

**DEVELOPMENT, HISTORY AND CURRENT STATE OF THE SCIENCE OF
HISTOLOGY**

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Abstract: The study of histology, which is the investigation of tissues at a tiny level, has its beginnings in the seventeenth 100 years with the creation of the magnifying lens. In any case, it was only after the nineteenth century that histology genuinely started to arise and create as an unmistakable field of logical request and clinical application. Throughout recent hundreds of years, histologists have significantly extended how we might interpret tissues and cells through industrious perception and trial and error. In this article, I will investigate the critical advancements throughout the entire existence of histology and examine the present status of the discipline.

Keywords: Development of science, periods, history, modern histology, science and technology.

Introduction: Histology (Greek: histos - tissue, logos - guideline, science) is a science that focuses on the new development, plan and life activities of cells, tissues and organs (organs). It is developing quickly, using the latest achievements of various sciences. Histology is indivisibly associated with various pieces of prescription and science, similar to life frameworks, physiology, natural science, hypochondriac life frameworks. At this point, histology integrates cytology, embryology, general and remarkable histology. Cytology focuses on the development, plan and activity of cells, while embryology (lat. lacking organic entity - pink, creating) focuses on the laws of human and animal improvement.

General histology, or if nothing else, the guideline of tissues, gives a significant comprehension of the development, development, and components of various organ tissues. Private histology focuses on the new development, construction and basic activity of explicit organs of individuals and animals. Focusing on the investigation of histology in such separate courses is required. Since the living being is a whole, and all of its parts are interconnected.

If cells make up tissue, each organ involves a couple of tissue structures. In the examination of histology, the minuscule system is essentially used. The development of the electron amplifying focal point opens a wide strategy for focusing on the fine plan of tissues and organs. The investigation of histology, as various sciences, is furnished with the underpinnings of current perspective and rationalistic authenticity in the examination of real laws of nature.

Underlying review is done according to the perspective of the solidarity of the organic entity, which is naturally associated with the outside climate. The trustworthiness of the still up in the air by the primary position of authority of the apprehensive and endocrine framework together as one of the exercises of all organs and frameworks. Concentrating on the design according to the utilitarian perspective is normal for present day histology.

Histophysiology concentrates on this course in histology, which enlightens the part of the construction of cells, tissues and organs that relies upon their action. The structure and content of design and capability are taken a gander at according to a persuasive point of view. Structure is the material substrate of any movement. For instance, the cerebrum is the material substrate of human reasoning. Assessment of the reliance of the metabolic interaction on underlying components by histochemical techniques permits to reach a logical determination. Presently, the study of histology not just shows the design of cells, tissues and organs, the level of their action,

yet additionally decides the association between the cycles that occurred, uncovers a few regulations.

Broad trial strategies are utilized in this. Significant issues of histology that should be settled: a) the overall laws of the turn of events and separation of human and creature cells, tissues and organs; b) apprehensive and endocrine frameworks that deal with the existence exercises of the designs of the entire organic entity; d) recovery of cells, tissues and organs and the board of this complicated cycle; e) changes in the designs of human organs relying upon age and variation to different circumstances; g) thinks about huge scope perceptions, like concentrating on the impacts of different natural, physical and synthetic variables on cells, tissues and organs, to be his undertaking.

Histology is presently generally utilized in clinical medication. Notwithstanding different clinical techniques, different morphological strategies are significant for cytological and histological determination - the investigation of blood and bone marrow cells, gastrointestinal mucosa, liver, spleen and different organs.

Lately, in clinical practice, morphological and cytological diagnostics have found their spot in the acknowledgment of various changes in the mucous layer of the stomach, nearly nothing and stomach related organ. The ascent of various versatile fiberscopes and their extensive use licenses ideal acknowledgment of various over the top conditions. Seeing spreads taken from the injury shows the presence of granulation tissue cells and creatures in the injury. The use of this methodology expects a huge part in concluding the regenerative state of the injury site, choosing the body's resistance and tending to the injury recovering variables.

The examination of staggering manufactured and genuine cycles occurring in cells shows that histology is directly associated with the investigations of science and actual science. As such, histology, cytology, and embryology are a through and through sensible examination of the morpho-functional conditions of the presence activity of a customary and debilitated human living being, having a critical spot in clinical science.

Right when the drugs are treated with acridine orange, the DNA in the cell is enlightened in green, and the RNA in red. Likewise, the examination of different kinds of radiation helps us with knowing the compound association of plans. Stage contrast microscopy - licenses to decidedly construct the dim white (contrast) of articles and to focus on amazing plans.

In the typical state, normal articles are clear, dull and non-contrast, or if nothing else, the plans absorb the sent light reliably. In an ordinary amplifying focal point, contrast is achieved in light of medication staining. By growing the distinction, different plans ought to be apparent considering the refractive power or thickness of immaculate courses of action. Intrafraction microscopy has a more prominent number of possible results than spatial contrast microscopy. When seen with a collaboration amplifying focal point, different pieces of cells have different tones depending upon their thickness. On the other hand, dependent upon the shade of the plans, considering the thickness of the focused-on plans and find the dry heap of the phones is possible.

Conclusion

In synopsis, the study of histology has developed hugely since its beginnings in the seventeenth hundred years. From the main infinitesimal perceptions of tissues to the present exceptionally modern procedures, histologists have logically uncovered more insights concerning the design and capability of living frameworks at the phone level. Their discoveries support our cutting-

edge comprehension of science and medication. Looking forward, as new advancements arise, histology will probably keep on yielding novel experiences and assume an essential part in biomedical exploration and progress. Its set of experiences shows the way that cautious perception and trial and error can progress logical information across ages of analysts.

References:

1. Boccalini G, Sassoli C, Formigli L, Bani D, and Nistri S (2015) Relaxin safeguards heart muscle cells from hypoxia/reoxygenation injury: association of the Indent 1 pathway. *The FASEB Diary*, 29, 239-249.
2. Byrnes JR, and Wolberg AS (2017) Red platelets in apoplexy. *Blood*, 130, 1795-1799.
3. Dyba M, and Damnation SW (2003) Photostability of a fluorescent marker under beat invigorated state exhaustion through animated emanation. *Applied Optics*, 42, 5123-5129.
4. Eddleman KA, Chervenak FA, George-Siegel P, Migliaccio G, and Migliaccio AR (1996) Coursing hematopoietic foundational microorganism populaces in human embryos: suggestions for fetal quality treatment and modifications with in utero red cell bonding. *Fetal Conclusion and Treatment*, 11, 231-240.
5. Falchi M, Varricchio L, Martelli F, Masiello F, Federici G, Zingariello M, Girelli G, Whitsett C, Petricoin EF third, Moestrup SK, Zeuner A, and Migliaccio AR (2015) Dexamethasone designated straightforwardly to macrophages incites macrophage specialties that advance erythroid development. *Haematologica*, 100, 178-187.
6. Falchi M, Varricchio L, Martelli F, Marra M, Picconi O, Tafuri A, Girelli G, Uversky VN, and Migliaccio AR (2017) The Calreticulin control of human pressure erythropoiesis is disabled by JAK2V617F in polycythemia vera. *Test Hematology*, 50, 53-76.
7. Ferreira R, Wai A, Shimizu R, Gillemans N, Rottier R, von Lindern M, Ohneda K, Grosveld F, Yamamoto M, and Philipsen S (2007) Unique guideline of Gata factor levels is a higher priority than their character. *Blood*, 109, 5481-5490.