

遗传学实验显微图像采集与演示系统设计 A System for Capturing and Showing Micrographs of Genetics Experiments

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摘要

利用 Microsoft® Visual Basic 6.0 设计开发了“遗传学实验显微图像采集与演示系统”，该系统主要包括图像采集和编辑、文本输入和编辑，实验指导和图像演示、图像检索和数据库管理、系统维护及帮助等功能，各部分都以窗口形式设计，既可采用视频图像采集卡实时捕获图像，又可通过扫描仪、数码相机、剪贴板或文件输入已有的图像，并经压缩技术处理后与文字说明、实验指导一同存入数据库，方便、快捷、灵活地实现了对图像的输入和编辑、查询和演示，无论是对教师的遗传学实验教学，还是对学生的遗传学实验的自学，都起到了良好的辅助作用。Abstract: A system for capturing and showing micrographs of genetics was designed with Microsoft® Visual Basic 6.0. The system includes many functions such as capturing and editing images, typing and editing text, teaching experiments, showing images, image retrieval, database management, system maintenance and help, all of them were developed with the form of windows. The system could collect images not only from image-grabber card in real-time but also from scanner, digital camera, clipboard and files. After utilizing the image compression technology, the images will be saved in database along with experiment instruction. With all the features referred above, the system can be used as a wonderful assistant both for the teaching of genetics experiment and for the students' learning by themselves.

关键词 [遗传学实验](#) [教学软件](#) [图像](#) [教学改革](#) [程序设计](#) [数据库](#) Key words [genetics experiment](#) [teaching software](#) [image](#) [teaching innovation](#) [program](#) [database](#)

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Abstract

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