

Picolinic acid: A Potential Therapeutic Against Pandemic Viruses



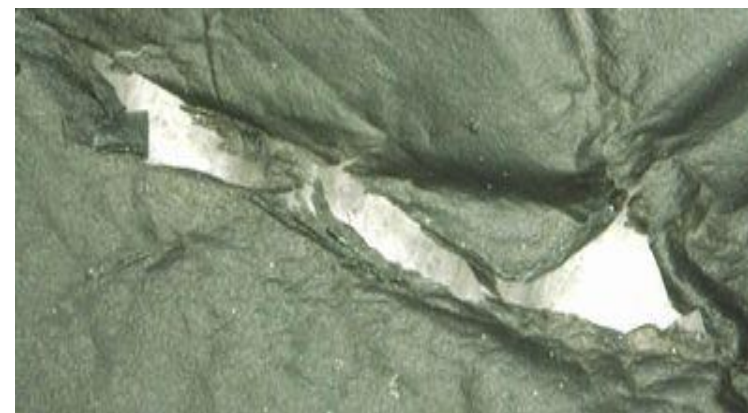
Researchers from the Indian Institute of Science, Bangalore, have demonstrated Picolinic acid's (PA) potential against pandemic viruses, specifically SARS-CoV-2 and Influenza A, through broad-spectrum antiviral activity and immune response enhancement. The study emphasises PA's promising therapeutic role and its unique mechanism targeting viral entry and immune modulation.[1]

Unique New Species of Marine Bacteria Discovered in Deep-Sea Cold Seep



According to the reports researchers have discovered a new deep-sea bacterial strain, *Poriferisphaera hetertotrophicis*, which is unique for its budding division model and plays a significant role in nitrogen assimilation. The bacteria also live symbiotically with a bacteriophage that further facilitates nitrogen metabolism. [2]

Alpine and Arctic Microbes Break Down Plastics



According to the reports researchers identified cold-adapted microbes that degrade certain plastics at low temperatures, potentially saving energy in industrial recycling. [3]

A Probiotic to Protect Caribbean Corals



According to the reports a bacterial strain from healthy corals could slow the progression and prevent transmission of the destructive stony coral tissue loss disease in the wild. [4]

References: [1] Rumao, J.D. [2023, Aug 11]. Picolinic acid: A Potential Therapeutic Against Pandemic Viruses. <https://indiabioscience.org/news/2023/picolinic-acid-a-potential-therapeutic-against-pandemic-viruses> [2] Elife [2023, Aug 31]. Unique New Species of Marine Bacteria Discovered in Deep-Sea Cold Seep. https://scitechdaily.com/unique-new-species-of-marine-bacteria-discovered-in-deep-sea-cold-seep/#google_vignette [3] Manjarrez, A. [2023, Jul 7]. Alpine and Arctic Microbes Break Down Plastics. <https://www.the-scientist.com/news-opinion/alpine-and-arctic-microbes-break-down-plastics-71210> [4] Careaga, M.B.L. [2023, Aug 1]. A Probiotic to Protect Caribbean Corals. <https://www.the-scientist.com/ts-digest/issue/the-roles-of-endogenous-psychedelics-18-2#a-probiotic-to-protect-caribbean-corals-71204>