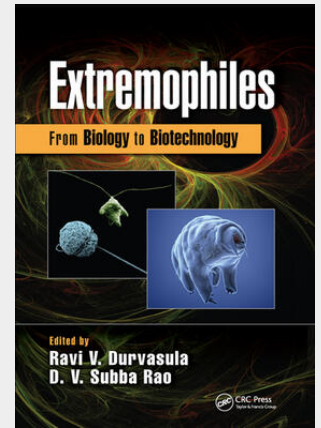


Extremophiles

From Biology to Biotechnology

Highly recommended by CHOICE, Oct 2018 Extremophiles are nature's ultimate survivors, thriving in environments ranging from the frozen Antarctic to abyssal hot hydrothermal vents. Their lifeforms span bacteria to fishes, and are categorized as halophiles from hypersaline environments, acidophiles from acidic waters, psychrophiles from cold habitats, and thermophiles from warm waters. Extremophiles: From Biology to Biotechnology comprehensively covers the basic biology, physiology, habitats, secondary metabolites for bioprospecting, and biotechnology of these extreme survivors. The chapters focus on the novel genetic and biochemical traits that lend these organisms to biotechnological applications. - Couples studies of marine extremophile biology/genomics and extremophile culture for biotechnological applications with the latest advances in bioprospecting and bio-product development - Includes practical experiments that a laboratory can use to replicate extreme habitats for research purposes - Presents latest advances in extremophile genomics to give the reader a better understanding of the regulatory mechanisms of extremophiles - Offers insights into the production of commercially important extremozymes, carotenoids, bioactive compounds and secondary metabolites of medicinal value. This unique guide serves as a resource for biotechnologists who wish to explore extremophiles for their commercial potential, as well as a valuable reference for teaching undergraduate, graduate and postgraduate students.



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