

Publications of Arthur John Birch

Classifications:

A Analytical
B Biosynthesis, general
BA Biological Activity
BMM Biomimetic Method
CR Creative Review (novel correlations, not just literature survey)
G General
HIS Historical
MECH Mechanism Discussion
NBSD* Novel Method of Biosynthetic Structure Determination
NBSP* Novel Biosynthetic Pathway
NSTRM* Novel Structure Method
NSYM* Novel Synthetic Method
OM Organometallic, General
P Physical
PN Natural Product
SCTECH Science and Technology Policy
SD Structure Determination, Natural Product
ST Stereochemistry Discussed
SY Synthesis, General
SYPN Synthesis, Natural Product

* **N** Novel, indicates a novel theoretical or practical approach, not a manipulation of known ideas; all syntheses so indicated contain at least one step involving a basically new concept or reaction, most devised for the purpose; this applies to structural methods, and to biosynthetic pathways almost all of which were predicted. This statement does not imply that standard methods and ideas were not also employed. All biosynthetic structure-determinations represent entirely novel approaches.

Classifications are approximate; where dual ones are stated they are in order of importance.

Co-authors are in brackets.

- 1 The Detection and Estimation of α -Phellandrene in Essential Oils, *J Proc R Soc NSW*, 1937 71 54-59 **A**
- 2 Pyrroles Derived from Acetylacetone *J Proc R Soc NSW* 1937 71 92-102 (S.J.Hazlewood, G.K.Hughes and F.Lions with A.J.Birch et al.) **SY**
- 3 Note on the Exudate of *Araucaria Bidwilli* *J Proc R Soc NSW* 1938 71 259-260 **PN SD**
- 4 The α -Phellandrene Fraction of Eucalyptus oils *J Proc R Soc NSW* 1938 71 261-266 **A PN**
- 5 The Structure of Origanene Part I *J Proc R Soc NSW* 1938 71 330-35
- 6 The Constitution of Gmelinol *J Proc R Soc NSW* 1938 71 391-405 (F.Lions) **SD PN**
- 7 The Structure of Origanene Part II Its Identity with α -Thujene *J Proc R Soc NSW* 1938 72 55-61 **SD PN**
- 8 Isonitroso- α -thujene *J Proc R Soc NSW* 1939 72 106-108 **SY PN**
- 9 Long-chain Acids Containing a quaternary Carbon atom Part I *J Chem Soc* 1942 488-497 **NSYM** (R Robinson)

- 10 β -Alkylation of Katioenoid Systems by Means of Grignard Reagents *J Chem Soc 1943 501-502* **NSYM ST** (R Robinson)
- 11 Preparation of Derivatives of 2:2-dialkylcyclohexanone *J Chem Soc 1943 661-662* **NSYM**
- 12 A New Reagent for Primary and Secondary Aliphatic Amines *J Chem Soc 1944 314-315* **A**
- 13 Reduction by Dissolving Metals I *J Chem Soc 1944 430-436* **NSYM MECH**
- 14 The Direct Introduction of Angular Methyl groups *J Chem Soc 1944 501-502* **NSYM ST** (R. Robinson)
- 15 Experiments on the Synthesis of Substances Related to the Sterols Part XLIII *J Chem Soc 1944 503-506* **SY NSYM** (R. Robinson)
- 16 Reduction by Dissolving Metals II *J Chem Soc 1945 809-813* **NSYM MECH**
- 17 The Synthesis of Substances Related to the Sterols Part XLIV dl-cis-Equilenin *J Chem Soc 1945 582* **NSYM SYPN** (R. Jaeger and R. Robinson)
- 18 Electrolytic Reduction in Liquid Ammonia *Nature(London) 1946 158 60* **NSYM**
- 19 Reduction by Dissolving Metals *Nature (London) 1946 168 585* **NSYM MECH**
- 20 Conductivity of Sodium-ammonia Solutions *PPhys Rev 1946 70 219* (J. G. Daunt , M. Desirant, K. Mendelsohn)
- 21 Reduction by Dissolving Metals III *J Chem Soc 1946 593-597* **NSYM MECH**
- 22 Colours of Jupiter *Nature (London) 1947 159 478* **G**
- 23 Metal-ammonia Solutions *Nature (London) 1947 159 811* **NSYM MECH** (D. K. C. Macdonald)
- 24 Reduction of Aniline in Ammonia *Nature (London) 1947 160 754* **NSYM MECH**
- 25 Reduction by Dissolving Metals IV *J Chem Soc 1947 102-105* **NSYM**
- 26 Cyclohex-2-enones from 2-Methylpyridines *J Chem Soc 1947 1270* **NSYM**
- 27 Reduction by Dissolving Metals V *J Chem Soc 1947 1642-48* **NSYM MECH**
- 28 Anionic Intermediates in Reduction by Nascent Hydrogen *Faraday Disc 1947 2 246-251* **NSYM MECH**
- 29 Some Physical Properties of Solidified Sodium-ammonia Solutions *Faraday 1947 43 792-798* **P** (D. K. C. Macdonald)
- 30 Conductivity of Sodium-ammonia Solutions *Phys Rev 1947 71 563-564* **P**
- 31 Metal-ammonia Solutions *Oxford Sci 1948 1-13* **NSYM MECH** (D. K. C. Macdonald)
- 32 Errors in Scale Estimation *Research 1948 1 287* **A G** (D. K. C. Macdonald)
- 33 Metal-ammonia Solutions *J Chem Phys 1948 16 741* **P** (D.K.C.Macdonald)
- 34 The Nature of Metal-ammonia Solutions II *Faraday 1948 44 735-742* (D.K.C.Macdonald)
- 35 Reduction by Dissolving Metals VI Some Applications in Synthesis *J Chem Soc 1949 2531-36* **SY NSYM PN** (S.M.Mukherji)
- 36 The Preparation of Some Esters of 3:3-dimethylbutanol and 3:3-dimethylpentanol *J Chem Soc 1949 2721-22* **SY**
- 37 Reduction by Sodium-ammonia Solutions *Nature (London) 1949 163 766* **NSYM MECH NP BA** (S.M.Mukherji)
- 38 Hydroaromatic Steroid Hormones I 10-(19)-Nortestosterone *J Chem Soc 1950 367-368* **SY NSYM**
- 39 Reduction by Dissolving Metals VII The Reactivity of Mesomeric Anions in Relation to the Reduction of Benzene Rings *J Chem Soc 1950 1551-1556* **MECH NSYM**
- 40 Conversion of Cholest-4-en-3-one into Cholesterol *J Chem Soc 1950 2325-2326* **NSYM MECH SYPN**
- 41 Reduction by Dissolving Metals VIII Some Effects of Structure on the Course of Reductive Fission *J Proc R Soc NSW 1950 83 245-250* **NSYM MECH**

- 42 The Reduction of Organic Compounds by Metal-ammonia Solutions *Q Rev Chem Soc* 1950 4 69-93 **NSYM SY MECH**
- 43 Reduction by Dissolving Metals IX Some Hydronaphthalene Derivatives *J Chem Soc* 1951 1945-50 **NSYM SY** (A. R. Murray and H. Smith)
- 44 Hydroaromatic Steroid Hormones II Some Hydrochrysene Derivatives *J Chem Soc* 1951 1882-88 **NSYM SY** (H. Smith)
- 45 Constitution of Lanceol *J Chem Soc* 1951 1888-90 **NBSD PN** (A.R.Murray)
- 46 β -Triketones I The Structures of Angustione Dehydroangustione Calythrone and Flavaspidic Acid *J Chem Soc* 1951 3026-30 **NSTM NBSD**
- 47 An Attempted Total Synthesis of Testosterone *Chem Ind* 1951 616 **NSYM SY NP**
- 48 Homocyclic Compounds *Ann Rep Chem Soc* 1950 (issued 1951) 47 177-219 **G SD ST MECH SY BA**
- 49 Terpene Structures and Their Elucidation *Perfum Essent Oil Rec* 1952 43 110-113, 132 **G SD**
- 50 Homocyclic Compounds *Ann Rep Chem Soc* 1951 (issued 1952) 48 184-210 **G SD MECH SY**
- 51 Hydroaromatic Steroid Hormones Part III Some Angular Methylated Intermediates *J Chem Soc* 1952 1768-74 **NSYM MECH** (J.A.K.Quartey, H.Smith)
- 52 Anthelmintics: Kouso. II The Structure of Protokosin a -Kosin b-Kosin *J Chem Soc* 1952 3102-08 **SD NSTM PN** (A. R. Todd)
- 53 Hydroaromatic Steroid Hormones: the Androgenic Activity of a D-Homobisnor steroid *Chem Ind* 1953 489-90 (J. A. K. Quartey) **SY NSYM BA**
- 54 Eudesmic Acid: its Identity with 3,4,5-Trimethoxybenzoic Acid *J Chem Soc* 1953 355-56 **SD PN** (P. Elliott)
- 55 The Volatile Oil of *Metrosideros Scandens* *J Chem Soc* 1953 715 **SD PN**
- 56 The Total Synthesis of Steroids *Rev Pure Appl Chem* 1953 3 61-82 **G NSYM CR**
- 57 Studies in Relation to Biosynthesis I Some Possible Routes to Derivatives of Orcinol and Phloroglucinol *Austral J Chem* 1953 6 360-68 **NBSM B BSD PN** (F. W. Donovan)
- 58 Studies in Relation to Biosynthesis II The Structure of Macropone *Austral J Chem* 1953 6 368-72 **NBSM NBSD PN** (P.Elliott)
- 59 Studies in Relation to Biosynthesis III The Structure of Eleutherinol *Austral J Chem* 1953 6 373-68 **NBSD NP** (F. W. Donovan)
- 60 The Structure of Aromadendrene I *Austral J Chem* 1953 6 379-84 **SD PN** (F. N. Lahey)
- 61 Natural Derivatives of Furan I Ngaione *Austral J Chem* 1953 6 385-90 **SD NP** (R. A. Massy-Westropp, S. E. Wright)
- 62 The Sesquiterpene Alcohols of *Eucarya Spicata* Sprague et Summ *Austral J Chem* 1953 6 391-94 **SD BA PN** (K. M. C. Mostyn, A. R. Penfold)
- 63 A Conversion of Cholest-4-en-3-one into Cholest-5-enone and Cholesterol *Austral J Chem* 1953 6 445-46 **NSYM MECH NP**
- 64 Constitution of Gmelinol III Final Elucidation *Austral J Chem* 1954 7 83-86 **SD MECH NP** (G, K, Hughes, E. Smith)
- 65 Studies in Relation to Biosynthesis IV Angustifolional *Austral J Chem* 1954 7 169-72 **NBSM BSD NP** (P. Elliott, A. R. Penfold)
- 66 Reduction by Dissolving Metals X Aromatic Compounds Containing Electron Sinks *Austral J.Chem* 1954 7 256-260 **NSYM MECH** (P. Hextall, S. Sternhell)
- 67 Reduction by Dissolving Metals XI Potassium and Alcohols on Some Monobenzenoid Substances *Austral J Chem* 1954 7 261-263 **NSYM MECH** (A. Fogiel, G. J. Harvey)

- 68 The Steric Configuration of Eudesmol *Austral J Chem* 1954 7 301-303 **ST SD NP**
(K. M. C. Mostyn)
- 69 Some Synthetic Leucoanthocyanidins *Chem Ind* 1954 422 **SD SYNP NSYM NBSM NP**(L.Bauer)
- 70 Ipomeamarone and Ngaione *Chem Ind* 1954 902 **SD NP**(R.A.Massy-Westropp, S.E.Wright, T.Kubota, T.Matsuura, M.D.Sutherland)
- 71 The Structures of Some Natural Naphthoquinones *Chem Ind* 1954 1047-48 **NBSD NBSP SYPN** (F.W.Donovan)
- 72 The Preparation of Aldehydes *Chem Ind* 1954 1559-60 **NSYM** (J. Cymerman-Craig, M. Slaytor)
- 73 Reduction by Dissolving Metals XII The Conversion of 2,5- into 2,3-Dihydroanisoles by Means of Potassium Amide in Ammonia *Austral J Chem* 1955 8 96-99 **NSYM MECH** (P Hextall)
- 74 The Use of Mannich Base Methiodides in the Diene Reaction *Austral J Chem* 1955 8 144 **NSYM** (M.Slaytor)
- 75 Studies on Xanthorrhoea Resins II Xanthorrhoein and Hydroxypaeonol *Austral J Chem* 1955 8 263-66 **SD PN** (P.Hextall)
- 76 The Synthesis of Angustifolionol *Austral J Chem* 1955 8 409-12 **NBSM SYPN SD** (P. Elliott, S. K. Mukherji, T. R .Rajagopalan, T. R Seshadri and S. Varadarajan)
- 77 Reduction by Dissolving Metals XIII The Production of Aldehydes from Amidines Amides and Related Compounds *Austral J Chem* 1955 8 512 **NSYM MECH** (J. Cymerman-Craig and M. Slaytor)
- 78 Hydroaromatic Steroid Hormones IV (+)-19-Nor-D-Homotestosterone *Austral J Chem* 1955 8 519-522 **SY BA** (R. J. Harrison)
- 79 Barbaloin I Some Observations on its Structure *Austral J Chem* 1955 8 523-28 **SD PN**(F. W. Donovan)
- 80 Studies in Relation to Biosynthesis V The Structures of Some Natural Quinones *Austral J.Chem* 1955 8 529-33 **NBSP BSD PN** (F. W. Donovan)
- 81 Studies in Relation to Biosynthesis VI Rheosmin *Austral J Chem* 1955 8 534-38 **NBSD PN** (L. Bauer, A. J. Ryan)
- 82 Studies in Relation to Biosynthesis VII 2-Hydroxy-6-methylbenzoic acid in *Penicillium griseofulvum* Dierckx *Austral J Chem* 1955 8 539-44 **B NBSP PN**
- 83 A New Sesquiterpene Alcohol from *Himantandra Baccata* Bail. *Austral J Chem* 1955 8 550-51 **SD ST PN** (K. M. C. Mostyn)
- 84 The Structure of Stercobilin *Chem Ind* 1955 652 **SD**
- 85 The Structure of Fuscin *Chem Ind* 1955 682-83 **NBSD NBSM**
- 86 The Biosynthesis of 6-Hydroxy-2-methylbenzoic Acid *Chem Ind* 1955 683-84 **B NBSP** (R. A. Massy-Westropp, C. J. Moye)
- 87 Mycelianamide *Chem Ind* 1955 1599 **SD NBSD NBSP** (R. A. Massy-Westropp, C. J. Moye)
- 88 Zierone:Derivative of a New Natural Azulene *Chem Ind* 1955 1773-74 **SD** (D. J. Collins, A. R. Penfold)
- 89 Biosynthetic Theories in Organic Chemistry *Perspectives in Organic Chemistry* Interscience London 1956 Ed,A. R. Todd. **G B NBSD NBSP**
- 90 The Investigation of Natural Products *J Sci Indust Res* 1956 15A 353-58 **G**
- 91 Studies in Relation to Biosynthesis VIII The Structure of Mycelianamide *J Chem Soc* 1956 3717-21 **SD NBSP** (R. A. Massy-Westropp, R. W. Rickards)
- 92 Hydroaromatic Steroid Hormones V Some D-Homo-18,19-bisnorsteroids *J Chem Soc* 1956 4909-16 **SY** (H. Smith)
- 93 Dehydroangustione *Chem Ind* 1956 124-25 **SD NBSD**(P. Elliott)

- 94 The Alkali-catalysed Isomerisation of Unsaturated Compounds *Chem Ind* 1956 135-37 **A MECH** (J. B. Davenport, A. J. Ryan)
- 95 The Relative Configurations of Catechin and Epicatechin *Chem Ind* 1956 664-65 **SD NSTM ST** (A. V. Robertson, J. W. Clark-Lewis)
- 96 The Stereochemistry of the Metal-ammonia Reduction of α,β -Unsaturated Ketones *Chem Ind* 1956 1310 **ST MECH** (H. Smith, R. E. Thornton)
- 97 Reduction of Cinnamyl Alcohols with Aluminium Chloride and Lithium Aluminium Hydride *Chem Ind* 1956 1524 **NBSP MECH NSYPN ST**
- 98 Studies in Relation to Biosynthesis VIIIa Tasmanone Dehydroangustione Calythrone *Austral J Chem* 1956 9 95-104 **NBSM SD PN** (P. Elliott)
- 99 Loganin I Some Observations on the Structure *Austral J Chem* 1956 9 234-37 **SD** (E. Smith)
- 100 β -Triketones III Xanthostemone *Austral J Chem* 1956 9 238-40 **SD B PN** (P. Elliott)
- 101 Natural Derivatives of Furan II Structure of Evodone *Austral J Chem* 1956 9 241-43 **SD PN B** (R.W.Rickards)
- 102 The Chemistry of Terpenoid Compounds *Nature (London)* 1957 180 470-71 **G**
- 103 The Isolation of Shikimic Acid from Eucalyptus Citriodora Hook *Austral J Chem* 10 93-94 **A PN** (E. F. L. J. Anet, R. A. Massy-Westropp)
- 104 Biosynthetic Relations of Some Natural Phenolic and Enolic Compounds *Fortschr Chem Org Naturst* Springer Wien, 1957 14 186-216 **B NBSP CR SD PN**
- 105 Liquid Ammonia as a Solvent *J R Inst Chem* 1957 81 100-105 **G**
- 106 The Conversion of Acetic Acid into Griseofulvin in *Penicillium Griseofulvum* Dierckx *Proc Chem Soc* 1957 98 **B NBSP PN**
- 107 The Biochemical Origin of the Methyl Group of Mycophenolic Acid *Proc Chem Soc* 1957 204 **B NBSP PN** (R. J. English, R. A. Massy-Westropp, M. Slaytor, H. Smith)
- 108 The Origin of the Terpenoid Structure in Mycelianamide and Mycophenolic Acid: Mevalonic Acid as an Irreversible Precursor in Terpene Biosynthesis *Proc Chem Soc* 1957 233 (R. J. English, R. A. Massy-Westropp, H. Smith) **B NBSP PN**
- 109 Studies in Relation to Biosynthesis IX The Structure of Spherophysine *J Chem Soc* 1957 410-11 **NBSP PN** (D. G. Pettit, R. Schofield)
- 110 Studies in Relation to Biosynthesis X A Synthesis of Lumichrome from Non-benzenoid Precursors. *J Chem Soc* 1957 412-14 **BMM NBSP** (C. J. Moye)
- 111 Reduction by Dissolving Metals XIV Some Stereochemical Aspects of the Reduction of α,β -Unsaturated Ketones *J Chem Soc* 1957 1339-1342 (H. Smith, R. Thornton) **NSYM ST MECH**
- 112 Studies in Relation to Biosynthesis XI The Structure of Nalgiovensin *J Chem Soc* 1957 2215-2217 **BS** (R. A. Massy-Westropp)
- 113 The Relative and Absolute Configurations of Catechins and Epicatechins *J Chem Soc* 1957 3856-3894 **ST SD NSTM** (J. W. Clark-Lewis, A. V. Robertson)
- 114 β -Triketones IV The Chromophore of Calythrone *J Chem Soc* 1957 3805-06 **SD PN**
- 115 Studies in Relation to Biosynthesis XII The Synthesis of Ethyl 4-Formyl-3-methylbut-3-enoate *J Chem Soc* 1957 5096-97 **SY B** (E. Pride, H. Smith)
- 116 Oxidative Formation of Biologically Active Compounds from Peptides, *CIBA Foundation, Amino-acids and Peptides with Antimetabolic Activity*, (incl azaserine, DON) Churchill, 1958 247-57; 257-63 **NBSP B CR PN**
- 117 The Biosynthesis of Aromatic Compounds from C₁- and C₂-Units (incl Arylfurans) *Chem Soc Spec Publ* 1958 12 1-11 **NBSP CR PN** (H. Smith)
- 118 Reduction by Metal-amine Solutions: Applications in Synthesis and Determination of Structure *Q Rev Chem Soc* 1958 12 17-33 **CR SY SD MECH** (H. Smith)

- 119 The Origin of the C₅-Unit in Auroglaucin *Chem Ind 1958 1321* **B** (J. Schofield , H. Smith)
- 120 The Biosynthesis of Gibberellic Acid *Proc Chem Soc 1958 192* **B PN NBSP** (R.W. Rickards and H. Smith)
- 121 The Biosynthesis of Rosenonolactone, a Diterpenoid Metabolite of Tricothecium Roseum Link *Proc Chem Soc 1958 223* **B NP** (R.W. Rickards, H. Smith, A. Harris, W. B. Whalley) **B NBSP PN**
- 122 The Biosynthesis of Aurantiogliocladin, Rubrigliocladin and Gliorosein: A Possible Relation to the Biosynthesis of Ubiquinone (Coenzyme-Q) *Proc Chem Soc 1958 343* **B NBSP** (R.I.Fryer, H.Smith)
- 123 Studies in Relation to Biosynthesis XIII Griseofulvin *J Chem Soc 1958 360-63* **B** (R. A. Massy-Westropp, R. W. Rickards, H. Smith)
- 124 Studies in Relation to Biosynthesis XXIV The Origin of the Nuclear Methyl Groups in Mycophenolic Acid *J Chem Soc 1958 365-68* **B NBSP** (R. J. English, R. A. Massy-Westropp, M. Slaytor, H. Smith)
- 125 Studies in Relation to Biosynthesis XV Origins of Terpene Structures in Mycelianamide and Mycophenolic Acid *J Chem Soc 1958 369-75* **B NBSP** (R. J. English, R. A. Massy-Westropp, H. Smith)
- 126 Studies in Relation to Biosynthesis XVI The Synthesis of Lumiflavin from Non-benzenoid Precursors *J Chem Soc 1958 2622-24* **BMM SY**(C. J. Moye)
- 127 Some Stereochemical Studies of Lignans *J Chem Soc 1958 4471-76* **ST NSTM** (B. Milligan, E. Smith, R. N. Speake)
- 128 Studies in Relation to Biosynthesis XVII Sclerotiorin, Citrinin and Citromycetin *J Chem Soc 1958 4576-81* **NBSP** (P. Fitton, E. Pride, A. J. Ryan, H. Smith, W. B. Whalley)
- 129 Studies in Relation to Biosynthesis XVIII Penicillic Acid *J Chem Soc 1958 4582* **B NBSP** (G. E. Blance, H. Smith)
- 130 Hydroaromatic Steroid Hormones VI Some D-Homo Analogues *J Chem Soc 1958 4688-93* **SY** (E. Pride, H. Smith)
- 131 Studies in Relation to Biosynthesis: Helminthosporin *J Chem Soc 1958 4773-74* **B** (A. J. Ryan, H. Smith)
- 132 Hydroaromatic Steroid Hormones VII (+)17a-ethynyl-17a-hydroxy-D-homo-18, 19-bisnorandrost-4- en-3-one *J Chem Soc 4774-76* **SY** (G. A. Hughes and H. Smith)
- 133 The Biosynthesis of Terpenoid Compounds in Fungi *CIBA Foundation Symp Biosyn Terpenes and Sterols, Churchill 1959 245-63; 263-66* **B CR NBSP SD** (H. Smith)
- 134 Studies in Relation to Biosynthesis XX The Structure and Biosynthesis of Curvularin *J Chem Soc 1959 3146-52* **B NBSD NBSP** (O. C. Musgrave, R. W. Rickards, H. Smith)
- 135 Reaction Mechanisms in Reductions by Metal-ammonia Solutions *Tetrahedron 1959 6 148-53* **MECH** (D. Nasipuri)
- 136 Studies in Relation to Biosynthesis XXI Rosenonolactone and Gibberellic Acid *Tetrahedron 1959 7 241-51* **B NBSP** (R. W. Rickards, H. Smith, A. Harris, W. B. Whalley)
- 137 Reduction of Monobenzenoid Compounds by Metal-ammonia-alcohol Systems *Experientia 1959 15 126-27* **MECH** (D. Nasipuri, H. Smith)
- 138 The Biosynthesis of Citronellal and Cineole in Eucalyptus *Tetrahedron Lett 1959 1-2* **B** (D. Boulter, R. I. Fryer, P. J. Thompson, J. L. Willis)
- 139 Aromadendrene and Viridiflorol *Tetrahedron Lett 1959 15-18* **SD ST** (J. Grimshaw, R. N. Speake, R. M. Gascoigne, R. O. Hellyer)
- 140 Echitamine *Proc Chem Soc 1959 224* **SD** (H. F. Hodson, G. F. Smith)

- 141 The Biosynthesis of Tetracycline Antibiotics *J Am Chem Soc* 1960 82 2402 **B** (J. F. Snell, P. L. Thompson)
- 142 Phytochemical Surveys in Australia *W Afric J Biol Chem* 1960 4 3-5 **G**
- 143 Terpenoid Compounds of Mixed Biogenetic Origins in Fungi *Chem Weekblad* 1960 56 597-602 **NBSP NBSD CR**
- 144 The Biosynthesis of Flavonoids and Anthocyanins XVII IUPAC Munich 1959 *Proceedings*, Butterworth, 1960 73-84 **NBSP CR NBSD**
- 145 The Biosynthesis of Ergot Alkaloids *Tetrahedron Lett* 1960 7 1-2 **NBSP** (B. J. McLoughlin, H. Smith)
- 146 Echitamine *Tetrahedron Lett* 1960 19 36-42 **SD** (H. F. Hodson, B. Moore, H. Potts, G. F. Smith)
- 147 Further Examples of Biological C-Methylation: Novobiocin and Actinomycin *Tetrahedron Lett* 1960 25 26-31 **B NBSP PN**(D. W. Cameron, P. W. Holloway, R. W. Rickards)
- 148 The Allogibberic-Gibberic Acid Rearrangement *Chem Ind* 1960 401-402 **B NBSP**(R.W.Rickards, H. Smith, J. Winter)
- 149 Biosynthesis of b-Nitropropionic Acid *Chem Ind* 1960 840-41 **B NBSP** (B.J. McLoughlin, H. Smith, J. Winter)
- 150 Biosynthesis of Methymycin *Chem Ind* 1960 1245-46 **B** (E. Pride, R. W. Rickards, P. J. Thompson, J. D. Dutcher, D. Perlman, C. Djerassi)
- 151 Studies in Relation to Biosynthesis XXII Palitantin and Cyclopaldic Acid *J Chem Soc* 1960 866-71 **B NBSP** (M. Kocor)
- 152 Flavanones in Angophora Lanceolata *J Chem Soc* 1960 2063-66 **SD B** (D. G. Pettit, A. J. Ryan, R. N. Speake) **n**
- 153 The Structure of Alphitonin *J Chem Soc* 1950 3593-99 **SD NSTRM** (E. Ritchie, R. N. Speake)
- 154 Studies in Relation to Biosynthesis XXIII The Formation of Aromatic Compounds From b-Polyketones *J Chem Soc* 1960 4395-4400 **BMM** (D. W. Cameron, R. W. Rickards)
- 155 Antimycin-A *Proc Chem Soc* 1960 22 **SD NBSP** (D. W. Cameron, R. W. Rickards, Y. Harada)
- 156 Biosynthesis of Some Monobenzenoid Quinones *CIBA Found Symp Quinones in Electron Transport* Churchill 1961 233-39 **NBSP**
- 157 Pigments of Phoma Terrestris Hansen and Their Biosynthesis *Nature (London)* 1961 190 441-42 **SD NBSP PN** (R. I. Fryer, P. J. Thompson, H. Smith)
- 158 Biosynthesis of Natural Products *Proc Symp Phytochem Univ Hong Kong Jubilee* 1961 **CR PN**
- 159 The Reactions of Echitamine *Proc Chem Soc* 1961 62 **SD MECH PN**(H. Hodson, B. Moore, G. F. Smith)
- 160 Intermediates in Biosynthesis from Acetic Acid Units *Chem Ind* 1961 792-93 **B CR NBSP** (A.Cassera, R.W. Rickards)
- 161 An Insect Repellent from Black Cocktail Ants *J Chem Soc* 1961 488 **SD BA PN** (C. W. L. Bevan, H. Caswell)
- 162 The Structure of the Antimycin-A Complex *J Chem Soc* 1961 889-95 **SD B PN** (D. W. Cameron, Y. Harada, R. W. Rickards)
- 163 Loganin II Structural Interpretation of Spectral Properties *J Chem Soc* 1961 1407-08 (J. Grimshaw) **SD PN**
- 164 An Independent Confirmation of the Structure of Geijerene by Physical Methods (original title, censored by Ed Chem Soc: "An Experiment in the Use of Physical Methods Alone for Structure Determination : NMR and MS") *J Chem Soc* 1961 2286-91 **NSTRM SD PN** (J. Grimshaw, A. R. Penfold, N. Sheppard, R. N. Speake)

- 165 Studies in Relation to Biosynthesis XXIV Some remarks on the Structure of Echinulin
J Chem Soc 1961 3128-31 **BSD NBSP PN**
- 166 The Synthesis of 4,5,7-Trimethoxy-2-propylantraquinone *J Chem Soc 1961 4691-92* **SY** (C. J. Moye)
- 167 The Synthesis of S-3-Methylbut-2-enylhomocysteine *J Chem Soc 1961 4692* **SY B** (M. Slaytor)
- 168 Aucubin *J Chem Soc 1961 5194-98* **NSTRM SD PN** (J. Grimshaw, H. R. Juneja)
- 169 The Base-catalysed Isomerisation of Some 3-Alkyldihydroanisoles *J Chem Soc 1961 5376-80* **NSYM MECH**(E. M. A. Shoukry, F. Stansfield)
- 170 A Partial Synthesis of Pisatin from Pterocarpin *Tetrahedron Lett 1962 15 673-76* **SYPN NSYM** (B. Moore, S. K. Mukherji, C. W. L. Bevan)
- 171 The Biosynthesis of Noviose, a Branched-chain Monosaccharide *Biochem Biophys Acta 1962 57 143-45* **NBSP** (P. W. Holloway, R. W. Rickards)
- 172 Biosynthesis of Flavonoids and Anthocyanins *Chemistry of Flavonoid Compounds* Ed T.A. Geissman, Macmillan, 1962 623-30 **CR**
- 173 Reduction by Metal-ammonia Solutions *Lectures Comm Inaug Shionogi Res Lab 1961 176-87* **CR MECH**
- 174 Some Pathways in Biosynthesis (Simonsen Lecture) *Proc Chem Soc 1962 3-13* **CR**
- 175 A Convenient Synthesis of Some Tropone derivatives *Proc Chem Soc 1962 282* **NSYM** (J. M. H. Graves, F. Stansfield)
- 176 The Addition of Grignard Reagents to $\alpha\beta$ -Unsaturated Ketones Catalysed by Copper Salts *Proc Chem Soc 1962 356* **NSYM** (M. Smith)
- 177 Curvularin IV Synthesis of a Degradation Product *J Chem Soc 1962 220-222* **SY SD NP** (B. Moore, R. W. Rickards)
- 178 Studies in Relation to Biosynthesis XXV A Preliminary Study of the Antimycin-A Complex *J Chem Soc 1962 303-305* **SD B PN**(D. W. Cameron, Y. Harada, R. W. Rickards)
- 179 Studies in Relation to Biosynthesis XXVI 7-Hydroxy-4,6-dimethylphthalide *J Chem Soc 1962 370-71* **B PN**(E. Pride)
- 180 Studies in Relation to Biosynthesis XXVII Ergot Alkaloids *J Chem Soc 1962 421-425* **NBSP PN** (S. Bhattacharji, A. Brack, A. Hofmann, H. Kobel, D. C. C. Smith, H. Smith, J. Winter)
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