**GENETICS** 

## GENOMICS OF A SINGLE CELL

5.10.2006

This is a fascinating area – <u>methods for amplifying DNA from single cells</u> for complete genome sequencing. The current approach uses isothermal multiple displacement amplification MDA, followed by 454 sequencing. Biotechnology is getting closer towards its origins, yea, yea.

## Addendum

We can now add also single <u>cell protein</u> analysis – microfluidic devices that can dissolve and separate proteins before quantifying them by fluorescence in confocal microscopy. Several groups tried to increase the signal-noise ratio by decreasing capillary dimension (leading to clogging) while the new study widens the excitation laser.

CC-BY-NC Science Surf 5.10.2006, access 18.10.2025 ☐