

METHODICAL PROBLEMS OF DIGITAL MICROFLUORIMETRY**G. I. Shtein^{a, *}, A. Ya. Gudkova^b, and B. N. Kudryavtsev^a**^a*Institute of Cytology RAS, St. Petersburg, 194064 Russia*^b*Pavlov State Medical University, St. Petersburg, 197022 Russia***e-mail: spbgistn@mail.ru*

The article discusses the basic principles of digital microfluorimetry. The composition of modern equipment for microfluorimetric research using digital technology is considered, as well as the main errors of digital microfluorimetry. In order to increase measurement precision, methods are proposed for correcting nonuniformity of illumination, instability of light sources, photobleaching of fluorochrome, dark current of a photodetector, and taking into account other errors in digital microfluorimetry.

Keywords: microscope, microfluorimetry, fluorescence, digital image