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Research Article

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Isolating Lysobacter enzymogenes strains with enhanced protease activity via chemical mutagenesis

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Proteases are the most important industrial enzymes which have attracted enormous attention due to their vast variety and well-defined specificity. Microbial proteases are superior to other sources like plant and animal proteases because of their desired characteristics for biotechnological application. In this regard, Lysobacter enzymogenes is a rich source for the p ...

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Phenotypic characterization of bacterial isolates from marine waters and plastisphere communities of the Ross Sea (Antarctica)

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Background: In aquatic environments, microbial biofilms are hot spots of microbial diversity, as well as a substrate for larval settlement of many invertebrate species. Examining the functional diversity of microorganisms in polar regions is a new and still unknown field of aquatic microbiology, that is attracting increasing interest for its significance in both sc ...

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Review Article

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Retroviruses: Reversing the dogma of life - A review

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Retroviruses replicate by means of reverse transcription, utilizing an enzyme, reverse transcriptase, in conjunction with integrase. Their elements have been found in humans, animals, fungi, plants, and bacteria alike. For millions of years, these elements are continuing to integrate into the eukaryotic genomes and affecting these organisms to date.

Specifically, endo ...

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Opinion

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Intestinal microbiota and related metabolites are essential mediators for adoptive T cell antitumor immunotherapy

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Intestinal microbiotas modulate multiple biochemical reactions and immune hemostasis of the host, numerous pieces of evidence have revealed that they are also tightly involved in the efficacy of antitumor immunotherapy. However, which way local intestinal microbiota influences the activity of distant organs is still unknown. In this review, we highlighted the importa ...

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