

Abstract

5 Method and device for acquiring and displaying an immunofluorescence image of a
biological sample

A method is proposed for acquiring and displaying an immunofluorescence image of a
10 biological sample. During a first operating state, the sample is continuously illuminated using
the excitation radiation. A relative position between the sample and an optical system, which
guides the fluorescent radiation to an image sensor, is changed in dependence on a
movement gesture of a user and a corresponding digital image is displayed. Upon detection
of a termination of the movement gesture, a change is made from the first operating state to
15 a second operating state. In the second operating state, the sample is firstly illuminated
using the excitation radiation to excite the fluorescent radiation of the fluorescent pigment.
An acquisition of fluorescent radiation emitted by the sample then takes place and a
corresponding, further digital image is generated. In the second operating state, the
acquisition of the emitted fluorescent radiation and the illumination of the sample are
20 terminated after lapse of the second acquisition duration. Furthermore, the further digital
image is continuously displayed after the termination of the acquisition of the fluorescent
radiation and the termination of the illumination of the sample.

(Figure 1)