

## OPEN FLUORCAM

### LIST OF REFERENCES

HERDEAN, A., HALL, C., HUGHES, D.J. ET AL. (2022). TEMPERATURE MAPPING OF NON-PHOTOCHEMICAL QUENCHING IN CHLORELLA VULGARIS. PHOTOSYNTH RES (2022).

**DOI: 10.1007/s11120-022-00981-0**

LARSEN, D. H., LI, H., VAN DE PEPPEL, A. C., NICOLE, C. C. S., ET AL. (2022). High light intensity at End-Of-Production improves the nutritional value of basil but does not affect postharvest chilling tolerance. Food Chemistry, 369, 130913.

**DOI:10.1016/j.foodchem.2021.13091**

LI, M., LIU, Z., LIU, C., ET AL. (2022) Drought resistance of tobacco overexpressing the AfNAC1 gene of Amorpha fruticosa Linn. Front. Plant Sci. 13:980171.

**DOI: 10.3389/fpls.2022.980171**

NAWROT-CHORABIK, K.; SUŁKOWSKA, M.; OSMENDA, M.; ET AL. (2022). The Impact of Biotic and Abiotic Stress Factors on Development of European Ash Tissue Cultures. Forests 2022, 13, 59.

**DOI: 10.3390/f13010059**

PÉREZ-BUENO, M.L., ILLESCAS-MIRANDA, J., MARTÍN-FORERO, A.F., ET AL. (2022). An extremely low stomatal density mutant overcomes cooling limitations at supra-optimal temperature by adjusting stomatal size and leaf thickness. Front. Plant Sci. 13:919299.

**DOI: 10.3389/fpls.2022.919299**

PITALOKA, M.K., CAINE, R.S., HEPWORTH, C., HARRISON E.L., SLOAN J, ET AL. (2022). Induced Genetic Variations in Stomatal Density and Size of Rice Strongly Affects Water Use Efficiency and Responses to Drought Stresses. Front. Plant Sci. 13:801706.

**DOI: 10.3389/fpls.2022.801706**

PINEDA, M.; BARÓN, M. (2022). Health Status of Oilseed Rape Plants Grown under Potential Future Climatic Conditions Assessed by Invasive and Non-Invasive Techniques. Agronomy, 12, 1845.

**DOI: 10.3390/agronomy12081845**

ROMAND, S., ABDELKEFI, H., LECAMPION C., BELAROUSSI M., ET AL. (2022). A guanosine tetraphosphate (ppGpp) mediated brake on photosynthesis is required for acclimation to nitrogen limitation in Arabidopsis. Elife.

**DOI: 10.7554/eLife.75041.**

TIAN, J.; ZHAO, Y.; PAN, Y.; CHEN, X., ET AL. (2022). Exogenous Applications of Spermidine Improve Drought Tolerance in Seedlings of the Ornamental Grass Hordeum jubatum in Northeast China. Agronomy, 12, 1180.

**DOI: 10.3390/agronomy12051180**

WANG T, HAN H, XIE B, ET AL. (2022). *Comparative Chlorophyll Fluorescence and Growth Responses of two Amaranthus Species to Increased N Supply Variability. Polish Journal of Environmental Studies.* 31(4):3867-3878.

**DOI:10.15244/pjoes/146739.**

ECKSTEIN A., GRZYB J., HERMANOWICZ P., ZGŁOBICKI P., ET AL. (2021). *Arabidopsis Phototropins Participate in the Regulation of Dark-Induced Leaf Senescence.* International Journal of Molecular Sciences. 22(4):1836.

**DOI: 10.3390/ijms22041836**

GUADAGNO, C. R., BEVERLY, D. P., & EWERS, B. E. (2021). *The love–hate relationship between chlorophyll a and water in PSII affects fluorescence products.* Photosynthetica, 59(3), 409-421.

**DOI 10.32615/ps.2021.023**

HOANG, M. T. T., DOAN, M. T. A., NGUYEN, T., TRA, D.-P., ET AL. (2021). *Phenotypic Characterization of Arabidopsis Ascorbate and Glutathione Deficient Mutants under Abiotic Stresses.* Agronomy, 11(4), 764.

**DOI:10.3390/agronomy11040764**

HUO, L., GUO, Z., WANG, P., SUN, X., XU, K., & MA, F. (2021). *MdHARB1, a MdATG8i-interacting protein, plays a positive role in plant thermotolerance.* Plant Science, 306, 110850.

**DOI:10.1016/j.plantsci.2021.11085**

HUO, L., GUO, Z., WANG, Q., CHENG, L., ET AL. (2021). *Enhanced Autophagic Activity Improved the Root Growth and Nitrogen Utilization Ability of Apple Plants under Nitrogen Starvation.* International Journal of Molecular Sciences, 22(15), 8085.

**DOI:10.3390/ijms22158085**

JIA, X., GONG, X., JIA, X., LI, X., ET AL. (2021). *Overexpression of MdATG8i Enhances Drought Tolerance by Alleviating Oxidative Damage and Promoting Water Uptake in Transgenic Apple.* International Journal of Molecular Sciences, 22(11), 5517.

**DOI:10.3390/ijms22115517**

LICHTENTHALER, H. K. (2021). *Multi-colour fluorescence imaging of photosynthetic activity and plant stress.* Photosynthetica, 59(2), 4-20.

**DOI 10.32615/ps.2021.020**

LIU, T., SHI, J., LI, M., YE, X., & QI, H. (2021). *Trehalose triggers hydrogen peroxide and nitric oxide to participate in melon seedlings oxidative stress tolerance under cold stress.* Environmental and Experimental Botany, 184, 104379.

**DOI:10.1016/j.envexpbot.2021.1043**

MA X., LI Y., GAI W.-X., ET AL. (2021). *The CaCIPK3 gene positively regulates drought tolerance in pepper.* Horticulture Research, Volume 8, 216,

**DOI: 10.1038/s41438-021-00651-7**

MUDRILOV, M., LADEYNOVA, M., BEREZINA, E., GRINBERG, M., ET AL. (2021). Mechanisms of specific systemic response in wheat plants under different locally acting heat stimuli. *Journal of Plant Physiology*, 258-259, 153377.

**DOI:10.1016/j.jplph.2021.153377**

NAWROT-CHORABIK K, SUŁKOWSKA M, OSMENDA M, MOHYTYCH V, ET AL. (2021). The Impact of Biotic and Abiotic Stress Factors on Development of European Ash Tissue Cultures. *Forests*. 2022; 13(1):59.

**DOI: 10.3390/f13010059**

OTERO-BLANCA A, PÉREZ-LLANO Y, REBOLEDO-BLANCO G, ET AL. (2021). Ponce De León I, Batista-García RA. *Physcomitrium patens* Infection by *Colletotrichum gloeosporioides*: Understanding the Fungal–Bryophyte Interaction by Microscopy, Phenomics and RNA Sequencing. *Journal of Fungi*. 7(8):677.

**DOI: 10.3390/jof7080677**

PASCUAL, J., RAHIKAINEN, M., ANGELERI, M., ET AL. (2021). ACONITASE 3 is part of the ANAC017 transcription factor-dependent mitochondrial dysfunction response. *Plant Physiology*, 186(4), 1859–1877.

**DOI:10.1093/plphys/kiab225**

SHIN Y.K., BHANDARI S.R. AND LEE J.G. (2021) Monitoring of Salinity, Temperature, and Drought Stress in Grafted Watermelon Seedlings Using Chlorophyll Fluorescence. *Front. Plant Sci.* 12:786309.

**DOI: 10.3389/fpls.2021.786309**

SHIN Y.K., BHANDARI S.R., JO J.S., SONG J.W., LEE J.G. (2021). Effect of Drought Stress on Chlorophyll Fluorescence Parameters, Phytochemical Contents, and Antioxidant Activities in Lettuce Seedlings. *Horticulturae*. 7(8):238.

**DOI: 10.3390/horticulturae7080238**

SUKHOV V., SUKHOVA, E., KHLOPKOV, A., YUDINA, L., ET AL. (2021). Proximal Imaging of Changes in Photochemical Reflectance Index in Leaves Based on Using Pulses of Green-Yellow Light. *Remote Sensing*, 13(9), 1762

**DOI: 10.3390/rs1309176**

SUN, H., LEI, C., XU, J., & LI, R. (2021). Foliar uptake and leaf-to-root translocation of nanoplastics with different coating charge in maize plants. *Journal of Hazardous Materials*, 416, 125854.

**DOI:10.1016/j.jhazmat.2021.125854**

WANG, J., PENG, X., GAO, Y., WANG, Y., LIN, J., & YAN, X. (2021). Physiological and proteomics analyses reveal the resistance response mechanism to alkali stress in the early seedlings (cotyledons vs. roots) of castor plant (*Ricinus communis* L.). *Environmental and Experimental Botany*, 185, 104414.

**DOI:10.1016/j.envexpbot.2021.1044**

WANG, Y., LIU, J., YANG, F., ZHOU, W., MAO, S., LIN, J., & YAN, X. (2021). Untargeted LC-MS-based metabolomics revealed specific metabolic changes in cotyledons and roots of *Ricinus communis* during early seedling establishment under salt stress. *Plant Physiology and Biochemistry*, 163, 108–118.

**DOI:10.1016/j.plaphy.2021.03.019**

XU, J., KANG, Z., ZHU, K., ZHAO, D., YUAN, Y., ET AL. (2021). *RBOH1-dependent H<sub>2</sub>O<sub>2</sub> mediates spermine-induced antioxidant enzyme system to enhance tomato seedling tolerance to salinity–alkalinity stress*. *Plant Physiology and Biochemistry*, 164, 237–246.

**DOI:10.1016/j.plaphy.2021.04.017**

ZHANG, R., YUE, Z., CHEN, X., WANG, Y., ET AL. (2021). *Foliar applications of urea and melatonin to alleviate waterlogging stress on photosynthesis and antioxidant metabolism in sorghum seedlings*. *Plant Growth Regulation*.

**DOI:10.1007/s10725-021-00705-9**

ZSOM, T., ZSOM-MUHA, V., LE NGUYEN, L. P., ET AL. (2021). *Nondestructive detection of low temperature induced stress on postharvest quality of kápia type sweet pepper*, *Progress in Agricultural Engineering Sciences*, 16(S2), 173-186. Retrieved Feb 2, 2022,

**DOI: 10.1556/446.2020.20019**

ZSOM-MUHA, V., NGUYEN, L. L. P., BARANYAI, L., HITKA, G., HORVÁTH-MEZŐFI, Z., SZABÓ, G., & ZSOM, T. (2021). *An attempt to the nondestructive investigation of photo-induced potato postharvest quality degradation – Preliminary results*, *Progress in Agricultural Engineering Sciences*, 17(S1), 99-109.

**DOI: 10.1556/446.2021.30012**

AMARAL, J., CORREIA, B., ESCANDÓN, M., ET AL. (2020). *Temporal physiological response of pine to Fusarium circinatum infection is dependent on host susceptibility level: the role of ABA catabolism*. *Tree Physiology*.

**DOI:10.1093/treephys/tpaa143**

AVILAN L., LEBRUN R, PUPPO C., ET AL. (2020). *ppGpp influences protein protection, growth and photosynthesis in Phaeodactylum tricorutum*. *bioRxiv* 2020.03.05.978130;

**DOI: 10.1101/2020.03.05.978130**

CRUZ BARRERA, M., JAKOBS-SCHOENWANDT, D., GÓMEZ, M. I., SERRATO, J., ET AL. (2020). *Formulating bacterial endophyte: Pre-conditioning of cells and the encapsulation in amidated pectin beads*. *Biotechnology Reports*, 26, e00463.

**DOI:10.1016/j.btre.2020.e00463**

HERPPICH W.B., MAGGIONI M., HUYSKENS-KEIL S., KABELITZ T., HASSENBERG K. (2020). *Optimization of Short-Term Hot-Water Treatment of Apples for Fruit Salad Production by Non-Invasive Chlorophyll-Fluorescence Imaging*. *Foods*. 9(6):820.

**DOI: 10.3390/foods9060820**

HUANG, D., WANG, Q., JING, G., MA, M., LI, C., & MA, F. (2020). *Overexpression of MdIAA24 improves apple drought resistance by positively regulating strigolactone biosynthesis and mycorrhization*. *Tree Physiology*.

**DOI:10.1093/treephys/tpaa109**

HUO, L., SUN, X., GUO, Z., JIA, X., CHE, R., ET AL. (2020). *MdATG18a overexpression improves basal thermotolerance in transgenic apple by decreasing damage to chloroplasts*. *Horticulture Research*, 7(1).

**DOI:10.1038/s41438-020-0243-2**

LADEYNOVA M, MUDRILOV M, BEREZINA E, KIOR D, ET AL. (2020). *Spatial and Temporal Dynamics of Electrical and Photosynthetic Activity and the Content of Phytohormones Induced by Local Stimulation of Pea Plants*. *Plants*, 2020; 9(10):1364.

**DOI: 10.3390/plants9101364**

LIU, T., JIAO, X., YANG, S., ZHANG, Z., YE, X., ET AL. (2020). *Crosstalk between GABA and ALA to improve antioxidation and cell expansion of tomato seedling under cold stress*. *Environmental and Experimental Botany*, 104228.

**DOI:10.1016/j.envexpbot.2020.1042**

MÉLINE, V., BRIN, C., LEBRETON, G., ET AL. (2020). *A Computation Method Based on the Combination of Chlorophyll Fluorescence Parameters to Improve the Discrimination of Visually Similar Phenotypes Induced by Bacterial Virulence Factors*. *Frontiers in Plant Science*, 11.

**DOI:10.3389/fpls.2020.00213**

SHIN, Y. K., BHANDARI, S. R., CHO, M. C., & LEE, J. G. (2020). *Evaluation of chlorophyll fluorescence parameters and proline content in tomato seedlings grown under different salt stress conditions*. *Horticulture, Environment, and Biotechnology*.

**DOI: 10.1007/s13580-020-00231-z**

SHIN, Y. K., BHANDARI, S. R., JO, J. S., SONG, J. W., ET AL. (2020). *Response to Salt Stress in Lettuce: Changes in Chlorophyll Fluorescence Parameters, Phytochemical Contents, and Antioxidant Activities*. *Agronomy*, 10(11), 1627.

**DOI:10.3390/agronomy10111627**

SUKAČOVÁ, K.; VÍCHA, D.; DUŠEK, J. (2020). *Perspectives on Microalgal Biofilm Systems with Respect to Integration into Wastewater Treatment Technologies and Phosphorus Scarcity*. *Water*, 2245.

**DOI: 10.3390/w12082245**

TIAN, X., XIE, J., & YU, J. (2020). *Physiological and transcriptomic responses of Lanzhou Lily (*Lilium davidii*, var. *unicolor*) to cold stress*. *PLOS ONE*, 15(1), e0227921.

**DOI:10.1371/journal.pone.0227921**

VÍTEK, P., VESELÁ, B., & KLEM, K. (2020). *Spatial and Temporal Variability of Plant Leaf Responses Cascade after PSII Inhibition: Raman, Chlorophyll Fluorescence and Infrared Thermal Imaging*. *Sensors*, 20(4), 1015.

**DOI:10.3390/s20041015**

WANG, X., AJAB, Z., LIU, C., HU, S., LIU, J., & GUAN, Q. (2020). *Overexpression of transcription factor SIWRKY28 improved the tolerance of *Populus davidiana* × *P. bolleana* to alkaline salt stress*. *BMC Genetics*, 21(1).

**DOI: 10.1186/s12863-020-00904-9**

XU, J., YANG, J., XU, Z., ZHAO, D., & HU, X. (2020). *Exogenous spermine-induced expression of SISPMS gene improves salinity–alkalinity stress tolerance by regulating the antioxidant enzyme system and ion homeostasis in tomato*. *Plant Physiology and Biochemistry*.

**DOI:10.1016/j.plaphy.2020.09.033**

YOON, H. I., KIM, D., & SON, J. E. (2020). *Spatial and temporal bioactive compound contents and chlorophyll fluorescence of kale ( Brassica oleracea L.) under UV-B exposure near harvest time in controlled environments. Photochemistry and Photobiology.*

**DOI:10.1111/php.13237**

ZHUANG, W., LIU, T., SHU, X., WANG, H., ET AL. (2020). *Overexpression of MzASMT 1, a Gene From Malus zumi Mats, Enhances Salt Tolerance in Transgenic Tobacco. Frontiers in Plant Science, 11.*

**DOI:10.3389/fpls.2020.561903**

ALKIMIN, G. D., DANIEL, D., FRANKENBACH, S., SERÔDIO, J., ET AL. (2019). *Evaluation of pharmaceutical toxic effects of non-standard endpoints on the macrophyte species Lemna minor and Lemna gibba. Science of The Total Environment, 657, 926–937.*

**DOI:10.1016/j.scitotenv.2018.12.002**

CASTALDELLO, C., SFORZA, E., CIMETTA, E., MOROSINOTTO, T., & BEZZO, F. (2019). *A microfluidic platform for microalgae cultivation under non-limiting CO2 conditions. Industrial & Engineering Chemistry Research.*

**DOI:10.1021/acs.iecr.9b02888**

CAI, J., LUO, F., ZHAO, Y., ZHOU, Q., WEI, B., ZHOU, X., & JI, S. (2019). *24-Epibrassinolide treatment regulates broccoli yellowing during shelf life. Postharvest Biology and Technology, 154, 87–95.*

**DOI:10.1016/j.postharvbio.2019.04.019**

DAKHIYA, Y. AND GREEN, R. M. (2019). *Thermal imaging as a non-invasive technique for analyzing circadian rhythms in plants. New Phytol. Accepted Author Manuscript.*

**DOI:10.1111/nph.16124**

GARRIDO, A., SERÔDIO, J., DE VOS, R., CONDE, A., & CUNHA, A. (2019). *Influence of Foliar Kaolin Application and Irrigation on Photosynthetic Activity of Grape Berries. Agronomy, 9(11), 685.*

**DOI:10.3390/agronomy9110685**

JIN, X., LIU, T., XU, J., GAO, Z., & HU, X. (2019). *Exogenous GABA enhances muskmelon tolerance to salinity-alkalinity stress by regulating redox balance and chlorophyll biosynthesis. BMC Plant Biology, 19(1).*

**DOI:10.1186/s12870-019-1660-y**

KHUONG, T. T. H., ROBAGLIA, C., & CAFFARRI, S. (2019). *Photoprotection and growth under different lights of Arabidopsis single and double mutants for energy dissipation (npq4) and state transitions (pph1). Plant Cell Reports.*

**DOI:10.1007/s00299-019-02403-3**

KIM, J.H., BHANDARI, S.R., CHAE, S.Y. ET AL. (2019). *Application of maximum quantum yield, a parameter of chlorophyll fluorescence, for early determination of bacterial wilt in tomato seedlings. Hortic. Environ. Biotechnol. 60, 821–829.*

**DOI: 10.1007/s13580-019-00182-0**

LANG J., MELNYKOVA M., CATANIA M., ET AL. (2019). *A water-soluble [60] fullerene-derivative stimulates chlorophyll accumulation and has no toxic effect on Chlamydomonas reinhardtii. Acta Biochimica polonica. Vol. 66.*

**DOI: 10.18388/abp.2019\_2835**

LEAL-DELGADO, R., PEÑA-VALDIVIA, C. B., GARCÍA-NAVA, R., ET AL. (2019). Phenotypical, physiological and biochemical traits of the vegetative growth of wild tepary bean (*Phaseolus acutifolius*) under restricted water conditions. *South African Journal of Plant and Soil*, 1–10.

**DOI:10.1080/02571862.2018.1554749**

LI, Y., LIU, B., PENG, Y., LIU, C., ZHANG, X., ZHANG, Z., ET AL. (2019). Exogenous GABA alleviates alkaline stress in *Malus hupehensis* by regulating the accumulation of organic acids. *Scientia Horticulturae*, 108982.

**DOI:10.1016/j.scienta.2019.108982**

LIANG, C., WU, R., HAN, Y., WAN, T., ET AL. (2019). Optimizing Suitable Antibiotics for Bacterium Control in Micropropagation of Cherry Rootstock Using a Modified Leaf Disk Diffusion Method and E Test. *Plants*, 8, 66.

**DOI:10.3390/plants8030066**

LIU, T., YE, X., LI, M., LI, J., QI, H., & HU, X. (2019). H<sub>2</sub>O<sub>2</sub> and NO are involved in trehalose-regulated oxidative stress tolerance in cold-stressed tomato plants. *Environmental and Experimental Botany*, 103961.

**DOI: 10.1016/j.envexpbot.2019.1039**

LIU, S., ZHENG, L., JIA, J., GUO, J., ET AL. (2019). Chloroplast Translation Elongation Factor EF-Tu/SVR11 Is Involved in var2-Mediated Leaf Variegation and Leaf Development in *Arabidopsis*. *Frontiers in Plant Science*, 10.

**DOI:10.3389/fpls.2019.00295**

LUO, F., CAI, J.-H., KONG, X.-M., ZHOU, Q., ZHOU, X., ZHAO, Y.-B., & JI, S.-J. (2019). Transcriptome profiling reveals the roles of pigment mechanisms in postharvest broccoli yellowing. *Horticulture Research*, 6(1).

**DOI:10.1038/s41438-019-0155-1**

MISHRA, K. B., VÍTEK, P., & BARTÁK, M. (2019). A correlative approach, combining chlorophyll a fluorescence, reflectance, and Raman spectroscopy, for monitoring hydration induced changes in Antarctic lichen *Dermatocarpon polyphyllizum*. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 208, 13–23.

**DOI:10.1016/j.saa.2018.09.036**

NOWICKA, B. (2019). Practical aspects of the measurements of nonphotochemical chlorophyll fluorescence quenching in green microalgae *Chlamydomonas reinhardtii* using Open FluorCam. *Physiologia Plantarum*.

**DOI:10.1111/ppl.13003**

NUNES, B., VEIGA, V., FRANKENBACH, S., SERÔDIO, J., & PINTO, G. (2019). Evaluation of physiological changes induced by the fluoroquinolone antibiotic ciprofloxacin in the freshwater macrophyte species *Lemna minor* and *Lemna gibba*. *Environmental Toxicology and Pharmacology*, 103242.

**DOI:10.1016/j.etap.2019.103242**

PENG, X.; YU, D.; YAN, J.; ZHANG, N.; LIN, J.; WANG, J. (2019). Physiological and Proteomic Analyses Reveal Adaptive Mechanisms of Ryegrass (Annual vs. Perennial) Seedlings to Salt Stress. *Agronomy*, 9, 843.

**DOI: 10.3390/agronomy9120843**

POLONIO, Á., PINEDA, M., BAUTISTA, R., MARTÍNEZ-CRUZ, J., PÉREZ-BUENO, M. L., BARÓN, M., & PÉREZ-GARCÍA, A. (2019). RNA-seq analysis and fluorescence imaging of melon powdery mildew disease reveal an orchestrated reprogramming of host physiology. *Scientific Reports*, 9(1).

**DOI:10.1038/s41598-019-44443-5**

PÉREZ-PIZÁ M. C., PREVOSTO L., GRIJALBA P. E., ET AL. (2019). *Improvement of growth and yield of soybean plants through the application of non-thermal plasmas to seeds with different health status. Heliyon, Volume 5.*

**DOI: 10.1016/j.heliyon.2019.e01495.**

ROLA, K., LATKOWSKA, E., MYŚLIWA-KURDZIEL, B., & OSYCZKA, P. (2019). *Heavy-metal tolerance of photobiont in pioneer lichens inhabiting heavily polluted sites. Science of The Total Environment.*

**DOI:10.1016/j.scitotenv.2019.05.002**

SEGEČOVÁ, A., PÉREZ-BUENO, M. L., BARÓN, M., ČERVENÝ, J., & ROITSCH, T. G. (2019). *Noninvasive determination of toxic stress biomarkers by high-throughput screening of photoautotrophic cell suspension cultures with multicolor fluorescence imaging. Plant Methods, 15(1).*

**DOI:10.1186/s13007-019-0484-y**

WANG, Y., JIE, W., PENG, X., HUA, X., YAN, X., ZHOU, Z., & LIN, J. (2019). *Physiological Adaptive Strategies of Oil Seed Crop Ricinus communis Early Seedlings (Cotyledon vs. True Leaf) Under Salt and Alkali Stresses: From the Growth, Photosynthesis and Chlorophyll Fluorescence. Frontiers in Plant Science, 9.*

**DOI:10.3389/fpls.2018.01939**

WANG, Y., XU, Y., PENG, X., YAN, J., YAN, X., ZHOU, Z., & LIN, J. (2019). *Cotyledon removal decreases salt tolerance during seedling establishment of Ricinus communis, an oilseed energy crop species. Industrial Crops and Products, 142, 111857.*

**DOI:10.1016/j.indcrop.2019.111857**

WANG, Y., PENG, X., SALVATO, F., WANG, Y., YAN, X., ZHOU, Z., & LIN, J. (2019). *Salt-adaptive strategies in oil seed crop Ricinus communis early seedlings (cotyledon vs. true leaf) revealed from proteomics analysis. Ecotoxicology and Environmental Safety, 171, 12–25.*

**DOI:10.1016/j.ecoenv.2018.12.046**

WEI, Z., LI, C., GAO, T., ZHANG, Z., ET AL. (2019). *Melatonin increases the performance of Malus hupehensis after UV-B exposure. Plant Physiology and Biochemistry.*

**DOI:10.1016/j.plaphy.2019.04.026**

XU, J., LIU, T., YANG, S., JIN, X., QU, F., HUANG, N., & HU, X. (2019). *Polyamines are involved in GABA-regulated salinity-alkalinity stress tolerance in muskmelon. Environmental and Experimental Botany.*

**DOI:10.1016/j.envexpbot.2019.05.011**

BHANDARI S. R., KIM Y. H., LEE J. G. (2018). *Detection of Temperature Stress Using Chlorophyll Fluorescence Parameters and Stress-related Chlorophyll and Proline Content in Paprika (Capsicum annuum L.) Seedlings. Horticulture Science and Technology .Vol. 36, Issue. 5*

**DOI: 10.12972/kjhst.20180062**

GARRIDO, A., BREIA, R., SERÔDIO, J., & CUNHA, A. (2018). *Impact of the Light Microclimate on Photosynthetic Activity of Grape Berry (Vitis vinifera): Insights for Radiation Absorption Mitigations' Measures. Theory and Practice of Climate Adaptation, 419–441.*

**DOI:10.1007/978-3-319-72874-2\_24**



KIM, Y.-S., KIM, J.-J., PARK, S.-I., DIAMOND, S., ET AL. (2018). Expression of OsTPX Gene Improves Cellular Redox Homeostasis and Photosynthesis Efficiency in *Synechococcus elongatus* PCC 7942. *Frontiers in Plant Science*, 9. DOI:10.3389/fpls.2018.01848

KLEEFELD, A., GYPSER, S., HERPPICH, W. B., BADER, G., & VESTE, M. (2018). Identification of spatial pattern of photosynthesis hotspots in moss- and lichen-dominated biological soil crusts by combining chlorophyll fluorescence imaging and multispectral BNDVI images. *Pedobiologia*, 68, 1–11. DOI:10.1016/j.pedobi.2018.04.001

LIU, H., & LIAO, X. (2018). The effects of fluorocarbon special surfactant (FS-30) additive on the phase inversion, morphology and separation performance of poly(vinylidene fluoride) (PVDF) membranes. *Separation and Purification Technology*. DOI:10.1016/j.seppur.2018.11.060

LIU, T., HU, X., ZHANG, J., ZHANG, J., DU, Q., & LI, J. (2018). H<sub>2</sub>O<sub>2</sub> mediates ALA-induced glutathione and ascorbate accumulation in the perception and resistance to oxidative stress in *Solanum lycopersicum* at low temperatures. *BMC Plant Biology*, 18(1). DOI:10.1186/s12870-018-1254-0

LIU, T., XU, J., LI, J., & HU, X. (2018). NO is involved in JA- and H<sub>2</sub>O<sub>2</sub>-mediated ALA-induced oxidative stress tolerance at low temperatures in tomato. *Environmental and Experimental Botany*. DOI:10.1016/j.envexpbot.2018.10.020

MELINE V., DELAGE W., BRIN CH., ET AL. (2018). Role of the acquisition of a Type 3 Secretion System in the emergence of novel pathogenic strains of *Xanthomonas*. *Molecular Plant Pathology*. DOI:10.1111/mpp.12737

PINEDA, M., PÉREZ-BUENO, M. L., & BARÓN, M. (2018). Detection of Bacterial Infection in Melon Plants by Classification Methods Based on Imaging Data. *Frontiers in Plant Science*, 9. DOI:10.3389/fpls.2018.00164

QIAN, W., XIAO, B., WANG, L., ET AL. (2018). CsINV5, a tea vacuolar invertase gene enhances cold tolerance in transgenic *Arabidopsis*. *BMC Plant Biology*, 18(1). DOI:10.1186/s12870-018-1456-5

SANDMANN, M., GROSCH, R., & GRAEFE, J. (2018). The Use of Features from Fluorescence, Thermography, and NDVI Imaging to Detect Biotic Stress in Lettuce. *Plant Disease*, 102(6), 1101–1107. DOI:10.1094/pdis-10-17-1536-re

WALKER B.J., BUSCH F.A., DRIEVER S.M., KROMDIJK J., LAWSON T. (2018) Survey of Tools for Measuring In Vivo Photosynthesis. In: Covshoff S. (eds) *Photosynthesis. Methods in Molecular Biology*, vol 1770. Humana Press, New York, NY

ABDELKEFI, H., SUGLIANI, M., KE, H., ET AL. (2017). Guanosine tetraphosphate modulates salicylic acid signalling and the resistance of *Arabidopsis thaliana* to Turnip mosaic virus. *Molecular Plant Pathology*, 19(3), 634–646. DOI:10.1111/mpp.12548

DAKHIYA, Y., HUSSEIN, D., FRIDMAN, E., KIFLAWI, M., & GREEN, R. (2017). Correlations between Circadian Rhythms and Growth in Challenging Environments. *Plant Physiology*, 173(3), 1724–1734.

**DOI:10.1104/pp.17.00057**

FRANKENBACH S. AND SERÔDIO J. (2017). One pulse, one light curve: Fast characterization of the light response of microphytobenthos biofilms using chlorophyll fluorescence. *Limnol. Oceanogr. Methods*. Volume 15.

**DOI:10.1002/lom3.10180**

LIANG, S., QI, Y., ZHAO, J., ET AL. (2017). Mutations in the Arabidopsis AtMRS2-11/AtMGT10/VAR5 Gene Cause Leaf Reticulation. *Frontiers in Plant Science*, 8.

**DOI: 10.3389/fpls.2017.02007**

OLIVEIRA, V., GOMES, N. C. M., SANTOS, M., ET AL. (2017). Effects of the Inoculant Strain *Pseudomonas* sp. SPN31 nah + and of 2-Methylnaphthalene Contamination on the Rhizosphere and Endosphere Bacterial Communities of *Halimione portulacoides*. *Current Microbiology*, 74(5), 575–583.

**DOI:10.1007/s00284-017-1197-y**

PINEDA M., PÉREZ-BUENOM. L., PAREDES V., ET AL. (2017). Use of multicolour fluorescence imaging for diagnosis of bacterial and fungal infection on zucchini by implementing machine learning. *Functional Plant Biology* 44(6) 563-572

**DOI: 10.1071/FP16164**

SHUKLA, M. R., SINGH, A. S., PIUNNO, K., ET AL. (2017). Application of 3D printing to prototype and develop novel plant tissue culture systems. *Plant Methods*, 13(1).

**DOI:10.1186/s13007-017-0156-8**

VÍTEK, P., NOVOTNÁ, K., HODAŇOVÁ, P., RAPANTOVÁ, B., & KLEM, K. (2017). Detection of herbicide effects on pigment composition and PSII photochemistry in *Helianthus annuus* by Raman spectroscopy and chlorophyll a fluorescence. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 170, 234–241.

**DOI:10.1016/j.saa.2016.07.025**

CASTAINGS L., CAQUOT A., LOUBET S., ET AL. (2016). The high-affinity metal Transporters NRAMP1 and IRT1 Team up to Take up Iron under Sufficient Metal Provision. *Scientific Reports*, 6, 37222.

**DOI: 10.1038/srep37222**

MISHRA K. B, MISHRA A., NOVOTNÁ K., ET AL. (2016). Chlorophyll a fluorescence, under half of the adaptive growth-irradiance, for high-throughput sensing of leaf-water deficit in *Arabidopsis thaliana* accessions. *Plant Methods*. Volume 12.

**DOI: 10.1186/s13007-016-0145-3**

MONTERO R., PÉREZ-BUENO M. L., BARÓN M., ET AL. (2016). Alterations in primary and secondary metabolism in *Vitis vinifera* 'Malvasía de Banyalbufar' upon infection with Grapevine leafroll-associated virus 3. *Physiologia Plantarum*. Volume 157.

**DOI:10.1111/ppl.12440**

NOWICKA B., PLUCIŃSKI B., KUCZYŃSKA P., ET AL. (2016). Physiological characterization of *Chlamydomonas reinhardtii* acclimated to chronic stress induced by Ag, Cd, Cr, Cu and Hg ions, *Ecotoxicology and Environmental Safety*. Volume 130.

**DOI: 10.1016/j.ecoenv.2016.04.010.**

*PÉREZ-BUENO M. L., PINEDA M., CABEZA F. M., ET AL. (2016). Multicolor fluorescence imaging as a candidate for disease detection in plant phenotyping. Frontiers in Plant Science. Volume 7.*

**DOI:10.3389/fpls.2016.01790**

*QI Y., LUI X., LIANG S., ET AL. (2016). A Putative Chloroplast Thylakoid Metalloprotease VIRESCENT3 Regulates Chloroplast Development in Arabidopsis thaliana. The Journal of Biological Chemistry. Volume 291.*

**DOI: 10.1074/jbc.M115.681601**

*QI Y., ZHAO J., AN R., ET AL. (2016). Mutations in circularly permuted GTPase family genes AtNOA1/RIF1/SVR10 and BPG2 suppress var2-mediated leaf variegation in Arabidopsis thaliana. Photosynth Research. Volume 127.*

**DOI: 10.1007/s11120-015-0195-9**

*SUGLIANI M., ABDELKEFIH., KEH., ET AL. (2016). An Ancient Bacterial Signaling Pathway Regulates Chloroplast Function to Influence Growth and Development in Arabidopsis. Plant Cell March. Volume 28.*

**DOI: 10.1105/tpc.16.00045**

*CASTILLO-LIZARDO M. G., ARAGÓN I. M., CARVAJAL V., ET AL. (2015). Contribution of the non-effector members of the HrpL regulon, *iaaL* and *matE*, to the virulence of *Pseudomonas syringae* pv. *tomato* DC3000 in tomato plants. BMC Microbiology Volume 15.*

**DOI:10.1186/s12866-015-0503-8**

*FAN X., ZHANG J., LI W., ET AL. (2015). The NdhV subunit is required to stabilize the chloroplast NADH dehydrogenase-like complex in Arabidopsis. The Plant Journal. Volume 82, Pages 221–231.*

**DOI: 10.1111/tpj.12807**

*GRANUM E., PÉREZ-BUENO M. L., CALDERÓN C. E., ET AL (2015). Metabolic responses of avocado plants to stress induced by *Rosellinia necatrix* analysed by fluorescence and thermal paging. European Journal of Plant Pathology. Volume 142.*

**DOI: 10.1007/s10658-015-0640-9**

*KROPAT J., TOTTEY S., BIRKENBIHL R. P., ET AL. (2015). A regulator of nutritional copper signaling in *Chlamydomonas* is an SBP domain protein that recognizes the GTAC core of copper response element. PNAS. Volume 102, Pages 18730–18735.*

**DOI: 10.1073/pnas.0507693102**

*DE MARCOS A., TRIVIÑO M., PÉREZ-BUENO M. L., ET AL. (2015). Transcriptional profiles of Arabidopsis stomataless mutants reveal developmental and physiological features of life in the absence of stomata. Frontiers in Plant Science. Volume 6, Pages 456*

**DOI: 10.3389/fpls.2015.00456**

*ROUSSEAU C., HUNAUULT G., GAILLARD S., ET AL. (2015). Phenoplant: a web resource for the exploration of large chlorophyll fluorescence image datasets. Plant Methods. Volume 11.*

**DOI 10.1186/s13007-015-0068-4**

ARMBRUSTER U., CARRILLO L. R., VENEMA K., ET AL. (2014). Ion antiport accelerates photosynthetic acclimation in fluctuating light environments. *Nature Communications*. Volume 5, Page 5439.

**DOI:10.1038/ncomms6439**

PÉREZ-BUENO M. L., BARÓN M., GARCÍA-CARNEROS A. B., ET AL. (2014). Diagnosis of the Infection of Sunflower by *Orobanche cumana* Using Multicolour Fluorescence paging. *Helia*. Volume 37, Pages 173–179.

**DOI:10.1515/helia-2014-0015**

CISZEWSKI D., ALEKSANDER-KWATERCZAK U., POCIECHA A., ET AL. (2013). Small effects of a large sediment contamination with heavy metals on aquatic organisms in the vicinity of an abandoned lead and zinc mine. *Environmental Monitoring and Assessment*. Volume 185, Pages 9825-9842.

**DOI:10.1007/s10661-013-3295-z**

ROUSSEAU C., BELIN E., BOVE E., ET AL. (2013). High throughput quantitative phenotyping of plant resistance using chlorophyll fluorescence image analysis. *Plant Methods*. Volume 9.

**DOI:10.1186/1746-4811-9-17**

SERÔDIO J., EZEQUIEL J., FROMMLET J., ET AL. (2013). A Method for the Rapid Generation of Nonsequential Light-Response Curves of Chlorophyll Fluorescence. *Plant Physiology*. Volume 163, Pages 1089-1102.

**DOI:10.1104/pp.113.225243**

LABUZ J., SZTATELMAN O., BANAS A. K., ET AL. (2012). The expression of phototropins in *Arabidopsis* leaves: developmental and light regulation. *Journal of Experimental Botany*. Volume 63, Pages 1763–1771.

**DOI:10.1093/jxb/ers061**

BANAŚ A. K., ŁABUZ J., SZTATELMAN O., ET AL. (2011). Expression of Enzymes Involved in Chlorophyll Catabolism in *Arabidopsis* Is Light Controlled. *Plant Physiology*. Volume 157, Pages 1497-1504.

**DOI:10.1104/pp.111.185504**

ROHÁČEK K., SOUKUPOVÁ J. AND BARTÁK M. (2008). Chlorophyll fluorescence: A wonderful tool to study plant physiology and plant stress. *Research Signpost*. Volume 2, Pages 41-104.

MOSELEY J. L., ALLINGER T., HERZOG S., ET AL. (2002). Adaptation to Fe-deficiency requires remodeling of the photosynthetic apparatus. *The EMBO Journal*. Volume 21, Pages 6709-6720.

**DOI 10.1093/emboj/cdf666**

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