

Special Issue

Aquatic Organisms Models Dedicated to Disease

Message from the Guest Editors

Aquatic organisms are an irreplaceable source of medicinal drugs and therapeutics, a perfect model system and indicator for many human diseases, and often also a source of remedies for environmental pollutants.

Over the past 30 years, scientists have identified over 20,000 novel biochemical compounds from aquatic organisms, and dozens have been tested in clinical trials. Cytarabine and vidarabine isolated from Caribbean sponges are used to treat leukemia and lymphoma, and systematic herpes virus infections, respectively. Ziconotide, a powerful analgesic drug, is isolated from the cone snail, and trabectedin (Yondelis), a marine alkaloid isolated from the tunicate, is used to treat advanced soft-tissue sarcoma and ovarian cancer.

For this Special Issue, we invite research studies and review articles on the recent progress in aquatic organisms as a source of medication for human diseases. In addition, papers on environmental pollutant markers that act as sources of anti-pollutant compounds are also welcome.

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