## **B-III**11

## Taxonomical and Ecological Distribution of Allelochemical Production in Benthic Mediterranean Organisms

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The chemical activity of benthic organisms has traditionally been
related to different aspects of their biology, ecology, systematics,
Mileiopathy as an ecological phenomenon has been compartively
much less studied in the Mediterranean Sea (Anade et al., 1987) than in
tropical and temperate Atlantic zones.
In this stüdy we looked for the taxonomical and ecological
(NTT) - in Western Mediterranean benthos.
Without a studie of the following activities - Antibacterial (BACT),
Antifungic (FUNG), Antiviral (VIR), Cytotoxic (CYT) and Antimitotic
(KTT) - in Western Mediterranean benthos.
Without a samples were taken by SCUBA diving in October 1988 during a
survey aboard the "A/O Garcia del Cid". The zone prospected includes
the Balearic Achipe and the Columbrates Islands (Western
balearic Achipe and the Columbrates Islands (Western
tations: Communities of photophilic algae (FA), Communities of
sciaphilic algae (GA), Precoralligenous (PC), Coralligenous blocks,
(PM), Detricic bottons (DB) and Euryhaline and eurytherm lagoons (EE).
The antimicrobial activity of the crude organic extracts was
cytotoxic and antimitotic tests were performed on leucemic cells of
the stands of fungi, Antimitotic tests were performed on leucemic etails of
the scope for the cytotoxic activity signation cytoxic activity is
noteworthy in Porifera, Tunicata and Chidaria. Antibacterial and
the fungina and bright species are in general much more chaundant, and
antifungic activities are while widespread only in sprogos. Antiviral
activity is, on the contrary, quite uniforaly. Instructed among the
sciaphilic activities are see science and sproges. Antiviral
activity is, on the contrary, quite uniforaly later blue dang the
sciaphilic/cryptic habitats (CB1 and SC) which as landtil phigher inclence in Bryozos. The
sciaphilic activities are in general much more sciumalities of
perchause that alight and they vary according to



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Rapp. Comm. int. Mer Médit., 32, 1 (1990).