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Life Sciences : Cell Biology

Diamond, Rochelle A., DeMaggio, Susan (Eds.)

# In Living Color

Protocols in Flow Cytometry and Cell Sorting

- Flow cytometry and cell sorting are becoming increasingly important in biological research
- Step-by-step approach to the methodology for measuring various cellular attributes

Advances in the field of cell biology have always been closely related to the development of quantitative analytical methods that can be applied to individual cells or cell organelles. Almost from the early stages following the invention of the microscope, the investigator has been keenly interested in obtaining information on the functionality of single cells and how cells perform under different sets of experimental conditions. Although cells could be viewed in the microscope for a few hundred years, only since the relatively recent application of autoradiography did we come to realize that, although cells may visually appear very much alike, they are quite different in their functional capacity. The quest to understand these differences in a cell population lead to a new series of techniques for labeling and quantitating DNA content and similar approaches have driven the development of methods for analyzing various other cellular properties. The development of new analytical techniques follows the age old pattern of applying successes of the past with current innovation, logic and new biological information. Results from autoradiography expanded the concept of the cell cycle from interphase and mitosis to the more definitive G<sub>0</sub>/G<sub>1</sub>, S and G<sub>2</sub>/M phases. This new knowledge lead to the development of technology to measure and analyze various parameters related to the cell cycle.

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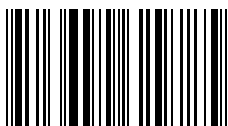
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