

1. Record Nr.	UNINA9910783312703321
Titolo	Regulation of tissue pH in plants and animals : a reappraisal of current techniques // edited by S. Egginton, E.W. Taylor, J.A. Raven [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 1999
ISBN	1-107-11500-0 0-511-04001-6 1-280-41889-3 9786610418893 0-511-17508-6 0-511-15518-2 0-511-32867-2 0-511-54264-X 0-511-05058-5
Descrizione fisica	1 online resource (xii, 379 pages) : digital, PDF file(s)
Collana	Society for Experimental Biology seminar series ; ; 68
Disciplina	581.7/5
Soggetti	Acid-base equilibrium
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
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.
