

DSV Seminars 2017



UNIVERSITÀ
DEGLI STUDI DI TRIESTE

DIPARTIMENTO DI
SCIENZE DELLA VITA

PhD Program in *Environmental Life Sciences*

Wednesday, 29 November 2017 10:00

Seminar room, 1 floor, Q Building

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Host: Antonio Terlizzi

Ecological effects of compounded disturbances: an experimental approach

Natural and anthropogenic disturbances are major drivers of patterns of distribution, abundance and diversity of natural assemblages. The ultimate effects of disturbance depend on the complex combination of its direct negative influence on one or more sensitive organisms and of the indirect facilitation of organisms capable of taking advantage of the resources made available by disturbance. In this lecture, the ecological importance, the nature and the varying traits of events of disturbance will be introduced with special focus on their effects on coastal marine biodiversity, in the context of environmental changes and human pressures acting on local and global scale. These aspects will be followed by the presentation of a methodological approach developed for the experimental manipulation of multiple traits of disturbance, allowing the separation of the effects of its mean intensity and those of temporal variance. Empirical applications of such an approach will be then illustrated using examples from recent research on the responses of rocky shore organisms to single or compounded perturbations of natural and anthropogenic origin.

