



# The microscope, and its application to clinical medicine

*Lionel Smith Beale*

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1854 Excerpt: ...of cells filled with large oil-globules. 171. Examination of Epithelium.--The microscopical examination of epithelium does not usually present much difficulty. The surface from which the epithelium is to be taken is gently scraped with a knife, and a small portion removed upon the blade. If necessary, it may be moistened with a drop of water, or with a solution of sugar, or serum if the cells are delicate, and there is danger of rupture from endosmosis. Generally, however, the addition of fluid will not be necessary. The chief reagents which will be found of use in the examination of epithelium are acetic and nitric acids, strong and weak solutions of potash and soda, and tincture of iodine. Epithelium is not soluble in boiling water, alcohol, ether, ammonia, or dilute mineral acids; it is for the most part soluble in strong solutions of caustic soda and potash, and in strong acetic acid. Most forms of epithelium will be found to keep very well in the naphtha and creosote solution (§ 97), or in a dilute solution of chromic acid. 172. Scaly Epithelium can be readily obtained from the cavity of the mouth, and from several other situations. The nuclei of the epithelial cells from the cavity of the mouth are very distinct, and can always be demonstrated without difficulty. If the cells be placed in a solution of potash for a short time endosmosis takes place, they become somewhat globular, and ultimately the cell-wall dissolves. The addition of acetic acid causes the granules in the interior of the cell to become less distinct, an effect, the reverse of that which usually occurs upon treating many cells with this reagent. The scaly epithelium from the vagina is composed of very large, irregular, and often ragged cells (fig. 124). In consequence of the flat...

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