

<b>Personal information</b>	
Family name / First name	Morosinotto Tomas
Date of birth	26/12/1976
Email	Tomas.morosinotto@unipd.it
Tel.	049/8277484

**Education**  
31<sup>st</sup> January 2005 PhD in Biotechnology at the department of Biotechnology, University of Verona, Italy. Thesis under the supervision of Roberto Bassi, entitled: “Light Harvesting Complexes in Higher Plants: Role, Organization and Regulation”. The main subject of the work was the biochemical and functional characterization of the antenna system of Photosystem I in the plant *Arabidopsis thaliana*.

**Current position(s)**  
Since 2018 Full professor in Plant Physiology, Department of Biology, University of Padova Italy

**Previous position(s)**  
2014 – 2017 Associate professor in Biochemistry, Department of Biology, University of Padova Italy  
2007 - 2014 Assistant professor in Biochemistry, Department of Biology, University of Padova, Italy.  
2005 - 2006 Permanent CNRS researcher working at the LGBP (Laboratoire de Biophysique et Génétique des Plantes) in the science Faculty, Marseille, (France). Renounced to the position, opting for a position as assistant professor in Padova.

**Fellowships**  
2005 Post-doc fellowship (awarded by the French Research ministry on a personal proposal) working at LBC (directed by Dr. David Pignol) at DEVM, CEA, Cadarache (France). The objective of the work was the structural characterization by X-ray crystallography of violaxanthin de-epoxidase (VDE), the enzyme responsible for zeaxanthin synthesis in plants  
2002 - 2004 PhD Scholarship in Biotechnology, University of Verona, Italy

**Research synopsis**  
Present research focuses on the study of photosynthesis in different organisms investigating how evolution shaped the regulation of this metabolic pathway in algae, mosses and plants. Information from basic research is exploited for the development of new strategies industrial production of biomolecules from algae. The objective of the research is to improve algae efficiency in converting light into biomass and key limiting steps of photosynthesis are being identified by integrating biophysical, biochemical and functional investigation of algae photosynthetic apparatus with genome, transcriptome, lipidome and metabolome analysis. Information obtained are exploited to develop genetically engineered strains with improved productivity for a possible industrial application. This project was awarded in 2012 of an ERC starting Grant entitled: “BioLEAP— Biotechnological optimization of light use efficiency in algae photobioreactors” and is now continuing thanks to the support of private partners.