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Cover illustration: A tentative scheme of H_2O_2 production in chloroplasts and a possible signal transduction pathway for the downregulation of *lhcb* genes, leading to the acclimatory reduction of the photosystem II antenna size under stress conditions. Fd, ferredoxin; PS II, photosystem II; PS I photosystem I; PQ, PQ·−, PQH2, plastoquinone, plastosemiquinone, plastohydroquinone respectively; Pc, plastocyanin; SOD, superoxide dismutase; FNR, ferredoxin-NADP+ reductase; WOC, water-oxidizing complex. Image by Maria M. Borisova-Mubarakshina and Ilya A. Naydov.