

# Climate change and food security

**Fernando José Cebola Lidon**

*Associate Professor with Habilitation, Coordenador do Mestrado em Tecnologias de Produção e Transformação Agro-Industrial, Coordenador do Programa Doutoral em Tecnologias Agro-Industriais, GeoBioTec, DCT, FCT - Universidade Nova de Lisboa, 2829-516 Caparica, Portugal*

Climate change, similarly to several stressors, interacts with biological factors on Earth, triggering metabolic disorders and, therefore, decreasing productivity. In this context, might prevail a threat to our global food supply, eventually affecting the spatial and temporal distribution, soil composition. Besides, biological stress implies a disruption of homeostasis inducing adverse effects on species physiology, thus revealing their susceptibility, avoidance or resistant characteristics. Yet, under stress, different

genotypes can induce adaptation (*i.e.* phenotypic plasticity), which is also long being a target of breeding programs.

In this issue of the Emirates Journal of Food and Agriculture, the implications of stress in species metabolism are in focus, with special emphasis on some interactions with climate change. Accordingly, a collection of papers focusing key issues relating stress factors with the production of raw materials in the agro food sector.

**\*Corresponding author:**

Fernando José Cebola Lidon, Associate Professor with Habilitation, Coordenador do Mestrado em Tecnologias de Produção e Transformação Agro-Industrial, Coordenador do Programa Doutoral em Tecnologias Agro-Industriais, GeoBioTec, DCT, FCT - Universidade Nova de Lisboa, 2829-516 Caparica, Portugal. Email: [fjl@fct.unl.pt](mailto:fjl@fct.unl.pt)