# A textbook of human histology

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Histology: An Overview\*\*

# What is Histology?

Histology is the study of human tissues at the microscopic level. It involves examining the structure and function of cells and tissues to understand their role in the human body.

# **Subject of Human Histology**

Human histology encompasses the study of:

- The microscopic structure of all twelve tissues of the human body
- The organization of cells into tissues and organs
- The relationship between tissue structure and function

# **Types of Histology**

There are four main types of histology:

- **General histology:** Studies the structure of tissues in general.
- **Special histology:** Focuses on specific tissues or organs.
- Comparative histology: Compares the tissues of different species.
- Pathological histology: Examines tissues affected by diseases.

# Who is the Father of Histology?

Marcello Malpighi, an Italian anatomist and physician, is considered the father of old histology.

# **Latest Edition of Inderbir Singh Histology**

The latest edition of Inderbir Singh Histology is the 15th edition, published in 2022.

#### **Latest Edition of TNM Classification**

The latest edition of the TNM classification is the 9th edition, published in 2018.

#### **How to Master Histology**

Mastering histology involves:

- Studying textbooks and atlases
- Observing microscopic slides
- Attending lectures and practical sessions
- Reviewing material regularly
- Practicing self-assessment

# **Difference Between Histology and Histopathology**

Histology focuses on the normal structure of tissues, while histopathology examines tissues affected by diseases.

# Is Histology the Same as Biopsy?

No, a biopsy is a procedure that involves removing a small sample of tissue for examination under a microscope, whereas histology is the study of tissue structure.

#### Is Histology the Same as Anatomy?

Histology is a branch of anatomy that focuses on the microscopic structure of tissues, while anatomy studies the structure of the entire body.

#### Why Study Histology?

Studying histology provides a foundation for understanding:

Disease processes

- Diagnostic pathology
- Tissue transplantation
- Drug action
- Developmental biology

# Who Named Histology?

Karl Wilhelm von Nägeli coined the term "histology" in 1858.

# Who Published the First Textbook of Histology?

Franz Leydig published the first textbook of histology in 1857.

#### **Father of Cytology**

Theodor Schwann is considered the father of cytology, the study of cells.

#### Meaning of N in TNM

N in TNM staging refers to the extent of lymph node involvement.

#### Meaning of T4 N2 M0

T4 N2 M0 indicates a tumor that has spread locally (T4), has spread to regional lymph nodes (N2), but has not spread to distant sites (M0).

#### **Latest Edition of Brunner and Suddarth**

The latest edition of Brunner and Suddarth's Textbook of Medical-Surgical Nursing is the 15th edition, published in 2022.

#### **Latest Edition of BRS Pathology**

The latest edition of BRS Pathology is the 7th edition, published in 2022.

#### Latest Edition of Ananthanarayan Microbiology

The latest edition of Ananthanarayan and Paniker's Textbook of Microbiology is the 10th edition, published in 2017.

# Latest Edition of Junqueira's Basic Histology

The latest edition of Junqueira's Basic Histology: Text and Atlas is the 15th edition, published in 2022.

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