

## ***Surface and volume measurements of mezenchimal cell's nucleus and nucleolus – A new way of computerized morphometry***

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### **Abstract**

*A new, easy-to-learn way of using the Adobe Photoshop CS3 program for computerized morphometric analysis of tumor cells is presented. It contains a step-by-step tutorial on how to use the program to accurately extract the region of interest, how to use the measurement tool offered by the program and how to convert from pixels to microns. The mathematical part of this article was built-up using the Microsoft Excel program. While the method still needs to be refined, it exhibits some advantages: it is fast, accurate and easy to use.*

**Keywords:** *nucleus, nucleolus, morphometry, morphometrics, photoshop*