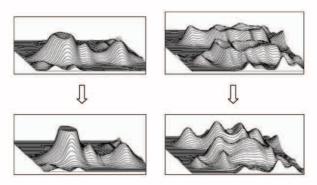
Automated Processing System for Protein 2D-PAGE Images

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Computational Biology Research Center e-mail: takahashi-k@aist.go.jp AIST Today Vol. 2, No. 2 (2002) 10 We have established the automated processing algorithm that deals with the images of protein 2-dimensional poly-acrylamide gel electrophoresis (2D-PAGE) which is thought to be

a key technology in "proteome" analysis. Our processing algorithm automatically extracts the locations and intensities of the protein spots separated and visualized in 2D-PAGE, then automatically compares it with the huge number of such images. We have also developed a WWW (World Wide Web) based 2D-PAGE image processing system "PiKA2", that realizes automated 2D-PAGE image submission,

automated spot detection and automated spot pattern comparison via a computer network with a WWW browser.



Spot shape fitting by Gaussian-type function