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"Proposta de automatização de um procedimento de análise de imagens microscópicas aplicado à pesquisa sobre o timo"

In our work we have developed a software for automatizing a technique employed in Instituto Oswaldo Cruz of Rio de Janeiro, in which a culture of epitelial cells and Lymphocytes is chemically treated and analyzed through the microscope for estimating the fraction of the two types of cells which adhere to each other.

As part of our work, we studied different forms of treatment of the cultures, and for preparation methods chosen (cristal violet and immunoperoxidase) the success rate of the automatic procedure developed was of the order of 85%.

Our image analysis system is in working condition, and will be tested on site at Instituto Oswaldo Cruz.