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Titolo	Biofouling [[electronic resource]] : types, impact, and anti-fouling // Jun Chan and Shing Wong, editors
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Altri autori (Persone)	ChanJun WongShing
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Soggetti	Fouling organisms Fouling - Prevention Hydraulic structures - Protection Medical instruments and apparatus - Microbiology Protective coatings Electronic books.
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""BIOFOULING: TYPES, IMPACT AND ANTI-FOULING""; ""BIOFOULING: TYPES, IMPACT AND ANTI-FOULING""; ""CONTENTS ""; ""PREFACE ""; ""LIFE STRATEGIES OF MARINE SESSILE ORGANISMS AS AN APPROACH FOR EXPLORATION OF STRUCTURE AND SUCCESSION OF FOULING COMMUNITIES ""; ""ABSTRACT ""; ""INTRODUCTION ""; ""Development of Fouling Communities ""; ""Problem ""; ""Life Strategies. New Approach to an Old Problem ""; ""Task ""; ""Study Area ""; ""Development of Fouling Communities in the White Sea ""; ""MATERIAL AND METHODS ""; ""Tested Species ""; ""Used Characteristics ""; ""RESULTS AND DISCUSSION "" ""Definitive Size """"Life Span ""; ""Growth Rate ""; ""Fertility and the Volume of Larval Pool ""; ""Tolerance to Changes in Main Environmental Factors (Temperature, Salinity)""; ""Edificatory Abilities of Monospecific Settlements ""; ""Attachment Strength ""; ""Pumping Rate ""; ""Resistance to Invasion of other Fouling Organisms ""; ""Species position in Ramenskii-Grime Coordinate System ""; ""ACKNOWLEDGMENT ""; ""REFERENCES ""; ""GENERAL DEFENSE MECHANISMS OF THE

INTEGUMENT AGAINST BIO-COATING IN AQUATIC MAMMALS";
"ABSTRACT "; "INTRODUCTION "
"THE SPECIAL BIOTOPE CONDITIONS ON THE EPIDERMAL SURFACE
"THE MORE GENERAL DEFENSE APPROACH: FREE SUGARS "; "THE
MORE SOPHISTICATED DEFENSE: INNATE IMMUNITY "; "SPECIFIC
CONDITIONS IN DOLPHINS "; "SUMMARY AND CONCLUSION ";
"ACKNOWLEDGMENTS "; "REFERENCES "; "MARINE BIOFOULING IN
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SEAWATER SYSTEMS "; "1.1. Cooling Water Systems in Coastal
Facilities "; "1.2. Problems Caused by Fouling in Heat Exchangers ";
"a) Operational Problems "; "b) Costs due to Heat Exchanger Fouling
"; "Capital Expenditure "
"Maintenance Costs ""Costs due to Production Loss "; "1.3. Fouling
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Additives: Mexel@432 "; "Ultraviolet Light (UV) "; "1.4. Environmental
Impacts of the Treatments "; "Environmental Impact of Chlorine ";
"Environmental Impact of Mexel@432 "; "Environmental Impact of UV
"; "2. TECHNIQUES FOR MONITORING AND CHARACTERIZATION OF
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"; "2.2. Indirect Methods for the Quantification of Fouling "
"2.3. Direct Methods for the Characterization of Fouling ""2.3.1.
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"Biofilm Sample Harvest and Pretreatment "; "Genomic DNA
Extraction and PCR Amplification of Bacterial 16S rDNA Gene";
"Construction of Clones Libraries and Sequencing of 16S rDNA ";
"Bioinformatic Analysis "; "2.4. Modelization for Fouling Progression
"; "3. A PARTICULAR IN SITU STUDY: LOS BARRIOS POWER STATION
(ALGECIRAS BAY, SPAIN) "; "3.1. Assays Description "; "3.2.
Biofouling Characterization "
"3.2.1. Results of Physico-Chemical Characterization of Fouling"
