

## A Comparative Study of Some Denoising Methods for Preprocessing in Microarray Image

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### **Abstract**

*The microarray technology is used for study of thousands of gene in the same time. It consists of a listing series of thousands of microscopic spots of DNA oligonucleotides, each containing picomoles of a specific DNA sequence. This paper presents a comparative study for preprocessing step in spot intensity identification for microarray images. The used images have large dimensions, for the current experiment we use images with 1024\*1024 pixels affected by Gaussian and Shot noises. For the study, we apply different denoising filters to the microarray images and we consider their effect.*