

only blue light for growing *S. platensis* causes a decrease in the amount of reduced glutathione and activity of the glutathione reductase.

Key words: *Spirulina platensis*, antioxidant system, photosynthetically active light, the spectral composition of the LEDs.

NEW BOOKS

Guidelines for quality control of the Black Sea. Microphytobenthos / Nevrova E.L., Snigireva A.A., Petrov A.N., Kovaleva G.V. / Ed. A.V. Gaevskaya. — Sevastopol; Simferopol: N. Orianda, 2015. — 176 p.

A guideline for quality control of the marine microphytobenthos consists of methodical recommendations for sampling, treatment, laboratory processing and different kinds of analysis of the Black Sea benthic microalgae. It is recommended to apply the indication capabilities of microphytes for assessment the environmental stressors impact upon quantitative indices, distribution pattern and taxonomic structure of taxocenes. Application of different structural indices and non-parametric methods including taxonomic distinctness indices (TaxDI) for assessment of biodiversity features and condition of main components of microphytobenthic assemblages in different environment had discussed. The Annexes are comprised of the list of references using for taxonomical identification of species, algorithms for approximation the shape of cells by geometric figures, formulas and correction factors for calculation of volume and surface area of unicellular microalgae and, besides the checklist of microphytobenthos (*Cyanobacteria*, *Ochrophyta*, *Dinophyta*, *Cryptophyta*, *Haptophyta*, *Bigyra*, *Euglenpzoa*, *Protozoa Incertae Sedis*, *Chlorophyta*), and updated list of benthic diatoms (*Bacillariophyta*) from north-western part of the Black Sea.

The guidelines is designated for hydrobiologists, ecologists, botanists, experts in ecological monitoring and wild-life conservation, and for university lecturers and students of biological specialties.