

A Short History of Histopathology Technique

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Abstract

The specialty of histopathology technique dates back to 1838, when Johannes Müller published his book, *On the Nature and Structure Characteristics of Cancer*, the first book on histopathology. The first compound microscope had been constructed earlier in 1591 but suffered from severe optical problems. In 1673 Anton van Leeuwenhoek started the development of simple microscopes with single lenses but that gave improved magnification and resolution. The first microtome suitable for sectioning animal tissues was constructed in 1848, with the popular Cambridge Rocker (1885), Minot (1886), and sledge microtomes (1910) manufactured later. Paraffin wax for infiltration and support during sectioning was introduced during the mid-1800s. Different laboratory chemicals were investigated for use as fixatives. Formalin, widely used today, was first used in 1893.

Automated tissue processors replaced hand processing starting in 1945, and cryostats were first manufactured in 1951. Enzyme histochemistry, electron microscopy, and polarizing microscopy all have become diagnostic tools during the last 50 years. The widespread use of immunohistochemistry began in the 1980s has revolutionized cancer diagnosis and is still under development. This article briefly reviews the development of histopathology techniques in the United States and United Kingdom from historical times to present. (*The J Histotechnol* 29:99, 2006)

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Key words: histopathology, histotechnology, history

Introduction

Histotechnologists working in the field of histopathology for many years will have experienced multiple changes during their careers. Within the last 30 years, histotechnologists have seen the introduction of microcomputer-controlled tissue processors, immunohistochemistry (IHC), in situ hybridization, and laboratory information systems. Cryostats were introduced in the 1950s, and the introduction of tissue processors date back to about 1945. There have been many

new techniques introduced since the invention of the microscope in 1591, which enabled scientists to view tissues microscopically for the first time. Many of the techniques used routinely today in histopathology laboratories, such as IHC, polarizing, and fluorescence microscopy, were developed in research laboratories. These techniques have revolutionized the field and aided pathologists in making diagnosis.

This article attempts to briefly review the evolution in histopathology techniques over the years, with the emphasis on histopathology in the United States and the United Kingdom. This writer is indebted to an early book on microtechnique, which is still available as a reprint and is recommended for further reading (1). References, some secondary, are provided for further study.

The birth of histopathology can be credited to Johannes Müller (1801–1858). In 1838, Müller, professor of anatomy, physiology, and pathology at the University of Berlin pioneered the use of the microscope in pathology and published his book, entitled *On the Nature and Structure Characteristics of Cancer*, which was the first book on histopathology (2).

Microscope Development

The excellent microscopes in use today are a result of developments in microscopy dating back to 1591 when Zacharias Jansen made the first compound microscope. Jansen and his father, spectacle makers in Holland, were typical of researchers of that period, gifted amateurs with talent, time, and an interest in what was then a new field of science. These early compound microscopes suffered from spherical and chromatic aberration, low magnification, and could only view specimens with reflected light. The researchers often were more interested in the microscope than the specimen, but it was a beginning (1,3,4).

Microscopes with better resolution were those made starting in 1673 by Anton van Leeuwenhoek (1632–1723). These simple microscopes were very rudimentary by today's standards. They had a metal plate with a small hole, into which was mounted a single small hand ground convex lens. Items to be studied were permanently glued on a spike on one side of the plate. The specimen was viewed through the small lens from the other side. The working distance of specimen to lens was adjusted with a small screw in the metal plate (Figure 1).

Each microscope was intended for single use. Leeuwen-

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Behind The Screen The History And Techniqu

Paul Monaco



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contribution to progress would give meaning to his existence For Lee de Forest then invention was a substitute for religion By helping to build the future he sought to become an indelible part of it BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved *Allan Dwan and the Rise and Decline of the Hollywood Studios* Frederic Lombardi,2013-03-29 It could be said that the career of Canadian born film director Allan Dwan 1885 1981 began at the dawn of the American motion picture industry Originally a scriptwriter Dwan became a director purely by accident Even so his creativity and problem solving skills propelled him to the top of his profession He achieved success with numerous silent film performers most spectacularly with Douglas Fairbanks Sr and Gloria Swanson and later with such legendary stars as Shirley Temple and John Wayne Though his star waned in the sound era Dwan managed to survive through pluck and ingenuity Considering himself better off without the fame he enjoyed during the silent era he went on to do some of his best work for second echelon studios notably Republic Pictures *Sands of Iwo Jima* and such independent producers as Edward Small Along the way Dwan also found personal happiness in an unconventional manner Rich in detail with two columns of text in each of its nearly 400 pages and with more than 150 photographs this book presents a thorough examination of Allan Dwan and separates myth from truth in his life and films *History of Stunts* Ethan Parker,AI,2025-02-24 History of Stunts explores the captivating evolution of stunt work in cinema from its slapstick origins to today s complex action sequences It highlights how technological advancements like sophisticated rigging and motion capture have redefined the boundaries of what s possible on screen Simultaneously the book examines the increasing emphasis on safety standards and regulations reflecting a growing appreciation for the value and vulnerability of stunt performers The book looks into how early pioneers such as Buster Keaton and Harold Lloyd laid the groundwork for modern stunts It traces the development of specialized equipment from early airbag systems to contemporary CGI and analyzes their impact on the realism and complexity of action sequences The narrative progresses chronologically beginning with the silent film era and moving through the Golden Age of Hollywood the rise of Hong Kong action cinema and finally an examination of contemporary stunt work and its future

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