

Alessandro Alboresi

LIST of PUBLICATIONS

<https://orcid.org/0000-0003-4818-7778>

1. Perroud PF, Haas FB, Hiss M, Ullrich KK, **Alboresi A**, Amirebrahimi M, Barry K, Bassi R, Bonhomme S, Chen H, Coates J, Fujita T, Guyon-Debast A, Lang D, Lin J, Lipzen A, Nogué F, Oliver MJ, Ponce de León I, Quatrano RS, Rameau C, Reiss B, Reski R, Ricca M, Saidi Y, Sun N, Szövényi P, Sreedasyam A, Grimwood J, Stacey G, Schmutz J, Rensing SA. The *Physcomitrella patens* gene atlas project: large scale RNA-seq based expression data. *Plant Journal* (2018). Apr 22. doi: 10.1111/tpj.13940.
2. Ilík P, Pavlovič A, Kouřil R, **Alboresi A**, Morosinotto T, Allahverdiyeva Y, Aro EM, Yamamoto H, Shikanai T. Alternative electron transport mediated by flavodiiron proteins is operational in organisms from cyanobacteria up to gymnosperms. *New Phytologist* (2017). 214(3):967-972.
3. **Alboresi A***, Le Quiniou C*, Yadav KNS*, Scholz M, Meneghesso A, Gerotto C, Simionato D, Hippler M, Boekema EJ, Croce R and Morosinotto T. Conservation of core complex subunits shaped structure and function of photosystem I in the secondary endosymbiont alga *Nannochloropsis gaditana*. *New Phytologist* (2017). 213(2):714-726.
4. Gerotto C, **Alboresi A**, Meneghesso A, Jokel M, Suorsa M, Aro EM, Morosinotto T. Flavodiiron proteins act as safety valve for electrons in *Physcomitrella patens*. *Proceedings of the National Academy of Sciences of the United States of America* (2016). 25;113(43):12322-12327
5. De Bortoli S, Teardo E, Szabò I, Morosinotto T, **Alboresi A**. Evolutionary insight into the ionotropic glutamate receptor superfamily of photosynthetic organisms. *Biophysical Chemistry* (2016). 218: 14-26.
6. **Alboresi A***, Perin G*, Vitulo N, Diretto G, Block M, Jouhet J, Meneghesso A, Valle G, Giuliano G, Maréchal E, Morosinotto T. Light Remodels Lipid Biosynthesis in *Nannochloropsis gaditana* by Modulating Carbon Partitioning between Organelles. *Plant Physiology* (2016). Aug;171(4):2468-82.
7. Pinnola A, Cazzaniga S, **Alboresi A**, Nevo R, Levin-Zaidman S, Reich Z, Bassi R. Light-Harvesting Complex Stress-Related Proteins Catalyze Excess Energy Dissipation in Both Photosystems of *Physcomitrella patens*. *The Plant Cell* (2015). Nov;27(11):3213-27.
8. Scibilia L, Girolomoni L, Berteotti S, **Alboresi A**, Ballottari M. Photosynthetic response to nitrogen starvation and high light in *Haematococcus pluvialis*. *Algal Research* (2015). Volume 12, November, Pages 170–181.
9. Pinnola A, Ghin L, Gecchele E, Merlin M, **Alboresi A**, Avesani L, Pezzotti M, Capaldi S, Cazzaniga S, Bassi R. Heterologous expression of moss light-harvesting complex stress-related I (LHCSR1), the chlorophyll a-xanthophyll pigment-protein complex catalyzing non-photochemical quenching, in *Nicotiana* sp. *The Journal of Biological Chemistry* (2015). Oct 2;290(40):24340-54.

10. Perin G, Bellan A, Segalla A, Meneghesso A, **Alboresi A**, Morosinotto T. Generation of random mutants to improve light-use efficiency of *Nannochloropsis gaditana* cultures for biofuel production. *Biotechnol Biofuels*. 2015 Sep 25;8:161. doi: 10.1186/s13068-015-0337-5. eCollection 2015.
11. Pinnola A, Dall'Osto L, Gerotto C, Morosinotto T, Bassi R, **Alboresi A**. Zeaxanthin binds to LHCSR protein to Enhance Non-Photochemical Quenching in *Physcomitrella patens*. *The Plant Cell* (2013). Sep;25(9):3519-34.
12. Floris M, Bassi R, Robaglia C, **Alboresi A**^{**}, Lanet E^{**}. Post-transcriptional control of light-harvesting genes expression under light stress. *Plant Molecular Biology* (2013). May;82(1-2):147-54.
13. Dall'osto L, Piques M, Ronzani M, Molesini B, **Alboresi A**, Cazzaniga S, Bassi R. The Arabidopsis nox Mutant Lacking Carotene Hydroxylase Activity Reveals a Critical Role for Xanthophylls in Photosystem I Biogenesis. *The Plant Cell* (2013). Feb;25(2):591-608.
14. Gerotto C, **Alboresi A**, Giacometti GM, Bassi R, Morosinotto T. Coexistence of plant and algal energy dissipation mechanisms in the moss *Physcomitrella patens*. *New Phytologist*. (2012). Nov;196(3):763-73.
15. Azzabi G*, Pinnola A*, Betterle N, Bassi R, **Alboresi A**. Enhancement of Non Photochemical Quenching in the Bryophyte *Physcomitrella patens* during Acclimation to Salt and Osmotic stress. *Plant and Cell Physiology* (2012). Oct;53(10):1815-25.
16. **Alboresi A**, Gerotto C, Cazzaniga S, Bassi R, Morosinotto T. A red shifted antenna protein associated to photosystem II in *Physcomitrella patens*. *The Journal of Biological Chemistry* (2011). Aug 19;286(33):28978-87.
17. **Alboresi A***, Dall'Osto L*, Aprile A, Carillo P, Roncaglia E, Cattivelli L, Bassi R. Reactive oxygen species and transcript analysis upon excess light treatment in wild-type *Arabidopsis thaliana* vs a photosensitive mutant lacking zeaxanthin and lutein. *BMC Plant Biology* (2011). Apr 11;11(1):62.
18. Gerotto C, **Alboresi A**, Giacometti GM, Bassi R, Morosinotto T. Role of PSBS and LHCSR in *Physcomitrella patens* acclimation to high light and low temperature. *Plant, Cell and Environment* (2011). Jun;34(6):922-32.
19. **Alboresi A**, Gerotto C, Giacometti GM, Bassi R, Morosinotto T. *Physcomitrella patens* mutants affected on heat dissipation clarify the evolution of photoprotection mechanisms upon land colonization. *Proceedings of the National Academy of Sciences of the United States of America* (2010). Jun 15;107(24):11128-33.
20. **Alboresi A**, Ballottari M, Hienerwadel R, Giacometti GM, Morosinotto T. Antenna complexes protect Photosystem I from photoinhibition. *BMC Plant Biology* (2009). Jun 9;9:71.

21. Matakiadis T, **Alboresi A**, Jikumaru Y, Tatematsu K, Pichon O, Renou JP, Kamiya Y, Nambara E, Truong HN. The Arabidopsis abscisic acid catabolic gene *CYP707A2* plays a key role in nitrate control of seed dormancy. *Plant Physiology* (2009). 149(2), 949-960.
22. Dubos C, Le Gourrierc J, Baudry A, Huet G, Lanet E, Debeaujon I, Routaboul JM, **Alboresi A**, Weisshaar B, Lepiniec L. MYBL2 is a new regulator of flavonoid biosynthesis in *Arabidopsis thaliana*. *Plant Journal* (2008). 55(6), 940-953.
23. **Alboresi A**, Caffarri S, Nogue F, Bassi R, Morosinotto T. *In silico* and biochemical analysis of *Physcomitrella patens* photosynthetic antenna: identification of subunits which evolved upon land adaptation. *PLoS ONE* (2008). 30;3(4), e2033.
24. **Alboresi A**, Gustin C, Leydecker MT, Bedu M, Meyer C, Truong HN. Nitrate, a signal relieving seed dormancy in Arabidopsis. *Plant, Cell and Environment* (2005). 28, 500-512.
25. Castella G, Larsen TO, Cabanes J, Schmidt H, **Alboresi A**, Niessen L, Färber P, Geisen R. Molecular characterization of ochratoxin A producing strains of the genus *Penicillium*. *Systematic and applied microbiology* (2002). 25, 74-83.

* co-first
** co-last author