

AUTHOR INDEX

- Abe, S., Fujii, T., Tanaka, K. and Maruyama, K.
The Ca^{2+} sensitivity of actomyosin in solution (245) 245
- Ackrell, B. A. C., see Jones, C. W. (245) 54
- Albertsson, P. Å., see Larsson, C. (245) 425
- Albracht, S. P. J., see Slater, E. C. (245) 503
- Albracht, S. P. J., see Slater, E. C. (245) 508
- Anderson, J. M., Boardman, N. K. and Spencer, D.
Phosphorylation by intact bundle sheath chloroplasts from maize (245) 253
- Anderson, J. M., Woo, K. C. and Boardman, N. K.
Photochemical systems in mesophyll and bundle sheath chloroplasts of *C4* plants (245) 398
- Anderson, J. M., see Hiller, R. G. (245) 439
- Arntzen, C. J., Dilley, R. A. and Neumann, J.
Localization of phosphorylation and proton transport activities in various regions at the chloroplast lamellae (245) 409
- Bakeyeva, L. E., see Luzikov, V. N. (245) 321
- Bannister, T. T., see Lien, S. (245) 465
- Barbieri, G., see Lemasson, C. (245) 386
- Bartsch, R. G., see Meyer, T. E. (245) 453
- Bhattacharyya, S. N., see Ghosh, A. K. (245) 335
- Boardman, N. K., see Anderson, J. M. (245) 253
- Boardman, N. K., see Anderson, J. M. (245) 398
- Boardman, N. K., see Hiller, R. G. (245) 439
- Boveris, A., Oshino, R., Erecińska, M. and Chance, B.
Reduction of mitochondrial components by durohydroquinone (245) 1
- Briggs, F. N., see Solaro, R. J. (245) 259
- Butler, W. L. and Okayama, S.
The photoreduction of C-550 in chloroplasts and its inhibition by lipase (245) 237
- Carr, N. G., see Leach, C. K. (245) 165
- Chance, B., see Boveris, A. (245) 1
- Chua, N.-H.
The methyl viologen-catalyzed Mehler reaction and catalase activity in blue-green algae and *Chlamydomonas reinhardtii* (245) 277
- Coleman, J. O. D. and Palmer, J. M.
The influence of pH on the inhibition of oxidative phosphorylation and electron transport by triethyltin (245) 313
- Collin, C., see Larsson, C. (245) 425
- Degn, H. and Wohlrab, H.
Measurement of steady-state values of respiration rate and oxidation levels of respiratory pigments at low oxygen tensions. A new technique (245) 347
- De Jong, J. W.
Influence of adenosine and Nagarse on palmitoyl-CoA synthetase in rat heart and liver mitochondria (245) 288
- Dietrich, Jr., W. E. and Thornber, J. P.
The P 700-chlorophyll a-protein of a blue-green alga (245) 482
- Dilley, R. A., see Arntzen, C. J. (245) 409
- Dunham, W. R., see Palmer, G. (245) 201
- Eilermann, L. J. M., Pandit-Hovenkamp, H. G., Van der Meer-van Buren, M., Kolk, A. H. J. and Veenstra, M.
Oxidative phosphorylation in *Azotobacter vinelandii*. Effect of inhibitors and uncouplers on P/O ratio, trypsin-induced ATPase and ADP-stimulated respiration (245) 305
- Erecińska, M., see Boveris, A. (245) 1
- Erickson, S. K.
The respiratory system of the aerobic, nitrogen-fixing, Gram-positive bacterium, *Mycobacterium flavum* 301 (245) 63
- Erickson, S. K., see Jones, C. W. (245) 54
- Fee, J. A., Mayhew, S. G. and Palmer, G.
The oxidation-reduction potentials of parsley ferredoxin and its selenium-containing homolog (245) 196
- Fee, J. A. and Palmer, G.
The properties of parsley ferredoxin and its selenium-containing homolog (245) 175
- Fee, J. A., see Palmer, G. (245) 201
- Fisher, R. J. and Sanadi, D. R.
Energy-linked nicotinamide adenine dinucleotide transhydrogenase in membrane particles from *Escherichia coli* (245) 34
- Flatmark, T., Lagercrantz, H., Terland, O., Helle, K. B. and Stjärne, L.
Electron carriers of the noradrenaline storage vesicles from bovine splenic nerves (245) 249
- Fork, D. C., see Murata, N. (245) 356
- Fuchs, F.
Ion exchange properties of the calcium receptor site of troponin (245) 221
- Fujii, T. see Abe, S. (245) 245
- Galeotti, T., see Van Rossum, G. D. V. (245) 263
- Ghosh, A. K. and Bhattacharyya, S. N.
Studies on yeast mitochondria: Some properties of mitochondria isolated from *Saccharomyces carlsbergensis* grown in normal glucose medium (245) 335
- Gooch, V. D. and Packer, L.
Adenine nucleotide control of heart mitochondrial oscillations (245) 17
- Gosalvez, M., see Van Rossum, G. D. V. (245) 263
- Hanes, D. M. and Tappel, A. L.
Lysosomal hemochromes and digestion of cytochrome c by the lysosomal protease system (245) 42
- Heath, R. L.
Hydrazine as an electron donor to the water-

- oxidation site in photosynthesis (245) 160
- Helle, K. B.
Biochemical studies of the chromaffin granule. I. Distribution of chromogranin A and dopamine- β -hydroxylase activity in the membrane and water-soluble granule fractions (245) 80
- Helle, K. B.
Biochemical studies of the chromaffin granule. II. Properties of membrane-bound and water-soluble forms of chromogranin A and dopamine- β -hydroxylase activity (245) 94
- Helle, K. B., see Flatmark, T. (245) 249
- Hiller, R. G., Anderson, J. M. and Boardman, N. K.
Photooxidation of cytochrome b-559 in leaves and chloroplasts at room temperature (245) 439
- Homann, P. H.
Actions of carbonylcyanide m-chlorophenylhydrazine on electron transport and fluorescence of isolated chloroplasts (245) 129
- Huang, P.-k. C. and Pharo, R. L.
A simple method for the purification of the mitochondrial NADH dehydrogenase (245) 240
- Iizuka, T., see Palmer, G. (245) 201
- Itoh, S., Katoh, S. and Takamiya, A.
Studies on the delayed light emission in spinach chloroplasts. II. Participation of primary electron donor and acceptor of Photoreaction II in producing the delayed light emission (245) 121
- Itoh, S., Murata, N. and Takamiya, A.
Studies on the delayed light emission in spinach chloroplasts. I. Nature of two phases in development of the millisecond delayed light emission during intermittent illumination (245) 109
- Jones, C. W., Ackrell, B. A. C. and Erickson, S. K.
Respiratory control in *Azotobacter vinelandii* membranes (245) 54
- Kahn, J. S.
Evidence for a two-directional hydrogen ion transport in chloroplasts of *Euglena gracilis* (245) 144
- Kamen, M. D., see Meyer, T. E. (245) 453
- Katoh, S., see Itoh, S. (245) 121
- Kemp, Jr., A., see Out, T. A. (245) 299
- Kim, H. D. and Mommaerts, W. F. H. M.
On the reconstitution of rabbit myosin from fast and slow muscle (245) 230
- Knafl, D. B. and McSwain, B. D.
Action spectra of the three light reactions in photosynthesis (245) 105
- Kolk, A. H. J., see Eilermann, L. J. M. (245) 305
- Lagercrantz, H., see Flatmark, T. (245) 249
- Lanyi, J. K., see Lieberman, M. M. (245) 21
- Larsson, C., Collin, C. and Albertsson, P. Å.
Characterization of three classes of chloroplasts obtained by counter-current distribution (245) 425
- Leach, C. K. and Carr, N. G.
Pyruvate:ferredoxin oxidoreductase and its activation by ATP in the blue-green alga *Anabaena variabilis* (245) 165
- Lemasson, C. and Barbieri, G.
Effet de la longueur d'onde de préillumination sur la désactivation des formes oxydées du donneur d'électrons du Photosystème II, (245) 386.
- Lieberman, M. M. and Lanyi, J. K.
Studies of the electron transport chain of extremely halophilic bacteria. V. Mode of action of salts on cytochrome oxidase (245) 21
- Lien, S. and Bannister, T. T.
Multiple sites of DCIP reduction by sonicated oat chloroplasts: Role of plastocyanin (245) 465
- Luzikov, V. N., Zubatov, A. S., Rainina, E. I. and Bakeyeva, L. E.
Degradation and restoration of mitochondria upon deaeration and subsequent aeration of aerobically grown *Saccharomyces cerevisiae* cells (245) 321
- McSwain, B. D., see Knafl, D. B. (245) 105
- Maruyama, K., see Abe, S. (245) 245
- Mayhew, S. G., see Fee, J. A. (245) 196
- Meyer, T. E., Bartsch, R. G. and Kamen, M. D.
Cytochrome c_3 . A class of electron transfer heme proteins found in both photosynthetic and sulfate-reducing bacteria (245) 453
- Miyazaki, T., see Morita, S. (245) 151
- Mommaerts, W. F. H. M., see Kim, H. D. (245) 230
- Morita, S. and Miyazaki, T.
Dichroism of bacteriochlorophyll in cells of the photosynthetic bacterium *Rhodospirillum rubrum* (245) 151
- Morris, H. P., see Van Rossum, G. D. V. (245) 263
- Murata, N.
Control of excitation transfer in photosynthesis. V. Correlation of membrane structure to regulation of excitation transfer between two pigment systems in isolated spinach chloroplasts (245) 365
- Murata, N. and Fork, D. C.
Light-induced absorbance changes in Fraction 1 particles prepared from spinach chloroplasts by French-press treatment (245) 356
- Murata, N., see Itoh, S. (245) 109
- Murata, T., Toda, F., Uchino, K. and Yakushiji, E.
Water-soluble chlorophyll protein of *Brassica oleracea* var. *Botrys* (cauliflower) (245) 208
- Neumann, J., see Arntzen, C. J. (245) 409
- Okayama, S., see Butler, W. L. (245) 237
- Oshino, R., see Boveris, A. (245) 1
- Out, T. A., Kemp, Jr., A. and Souverijn, J. H. M.
The effect of bongkreic acid on the calcium-stimulated oxidation in rat-liver mitochondria and its relation to the efflux of intramitochondrial adenine nucleotides (245) 299

- Packer, L., see Gooch, V. D. (245) 17
- Palmer, G., Dunham, W. R., Fee, J. A., Sands, R. H., Iizuka, T. and Yonetani, T.
The magnetic susceptibility of spinach ferredoxin from 77° to 250°K: A measurement of the antiferromagnetic coupling between the two iron atoms (245) 201
- Palmer, G., see Fee, J. A. (245) 175
- Palmer, G., see Fee, J. A. (245) 196
- Palmer, J. M., see Coleman, J. O. D. (245) 313
- Pandit-Hovenkamp, H. G., see Eilermann, L. J. M. (245) 305
- Pang, D. C., see Solaro, R. J. (245) 259
- Pharo, R. L., see Huang, P.-k. C. (245) 240
- Popinigis, J., Wrzolkowa, T. and Świerczyński, J.
Changes in mitochondrial ultrastructure induced by gramicidin plus protamine (245) 70
- Rainina, E. I., see Luzikov, V. N. (245) 321
- Sanadi, D. R., see Fisher, R. J. (245) 34
- Sands, R. H., see Palmer, G. (245) 201
- Slater, E. C. and Albracht, S. P. J.
EPR Studies at 20°K on the mitochondrial respiratory chain, (245) 503
- Slater, E. C. and Albracht, S. P. J.
Effect of ATP on the EPR spectrum at 20°K of phosphorylating submitochondrial particles (245) 508
- Solaro, R. J., Pang, D. C. and Briggs, F. N.
The purification of cardiac myofibrils with Triton X-100 (245) 259
- Souverijn, J. H. M., see Out, T. A. (245) 299
- Spencer, D., see Anderson, J. M. (245) 253
- Stjärne, L., see Flatmark, T. (245) 249
- Świerczyński, J., see Popinigis, J. (245) 70
- Takamiya, A., see Itoh, S. (245) 109
- Takamiya, A., see Itoh, S. (245) 121
- Tanaka, K., see Abe, S. (245) 245
- Tappel, A. L., see Hanes, D. M. (245) 42
- Terland, O., see Flatmark, T. (245) 249
- Thornber, J. P., see Dietrich, Jr., W. E. (245) 482
- Toda, F., see Murata, T. (245) 208
- Uchino, K., see Murata, T. (245) 208
- Van der Meer-van Buren, M., see Eilermann, L. J. M. (245) 305
- Van Rossum, G. D. V., Gosalvez, M., Galeotti, T. and Morris, H. P.
Net movements of monovalent and bivalent cations, and their relation to energy metabolism, in slices of hepatoma 3924 A and of a mammary tumour (245) 263
- Veenstra, M., see Eilermann, L. J. M. (245) 305
- Wikström, M. K. F.
Effect of $^2\text{H}_2\text{O}$ on energy-dependent oxidation of cytochrome b (245) 512
- Wohlrab, H., see Degn, H. (245) 347
- Woo, K. C., see Anderson, J. M. (245) 398
- Wrzolkowa, T., see Popinigis, J. (245) 70
- Yakushiji, E., see Murata, T. (245) 208
- Yonetani, T., see Palmer, G. (245) 201
- Zankel, K. L.
Rapid delayed luminescence from chloroplasts: Kinetic analysis of components; the relationship to the O_2 evolving system (245) 373
- Zorn, M.
The reduction of rhodopsin with sodium borohydride under non-bleaching conditions (245) 216
- Zubatov, A. S., see Luzikov, V. N. (245) 321