

John Warcup Cornforth

Bibliography

John Warcup Cornforth — Bibliography

- (1) 1938 (with Hughes, G. K. and Lions, F.) The Pyrolysis of Phenyl Cyclohexenyl Ether. *J. Roy. Soc. N.S.W.* **71**, 323-329.
- (2) (with Hughes, G.K., Lions, F. and Harradence, R.H.) Researches on Indoles. Part V. Coumarono (3,2-B) indole and Derivatives. *J. Roy. Soc. N.S.W.* **71**, 486-493.
- (3) 1939 (with Hughes, G. K. and Lions, F.) The Condensation of Piperonal with some Succinic Acid Derivatives. *J. Roy. Soc. N.S.W.* **72**, 228-232.
- (4) (with Earl, J. C.) A Chemical Examination of the Fruit of *Pittosporum undulatum*. *J. Roy. Soc. N.S.W.* **72**, 249-254.
- (5) The Glycoside of *Persoonia salicina* fruits. *J. Roy. Soc. N.S.W.* **72**, 255-256.
- (6) The Anthocyanin of *Vitis hypoglauca* F.v.M. *J. Roy. Soc. N.S.W.* **72**, 325-328.
- (7) (with Earl, J. C.) The Saponin of *Sarcostemma australe* R.Br. *J. Chem. Soc.* 737-742.
- (8) 1940 (with Earl, J. C.) Sarcostin, Part I. A Preliminary Study of its Behaviour with Reagents. *J. Chem. Soc.* 1443-1447.
- (9) 1942 (with Cornforth, R. H. and Robinson, R.) Nuclear Methylation of Phenols by Means of Methanolic Sodium Methoxide. *J. Chem. Soc.* 682-684.
- (10) (with Robinson, R.) Experiments on the Synthesis of Substances related to the Sterols. Part XL. (A) The preparation of 2:7-Dihydroxyphenanthrene and Certain Derivatives. (B) Further Observations on the Reduction of 1- γ -Ketobutyl-2-naphthol *J. Chem. Soc.* 684-689.
- (11) (with Cornforth, R. H. and Robinson, R.) The Preparation of β -Tetralone from β -Naphthol and some Analogous Transformations. *J. Chem. Soc.* 689-691.
- (12) 1943 (with Cornforth, R. H. and Robinson, R.) Nuclear Methylation of α -Naphthol - A Correction. *J. Chem. Soc.* 168.
- (13) (with Abraham, E. P., Chain, E., Baker, W., Cornforth, R. H. and Robinson, R.) Further studies on the degradation of Penicillin. VI. Synthesis of Penicillamine. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 100.

- (14) 1944 (with Cornforth, R. H., Abraham, E. P., Baker, W., Chain, E. and Robinson, R.) Attempted synthesis of Penillic Acid. New Syntheses of Iminazoles and Oxazoles. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 57.
- (15) (with Cornforth, R. H., Abraham, E. P., Baker, W., Chain, E. and Robinson, R.) 2-Hydroxymethylene-5-propyloxazolone and its Condensation with Penicillamine. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 58.
- (16) (with Cornforth, R. H., Abraham, E. P., Baker, W., Chain, E. and Robinson, R.) 4-Hydroxymethylene-2-n-hexyloxazolone and its Condensation with Pencillamine. Possible Synthesis in Small Yield of Dihydropenicillin-I or a Stereoisomeride. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 59.
- (17) (with Cornforth, R. H. and Dewar, M. J. S.) Reported Asymmetric Synthesis of Santonin. *Nature, Lond.* **153**, 317.
- (18) (with Cornforth, R. H., Dewar, M. J. S., Abraham, E. P., Baker, W., Chain, E. and Robinson, R.) $\beta\beta$ -Diethoxyalanine. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 69.
- (19) 1945 (with Cornforth, R. H., Abraham, E. P., Baker, W., Chain, E. and Robinson, R.) Oxazoles and Related Topics. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 423.
- (20) (with Cornforth, R. H., Abraham, E. P., Baker, W., Chain, E. and Robinson, R.) Preparation of 2-n-Amyl-5-chloro-oxazole-4-aldehyde and its Condensation with Penicillamine. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 492.
- (21) (with Cornforth, R. H., Abraham, E. P., Baker, W., Chain, E. and Robinson, R.) Interim Report from the Dyson Perrins Laboratory and the Sir William Dunn School of Pathology. Oxford University. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 647.
- (22) 1946 (with Fawaz, E., Abraham, E. P., Baker, W., Chain, E. and Robinson, R.) Interim Report from the Dyson Perrins, Laboratory and the Sir William Dunn School of Pathology, Oxford University. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 684.
- (23) (with Cornforth, R. H., Abraham, E. P., Baker, W., Chain, E. and Robinson, R.) Interim report from the Dyson Perrins Laboratory and the Sir William Dunn School of Pathology, Oxford University. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 689.

- (24) (with Beer, C. T., Abraham, E. P., Baker, W., Chain, E. and Robinson, R.) The preparation of 2-n-heptyl-4-methoxymethylene-5-oxazolone and its condensation with α -penicillamine. *Report to the M.R.C. Committee for Penicillin Synthesis (C.P.S.)* No. 691.
- (25) (with Cornforth, R. H.) Ethyl Ketoglutaconate. *J. Chem. Soc.* 755.
- (26) (with Robinson, R.) Experiments on the Synthesis of Substances Related to the Sterols, Part XLV. *J. Chem. Soc.* 676-679.
- (27) 1947 (with Cornforth, R. H.) A New Synthesis of Oxazoles, and Iminazoles, Including its Application to the Preparation of Oxazole. *J. Chem. Soc.* 96-102.
- (28) (with Robinson, R.) Towards the synthesis of cholesterol. *Nature, Lond.* **160**, 737.
- (29) 1948 (with Cornforth, R. H.) Studies in the Series of 4-Substituted Quinolines. *J. Chem. Soc.* 93-97. ✓
- (30) (with Huang, H. T.) The Condensation of Benzamidine with α -Diketones. *J. Chem. Soc.* 731-735. ✓
- (31) (with Huang, H. T.) "Dibenzamidodioxytetrol" *J. Chem. Soc.* 1958-1959.
- (32) (with Huang, H. T.) Further Studies of Oxazoles and Glyoxalines. *J. Chem. Soc.* 1960-1964.
- (33) (with Huang, H. T.) Experiments on a Synthesis of Penicillin. *J. Chem. Soc.* 1964-1969.
- (34) (with Huang, H. T.) Synthesis of a 4-Cyano-oxazole. *J. Chem. Soc.* 1969-1971.
- (35) (with Huang, H. T.) The Action of Hydrochloric Acid on 5:5-Dichloro-6-hydroxy-6-methyl-5:6-dihydrouracil. *J. Chem. Soc.* 1988-1989.
- (36) 1949 Oxazoles and Oxazolones. In: *The Chemistry of Penicillin*, (eds Clarke, H. T., Johnson, J. R. and Robinson, R.) Princeton University Press, 688-848.
- (37) (with Cornforth, R. H.) Mechanism and Extension of the Fischer Oxazole Synthesis. *J. Chem. Soc.* 1028-1030.
- (38) (with Fawaz, E., Goldsworthy, L. J. and Robinson, R.) A Synthesis of Acylamidomalondialdehydes. *J. Chem. Soc.* 1549-1553.
- (39) (with Popjak, G.) Chromic Acid Oxidation of Ethyl Alcohol. *Nature, Lond.* **164**, 1053.

- (40) (with Robinson, R.) Experiments on the Synthesis of Substances Related to the Sterols. Part XLVIII Synthesis of a Tricyclic Degradation Product of Cholesterol. *J. Chem. Soc.* 1855-1865.
- (41) 1950 (with Elliott, D. F.) Mechanism of the Dakin and West Reaction. *Science* **112**, 534-535.
- (42) 1951 (with Callow, R. K., and Spensley, P. C.) A Source of Hecogenin. *Chem. & Ind.* 699-700.
- (43) (with Cardwell, H. M. E., Duff, S. R., Holtermann, H. and Robinson, R.) Total Synthesis of Androgenic Hormones. *Chem. & Ind.*, 389-390.
- (44) Ethyl Pyruvate. *Organic Syntheses* **31**, 59-62.
- (45) (with Cornforth, R. H., Dalgliesh, C. E. and Neuberger, A.) DL- β -3-Oxindolylalanine (DL-Hydroxytryptophan). 1. Synthesis. *Biochem. J.* **48**, 591-597.
- (46) (with Dalgliesh, C. E. and Neuberger, A.) β -3-Oxindolylalanine (Hydroxytryptophan). 2. Spectroscopic and Chromatographic Properties. *Biochem. J.* **48**, 598-603.
- (47) (with Hart, P. D'A., Rees, R. J. W. and Stock, J. A.) Antituberculous Effect of Certain Surface-active Polyoxyethylene Ethers in Mice. *Nature, Lond.* **168**, 150.
- (48) 1952 (with Cookson, E.) Some Reactions of Oxazole-4-carboxylic acids. *J. Chem. Soc.* 1085-1088.
- (49) Organic chemistry. 7. Steroids. *Ann. Rep. Chem. Soc.* **49**, 190-202.
- (50) (with Henry, A. J.) The Presence of *cis*- and *trans*-3-Hydroxystachydrine in the Fruit of *Courbonia virgata*. *J. Chem. Soc.* 597-601.
- (51) (with Henry, A. J.) The Isolation of L-Stachydrine from the Fruit of *Capparis tomentosa*. *J. Chem. Soc.* 601-603. ✓
- (52) (with Long, D. A.) Influence of Organic Phosphates on Tuberculin Sensitivity in B.C.G. Infected Guineapigs. Relation to Cortisone Desensitisation. *Lancet* **259**, 950-952.
- (53) 1953 (with Hart, P. D'A., Nicholls, G. A. and Rees, R. J. W.) Antituberculous Activity of Certain Surface Active Polyoxyethylene Ethers. Extract from *Atti del VI Congresso Internazionale di Microbiologia, Roma* 6-12 Sept. Vol. 1, Sez. II, 568-570.

- (54) (with Campbell, N. and Halsall, T. G.) Organic chemistry. 8. Homocyclic compounds. *Ann. Rep. Chem. Soc.* **50**, 188-232.
- (55) (with Cardwell, H. M. E., Duff, S. R., Holtermann, H. and Robinson, R.) Experiments on the Synthesis of Substances Related to the Sterols. Part LI. Completion of the Synthesis of Androgenic Hormones and of the Cholesterol Group of Sterols. *J. Chem. Soc.* 361-384.
- (56) Tracer technique in biosynthesis. *Endeavour*, **12**, 61-67.
- (57) (with Cornforth, R. H.) Synthesis of Oxazoles from Ethyl Acetoacetate. Ring-fission of Some Oxazole-5-carboxylic acids. *J. Chem. Soc.* 93-98.
- (58) (with Hunter, G. D. and Popjak, G.) The biosynthesis of cholesterol from acetate. *Arch. Biochem. Biophys.* **42**, 482.
- (59) (with Hunter, G. D. and Popjak, G.) Studies of Cholesterol Biosynthesis. 1. A New Chemical Degradation of Cholesterol. *Biochem. J.* **54**, 590-597.
- (60) (with Hunter, G. D. and Popjak, G.) Studies of Cholesterol Biosynthesis. 2. Distribution of Acetate Carbon in the Ring Structure. *Biochem. J.* **54**, 597-601.
- (61) (with Long, D. A.) Influence of Carbohydrate Metabolism on Bacterial Allergy; Its Relation to Cortisone Desensitisation. *Lancet* **261**, 160-164.
- (62) (with Osbond, J. M.) Transformation of Hecogenin Acetate to the Isomeric 11-Ketone. *Chem. & Ind.* 919-920.
- (63) (with Osbond, J. M. and Phillipps, G. H.) The Conversion of Hecogenin Acetate to 11-Oxotigogenin Acetate. *Chem. & Ind.* 1387.
- (64) (with Renfrow, W. B.) Structures of Some 2-Methoxy-8-keto-4a-methylperhydrophenanthrenes and Related Compounds. *J. Amer. Chem. Soc.* **75**, 1347-1350.
- (65) 1954 The Biosynthesis of Cholesterol. *Rev. Pure Appl. Chem.* **4**, 275-302.
- (66) (with James, A. T.) Some Chemical Properties of a Naturally Occurring Antagonist of Dihydrostreptomycin. *Biochem. J.* **58**, xlviii-xlix.
- (67) (with Osbond, J. M. and Phillipps, G. H.) The Conversion of Hecogenin Acetate into 11-Oxotigogenin Acetate. *J. Chem. Soc.* 1954, 907-912.

- (68) (with Popjak, G.) Studies on the Biosynthesis of Cholesterol. 3. Distribution of ^{14}C in Squalene Biosynthesized from [$\text{Me-}^{14}\text{C}$]-Acetate. *Biochem. J.* **58**, 403-407.
- (69) (with Youhotsky, I. and Popjak, G.) Absolute Configuration of Cholesterol. *Nature, Lond.* **173**, 536.
- (70) 1955 Total synthesis of steroids. *Progr. Org. Chem.* **3**, 1-43.
- (71) (with Hart, P. D'A., Nicholls, G. A., Rees, R. J. W. and Stock, J. A.) Antituberculous Effects of Certain Surface-active Polyoxyethylene Ethers. *Brit. J. Pharmacol.* **10**, 73-86.
- (72) (with Kauder, O., Pike, J. E. and Robinson, R.) Experiments on the Synthesis of Substances Related to the Sterols. Part LIII Stereospecific Synthesis of a Tricyclic Ketone. *J. Chem. Soc.* 3348-3361.
- (73) with Kennard, O., Humphrey, J. H. and Lightbrown J. W.) Crystallographic Examination of Hydrated Oxytetracycline Hydrochloride and Hydrobromide. *Antibiotics and Chemotherapy* **5**, 616-621.
- (74) (with Popjak, G. and Youhotsky-Gore, I.) Further Studies on the Biosynthesis of Cholesterol and Squalene. In: *Biochemical Problems of Lipids: Proc. II Int. Confer., Ghent, 1955.* (eds. Popjak, G., and Le Breton, E.) Butterworths, London, pp 216-223.
- (75) 1956 (with James, A. T.) Structure of a Naturally Occurring Antagonist of Dihydrostreptomycin. *Biochem. J.* **63**, 124-130.
- (76) Isotopes in Organic Chemistry. in: *Perspectives in Organic Chemistry.* (ed. Sir Alexander Todd.) Interscience, New York, 371-391.
- (77) (with Youhotsky-Gore, I. and Popjak, G.) Origin of the Carbon Atoms of Cholesterol. *Biochem. J.* **64**, P38.
- (78) 1957 Discussion of Paper by Arigoni. in: *Biochemical Society Symposium* No. 19, 45.
- (79) Oxazole and its derivatives. in: *Heterocyclic Compounds*, Vol. 5. (ed Elderfield, R. C.) Wiley, New York, pp 298-417
- (80) Benzoxazoles and related systems. in: *Heterocyclic Compounds*, Vol.5. (ed Elderfield, R. C.) Wiley, New York, pp 418-451
- (81) (with Cornforth, R. H.) Derivatives of 2:4-Dioxo-3-phenylacetamidobutanoic acid. *J. Chem. Soc.* 158-162.

- (82) (with Cornforth, R. H., Popjak, G. and Youhotsky-Gore, I.) Biosynthesis of Squalene and Cholesterol from DL- β -Hydroxy- β -methyl- δ -[2- ^{14}C]valerolactone. *Biochem. J.* **66**, 10P.
- (83) (with Daines, M. E. and Gottschalk, A.) Synthesis of N-Acetylneuraminic acid (Lactaminic acid, O-Sialic acid). *Proc. Chem. Soc.* 25.
- (84) (with Youhotsky-Gore, I. and Popjak, G.) Studies on the Biosynthesis of Cholesterol. 4. Degradation of Rings C and D. *Biochem. J.* **65**, 94-109.
- (85) (with Long, D. A. and Sweet, R. D.) Glycyrrhetic acid. [Letter] *Brit. Med. J.* i, 340.
- (86) 1958 (with Bladon, P. and Jaeger, R. H.) Electrolytic Reduction of Some $\alpha\beta$ -Unsaturated Steroid Ketones. *J. Chem. Soc.* 863-871.
- (87) A Short Synthesis of 3-Methylfuran. *J. Chem. Soc.* 1310.
- (88) Self-condensation of Acetamidoacetaldehyde and of Aminoacetone. *J. Chem. Soc.* 1174-1176.
- (89) (with Cornforth, R. H., Pelter, A., Horning, M. G. and Popjak, G.) Rearrangement of Methyl Groups in the Enzymic Cyclization of Squalene to Lanosterol. *Proc. Chem. Soc.* 112-113.
- (90) (with Cornforth, R. H., Popjak, G. and Youhotsky-Gore, I.) Studies on the Biosynthesis of Cholesterol. 5. Biosynthesis of Squalene from DL-3-Hydroxy-3-methyl-[2- ^{14}C]Pentano-5-lactone. *Biochem. J.* **69**, 146-155.
- (91) (with Firth, M. E.) Identification of two Chromogens in the Elson Morgan Determination of Hexosamines. A New Synthesis of 3-Methylpyrrole. Structure of the "Pyrrolene-phthalides." *J. Chem. Soc.* 1091-1099.
- (92) (with Firth, M. E. and Gottschalk, A.) The Synthesis of N-Acetylneuraminic Acid. *Biochem J.* **68**, 57-61.
- (93) (with Popjak, G.) Biosynthesis of Cholesterol. *Brit. Med. Bull.* **14**, 221-226.
- (94) 1959 On the Structure of Sarcostin. *Chem. & Ind.* 602-603.
- (95) Biosynthesis of fatty acids and cholesterol considered as chemical processes. *J. Lipid Res.* **1**, 3-28.

- (96) (with Cornforth, R. H., Horning, M. G., Pelter, A. and Popjak, G.) The mechanism of a rearrangement occurring during biosynthesis of cholesterol. in: *Biosynthesis of Terpenes and Sterols* - a Ciba Foundation symposium. (eds. Wolstenholme, G. E. W. and O'Connor, M.) J. & A. Churchill, London, pp 119-132.
- (97) (with Cornforth, R. H. and Mathew, K. K.) A General Stereoselective Synthesis of Olefins. *J. Chem. Soc.* 112-127.
- (98) (with Cornforth, R. H. and Mathew, K. K.) A Stereoselective Synthesis of Squalene. *J. Chem. Soc.* 2539-2547.
- (99) (with Cornforth, R. H., Pelter, A, Horning, M. G. and Popjak, G.) Studies on the Biosynthesis of Cholesterol. 7. Rearrangement of Methyl Groups during Enzymic Cyclisation of Squalene. *Tetrahedron* **5**, 311-339.
- (100) (with Popjak, G.) Mechanism of Biosynthesis of Squalene from Sesquiterpenoids. *Tetrahedron Letters* No. **19**, 29-35.
- (101) 1960 (with Carroll, P. M.) Preparation of N-acetylneuraminic acid from N-acetyl-D-mannosamine. *Biochim. Biophys. Acta* **39**, 161-162.
- (102) (with Cornforth, R. H. and Prelog, V.) Über die Absolute Konfiguration von Linalool, eine Berichtigung. *Liebigs Ann. Chem.* **634**, 197-198.
- (103) (with Popjak, G.) The biosynthesis of cholesterol. *Advanc. Enzymol.* **22**, 281-335.
- (104) 1961 The Biosynthesis of Polyisoprenoids. *Pure Appl. Chem.* **2**, 607-630.
- (105) (with Popjak, G., Goodman, DeW. S., Cornforth, R. H. and Ryhage, R.) Mechanism of Squalene Biosynthesis from Mevalonate and Farnesyl Pyrophosphate. *Biochem. Biophys. Res. Commun.* **4**, 138-142.
- (106) (with Popjak, G., Cornforth, R. H. and Goodman, DeW. S.) Synthesis of 1-T₂-2-C¹⁴ - and of 1-D₂-2-C¹⁴-*trans-trans*-Farnesyl pyrophosphate and their Utilization in Squalene Synthesis. *Biochem. Biophys. Res. Commun.* **4**, 204-207.
- (107) (with Popjak, G. J., Goodman, DeW. S., Cornforth, R. H. and Ryhage, R.) Mechanism of Squalene Biosynthesis from Mevalonate and Farnesyl Pyrophosphate. *Biochem. J.* **80**, 14-15P.
- (108) (with Popjak, G., Goodman, DeW. S., Cornforth, R. H. and Ryhage, R.) Mechanism of Squalene Biosynthesis from Farnesyl pyrophosphate and from Mevalonate. *J. Biol. Chem.* **236**, 1934-1947.

- (109) 1961/62 (with Popjak, G. and Schroepfer, G.) Stereospecificity of Hydrogen Transfer from Reduced Triphosphopyridine nucleotide to Squalene During its Synthesis from Farnesyl Pyrophosphate. *Biochem. Biophys. Res. Commun.* **6**, 438-442.
- (110) 1962 (with Popjak, G., Cornforth, R. H., Ryhage, R. and Goodman, DeW. S.) Studies on the Biosynthesis of Cholesterol. XVI. Chemical synthesis of 1-H³₂-2-C¹⁴- and 1-D₂-2-C¹⁴-*trans-trans*-Farnesyl pyrophosphate and their Utilization in Squalene Biosynthesis. *J. Biol. Chem.* **237**, 56-61.
- (111) (with Popjak, G. and Schroepfer, G.) Stereospecificity of Hydrogen Transfer from Reduced Nicotinamide-Adenine Dinucleotides to Squalene. *Biochem. J.* **84**, 34P.
- (112) (with Cornforth, R. H. and Popjak, G.) Preparation of R- and S-Mevalonolactones. *Tetrahedron* **18**, 1351-1354.
- (113) (with Ryback, G., Popjak, G., Donninger, C. and Schroepfer, G. Jr.) Stereochemistry of Enzymic Hydrogen Transfer to Pyridine Nucleotides. *Biochem. Biophys. Res. Comm.* **9**, 371-375.
- (114) 1963 The Stereochemistry of Some Enzymic Reactions, *Chimia*, **17**, 28-29.
- (115) (with Cornforth, R. H.) Appendix. Calciferyl 4-iodo-5-nitrobenzoate. *J. Chem. Soc.* 4945-4956.
- (116) (with Cornforth, R. H., Donninger, C., Popjak, G., Ryback, G. and Schroepfer, G. J. Jr.) Stereospecific Insertion of Hydrogen Atom into Squalene from Reduced Nicotinamide-Adenine Dinucleotides. *Biochem. Biophys. Res. Comm.* **11**, 129-134.
- (117) 1965 (with Milborrow, B. V., Ryback, G. and Wareing, P. F.) Identity of Sycamore 'Dormin' with Abscisin II. *Nature, Lond.* **205**, 1269-1270.
- (118) (with Milborrow, B. V. and Ryback, G.) Synthesis of (±)-Abscisin II. *Nature, Lond.* **206**, 715.
- (119) (with Cornforth, R. H., Donninger C., Popjak, G., Shimizu, Y., Ichii, D., Forchielli, E. and Caspi, E.) The Migration and Elimination of Hydrogen during Biosynthesis of Cholesterol from Squalene. *J. Amer. Chem. Soc.* **87**, 3224-3228.
- (120) (with Ryback, G.) The Stereospecificity of enzymic reactions. *Ann. Rep. Chem. Soc.* **62**, 428-444.
- (121) 1966 (with Cornforth, R. H., Donninger, C., Popjak, G., Ryback, G. and Schroepfer, G. J. Jr.) Studies on the biosynthesis of cholesterol XVII

- The asymmetric synthesis of a symmetrical molecule. *Proc. Roy. Soc., Ser. B.* **163**, 436-464.
- (122) (with Cornforth, R. H., Donninger, C. and Popjak, G.) Studies on the Biosynthesis of Cholesterol. XIX. Steric course of hydrogen eliminations and of C-C bond formations in squalene biosynthesis. *Proc. Roy. Soc., Ser. B.* **163**, 492-514.
- (123) (with Archer, B. L., Barnard, D., Cockbain, E. G., Cornforth, R. H., and Popjak, G.) The stereochemistry of rubber biosynthesis. *Proc. Roy. Soc., Ser. B* **163**, 519-523.
- (124) (with Cornforth, R. H., Popjak, G. and Yengoyan, L.) Studies on the Biosynthesis of Cholesterol. XX Steric course of decarboxylation of 5-pyrophosphomevalonate and of the carbon to carbon bond formation in the biosynthesis of farnesyl pyrophosphate. *J. Biol. Chem.* **241**, 3970-3987.
- (125) (with Milborrow, B. V. and Ryback, G.) Identification and Estimation of (+)-Abscisin II. ('Dormin') in Plant Extracts by Spectropolarimetry. *Nature, Lond.* **210**, 627-628.
- (126) (with Milborrow, B. V., Ryback, G., Rothwell, K. and Wain, R. L.) Identification of the Yellow Lupin Growth Inhibitor as (+)Abscisin II ((+)-Dormin). *Nature, Lond.* **211**, 742-743.
- (127) (with Popjak, G.) Substrate Stereochemistry in Squalene Biosynthesis. *Biochem. J.* **101**, 553-568.
- (128) (with Milborrow, B. V., Ryback, G. and Wareing, P. F.) Isolation of Sycamore Dormin and its Identity with Abscisin II. *Tetrahedron Suppl.* 8, part II, 603-610.
- (129) 1967 (with Draber, W., Milborrow, B. V. and Ryback, G.) Absolute Stereochemistry of (+)-Abscisin II. *Chem.Comm.* 114 -116.
- (130) Detailed stereochemistry of squalene biosynthesis. *Chemisch Weekblad* **63**, 37-39.
- (131) (with Gigg, R. and Tute, M. S.) Synthesis of diacylmethanes by chemical reduction of enol betaines. *Aust. J. Chem.* **20**, 2479-2483.
- (132) (with Retey, J., Seibl, J., Arigoni, D., Ryback, G., Zeylemaker, W. P. and Veeger, C.) Steric Course of the Succinic Dehydrogenase Catalysed Exchange of Hydrogen between Succinate and Water. *Nature, Lond.* **216**, 1320-1321.
- (133) 1968 Terpenoid biosynthesis. *Chemistry in Britain* **4**, 102-106.

- (134) (with Addicott, F. T., Lyon, J. L., Ohkuma, K., Thiessen, W. E., Carns, H. R., Smith, O. E., Milborrow, B. V. and Ryback, G.) Absciscic Acid: A New Name for Abscisin II (Dormin). *Science* **159**, 1493.
- (135) (with Mallaby, R. and Ryback, G.) Synthesis of (\pm)-[2-¹⁴C]Absciscic acid. *J. Chem. Soc. (C)*, 1565-1568.
- (136) Complex catalysis by enzymes. in: *Modern Chemistry in Industry* IUPAC, 233-238.
- (137) Olefin Alkylation in Biosynthesis. *Angewandte Chemie, Int. Ed. Engl.* **7**, 903-911.
- (138) Olefin Alkylierung in der Biosynthese. *Angewandte Chemie* **80**, 977-985.
- (139) 1969 (with Etemadi, A. H. and Popjak, G.) Assay of the Possible Organization of Particle-Bound Enzymes with Squalene Synthetase and Squalene Oxidocyclase systems. *Biochem. J.* **111**, 445-451.
- (140) (with Redmond, J. W., Eggerer, H., Buckel, W. and Gutschow, C.) Asymmetric Methyl Groups and the Mechanism of Malate Synthase. *Nature, Lond.* **221**, 1212-1213.
- (141) (with Bonthron, W.) The Methylenation of Catechols. *J. Chem. Soc. (C)* 1202-1204.
- (142) (with Cornforth, R. H.) Chemistry of Mevalonic Acid. *Biochem. J.* **113**, 19P.
- (143) Exploration of Enzyme Mechanisms by Asymmetric Labelling. *Quarterly Reviews* **23**, 125-140 (Pedler Lecture).
- (144) 1970 (with Cornforth, R. H.) Chemistry of mevalonic acid. in: *Natural Substances formed biologically from Mevalonic Acid* (ed. Goodwin, T. W.) Academic Press, London and New York, pp 5-15.
- (145) (with Retey, J., Seibl, J., Arigoni, D. G., Ryback, G., Zeylemaker, W. P. and Veeger, C.) Steric Course of the Succinate Dehydrogenase Catalysed Exchange of Hydrogen between (S)-Chlorosuccinate and Water. *Eur. J. Biochem.* **13**, 94-97.
- (146) (with Redmond, J. W., Eggerer, H., Buckel, W. and Gutschow, C.) Synthesis and Configurational Assay of Asymmetric Methyl Groups. *Eur. J. Biochem.* **14**, 1-13.
- (147) (with Retey, J., Seibl, J., Arigoni, D., Ryback, G., Zeylemaker, W. P. and Veeger, C.) Stereochemical Studies of the Exchange and Abstraction of Succinate Hydrogen on Succinate Dehydrogenase. *Eur. J. Biochem.* **14**, 232-242.

- (148) (with Eggerer, H., Buckel, W., Lenz, H., Wunderwald, P., Gottschalk, G., Donniger, C., Mallaby, R. and Redmond, J. W.) Stereochemistry of Enzymic Citrate Synthesis and Cleavage. *Nature, Lond.* **226**, 517-519.
- (149) (with Green, D. T.) Iodohydrins and Epoxides from Olefins. *J. Chem. Soc. (C)* 846-849.
- (150) Cornforth, J. W., The chiral methyl group - its biochemical significance. *Chemistry in Britain*, **6**, 431-436.
- (151) (with Ross, F. P.) Synthesis of 5S-5-[³H₁]mevalonic acid. *Chem. Comm.* 1395-1396.
- (152) 1971 (with Lenz, H., Buckel, W., Wunderwald, P., Biedermann, G., Buschmeier, V., Eggerer, H., Redmond, J. W. and Mallaby, R.) Stereochemistry of *si*-Citrate Synthase and ATP Citrate Lyase Reactions. *Eur. J. Biochem.* **24**, 207-215.
- (153) (with Wunderwald, P., Buckel, W., Lenz, H., Buschmeier, V., Eggerer, H., Gottschalk, G., Redmond, J. W. and Mallaby, R.) Stereochemistry of the *re*-Citrate Synthase Reaction. *Eur. J. Biochem.* **24**, 216-221.
- (154) (with Ryback, G., Robinson, P. M. and Park, D.) Isolation and Characterization of a Fungal Vacuolation Factor (Bikaverin). *J. Chem. Soc. (C)* 2786-2788.
- (155) (with Clifford, K., Mallaby, R. and Phillips, G. T.) Stereochemistry of Isopentenyl Pyrophosphate Isomerase. *Chem. Comm.* 1599-1600.
- (156) 1972 Clifford, K. H., Cornforth, J. W., Donniger, C. and Mallaby R., Stereochemical Course of Decarboxylation of *S*-Malate on Malic Enzyme., *Eur. J. Biochem.*, **26**, 401-406.
- (157) (with Clifford, K., Mallaby, R. and Phillips, G. T.) Stereochemistry of isopentenyl pyrophosphate isomerase. *Proc. Roy. Soc. Lond. B.* **182**, 277-295.
- (158) Prix Roussel 1972. "Enzymes of cholesterol biosynthesis". *Labo Pharma Problemes et Techniques* No. 215, November 51-57.
- (159) 1973 The 5th Robert Robinson Lecture. The Logic of Working with Enzymes. *Chemical Society Reviews* **2**, 1-20.
- (160) Stereochemical Aspects of Enzyme Action. in *Biosynthesis and its Control in Plants* (ed. Milborrow, B. V.) Academic Press Inc., London and New York, pp 171-178.

- (161) (with Morgan, E. D., Potts, K. T. and Rees, R. J. W.) Preparation of antituberculous, polyoxyethylene ethers of homogeneous structure. *Tetrahedron*, **29**, 1659-1667.
- (162) 1974 (with Phillips, G. T., Messner, B. and Eggerer, H.) Substrate Stereochemistry of 3-Hydroxy-3-methylglutarylcoenzyme A Synthase. *Eur. J. Biochem.* **42**, 591-604.
- (163) Enzymes and stereochemistry. *Tetrahedron* **30**, 1515-1524.
- (164) 1975 (with Messner, B., Eggerer, H. and Mallaby, R.) Substrate Stereochemistry of the Hydroxymethylglutaryl-CoA Lyase and Methylglutaconyl-CoA Hydratase Reactions. *Eur. J. Biochem.* **53**, 255-264.
- (165) (with Ross, F. P. and Wakselman, C.) An Improved Route to (3*RS*,5*S*)-[5-³H₁]mevalonic acid.) *J. Chem. Soc., Perkin Trans. I* 429-432.
- (166) (with Gray, R. T.) Synthesis of 5-[¹⁸O]-Mevalonolactone. *Tetrahedron* **31**, 1509-1510.
- (167) Energy out of agriculture. Plants as source of fuel and power. "*Span*". Vol. 18, No. 1.
- (168) 1976 Asymmetry and enzyme action. in: *Les Prix Nobel en 1975* (The Nobel Foundation, 1976), 119-132.
- (169) Asymmetry and enzyme action. *Journal of Molecular Catalysis* **1**, 145-157.
- (170) Asymmetry and Enzyme Action (Nobel Lecture) *Science* **193**, 121-125.
- (171) Asymmetrie und Enzymwirkung. (Nobel-Vortrag) *Angew. Chem.* **88**, 550-555.
- (172) Structures of Isamic Acid and Methylisatoid. *J. Chem. Soc., Perkin Trans. I* 2004-2009.
- (173) (with Todd, A. R.) Robert Robinson. 1886-1975. *Biographical Memoirs of Fellows of the Royal Society* **22**, 415-527.
- (174) 1977 (with Sedgwick, B.) The Biosynthesis of Long-Chain Fatty Acids. Stereochemical Differentiation in the Enzymic Incorporation of Chiral Acetates. *Eur. J. Biochem.* **75**, 465-479.

- (175) (with Sedgwick, B., French, S. J., Gray, R. T., Kelstrup, E. and Willadsen, P.) The Biosynthesis of Long-chain Fatty Acids. Incorporation of Radioactivity from Stereospecifically Tritiated Malonyl Thiol Esters, and the Stereochemistry of the Acetyl-CoA Carboxylase Reaction. *Eur. J. Biochem.* **75**, 481-495.
- (176) (with Brooks, P. W., Maxwell, J. R., Butlin, A. G. and Milne, C. B.) Stereochemical Studies of Acyclic Isoprenoid Compounds. VI. The Stereochemistry of Farnesane from Crude Oil. in: *Proceedings of the 7th International Meeting on Organic Geochemistry 1975* (eds. Campos, R. and Goni, J.) ENADINSA, Madrid, 81-97.
- (177) (with Ross, F. P.) Symmetry of squalene epoxidation. *in vivo*. *Proc. Roy. Soc. Lond. Ser. B* **199**, 213-230.
- (178) (with Reichard, S. A., Talalay, P., Carrell, H. L. and Glusker, J. P.) Determination of the Absolute Configuration at the Sulfonium Center of S-Adenosylmethionine. Correlation with the Absolute Configuration of the Diastereomeric S-Carboxymethyl-(S)methionine salts. *J. Amer. Chem. Soc.* **99**, 7292-7300.
- (179) 1978 The Ernest Ritchie Memorial Lecture, 1977. Order and Disorder in Enzymic Systems. *Chemistry in Australia* **45**, 249-255.
- (180) Review Lecture - The imitation of enzymic catalysis. *Proc. Roy. Soc. Lond, Ser. B.* **203**, 101-117.
- (181) 1979 Spatial compulsions of enzymes. *Proceedings of the 6th International Symposium on Medicinal Chemistry*, Brighton, U.K. Sept. 7-24.
- (182) (with Carrell, H. L., Glusker, J. P. and Talalay, P.) The Absolute Configuration at the Sulfonium Center of S-Adenosyl-L-methionine. In: *Transmethylation. (Proceedings of the conference on transmethylation, Bethesda, Md., U.S.A. October 16-19 1978* (eds Usdin/Borchardt/Creveling) Elsevier, 19-25.
- (183) (with Sierakowski, A. F. and Wallace, T. W.) Unsymmetrical Biphenyl Synthesis using Copper (I) t-Butoxide. *J. Chem. Soc, Chem. Comm.* 294-295.
- (184) 1980 Comment on a paper by Samir Chatterjee. *Tetrahedron Letters* **21**, 709-710.
- (185) 1981 How stereospecific are enzymes? In: *Biopolymer Complexes. (Proc. of the 11th Workshop Conf. Hoechst, Schloss Reisenburg*, 11 - 15 October 1981; eds. Bartmann, E. and Snatzke, G.) 1 - 16.
- (186) (with Todd, A. R.) Robert Burns Woodward, 1917-1979. *Biographical Memoirs of Fellows of the Royal Society* **27**, 629-695.

- (187) Stereochemistry in Relation to Enzyme Mechanism. in: *Structural and Functional Aspects of Enzyme Catalysis* (32 Colloquium, Mosbach 1981, eds. Eggerer, H. and Huber, R.) Springer-Verlag, Berlin, Heidelberg, New York, 3-16.
- (188) 1982 (with Cornforth, R. H. and Gray, R. T.) Synthesis of Substituted Dibenzophospholes. Part 1. *J. Chem. Soc., Perkin Trans. 1* 2289-2297.
- (189) (with Sierakowski, A. F. and Wallace, T. W.) Synthesis of Substituted Dibenzophospholes. Part 2. Syntheses of Intermediate Biphenyls and Quaterphenyls. *J. Chem. Soc., Perkin Trans. 1* 2299-2315.
- (190) (with Ridley, D. D., Sierakowski, A. F., Uguen, D., Wallace, T. W. and Hitchcock, P. B.) Synthesis of Substituted Dibenzophospholes. Part 3. Synthesis of 4,6-Diaryldibenzophospholes from *m*-Quaterphenyls. *J. Chem. Soc., Perkin Trans. 1* 2317-2331.
- (191) (with Ridley, D. D., Sierakowski, A. F., Uguen, D. and Wallace, T. W.) Synthesis of Substituted Dibenzophospholes. Part 4. Chemical Transformations of 4,6-Diaryl-3,7-dialkoxydibenzophosphole 5-Oxides. *J. Chem. Soc., Perkin Trans. 1* 2333-2339.
- (192) Portrait of Dorothy Hodgkin, O.M., F.R.S. *Notes and Records of the Royal Society of London* **37**, 1-4.
- (193) (with Pengelly, T.) Failure to Verify a Reported Synthesis of the Aconitine Skeleton. *Tetrahedron Letters* **23**, 2213-2216.
- (194) 1983 (with Smith, W. B., Stock, L.) The synthesis and NMR characterization of a series of 1,4-dihydro-1,4-ethanonaphthalene epoxides. *Tetrahedron* **39**, 1379-1385.
- (195) 1984 Stereochemistry of life. *Interdisciplinary Science Reviews* **9**, 107-112.
- (196) (with Patrick, V.A. and White, A.H.) The Crystallographic Characterisation of an Unusual Chemical Reversal of Photoisomerization. *Austr. J. Chem.* **37**, 1453-1460.
- (197) 1987 Steroids and Synthetic Estrogens. *Natural Product Reports* **4**, 35-40.
- (198) (with Buttrus, N. H., Hitchcock, P. B., Kumar, A. and Stuart, A. S.) Synthesis of Substituted Dibenzophospholes. Part 5. Synthesis of Intermediates for 4- and 6-Aryl Substituents. *J. Chem. Soc., Perkin Trans. 1* 851-857.
- (199) (with Kumar, A. and Stuart A. S.) Synthesis of Substituted Dibenzophospholes, Part 6. Preparation of Symmetrical and Non-symmetrical Quaterphenyl Intermediates. *J. Chem. Soc., Perkin Trans. 1* 859-866.

- (200) (with Robertson, A. D.) Synthesis of Substituted Dibenzophospholes. Part 7., Regiospecific Synthesis of 4,6-Diaryl-3,7-dioxydibenzophospholes from 2,2',4,4'-Tetranitrobiphenyl. *J. Chem. Soc., Perkin Trans. 1* 1987, 867-870.
- (201) (with Huguenin, L. M. and Wilson, J. R. H.) Synthesis of Substituted Dibenzophospholes, Part 8. Synthesis and Resolution of Atropisomers of a 4,6-Diaryldibenzophosphole. *J. Chem. Soc., Perkin Trans. 1* 871-875.
- (202) 1990 (with Du, M.-H.) Syntheses of 3-Methylpyrrole via Methyl 4-Methylpyrrole-2-carboxylate. A Thermal Oxazolone-Pyrone Rearrangement. *J. Chem. Soc., Perkin Trans. 1* 1459-1462.
- (203) (with Du, M.-H.) Pyrrolo[1,2-b]isoquinoline-5,10-diones and Indolizine-5,8-diones. *J. Chem. Soc., Perkin Trans. 1* 1463-1467.
- (204) Review - To See the Elephant. *Interdisciplinary Science Reviews* **15**, 286-287.
- (205) 1991 (with Du, M.-H.) 4-(2'-Hydroxyphenylmethylene)-2-phenyloxazol-5(4H)-one: A Comedy of Errors. *J. Chem. Soc., Perkin Trans. 1* 2183-2187.
- (206) 1992 (with Hawes, J. E. and Mallaby, R.) Stereospecific Synthesis of (\pm)-Absciscic acid. *Austr. J. Chem.* **45**, 179-185.
- (207) 1993 Sir Robert Price Lecture. 1992 - The Trouble with Synthesis. *Aust. J. Chem.* **46**, 157-170.
- (208) Scientists as Citizens (RACI. 75th Anniversary Lecture. 1917-1992) *Aust. J. Chem.* **46**, 265-275.
- (209) 1994 The Trouble with Synthesis. *Aldrichia Chimica Acta* **27**, 71-77.
- (210) (with Wilson J. R. H.) A General Reagent for O-Phosphonmethylation of Phenols. *J. Chem. Soc., Perkin Trans. 1* 1897-1900.
- (211) 1995 Mechanisms Selected by Enzymes, *Organic Reactivity: Physical and Biological Aspects*, (eds Golding, B. T., Griffin, R. J. and Maskill, H.), Royal Society of Chemistry Special Publication No. 148, 25-37.
- (212) 1996 To see the obvious by Birch, A. J. *Interdisciplinary Science Reviews* **21**, 85.
- (213) (with Cornforth, R. H.) How to be right and wrong. *Croatica Chemica Acta CCACAA* **69** (2), 427-433.

- (214) (with Hitchcock, P. B. and Rozos, P.) Isatin chloride: a phantom. Reactions of 2-(2,2-dichloro-2,3-dihydro-3-oxoindol-1-yl)-3H-indol-3-one. *J. Chem. Soc., Perkin Trans. 1* 2787-92.
- (215) Synthesis of substituted dibenzophospholes. Part 9. Preparation of two water-soluble phosphinic-polyphosphonic acids. *J. Chem. Soc., Perkin Trans. 1* 2889-2893.
- (216) 1997 (with Bensasson, C. S., Du, M.-H. and Hanson, J. R.) Unusual generation of methoxy groups in Barton deoxygenations of alcohols. *Chem. Commun.*, 1509-1510.
- (218) 1998 Vladimir Prelog (1906-1998). *The Chemical Intelligencer* NOTES, 50.
- (219) A Memory of Dorothy Hodgkin. *The Chemical-Intelligencer*, NOTES, 57-58.
- (220) 1999 Alexander Robertus Todd, *Proceedings of the American Philosophical Society* **143**, 525-528.
- (221) 2000 (with Ciceri, D., Pierik, A. J., Hartrampf, G., Bröker, G., Speranza, G., Buckel, W. and Golding, B. T.) Stereochemistry of the Methyl Group in (*R*)-3-Methylitaconate Derived by Rearrangement of 2-Methylideneglutarate Catalysed by a Coenzyme B₁₂-Dependent Mutase. *Helvetica Chimica Acta* **83**, 2550-2561.
- (222) 2000 Sterol Biosynthesis: The Early Days. *Biochem. Biophys. Res. Commun.* **292**, 1129-1138.
- (223) 2007 (with Rickards, R. W.) Arthur John Birch 1915-1995. *Historical Records of Australian Science* **18**, 243-280.
- (224) (with Rickards, R. W.) Arthur J. Birch 1915-1995. *Biographical Memoirs of Fellows of the Royal Society* **53**, 21-44.