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

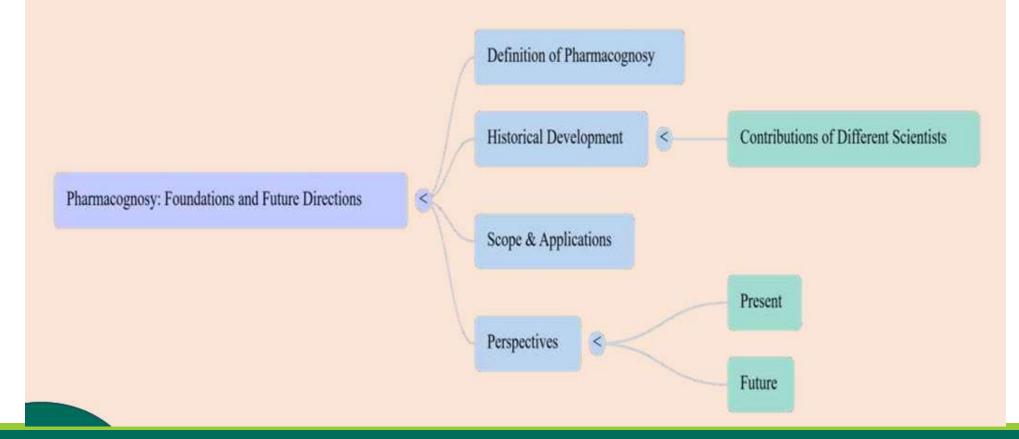
D.PHARM/ I YEAR

TOPIC 1: HISTORY AND SCOPE OF PHARMACOGNOSY



MINDMAP

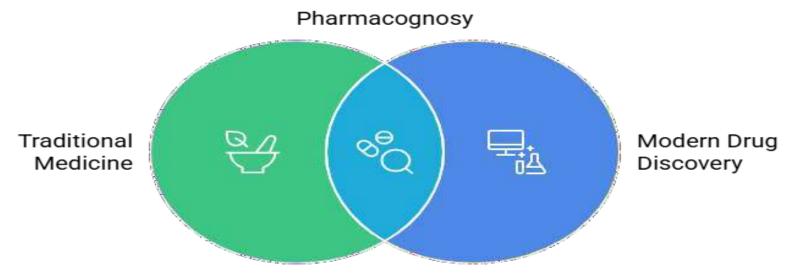
SCOPE AND PRESENT STATUS OF PHARMACOGNOSY





INTRODUCTION

Where Traditional Knowledge Meets Modern Science



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DIMENSIONS OF PHARMACOGNOSY

Unveiling the Dimensions of Pharmacognosy





Characterizing chemical properties of natural products.

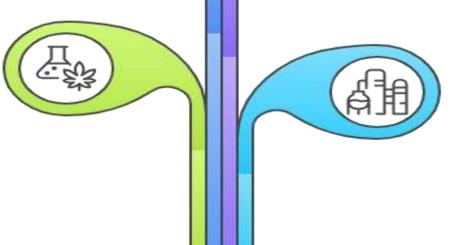


Biological Activity Evaluation

Evaluating medicinal effects of natural compounds.

Identification

Identifying medicinal compounds from natural sources.



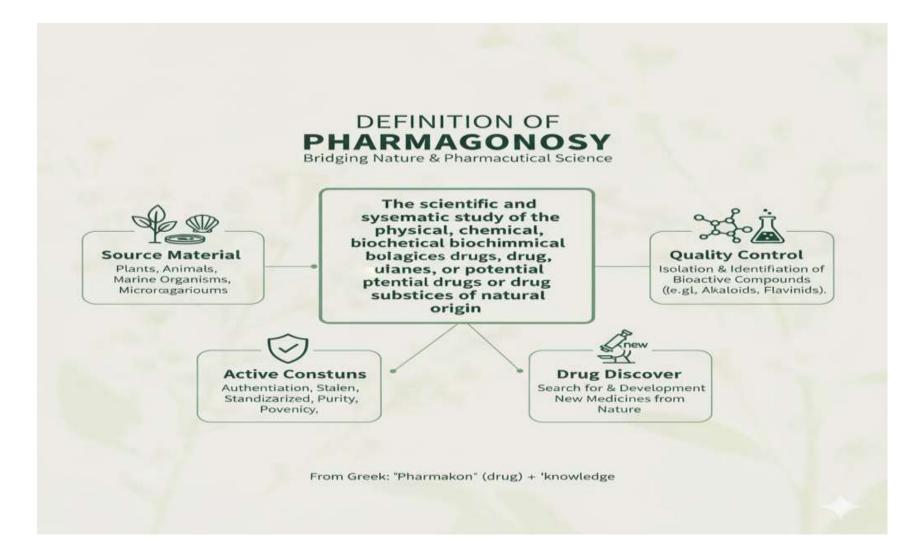
Isolation

Isolating specific medicinal compounds from plants.

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DEFINITION



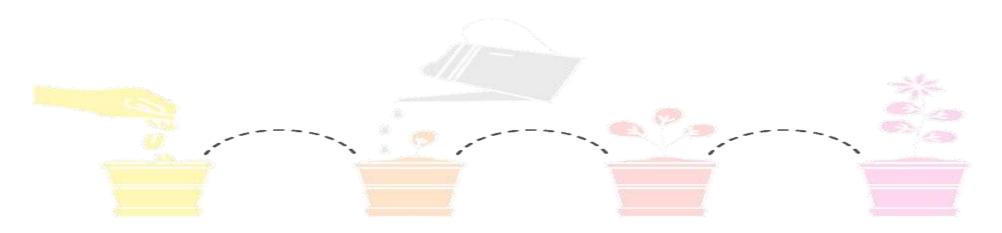


EVOLUTION



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Evolution of Pharmacognosy



Ancient Medicine

Traditional remedies and natural sources

Early Science

Initial
classification
and
extraction
methods

Modern Integration

Incorporation of technology and disciplines

Contemporary Role

Drug discovery and healthcare solutions

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HISTORY

Evolution of Pharmacognosy



Ancient Practices

Traditional use of medicinal plants



Early Documentation

Recording knowledge of medicinal plants



Medieval Contributions

Building on ancient knowledge



Modern Advancements

Scientific and technological progress



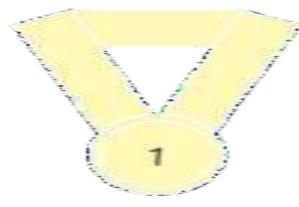
Contemporary Science

Advanced study of medicinal plants

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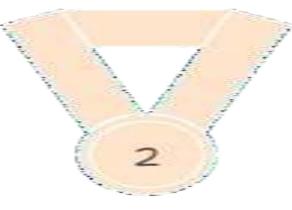


Ancient Medicinal Practices



Egypt

The Ebers
Papyrus
documents
numerous
medicinal
plants and
their uses.



China

Traditional
Chinese
Medicine
emphasizes
herbal
remedies and
acupuncture.



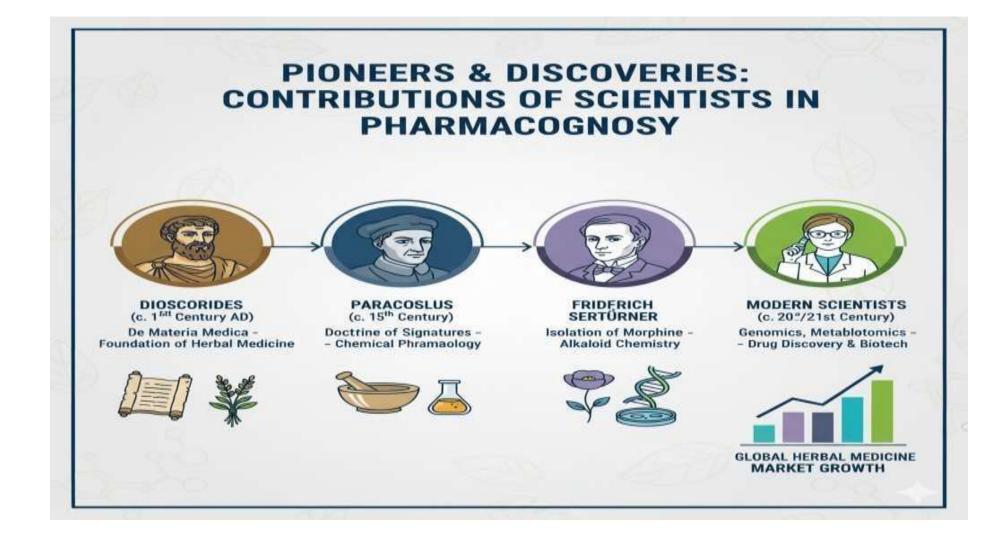
India

Ayurveda relies heavily on plantbased drugs for healing.

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CONTRIBUTIONS OF SCIENTISTS







Ancient Herbal Wisdom



Dioscorides' "De Materia Medica

Comprehensive encyclopedia of medicinal plants for 1500 years.



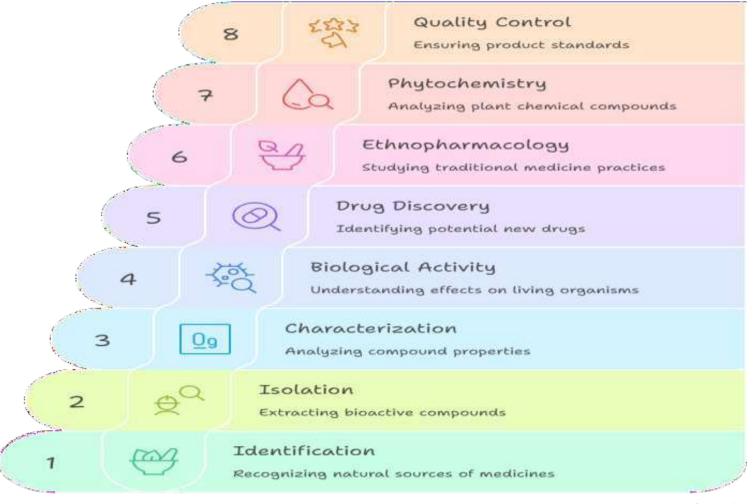
Galen's Herbal Remedies

Significant contributions to pharmacy and herbal remedy preparation.

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Journey Through Pharmacognosy



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RESEARCH AREAS





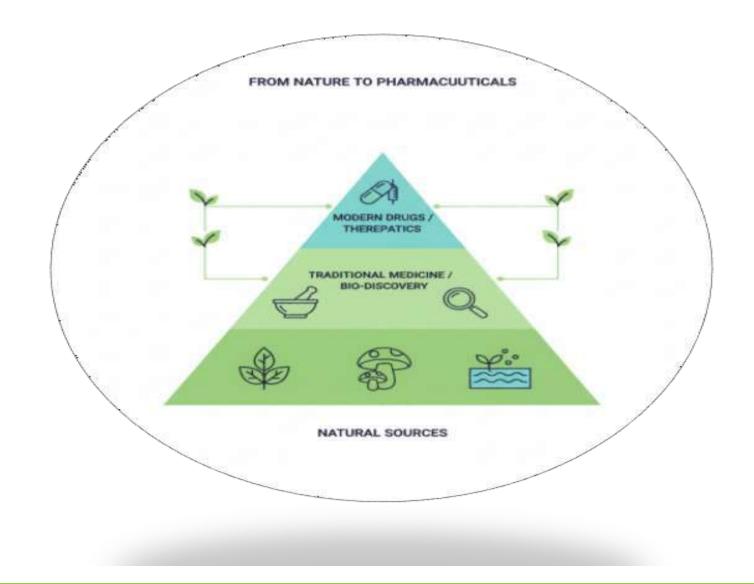
RECENT INNOVATIONS





NATURALS-PHARMACEUTICALS





TECHNOLOGICAL ADVANCES





IMPORTANCE AND FUTURE





SUMMARY



INTRODUCTION TO **PHARMACOGNOSY**

BRIDGING NATURE & MEDICINE

WHAT IS PHARMCOGGNOSY



Identification:

Recognzing Medicinal Plants Natural Sources



Cultivation & Collection:

Growing & Harvesting Natural Sources



Chemical Constituents:

Isolating Bioactive Compounds Studing Pharmoalogical Effects



Quality Control

Ensuring Purity & Safety

HISTORICAL CONTEXT



Ancient Civilizations: Plant-based healing



19th Century: Sysstemtic study. Morphine, Quinine



Today:

KEY AREAS OF STUDY



Ethnobotany



Phytchoistry





Phytchheistry Marine Pharmcognosy





Modern Drug Discovery Microbbal Pharmcognosy Biochnology

IMPORTANCE AND RELEVANCE TODAY



Drug Discover:

New leads for diseases



Herbal Medicine

Scientific basis for remedies



Sustainable Use Preserving biodrvisity



Quality Control Authenticity & Purity

Salicin Salicin

EXAMPLE

Willow Bark (Acetylsaliyacic Acid)



ASSESMENTS

1.From Where The Ebers Papyrus (1550 BC) for example, describes numerous medicinal plants and their uses





Ancient Medicinal Practices



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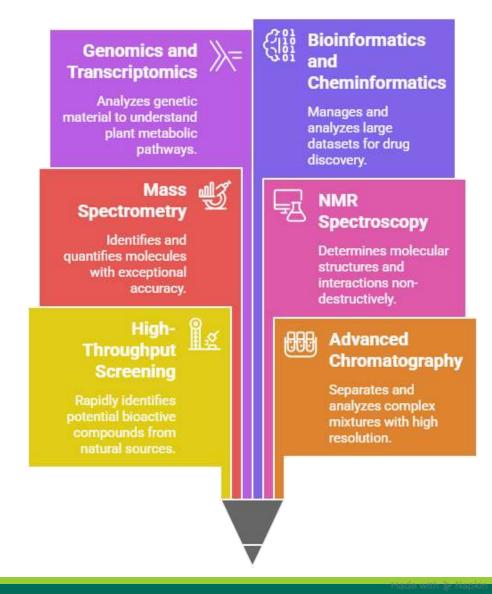
2. Which modern technology is currently enhancing pharmacognosy research?

COGNOSY|HISTORY OF PHARMACOGNOSY|SHARMILA|LECT|SNSCPHS.

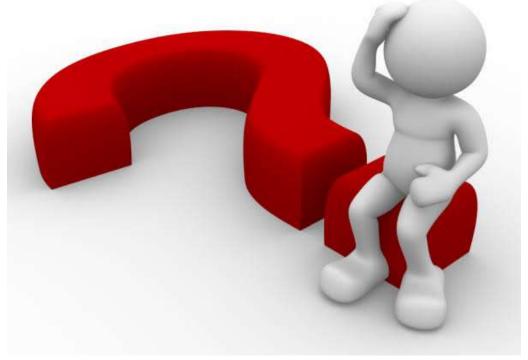


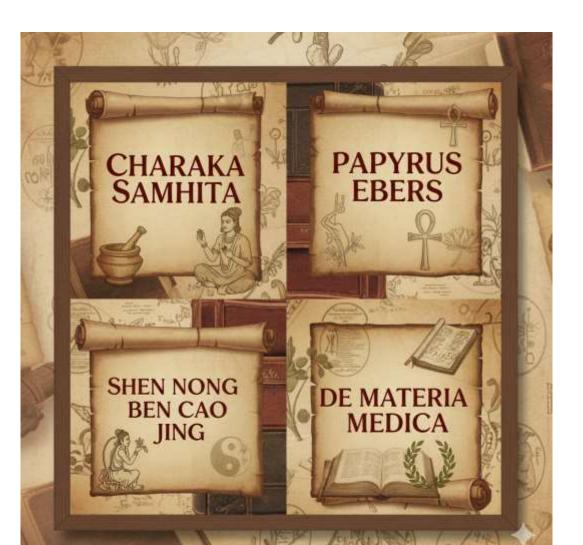
Technologies Transforming Pharmacognosy





3. Which ancient text is associated with the early use of medicinal plants in Egypt?









REFERENCES

Books:

- 1. Textbook of Pharmacognosy C.K. Kokate, A.P. Purohit, S.B. Gokhale
- 2. Trease and Evans Pharmacognosy W.C. Evans
- 3. Pharmacognosy Varro E. Tyler, Lynn R. Brady, James E. Robbers
- 4. Textbook of Pharmacognosy and Phytochemistry Biren Shah, Avinash Seth
- 5. Practical Pharmacognosy C.K. Kokate

Websites:

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- 2. National Center for Complementary and Integrative Health (NCCIH)
- 3. Pharmacognosy Reviews (phcogrev.com)
- 4. ScienceDirect Pharmacognosy Topics
- 5. ResearchGate Pharmacognosy Publications



