

Prof. Dr. Ivan Tarakanov
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Research interests: plant physiology, plant photosynthesis, photomorphogenesis (basic) and horticultural lighting (applied, including city farming and other advanced technologies), knowledge-based bioeconomy, bioenergy crops



Prof. Ivan Tarakanov started his scientific career with the physiological studies on the vegetable crops of tropics and temperate zone emphasizing their photoperiodic responses. Later, his research interests included studies on photomorphogenesis in various plant species representing different life-forms. In his investigations, he widely used germ plasm of diverse geographical origin from national and international gene banks. Investigation of photoperiodism shade-avoidance response in plants with various life strategies was accompanied with the elucidation of the signal transduction role of gibberellins. Now, his basic research is combined with the applied studies on horticultural lighting using advanced LED-based technologies, computer vision, machine learning, artificial intelligence and IoT.

Prof. Ivan Tarakanov has participated in several international joint research projects in the Netherlands, USA, Germany and EU (FP 7). He has authored over 250 scientific publications. He is a member of the Russian Society of Plant Physiologists, Federation of the European Societies of Plant Biologists (FESPB), and International Society for Horticultural Science (ISHS).