Record Nr.	UNINA9910298335203321
Titolo	Molecular Genetics of Dysregulated pH Homeostasis / / edited by Jen- Tsan Ashley Chi
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2014
ISBN	1-4939-1683-1
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (158 p.)
Disciplina	571.6 599935 610 611.01816
Soggetti	Human genetics Cell biology Medicine Human Genetics Cell Biology Biomedicine, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Note generali Nota di bibliografia	Description based upon print version of record. Includes bibliographical references at the end of eah chapters and index.
	Includes bibliographical references at the end of eah chapters and

1.

homeostasis at the local or systemic level is one of the highest priorities for all multicellular organisms. Many redundant mechanisms are in place to maintain the pH homeostasis, a topic that is well covered in scientific literature and in medical textbooks. However, when the pH homeostasis is disrupted in various physiological adaptations and pathological situations, resulting acidity may trigger significant pathophysiological events, and modulate disease outcomes. Therefore, understanding how various cells sense and react to acidity have broad impact in a wide variety of human diseases including cancer, stroke, myocardial infarction, diabetes, and renal and infectious diseases. In this book, many investigators have summarized the molecular genetics on the detailed mechanisms by which different mammalian cells sense and respond to acidity. These chapters cover the acidity with broad impact in biological understanding and human diseases and review various sensing mechanisms and cellular responses to pH alterations in both physiological (taste, pain) and pathological (ischemia and cancers) settings. Furthermore, the authors present a broad spectrum of investigative approaches to cellular response to acidosis in a wide variety of human diseases.