1. Record Nr. UNINA9910683375403321

Titolo	A glimpse into future research on microalgae diversity, ecology and biotechnology / / editors, Carmela Caroppo, Patrizia Pagliara
Pubbl/distr/stampa	Basel : , : MDPI, , [2023] ©2023
ISBN	3-0365-6994-4
Descrizione fisica	1 online resource
Disciplina	579.8
Soggetti	Microalgae
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Contents -- About the Editors vii -- Preface to "A Glimpse into Future Research on Microalgae Diversity, Ecology and -- Biotechnology" ix -- Carmela Caroppo and Patrizia Pagliara -- Microalgae: A Promising Future -- Reprinted from: Microorganisms 2022, 10, 1488, doi: 10.3390/microorganisms10081488 1 -- Veronika Dashkova, Dmitry V. Malashenkov, Assel Baishulakova, Thomas A. Davidson, -- Ivan A. Vorobjev and Erik Jeppesen et al. -- Changes in Phytoplankton Community Composition and Phytoplankton Cell Size in Response -- to Nitrogen Availability Depend on Temperature -- Reprinted from: Microorganisms 2022, 10, 1322, doi:10.3390 /microorganisms10071322 5 -- Joana Barcelos e Ramos, Susana Chaves Ribeiro, Kai George Schulz, Francisco Jos´e Riso Da -- Costa Coelho, Vanessa Oliveira and Angela Cunha et al. -- Emiliania huxleyi-Bacteria Interactions under Increasing CO2 Concentrations -- Reprinted from: Microorganisms 2022, 10, 2461, doi:10.3390 /microorganisms10122461 27 -- Alexander Okhapkin, Ekaterina Sharagina, Pavel Kulizin, Natalja Startseva and Ekaterina -- Vodeneeva -- Phytoplankton Community Structure in Highly-Mineralized Small Gypsum Karst Lake -- (Russia) -- Reprinted from: Microorganisms 2022, 10, 386, doi:10.3390/microorganisms10020386 47 -- Loredana Stabili, Margherita Licciano, Adriana Giangrande and Carmela Caroppo -- Filtration of the Microalga Amphidinium carterae by the Polychaetes Sabella spallanzanii and -- Branchiomma luctuosum: A New Tool for

the Control of Harmful Algal Blooms? -- Reprinted from: Microorganisms 2022, 10, 156, doi:10.3390 /microorganisms10010156 67 -- Ewa Zyma ´nczyk-Duda, Sunday Ocholi Samson, Magorzata Brzezi ´nska-Rodak and -- Magdalena Klimek-Ochab -- Versatile Applications of Cyanobacteria in Biotechnology -- Reprinted from: Microorganisms 2022, 10, 2318, doi: 10.3390/microorganisms10122318 81 -- Patrizia Pagliara, Giuseppe Egidio De Benedetto, Matteo Francavilla, Amilcare Barca and -- Carmela Caroppo -- Bioactive Potential of Two Marine Picocyanobacteria Belonging to Cyanobium and Synechococcus -- Genera -- Reprinted from: Microorganisms 2021, 9, 2048, doi:10.3390 /microorganisms9102048 101 -- Dante Matteo Nistic`o, Amalia Piro, Daniela Oliva, Vincenzo Osso, Silvia Mazzuca and -- Francesco Antonio Fag`a et al. -- A Combination of Aqueous Extraction and Ultrafiltration for the Purification of Phycocyanin -- from Arthrospira maxima -- Reprinted from: Microorganisms 2022, 10, 308, doi:10.3390 /microorganisms10020308 117 -- Amalia Piro, Dante Matteo Nistic`o, Daniela Oliva, Francesco Antonio Fag`a and Silvia -- Mazzuca -- Physiological and Metabolic Response of Arthrospira maxima to Organophosphates -- Reprinted from: Microorganisms 2022, 10, 1063, doi:10.3390/microorganisms10051063 131 -- Alessia Bani, Katia Parati, Anna Pozzi, Cristina Previtali, Graziella Bongioni and Andrea -- Pizzera et al. -- Comparison of the Performance and Microbial Community Structure of Two Outdoor -- Pilot-Scale Photobioreactors Treating Digestate -- Reprinted from: Microorganisms 2020, 8, 1754, doi:10.3390/microorganisms8111754 149 -- Diogo Fleury Azevedo Costa, Joaqu´n Miguel Castro-Montoya, Karen Harper, Leigh -- Trevaskis, Emma L. Jackson and Simon Quigley -- Algae as Feedstuff for Ruminants: A Focus on Single-Cell Species, Opportunistic Use of Algal -- By-Products and On-Site Production -- Reprinted from: Microorganisms 2022, 10, 2313, doi:10.3390 /microorganisms10122313 173.

Sommario/riassunto

Microalgae are photosynthetic unicellular microorganisms that represent an extremely important component of the aquatic ecosystem productivity, diversity, and functioning. Moreover, these microorganisms, using a network of signals, interact with all the other organisms present in their environment. Signals are often secondary metabolites that play an important role in competition, defense, attraction, and signaling. These molecules are recognized for having bioactive properties, but some of them are still largely underexplored and underexploited. This Special Issue focuses on studies aimed to improve knowledge on microalgal ecology (diversity and dynamics) in aquatic ecosystems, as well as on their capacity to produce bioactive compounds with potential biotechnological applications.

2. Record Nr. UNINA9910796038703321

Autore	Lam Thomas <1980->
Titolo	The poset of k-shapes and branching rules for k-Schur functions / / Thomas Lam [and three others]
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2012 ©2012
ISBN	0-8218-9874-4
Descrizione fisica	1 online resource (101 p.)
Collana	Memoirs of the American Mathematical Society, , 1947-6221 ; ; Volume 223, Number 1050
Disciplina	516.3/5
Soggetti	Partially ordered sets Schur functions
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"May 2013 , Volume 223, Number 1050 (fourth of 5 numbers)."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Contents""; ""Abstract""; ""Chapter 1. Introduction""; ""1.1. -Schur functions and branching coefficients""; ""1.2. The poset of -shapes""; ""1.3. -shape functions""; ""1.4. Geometric meaning of branching coefficients""; ""1.5. -branching polynomials and strong -tableaux""; ""1.6. Tableaux atoms and bijection (1.20)""; ""1.7. Connection with representation theory""; ""1.8. Outline""; ""Acknowledgments""; ""Chapter 2. The poset of -shapes""; ""2.1. Partitions""; ""2.2. -shapes""; ""2.3. Strings""; ""2.4. Moves""; ""2.5. Poset structure on -shapes"" ""2.6. String and move miscellany""""""Chapter 3. Equivalence of paths in the poset of -shapes""; ""3.1. Diamond equivalences""; ""3.2. Elementary equivalences""; ""3.3. Mixed elementary equivalence""; ""3.4. Interfering row moves and perfections""; ""3.5. Row elementary equivalence""; ""3.6. Column elementary equivalence""; ""3.7. Diamond equivalences are generated by elementary equivalences""; ""3.8. Proving properties of mixed equivalence""; ""3.9. Proving properties of row equivalence""; ""3.10. Proofs of Lemma 3.18 and Lemma 3.19""; ""Chapter 4. Strips and tableaux for -shapes"" ""4.1. Strips for cores""""""4.2. Strips for -shapes""; ""4.3. Maximal strips and tableaux""; ""4.4. Elementary properties of \ _{\ }^{( )}[ ] and \ _{\ }^{( )}[ ]""; ""4.5. Basics on strips""; ""4.6. Augmentation of