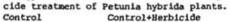
Session 28 Session 28

Abstract Only

714

PYRIDAZINONE/CYTOKININ ANTAGONISM REGULATES ENERGY DISTRIBUTION

J.A. Graf, R.J. Strasser and U. Kull, Institute of Biology, University of Stuttgart, Ulmer Str. 227, 7000 Stuttgart 60, FRG As we have shown in other investigations by means of room and low temperature fluorescence kinetics, the pyridazinone (BASF 13 -338=SAN 9785) acts on photosynthetic membranes (GRAF et al. 1984 Advances in Photosynthesis Research IV, 37, C. Sybesma ed.; GRAF et al. 1984, Plant Physiol. 75, 51, Suppl.). The present study indicates, that cytokinins can modify pyridazinone effects on photosynthetic membranes in an antagonistic way. A preincubation of kinetin (46.5 μ M 2 d) can abolish herbicide effects. Such effects are evident for energy distribution (trapping T, grouping G, spillover S, dissipation D), state-1 state-2 change and LHC-phosphorylation. The data compiled in a synergetic way show the energy distribution constellation in thylakoids after 6 d herbi-



Control+Herbicide





