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Autore	Almagià, Roberto
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Altri autori (Persone)	ChadwickDerek CardewGail
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Nota di contenuto	BACTERIAL RESPONSES TO pH; Contents; Participants; Introduction;

Problems of adverse pH and bacterial strategies to combat it; The regulation of intracellular pH in bacteria; pH sensing in bacterial chemotaxis; Inducible acid tolerance mechanisms in enteric bacteria; Acid and base regulation in the proteome of Escherichia coli; Acid tolerance induced by metabolites and secreted proteins, and how tolerance can be counteracted; Acid tolerance in root nodule bacteria; How can acidity? archaea cope with extreme; pH homeostasis in acidophiles

The molecular mechanism of regulation of the NhaA Na<sup>+</sup>/H<sup>+</sup> antiporter of Escherichia coli, a key transporter in the adaptation to Na<sup>+</sup> and H<sup>+</sup>; Bacterial energetics at high pH: what happens to the H<sup>+</sup> cycle when the extracellular H<sup>+</sup> concentration decreases?; Proton ATPases in bacteria: comparison to Escherichia coli F<sub>1</sub>F<sub>0</sub> as the prototype; Cation movements at alkaline pH in bacteria growing without respiration; Final general discussion; Summary; Index of contributors; Subject index

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### Sommario/riassunto

Microbial responses to acidic and alkaline pH are important in many areas of bacteriology. For example, the mechanisms of resistance to acidic pH are important in the understanding of the passage of human pathogens through the acid of the stomach; and an understanding of microbial degradation of alkaline industrial waste is important for the environment. Bringing together contributions from an international and interdisciplinary group of experts working on the many aspects of bacterial cellular responses to pH, this stimulating volume draws together new and innovative work in this area.

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