This first modern book on the topic gives a broad overview on current technology and application areas for single cell approaches in life sciences. Identification and imaging of single cells which is the most widely applied single cell technology, is described in the opening section, including fluorescence based methods, electron tomography and atomic force techniques. The core section of the book covers a wide range of technologies for the handling, manipulation and constituent analysis of individual cells. The final section is dedicated to case studies and specific applications, with examples ranging from cell biology and genetics to molecular medicine.

With its wide range to technologies and applications, this book is the perfect companion for all scientists entering this growing field.

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