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Recently, 76veral studies, on fatty acid composition in Trachydiscus minutus have shown that this microalga is rich in 160-PUFAs, effecti EPA and arachidonic acid (ARA) (ev et al. 2010; Řezanka et al. et al. 20150. In th studied the effect lof. (LED, FLUORA 140 E /spectral qualities the accumulatian on growth and compositio The prectral profiles of the light sources LED 20 characterised by one peak with a maximum nm with am0ximun2ar app 4 ximat 6 y

545 nm, These spectral characteristics were similar to those reported by Ho et al. (2014). An emission detectable throughout the spectrum (400-700 nmT, For FLUORA light tubes, distinct pelks at different vavelengths (425 and 545 nm) were product, when is, the spectrum of UNILUX light tubes consisted of three distinct peaks (at 433, 550, and 615) and several minor peaks, with Intervals at olavin from peaks of performance LED light (continuous or intermittent) on growth and FA composition in

Isochrysis galbana (Yoshioka et al. 2012), there is no literature available sealing with light quality effects on PAs

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Genetics and Plant Physiology is the new scientific journal issued by the Institute of Plant Physiology and Genetics at the Bulgarian Academy of Sciences. The journal will continue the tradition of its predecessors, the former journals "General and Applied Plant Physiology" and "Genetics and Breeding", to publish original articles in English on all aspects of plant biology including plant physiology and biochemistry as well as genetics and breeding. The scope will cover the basic physiological processes in plants such as photosynthesis, mineral nutrition, water relations, growth and development in normal and stress conditions as well as molecular plant biology, classical genetics and breeding. Studies can be based on physiological, environmental, genetical, biophysical or molecular approaches. Thus, we hope to encourage the participation of authors with various research interests in plant physiology and genetics.

Published by the Institute of Plant Physiology and Genetics Bulgarian Academy of Sciences Reviews, research articles and short communications are very welcome. Research articles presented by young scientists (parts of PhD theses, post-doc fellowship reports) will be also highly appreciated.

On the cover: Changes in *Trachydiscus minutus* cell volume during cultivation under different light sources (article by Cepák et al., pp. 103–115). Background photograph by Dr. Liliana Brankova.

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