



## Classification of Protein Localization Patterns Obtained via Fluorescence Light Microscopy

http://www.firstlight.cn 2009-12-22

We describe a method of classifying cellular protein localization patterns based on their appearance in uorescence light microscope images. Images depicting cellular protein localization were obtained using immuno uorescencemicroscopy. After collection, the images were processed and subject to feature extraction. Zernike moments were calculated for each image and used as inputs to one of two classi cation schemes: a classi cation tree or a neural network. Of the two classi ers, the neural network demonstrated better performance, correctly classifying 84% of previously unseen images. This work has application as a novel approach to protein description, as a means of automating microscopes, and as part of a new approach to gene discovery.

<u>存档文本</u>

我要入编|本站介绍|网站地图|京ICP证030426号|公司介绍|联系方式|我要投稿 北京雷速科技有限公司 版权所有 2003-2008 Email: leisun@firstlight.cn