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Descrizione fisica	1 online resource (xii, 379 pages) : digital, PDF file(s)
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Nota di contenuto	Measurement of intracellular pH: a comparison between ion-sensitive microelectrodes and fluorescent dyes / Christof J. Schwiening -- pH-sensitive microelectrodes: how to use them in plant cells / H.H. Felle -- The use of nuclear magnetic resonance for examining pH in living systems / Stephen T. Kinsey and Timothy S. Moerland -- Invasive studies of intracellular acid-base parameters: quantitative analyses during environmental and functional stress / H.O. Portner and F.J. Sartoris -- Lactate, H ⁺ , and ammonia transport and distribution in rainbow trout white muscle after exhaustive exercise / Chris M. Wood and Yuxiang Wang.
Sommario/riassunto	The maintenance of a stable acid-base status within biological tissue is a fundamental homeostatic process in all organisms, necessary to preserve the metabolic function of proteins and other macromolecules.

The study of acid-base regulation has advanced enormously over recent decades due to the development of increasingly accurate and sensitive techniques for measuring acid-base variables. This volume brings together contributions from leading comparative physiologists working on factors affecting the acid-base status of the internal fluids of animals and plants. The result is a broad-ranging, authoritative and accessible review of this area, together with a critical look at techniques and tools.
