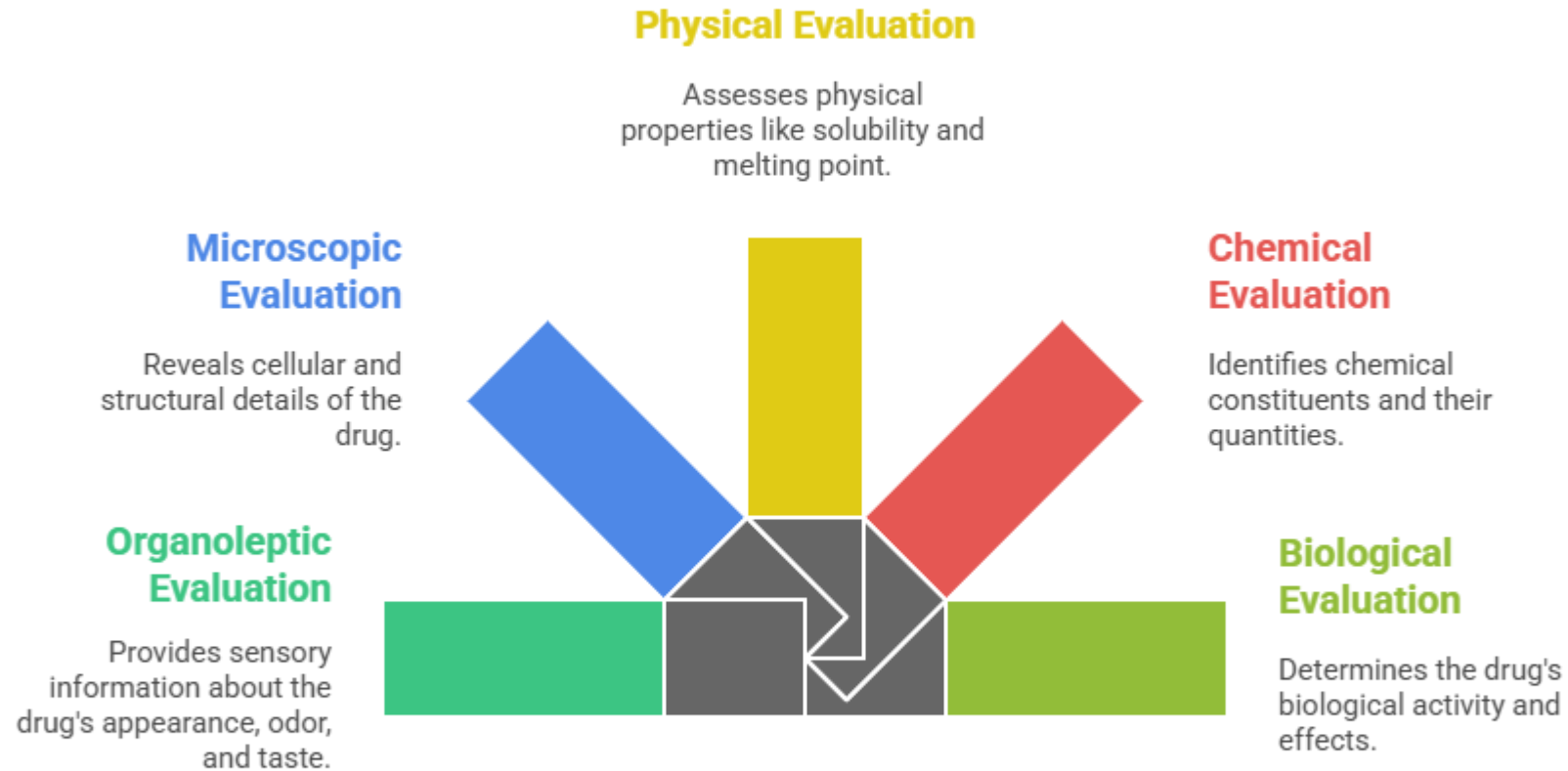
Made with  Napkin

Ensuring Quality and Safety of Crude Drugs

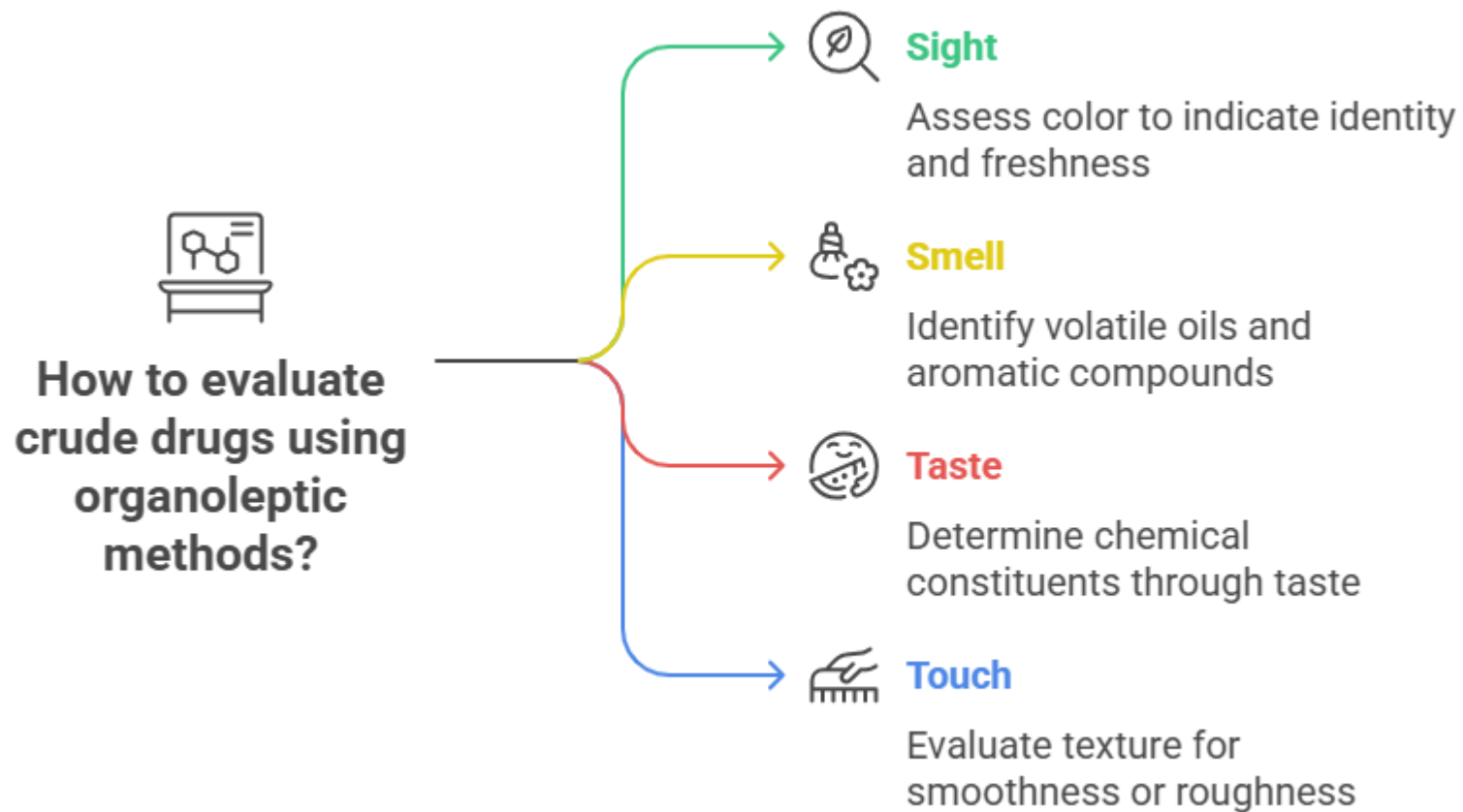


Made with  Napkin

Which method should be used for crude drug evaluation?

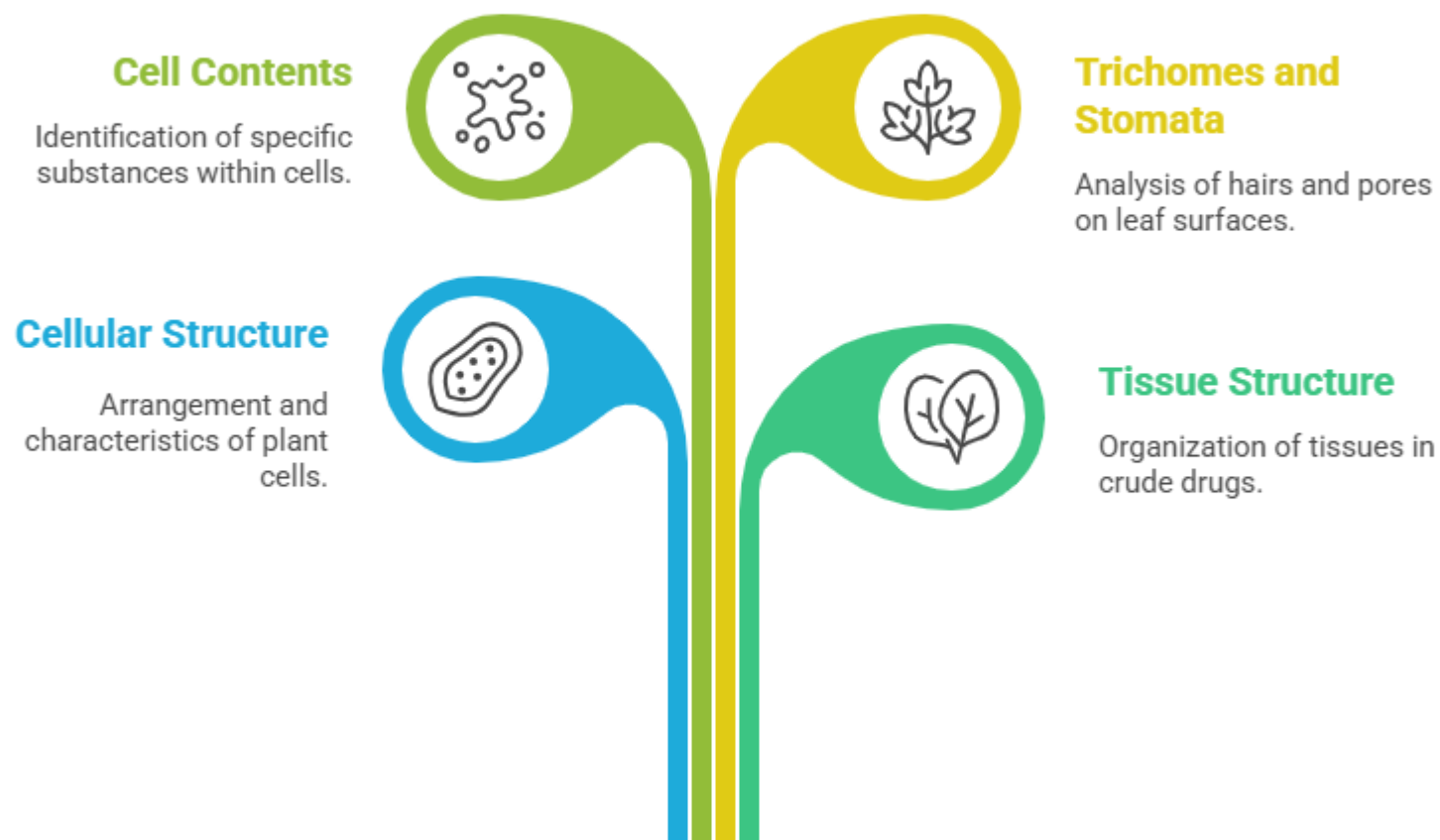


Made with  Napkin



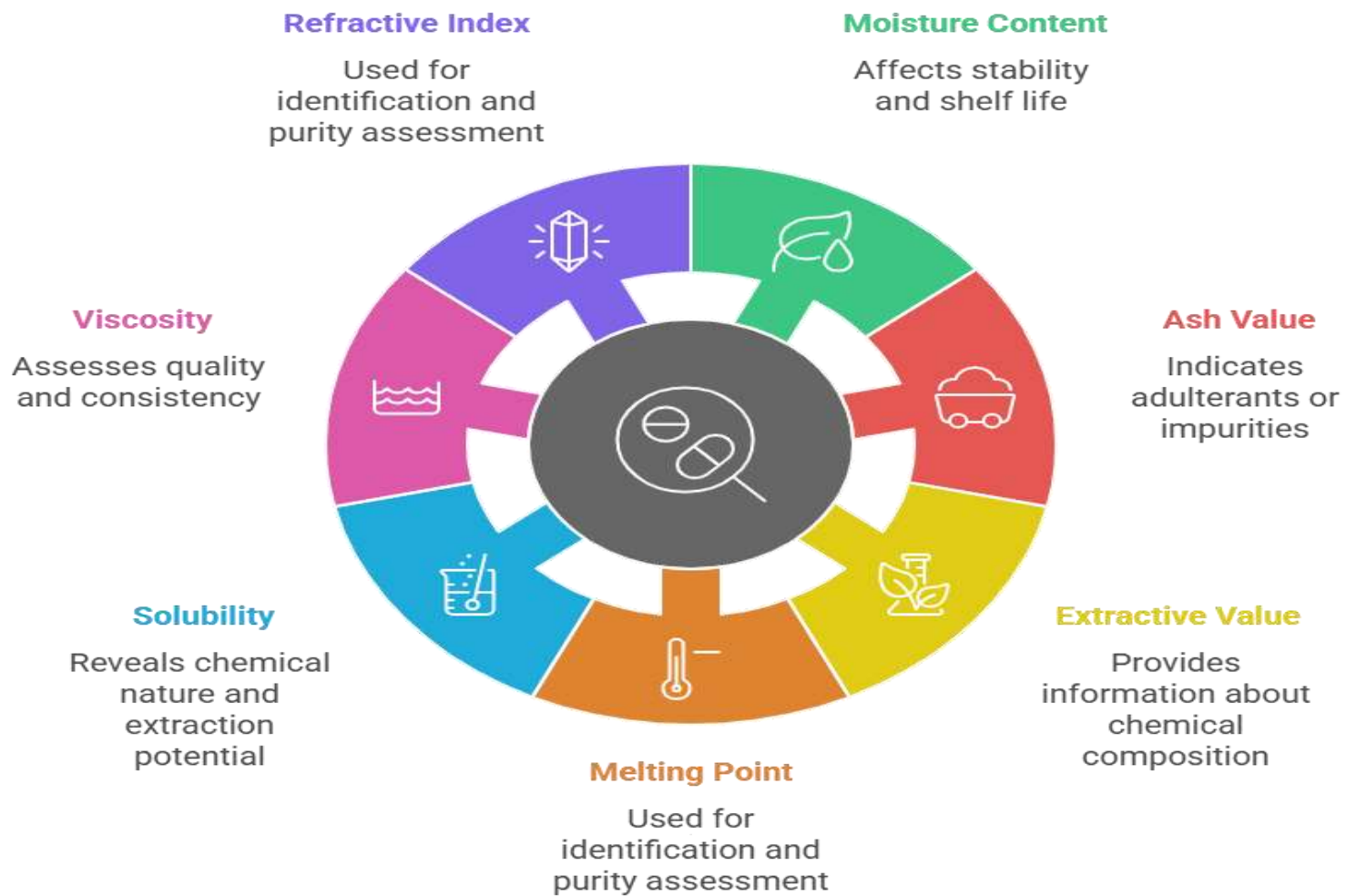
Made with  Napkin

Exploring Microscopic Features of Crude Drugs



Made with  Napkin

Physical Evaluation of Crude Drugs



Made with Napkin

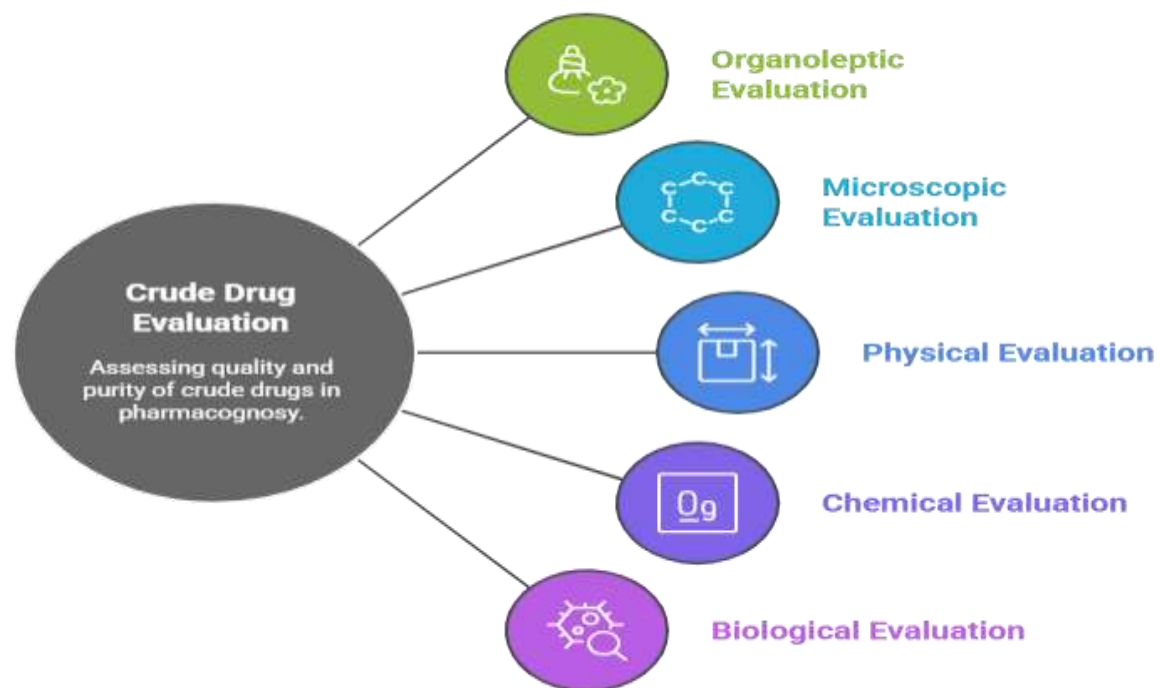
Chemical Evaluation Techniques



Made with  Napkin

SUMMARY

Unveiling the Dimensions of Crude Drug Evaluation



Made with Napkin



ASSESSMENT

1. What is the primary definition of pharmacognosy?



2. Which of the following best describes the relevance of pharmacognosy?

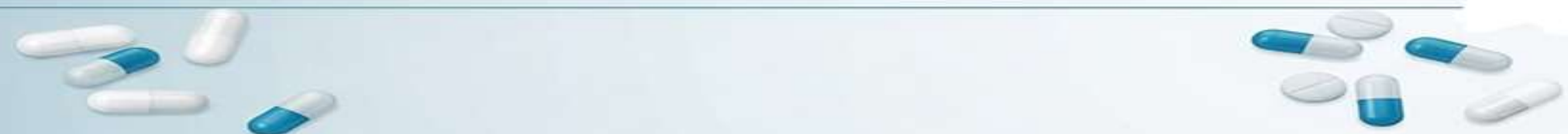


3. Which is NOT listed as a source of crude drugs?



REFERENCES

- Trease and Evans Pharmacognosy by WC Evans.
- Textbook of Pharmacognosy by CK Kokate.
- <https://en.wikipedia.org/wiki/Pharmacognosy>
- <https://www.slideshare.net/slideshow/introduction-history-scope-and-present-status-of-pharmacognosypptx/263669985>
- <https://www.pharmacognosy.us/what-is-pharmacognosy/>



Thank You

