

## Potential Anti Cancer Compound from Coral Toxin

Raghunath Satpathy, Rajesh Ku. Guru, Rashmiranjan Behera and Biswajit Nayak

Majhighariani institute of Technology & Science, India

As per the research on a Sea-Whip coral (*Pseudopterogoria elisabethae*) by Dr. William Fenical, Director Scripps Centre for Marine Biotechnology and Biomedicine a toxin released by the sea-whips against their predators named "Pseudopterodin" has anti-inflammatory activity that can potentially used as anti cancer compound. Pseudopterodin is acting as an anti allergic compound for skin & is commercialized by Estée Lauder as drug for contact dermatitis from last 7 years. Another coral *Eleutherobia* secretes the chemical called "Eleutherobin" which can be used as anti cancer compound. Many experiments proved this 2 compounds are more efficient than traditional drug Taxol due to their less side effect. They are also studying on myriad bacteria and fungi found in the sea which has more promising antibiotic & anti fungal compound till discovered in the universe.

Sea-whip is a class of colony forming feather coral of several meter high & few centimetres wide. As per a new wildlife management method devised by Fenical, from the branch of the coral they are able to harvest 3-4000 Kg. of coral commercially within a short span of time without damaging the natural ecosystem which also a new finding for wildlife management. According to their method any coral population can be restored within 18 months which is also a new hope to protect the endangered species of coral.

rsatapathy@mitscollege.ac.in