

## INDEX TO VOLUME 273 (B)

*Author index*

- Abboud, M. M. *See* Akhtar, Abboud, Barnard, Jordon & Zaman.  
 Acevedo, E. *See* Hsiao, Acevedo, Fereres & Henderson.  
 Akhtar, M., Abboud, M. M., Barnard, G., Jordan, P. & Zaman, Z. Mechanism and stereochemistry of enzymic reactions involved in porphyrin biosynthesis, 117.
- Bacchus, S. & Kendall, Marion D. Histological changes associated with enlargement and regression of the thymus glands of the red-billed quelea *Quelea quelea* L. (Ploceidae: weaver-birds), 65.  
 Barnard, G. *See* Akhtar, Abboud, Barnard, Jordan & Zaman.  
 Battersby, A. R. & McDonald, E. Biosynthesis of porphyrins and corrins, 161.  
 Beale, S. I. The biosynthesis of  $\delta$ -aminolaevulinic acid in plants, 99.  
 Biscoe, P. V., Cohen, Y. & Wallace, J. S. Daily and seasonal changes of water potential in cereals, 565.  
 Bonnett, R. Neovitamin B<sub>12</sub> (cyano-13-epicobalamin), 295.  
 Boyer, J. S. Photosynthesis at low water potentials, 501.  
 Braithwaite, C. J. R. Petrology of palaeosols and other terrestrial sediments on Aldabra, Western Indian Ocean, 1.  
 Brockmann, H. Bacteriochlorophyll *e*: structure and stereochemistry of a new type of chlorophyll from Chlorobiaceae, 277.
- Cohen, Y. *See* Biscoe, Cohen & Wallace.  
 Corner, E. J. H. The climbing species of *Ficus*: derivation and evolution, 359.
- Davies, R. C. *See* Wider de Xifra, Sandy, Davies & Neuberger.
- Eckert, H.-G. *See* Franck, Rowold, Wegner & Eckert.  
 Elder, G. H. *See* Jackson, Sancovich, Ferramola, Evans and others.  
 Elston, J., Karamanos, A. J., Kassam, A. H. & Wadsworth, R. M. The water relations of the field bean crop, 581.  
 Evans, N. *See* Jackson, Sancovich, Ferramola, Evans and others.
- Feinstein, Graciela. *See* Frydman, (B.), Frydman, Valasinas, Levy & Feinstein.  
 Fereres, E. *See* Hsiao, Acevedo, Fereres & Henderson.  
 Ferramola, A. M. *See* Jackson, Sancovich, Ferramola, Evans and others.  
 Flowers, T. J., Ward, Margaret E. & Hall, J. L. Salt tolerance in the halophyte *Suaeda maritima*. Some properties of malate dehydrogenase, 523.  
 Franck, B., Rowold, A., Wegner, Ch. & Eckert, H.-G. Synthesis of probable and improbable precursors for porphyrin biosynthesis, 181.  
 Frydman, B., Frydman, Rosalia B., Valasinas, Aldonia, Levy, Estrella S. & Feinstein, Graciela. Biosynthesis of uroporphyrinogens from porphobilinogen: mechanism and the nature of the process, 137.  
 Frydman, Rosalia B. *See* Frydman, (B.), Frydman, Valasinas, Levy & Feinstein.  
 Fuhrhop, J.-H., & Subramanian, J. Chemical reactivities of tetrapyrrole pigments: a comparison of experimental behaviour with the results of s.c.f.- $\pi$ -m.o. calculations, 335.
- Games, D. E. *See* Jackson, Sancovich, Ferramola, Evans and others.  
 Gossauer A. *See* Inhoffen, Gossauer, Heise & Laas.
- Hall, J. L. *See* Flowers, Ward, & Hall.  
 Heise, K. P. *See* Inhoffen, Gossauer, Heise & Laas.  
 Henderson, D. W. *See* Hsiao, Acevedo, Fereres & Henderson.  
 Hensens, O. D., Hill, H. A. O., Thornton, J., Turner, A. M. & Williams, R. J. P. The structures of some cobalamins in solution, 353.  
 Hill, H. A. O. *See* Hensens, Hill, Thornton, Turner & Williams.  
 Hsiao, T. C., Acevedo, E., Fereres, E. & Henderson, D. W. Water stress, growth, and osmotic adjustment, 479.
- Inhoffen, H. H., Gossauer, A., Heise, K. P. & Laas, H. Chemical behaviour of dicyanocob(III)yrinic acid heptamethyl ester and cob(I)yrinic acid heptamethyl ester in some preparative experiments, 327.  
 Israel, H. W. *See* Steward, Israel, Mott, Wilson, & Krikorian.
- Jackson, A. H., Sancovich, H. A., Ferramola, A. M., Evans, N., Games, D. E., Matlin, S. A., Elder, G. H. & Smith, S. G. Macrocyclic intermediates in the biosynthesis of porphyrins, 191.

- Jarvis, P. G. The interpretation of the variations in leaf water potential and stomatal conductance found in canopies in the field, 593.
- Jenkins, F. A. & Parrington, F. R. The postcranial skeletons of the Triassic mammals *Eozostrodon*, *Megazostrodon* and *Erythrotherium*, 387.
- Johnson, A. W. Synthesis of corrins and related macrocycles based on pyrrolic intermediates, 319.
- Jones, O. T. G. Chlorophyll *a* biosynthesis, 207.
- Jordon, P. *See* Akhtar, Abboud, Barnard, Jordon & Zaman.
- Karamanos, A. J. *See* Elston, Karamanos, Kassam & Wadsworth.
- Kassam, A. H. *See* Elston, Karamanos, Kassam & Wadsworth.
- Katz, J. J., Oettmeier, W. & Norris, J. R. Organization of antenna and photo-reaction centre chlorophylls on the molecular level, 227.
- Kendall, Marion D. EMMA-4 analysis of iron in cells of the thymic cortex of a weaver-bird (*Quelea quelea*), 79.
- Kendall Marion D. *See also* Bacchus & Kendall; and Ward (P). & Kendall.
- Kenner, G. W., Rimmer, J., Smith, K. M. & Unsworth, J. F. Studies on the biosynthesis of the *Chlorobium* chlorophylls, 255.
- Krikorian, A. D. *See* Steward, Israel, Mott, Wilson & Krikorian.
- Laas, H. *See* Inhoffen, Gossauer, Heise & Laas.
- Levy, Estrella S. *See* Frydman, (B.), Frydman, Valasinas, Levy & Feinstein.
- McDonald, E. *See* Battersby & McDonald.
- Mansfield, T. A. Chemical control of stomatal movements, 541.
- Matlin, S. A. *See* Jackson, Sancovich, Ferramola, Evans and others.
- Mauzerall, D. Chlorophyll and photosynthesis, 287.
- Monteith, J. L. Closing remarks to a discussion, 611.
- Mott, R. L. *See* Steward, Israel, Mott, Wilson & Krikorian.
- Mouravieff, I. Activity of solutions of methanol, ethanol and *n*-butanol on stomatal opening in presence or absence of carbon dioxide, 561.
- Neuberger, A. Introductory remarks to a discussion, 77.
- Neuberger, A. *See also* Wider de Xifra, Sandy, Davies & Neuberger.
- Newman, E. I. Water movement through root systems, 463.
- Norris, J. R. *See* Katz, Oettmeier & Norris.
- Oettmeier, W. *See* Katz, Oettmeier & Norris.
- Parrington, F. R. *See* Jenkins & Parrington.
- Raschke, K. How stomata resolve the dilemma of opposing priorities, 551.
- Rimmer, J. *See* Kenner, Rimmer, Smith & Unsworth.
- Rowold, A. *See* Franck, Rowold, Wegner & Eckert.
- Sancovich, H. A. *See* Jackson, Sancovich, Ferramola, Evans and others.
- Sandy, J. D. *See* Wider de Xifra, Sandy, Davies & Neuberger.
- Scott, A. I. The biosynthesis of vitamin B<sub>12</sub>, 303.
- Shemin, D.  $\delta$ -Aminolaevulinic acid dehydratase: structure, function and mechanism, 109.
- Smith, K. M. *See* Kenner, Rimmer, Smith & Unsworth.
- Smith, S. G. *See* Jackson, Sancovich, Ferramola, Evans and others.
- Steward, F. C., Israel, H. W., Mott, R. L., Wilson, H. J. & Krikorian, A. D. Observations on growth and morphogenesis in cultured cells of carrot (*Daucus carota* L.), 33.
- Subramanian, J. *See* Fuhrhop & Subramanian.
- Thornton, J. *See* Hensens, Hill, Thornton, Turner & Williams.
- Tinker, P. B. Transport of water to plant roots in soil, 445.
- Turner, A. M. *See* Hensens, Hill, Thornton, Turner & Williams.
- Unsworth, J. F. *See* Kenner, Rimmer, Smith & Unsworth.
- Vaadia, Y. Plant hormones and water stress, 513.
- Valasinas, Aldonia. *See* Frydman, (B.), Frydman, Valasinas, Levy & Feinstein.

- Wadsworth, R. M. *See* Elston, Karamanos, Kassam & Wadsworth.
- Wallace, J. S. *See* Biscoe, Cohen & Wallace.
- Ward, Margaret E. *See* Flowers, Ward & Hall.
- Ward, P. & Kendall, Marion D. Morphological changes in the thymus of young and adult red-billed queleas *Quelea quelea* (Aves), 55.
- Weatherley, P. E. Introduction: water movement through plants, 435.
- Wegner, Ch. *See* Franck, Rowold, Wegner & Eckert.
- Wider de Xifra, E. A., Sandy, J. D., Davies, R. C. & Neuberger, A. Control of 5-aminolaevulinate synthetase activities in *Rhodospseudomonas spheroides*, 79.
- Williams, R. J. P. *See* Hensens, Hill, Thornton, Turner & Williams.
- Wilson, H. J. *See* Steward, Israel, Mott, Wilson & Krikorian.
- Zaman, Z. *See* Akhtar, Abboud, Barnard, Jordon & Zaman.

*Subject index*

- Aldabra: petrology of palaeosols and terrestrial sediments, 1.  
5-Aminolaevulinic acid, 75.
- Biosynthesis of porphyrins, chlorophyll and vitamin B<sub>12</sub>, a discussion, 75.  
Breeding sessions, and thymic activity in a weaver-bird, 55, 65.
- Chlorophyll, biosynthesis, 75.  
Climbers in *Ficus*, 359.
- Embryogenesis, in cultured plant cells, 33.  
Erythropoiesis, in thymus glands of young and adult weaver-birds, 55, 65, 79.
- Ficus*, climbing species, 359.
- Iron-containing, early erythroid cells in thymus glands of a weaver-bird, 79.
- Morphogenesis, in cultured cells of carrot, 33.
- Palaeosols and other terrestrial sediments on Aldabra, 1.  
Plant-water relations, a discussion, 75.  
Porphyrins, biosynthesis, 433.  
Postcranial anatomy, 387.
- Root systems, water movement, 433.
- Stomata and water movement in plants, 433.
- Thymus gland, and erythropoiesis in a weaver-bird, 65, 79.  
Thymus gland, cyclic changes in size, related to breeding and moult in a weaver-bird, 55.  
Thymus gland, histology of glands in young and adult weaver-birds, 65.  
Triassic mammals, 387.
- Vitamin B<sub>12</sub>, biosynthesis, 75.
- Water relations of plants, a discussion, 433.