

BIBLIOGRAPHY

Andrew A. Benson

1. The Synthesis of 3'-Fluoro-dl-thyronine and Some of its Iodinated Derivatives. Carl Niemann, James F. Mead and Andrew A. Benson, *J. Am. Chem. Soc.*, **63**, 609-611 (1941).
2. The Synthesis of 3', 5'-Difluoro-dl-thyronine and 3, 5-Diiodo-3', 5'-difluoro-dl-thyronine. Carl Niemann, Andrew A. Benson and James F. Mead, *J. Am. Chem. Soc.*, **63**, 2204-2208 (1941).
3. THESIS: I. Synthesis of Fluorinated Analogs of Thyroxine. II. Oxidative Degradation of Sphingosine Analogs. III. Inhibition in the Slow Muscle of Pecten. Andrew A. Benson, California Institute of Technology, (1942).
4. Inhibition in the Slow Muscle of the Scallop, *Pecten circularis aequisulcatus* Carpenter. Andrew A. Benson, John T. Hayes and Richard N. Lewis. (Introduced by C. A. G. Wiersma.), *Proc. Soc. Exptl. Biol. Med.*, **49**, 289-291 (1942).
5. The Contiguously Substituted Dihydroxyaminoalkanes. I. The Synthesis of 1-Amino-2, 3-Dihydroxy-n-Hexane and 1, 2-Dihydroxy-3-Amino-n-Hexane. Carl Niemann, Andrew A. Benson, and James F. Mead, *J. Org. Chem.*, **8**, 397-404 (1943).
- 5a The Physiological Action of Phosgene. Sam Ruben, Andrew A. Benson and Charles N. Rice. *Fasciculus on Chemical Warfare Medicine. Volume 2: Respiratory Tract.* pp. 327 and 641. Ten typed pages. National Research Council. Committee on Treatment of Gas Casualties. Washington, D.C. (1945).
6. Preparation of 7-Chloro-4-(2-piperidylmethylamino)-quinoline. T. R. Norton, A. A. Benson, R. A. Seibert and F. W. Bergstrom, *J. Am. Chem. Soc.*, **68**, 1330 (1946).
7. The Synthesis of Some Substituted 8-Aminoquinolines. T. R. Norton, R. A. Seibert, A. A. Benson and F. W. Bergstrom, *J. Am. Chem. Soc.*, **68**, 1572-1576 (1946).
8. The Synthesis of Some α -(2-Piperidyl)-quinolinemethanols. R. A. Seibert, T. R. Norton, A. A. Benson and F. W. Bergstrom, *J. Am. Chem. Soc.*, **68**, 2721-2723 (1946).
9. The Dark Reductions of Photosynthesis. A. Benson and M. Calvin, *Science*, **105**, 648-649 (1947).
10. Distribution of C¹⁴ in Photosynthesizing Barley Seedlings. S. Aronoff, A. Benson, W. Z. Hassid, and M. Calvin, *Science*, **105**, 664-665 (1947).
11. The Path of Carbon in Photosynthesis. M. Calvin and A. A. Benson, *Science*, **107**, 476-480 (1948).
12. C¹⁴ in Photosynthesis. A. A. Benson, M. Calvin, V. A. Haas, S. Aronoff, A. G. Hall, J. A. Bassham, and J. W. Weigl. In "Photosynthesis in Plants", James Franck and Walter E. Loomis, ed., Chapter 19, pp 381-401. Iowa State College Press, Ames, Iowa, 1949.
13. The Path of Carbon in Photosynthesis: II. Amino Acids. W. Stepka, A. A. Benson, and M. Calvin, *Science*, **108**, 304 (1948).

Bibliography

Andrew A. Benson

14. The Path of Carbon in Photosynthesis. III. A. A. Benson and M. Calvin, Cold Spring Harbor Symposia on Quantitative Biology, 13, 6-10 (1948).
15. Chemical Degradation of Isotopic Succinic and Malic Acids. A. A. Benson and J. A. Bassham, J. Am. Chem. Soc., 70, 3939 (1948).
16. The Path of Carbon in Photosynthesis IV: The Identity and Sequence of Intermediates in Sucrose Synthesis. M. Calvin and A. A. Benson, Science, 109, 140-142 (1949).
17. Green Secret. A. A. Benson, "The Story of Our Time", p.300-301, Grolier Society, Inc., New York, (1948).
18. Photosynthesis. A. A. Benson and M. Calvin, Science Counselor, 12, 115 (1949).
19. Carbon Dioxide Fixation by Green Plants. A. A. Benson and M. Calvin, Ann. Rev. Plant Physiol., 1, 25-42 (1950).
20. The Path of Carbon in Photosynthesis. V. Paper Chromatography and Radioautography of the Products. A. A. Benson, J. A. Bassham, M. Calvin, T. C. Goodale, V. A. Haas and W. Stepka, J. Am. Chem. Soc., 72, 1710-1718 (1950).
21. The Path of Carbon in Photosynthesis VII. Respiration and Photosynthesis. A. A. Benson and M. Calvin, J. Exper. Bot., 1, 63-68 (1950).
22. The Path of Carbon in Photosynthesis VIII. The Rôle of Malic Acid. James A. Bassham, Andrew A. Benson, and Melvin Calvin, J. Biol. Chem., 185, 781-787 (1950).
23. Chemical Transformation of Carbon in Photosynthesis. M. Calvin, J. A. Bassham and A. A. Benson, Fed. Proc., 9, 524-534 (1950).
24. Carboxylation Reactions of Photosynthesis. A. A. Benson. In "CO₂ Assimilation Reactions in Biological Systems", M. Gibbs, ed., Brookhaven Conference Report, BNL-70 (C-13) pp. 119-138 (1950).
25. Detection of Tritiated Compounds in Paper Chromatography. Irving Gray, Saburo Ikeda, Andrew A. Benson, and David Kritchevsky, The Rev. Sci. Instruments, 21, 1022 (1950).
26. The Path of Carbon in Photosynthesis, XI. The Role of Glycolic Acid. L. Schou, A. A. Benson, J. A. Bassham, and M. Calvin, Physiologia Plantarum, 3, 487-495 (1950).
27. The Path of Carbon in Photosynthesis. X. Carbon Dioxide Assimilation in Plants. M. Calvin, J. A. Bassham, A. A. Benson, V. H. Lynch, C. Ouellet, L. Schou, W. Stepka and N. E. Tolbert. In "Carbon Dioxide Fixation and Photosynthesis", I. F. Danielli and R. Brown, eds., Proc. Soc. Exper. Biol. (Great Britain), 5, 284-305 (1951).
28. Reduction of Carbon Dioxide in Aqueous Solutions by Ionizing Radiation. W. M. Garrison, D. C. Morrison, J. G. Hamilton, A. A. Benson, and M. Calvin, Science, 114, 416-418, (1951).
29. The Sequence of Formation of Hexoses During Photosynthesis. A. A. Benson, Arch. Biochem. Biophys., 32, 223-224 (1951).
30. Sedoheptulose in Photosynthesis by Plants. A. A. Benson, J. A. Bassham and M. Calvin, J. Am. Chem. Soc., 73, 2970 (1951).

Bibliography

Andrew A. Benson

31. Identification of Ribulose in $C^{14}O_2$ Photosynthesis Products. A. A. Benson, J. Am. Chem. Soc., 73, 2971 (1951).
32. The Path of Carbon in Photosynthesis. XIII. pH Effects in $C^{14}O_2$ Fixation by Scenedesmus. C. Ouellet and A. A. Benson, J. Exper. Bot., 3, 237-245 (1952).
33. Measurement of Phosphorus-Carbon Ratios in Some Photosynthesis Intermediates. A. A. Benson, UCRL-1412.
34. The Path of Carbon in Photosynthesis. (O Caminho do Carbono na Fotosíntese.) XIV. Melvin Calvin, J. A. Bassham, A. A. Benson, S. Kawaguchi, V. H. Lynch, W. Stepka e N. E. Tolbert, transl. Mario Guimarães Ferri, Else Graf Kalmus e Henrich Hauptman, Selecta Chimica (Brasil), No. 10, 143-179 (1951).
35. The Path of Carbon in Photosynthesis. XV. Ribulose and Sedoheptulose. Andrew A. Benson, James A. Bassham, Melvin Calvin, A. G. Hall, H. E. Hirsch, S. Kawaguchi, V. Lynch, and N. E. Tolbert, J. Biol. Chem., 196, 703-716 (1952).
36. The Path of Carbon in Photosynthesis. XVI. Kinetic Relationships of the Intermediates in Steady State Photosynthesis. A. A. Benson, S. Kawaguchi, P. Hayes and M. Calvin, J. Am. Chem. Soc., 74, 4477-4482 (1952).
37. Photosynthesis. M. Calvin, J. A. Bassham, A. A. Benson, and P. Massini, Ann. Rev. Phys. Chem., 3, 215-228 (1952).
38. The Path of Carbon in Photosynthesis. XVII. Phosphorus Compounds as Intermediates in Photosynthesis. J. G. Buchanan, J. A. Bassham, A. A. Benson, D. F. Bradley, M. Calvin, L. L. Daus, M. Goodman, P. M. Hayes, V. H. Lynch, L. T. Norris, and A. T. Wilson, In "Phosphorus Metabolism", Vol II, William D. McElroy and Bentley Glass, eds., pp. 440-459, The Johns Hopkins Press, Baltimore, 1952.
39. Mechanism of Biochemical Photosynthesis. A. A. Benson, Zeit. fur Electrochemie, 56, 848-854 (1952).
40. Isotope Studies in Photosynthesis. J. A. Bassham, A. A. Benson and Melvin Calvin, J. Chem. Educ., 30, 274-283 (1953).
41. The Path of Carbon in Photosynthesis. XVIII. The Identification of Nucleotide Coenzymes. J. G. Buchanan, V. H. Lynch, A. A. Benson, D. F. Bradley, and Melvin Calvin, J. Biol. Chem., 203, 935-945 (1953).
42. The Path of Carbon in Photosynthesis. XXI. The Cyclic Regeneration of Carbon Dioxide Acceptor. J. A. Bassham, A. A. Benson, Lorel D. Kay, Anne Z. Harris, A. T. Wilson and M. Calvin, J. Am. Chem. Soc., 76, 1760-1770 (1954).

A Marcha do Carbono na Fotosíntese. A Regeneração Cíclica do Aceptor do Dióxido de Carbono. (Trad. e Notas de E. Malavolta) Boletim N. 13, 36 pp. Superior de Agricultura "Luiz de Queiroz" Universidade de São Paulo, 1954.
43. Photosynthesis: First Reactions. Andrew A. Benson, J. Chem. Ed., 31, 484-487 (1954).
44. Enzymatic Carboxylation of Ribulose Diphosphate. J. R. Quayle, R. C. Fuller, A. A. Benson and M. Calvin, J. Am. Chem. Soc., 76, 3610¹¹ (1954).

Bibliography

Andrew A. Benson

45. The Absorption Spectra of Suspensions of Living Micro-organism. K. Shibata, A. A. Benson and M. Calvin, *Biochim. et Biophys. Acta*, 15, 461-470 (1954).
46. Book Review, "Radioisotopes in Biology and Agriculture" by C. L. Comar, *J. Franklin Inst.*, 260, (3) 248 (1955).
47. Phosphorylated Sugars. A. A. Benson, Vol. II pp. 113-144, In "Modern Methods of Plant Analysis." Edited by K. Paech and M. V. Tracey, Springer Verlag, 1955.
48. Isolation of Mannoheptulose and Identification of its Phosphate in Avocado Leaves. A. Nordal and A. A. Benson, *J. Am. Chem. Soc.*, 76, 5054-5055 (1954). *Medd. fra Norsk Farmaceutisk Selskap*, 17, 207-213 (1955).
49. Fractionation of Phosphates from *Scenedesmus* by Anion Exchange. M. Goodman, A. A. Benson and M. Calvin, *J. Am. Chem. Soc.*, 77, 4257-4261 (1955).
50. Book review, "Photosynthesis" by R. Hill and C. P. Whittingham, *Phytomorphology*, 5, 394 (1955).
51. Metabolism of Pyruvic Acid-2-C¹⁴ and Hydroxypyruvic Acid-2-C¹⁴ in Algae. Gérard Milhaud, A. A. Benson, and M. Calvin, *J. Biol. Chem.*, 218, 599-606 (1956).
52. Phytosynthesis of Sedoheptulose-C¹⁴. A. Nordal, A. A. Benson and M. Calvin, *Arch. Biochem. Biophys.*, 62, 435-445 (1956).
53. A Scintillation Counter for Soft- β Paper Chromatograms. K. Steenberg and A. A. Benson, *Nucleonics*, 14, 40-43 (1956).
54. Identification of Phosphoryl Choline as an Important Constituent of Plant Saps. J. V. Maizel, A. A. Benson, and N. E. Tolbert, *Plant Physiol.*, 31, 407-408 (1956).
55. Intermediates of Photosynthesis: Isolation and Degradation Methods. A. A. Benson and M. Calvin, In "Methods in Enzymology" edited by L. Kaplan and S. P. Colowick, Vol. IV, pp. 382-905. Academic Press, New York, 1957.
56. Sugar Phosphates, Paper and Column Chromatography. A. A. Benson, In "Methods in Enzymology" edited by L. Kaplan and S. P. Colowick, Vol. III, pp. 110-129. Academic Press, New York, 1957.
57. Ribulose-1, 5-diphosphate from and CO₂ Fixation by *Tetragonia expansa* Leaves Extract, Jacques Mayaudon, A. A. Benson and M. Calvin, *Biochim. et Biophys. Acta*, 23, 342-351 (1957).
58. α , α' -Diglycerophosphate in Plants. B. Maruo and A. A. Benson, *J. Am. Chem. Soc.*, 79, 4564 (1957).
59. Catabolism of Glycine-C¹⁴ by Washed Bovine Spermatozoa. R. J. Flipse and A. A. Benson, *Exptl. Cell Research*, 13, 611-614 (1957).
60. Radiochemical Identification of Diglycerophosphate and its Probable Role in Lipid Synthesis by Plants. A. A. Benson and B. Maruo, in *Research with Isotopes in Plant Biology*, Vol. IV, pp. 510-519 (Proc. Int. Conf. Radioisotopes in Scientific Research, Paris, 1957). Ed. by R. C. Extermann. Pergamon Press, London, New York and Paris, 1958.

Bibliography

Andrew A. Benson

61. Introduction (The Contributions of Sam Ruben), A. A. Benson, Vice-Chairman. Radioisotopes in Plant Biology and some General Problems. Vol IV, pp. 410. (Session 17B; The Use of Radioisotopes in the Study of Photosynthesis). Ed. by R. C. Extermann. Pergamon Press, London, New York and Paris, 1958.
62. Dynamic Interrelationships of Enzyme Systems in Hexose Synthesis in vivo. A. A. Benson, Proc. Int. Symp. Enz. Chem., Tokyo and Kyoto 1957. Ed. K. Ichihara, pp. 189-191, Mauzen Press, Tokyo, 1958.
63. Book review, "Paper Chromatography and Paper Electrophoresis," by R. J. Block, E. L. Durrum, and G. Zweig, J. Am. Chem. Soc., 80, 5010 (1958).
64. Plant Phospholipids I. Identification of the Phosphatidyl Glycerols. A. A. Benson and B. Maruo, Biochim. et Biophys. Acta, 27, 189-195 (1958).
65. Application of the Nuclear Reactor in Biochemical Analysis: Neutron Activation Chromatography. By A. A. Benson, B. Maruo, R. J. Flipse, H. W. Yurow and W. W. Miller, Proceedings of the Second United Nations Conference on Peaceful Uses of Atomic Energy, Geneva, September 1958. Vol. 24, Isotopes in Biochemistry and Physiology, Part I, pp. 289-293, Pergamon Press, London, 1959.
66. Plant Phospholipids: Comparison with Those of Animal Tissues and Yeast. B. Maruo, A. A. Benson, Federation Proceedings, 17, 270 (1958).
67. The Sulfolipid of Chloroplasts. A. A. Benson, R. Wiser, Plant Physiol., 33, xvii (1958).
68. New Fat Derivatives Found in Plants. A. A. Benson, Science for the Farmer, 6, 15 Fall (1958).
69. Photosynthesis of Galactolipids. A. A. Benson, R. Wiser, R. A. Ferrari and J. A. Miller, J. Am. Chem. Soc., 80, 4740 (1958).
70. Light Stimulation of Glycolic Acid Oxidation in Chloroplasts. L. A. Delavan and A. A. Benson. In "The Photochemical Apparatus, Its Structure and Function." Brookhaven Symposium Biology: No. 11, 259-261, Brookhaven National Laboratory, 1958.
71. Book review, "Organic Syntheses with Isotopes. Part I: Compounds of Isotopic Carbon" by Arthur Murray, III and D. Lloyd Williams. Arch. Biochem. Biophys., 80, 223 (1959).
72. A Sulfolipid in Plants. A. A. Benson, H. Daniel, and R. Wiser, Proc. Natl. Acad. Sci., 45, 1582-1587 (1959).
73. Cyclic Glycerophosphate Formation from the Glycerolphosphatides. B. Maruo and A. A. Benson, J. Biol. Chem., 234, 254-256 (1959).
74. Chloroplast Lipids as Carbohydrate Reservoirs. A. A. Benson, J. F. G. M. Winternans and R. Wiser, Plant Physiol., 34, 315-317 (1959).
75. The Lipids of Chloroplasts. A. A. Benson, J. F. G. M. Winternans, R. Wiser, M. Lepage, J. A. Miller and R. A. Ferrari, Proc. IX Int. Bot. Cong., Vol. II, (Abstracts) p. 28, 1959, Montreal, Que.
76. Chloroplast Lipide Composition and its Relation to Carbohydrate Biosynthesis. A. A. Benson and R. A. Ferrari, Abstracts, 136th Meeting Am. Chem. Soc., pp. 62C-63C (1959).

Bibliography

Andrew A. Benson

77. Isolation and Structure of Glycerophosphoryl Inositol. M. Lepage and A. A. Benson, Abstracts 136th Meeting, Am. Chem. Soc., pp. 28C (1959).
78. The Homologous Series of Galactolipids in Alfalfa. M. Lepage and A. A. Benson, Plant Physiol., 34, (Proceedings) v (1959).
79. Products of Photosynthesis by Phosphorus-deficient Chlorella. J. A. Miller and A. A. Benson, Plant Physiol., 34 (Proceedings) xviii (1959).
80. New Developments in the Chemistry of the Ionic Lipides. A. A. Benson, 135th Meeting, Am. Chem. Soc., Abstracts, Paper 18, pp. 7F-8F (1959).
81. The Sulfolipids of Brain and Chloroplasts. A. A. Benson, R. Wiser and B. Maruo, Proc. 4th Int. Cong. Biochem., Vienna, 1958, Vol. 5, Biochem. of Lipids, pp. 8-10. Ed. G. Popjak. Pergamon Press, London, 1959.
82. Plant Phospholipids. II. Isolation and Structure of Glycerophosphoryl Inositol. M. Lepage, R. Mumma and A. A. Benson, J. Am. Chem. Soc., 82, 3713-3715 (1960).
83. Plant Phospholipids III. Identification of Diphosphatidyl Glycerol. A. A. Benson and E. H. Strickland, Biochim. et Biophys. Acta, 41, 328-333 (1960).
84. Neutron Activation Paper Chromatographic Analysis of Phosphatides in Mammalian Cell Fractions. E. H. Strickland and A. A. Benson, Arch. Biochem. Biophys., 88, 344-348 (1960).
85. Lipid Function in the Photosynthetic Structure. A. A. Benson. In "Light and Life", McCollum-Pratt Symposia. W. D. McElroy and Bentley Glass, eds., pp. 392-396, The Johns Hopkins Press, Baltimore, 1960.
86. The Plant Sulfolipid. II. Isolation and Properties of Sulfoglycosyl Glycerol. M. Lepage, H. Daniel and A. A. Benson, J. Am. Chem. Soc., 83, 157-159 (1961).
87. Sulfocarbohydrate Metabolism. A. A. Benson and I. Shibuya, (Abstract) Fed. Proc., 20 (I), 79 (1961).
88. The Path of Carbon in Photosynthesis of the Lipids. Richard A. Ferrari and A. A. Benson, Arch. Biochem. Biophys., 93, 185-192 (1961).
89. Development of New Radioisotope Techniques for Studying Life Processes. A. A. Benson, "Applications of Radioisotopes and Radiation in the Life Sciences", Hearings before the Subcommittee on Research, Development, and Radiation of the Joint Committee on Atomic Energy, Congress of the United States, March 27-30, 1961, pp. 314-328, U. S. Government Printing Office, Washington D. C.
90. The Plant Sulfolipid. Identification of 6-Sulfo-Quinovose. H. Daniel, M. Miyano, R. O. Mumma, T. Yagi, M. Lepage, I. Shibuya, and A. A. Benson, J. Am. Chem. Soc., 83, 1765 (1961).
91. Synthesis of (¹⁴C) glycerol from (¹⁴C) glucose in the rat and hamster duodenum. E. H. Strickland and A. A. Benson, Biochim. et Biophys. Acta, 52, 586-587 (1961).
92. Lipid Chromatography on Anion Exchange Paper. R. O. Mumma and A. A. Benson, Biochem. Biophys. Research Commun., 5, 422-423 (1961).

Bibliography

Andrew A. Benson

93. The Phosphatidyl Glycerol and Sulfolipid of Plants: Asymmetry of The Glycerol Moiety. A. A. Benson and M. Miyano, (Introduced by Marjorie G. MacFarlane,) *Biochem. J.*, 81, 30p. (1961).
94. Choline Sulfate in Higher Plants. Per Nissen and A. A. Benson, *Science*, 134, 1759 (1961).
95. Hydrolysis of α -Sulphoquinovosides by β -Galactosidase. Isao Shibuya and A. A. Benson, *Nature*, 192, 1186-1187 (1961).
96. The Plant Sulfolipid. VI. Configuration of Glycerol Moiety. M. Miyano and A. A. Benson, *J. Am. Chem. Soc.*, 84, 57-59 (1962).
97. The Plant Sulfolipid. VII. Synthesis of 6-Sulfo- α -D-quinovopyranosyl-(1 \rightarrow 1')-glycerol and Radiochemical Syntheses of Sulfolipids. M. Miyano and A. A. Benson, *J. Am. Chem. Soc.*, 84, 59-62 (1962).
98. Plant Sulfolipid. V. Lysosulfolipid formation. Tatsuhiko Yagi and A. A. Benson, *Biochim. et Biophys. Acta*, 57, 601-603 (1962).
99. Surfactant Lipids. A. A. Benson and Isao Shibuya. In "Physiology and Biochemistry of Algae", R. A. Lewin, ed., pp. 371-383. Academic Press, New York, 1962.
100. Phosphorylations and Phosphonations of Glycerol by Recoil Atoms. Tatsuhiko Yagi and A. A. Benson. VIth Symposium on Radiochemistry, Chemical Society of Japan. Kanazawa, 1962, Abstracts, pp. 114-115.
101. Chloroplast Lipid Metabolism. A. A. Benson, In Proc. Vth Int. Congress of Biochemistry, Moscow, 1961, Vol. VI, pp. 340-351, H. Tamiya, Ed., Pergamon Press, Warsaw, 1963.
102. Neutron Activation Chromatography of Phosphorus Compounds. A. A. Benson, In *Methods in Enzymology*, Vol. VI, pp. 881-888, eds. S. P. Colowick and N. O. Kaplan. Academic Press, New York, 1963.
103. Phosphorylations and Phosphonations of Glycerol by Recoil Atoms. Tatsuhiko Yagi, A. A. El-Kinawy and A. A. Benson, *J. Am. Chem. Soc.*, 85, 3462-3465 (1963).
104. Sulfonic Acids in Algae. Isao Shibuya, Tatsuhiko Yagi and A. A. Benson. In "Studies on Microalgae and Photosynthetic Bacteria", pp. 627-636, ed. Japan Soc. Plant Physiologists, Univ. Tokyo Press, 1963.
105. Biochemical Applications of Neutron Activation Chromatographic Analysis. A. A. Benson, W. W. Miller and Joseph M. Stein, Proc. 5th Japan Conf. on Radioisotopes, Vol. 2, pp. 119-126, Japan Atomic Industrial Forum, Inc. Tokyo, 1963.
106. The Plant Sulfolipid. A. A. Benson, *Adv. Lipid Research*, 1, 387-394 (1963).
107. Chlorophyll's Lipid Environment. A. A. Benson In "Photosynthetic Mechanisms of Green Plants", pp. 571-574, eds. B. Kok and A. Jagendorf, Publication 1145, National Academy of Science-National Research Council, Washington, D. C. 1963.
108. Derivative Activation Chromatography. Joseph M. Stein and A. A. Benson, *Anal. Biochem.*, 9, 21-34 (1964).

Bibliography

Andrew A. Benson

109. Isolation and fatty acid composition of the plant sulfolipid and galactolipids. John S. O'Brien and A. A. Benson, *J. Lipid Research*, 5, 432-436 (1964).
110. Plant Membrane Lipids. A. A. Benson, *Ann. Rev. Plant Physiol.*, 15, 1-16 (1964).
111. Active Transport of Choline Sulfate by Barley Roots. Per Nissen and A. A. Benson, *Plant Physiol.*, 39, 586-589 (1964).
112. Liquid Scintillation Counting of Plant Roots. Per Nissen and A. A. Benson, *Int. J. Applied Radiation and Isotopes*, 15, 505-507 (1964).
113. The Plant Sulfolipid. IX. Sulfosugar Syntheses from Methyl Hexoseamides. J. Lehmann and A. A. Benson, *J. Am. Chem. Soc.*, 86, 4469-4472 (1964).
114. Sulfo carbohydrate metabolism I. Bacterial production and utilization of sulfoacetate. Hebe L. Martelli and A. A. Benson, *Biochim. et Biophys. Acta*, 93, 169-171 (1964).
115. Absence of selenate esters and "selenolipid" in plants. Per Nissen and A. A. Benson, *Biochim. et Biophys. Acta*, 82, 400-402 (1964).
116. Metabolism of Chloroplast Lipids and its Relation to Photosynthetic Carbohydrate Synthesis. A. A. Benson, Tenth Int. Bot. Congr., Abstracts, pp. 160-161, Edinburgh, 1964.
117. The Plant Sulfolipid: Reactions of Methyl Glucoseamide, A Model Precursor. Jochen Lehmann and A. A. Benson, Sixth Int. Congress of Biochemistry, Abstracts, Vol. VI, pp. 517, New York, 1964.
118. Surfactant Lipids of Plants. A. A. Benson, in *Biochemisches Taschenbuch*, Part I, pp. 255-258, H. M. Rauen, ed., Springer-Verlag, Heidelberg, 1964.
119. Complex Lipids of Plants, their Structure and Function. A. A. Benson, *Plant Physiology (Japan)*, 4, 54-58 (1964).
120. Phosphatidyl Glycerol in *Thiobacillus thiooxidans*. G. E. Jones and A. A. Benson, *J. Bact.*, 89, 260-261 (1965).
121. Sulfolipid Localization in Lamellar Lipoprotein. Isao Shibuya, Bunji Maruo, and A. A. Benson, *Plant Physiology*, 40, 1251-1256 (1965).
122. Metabolism of Phospholipids and Galactolipids by *Chlorella* Cells. Shigetoh Miyachi, Shizuko Miyachi and A. A. Benson, *Plant and Cell Physiology*, 6, 789-792 (1965).
123. Synthesis of phytanic acid. Stuart Patton and A. A. Benson, *Journal of Lipid Research*, 7, 452-453 (1966).
124. Fatty acids of the "red tide" organism, *Gonyaulax polyedra*. S. Patton, G. Fuller, A. R. Loeblich, III, and A. A. Benson, *Biochim. et Biophys. Acta*, 116, 577-579 (1966).
125. Sulfolipid in *Ochromonas danica*. Shigetoh Miyachi, Shizuko Miyachi and A. A. Benson, *J. Protozoology*, 13, 76-78 (1966).
126. Phytol Metabolism in the Bovine. Stuart Patton and A. A. Benson, *Biochem. et Biophys. Acta*, 125, 22-32 (1966).

Bibliography

Andrew A. Benson

127. On the Orientation of Lipids in Chloroplast and Cell Membranes. A. A. Benson, *J. Am. Oil Chemists' Soc.*, 43, 265-270 (1966).
128. Lipids in Plant Mitochondria. J. B. Biale, S. F. Yang, and A. A. Benson, *Federation Proceedings*, 25, 405 (1966).
129. The Molecular Nature of Chloroplast Membranes. T. Elliot Weier and A. A. Benson, *In Biochemistry of Chloroplasts*. T. W. Goodwin, ed., Vol. 1, 91-112. Academic Press, London, 1966.
130. On the Orientation of Lipids in Chloroplast and Cell Membranes. A. A. Benson (transl. I. Shibuya). *Kagaku to Seibutsu (chemistry and biology)*, 5, 85-92 (1967).
131. Carbon Reduction Cycle (In Photosynthesis). A. A. Benson, *In "Encyclopedia of Biochemistry"*, R. J. Williams and E. M. Lansford, Jr., eds., 187-189. Reinhold Publishing Company, New York, 1967.
132. Transphosphatidylolation by Phospholipase D. S. F. Yang, Sofia Freer, and A. A. Benson, *J. Biol. Chem.*, 242, 477-484 (1967).
133. Choline Sulfate and Phosphate in Salt Excreting Plants. A. A. Benson and M. R. Atkinson, *Fed. Proc.*, 26, 394 (1967).
134. α -Linolenate and Photosynthetic Activity in *Chlorella protothecoides*. Masayuki Katayama and A. A. Benson, *Plant Physiology*, 42, 308-313 (1967).
135. Lipid Function in Plant Membranes. A. A. Benson, *Colloq. X, VIIth Cong. Biochem. Abstracts*, III, 525-526, Tokyo, 1967.
136. The Molecular Organization of Chloroplast Membranes. T. Elliot Weier and Andrew A. Benson, *Am. J. Bot.*, 54, 389-402 (1967).
137. Food Value of Red Tide (*Gonyaulax polyedra*). Stuart Patton, P. T. Chandler, E. B. Kalan, A. R. Loeblich III, G. Fuller, and A. A. Benson, *Science* 158, 789-790 (1967).
138. Phospholipids of *Thiobacillus thiooxidans*, J. M. Shively and A. A. Benson, *J. Bact.*, 94, 1679-1683 (1967).
139. The Nature of β -Carotene Association in Chloroplast Lamellae. Tae H. Ji, John L. Hess and A. A. Benson, *In: "Comparative Biochemistry and Biophysics of Photosynthesis"*, K. Shibata, A. Takamiya, A. T. Jagendorf and R. C. Fuller, eds., pp. 36-49. University of Tokyo Press, Tokyo and University Park Press, State College, Pennsylvania 1968.
140. Aerobically Bound CO₂ in *Chlorella* Cells. Shigetoh Miyachi, Ryuzi Kanai, and A. A. Benson, *In: "Comparative Biochemistry and Biophysics of Photosynthesis"*, K. Shibata, A. Takamiya, A. T. Jagendorf and R. C. Fuller, eds. pp. 248-252. University of Tokyo Press, Tokyo and University Park Press, State College, Pennsylvania 1968.
141. Studies on Chloroplast Membrane Structure I. Association of Pigments with Chloroplast Lamellar Protein. Tae H. Ji, John L. Hess and A. A. Benson, *Biochim. Biophys. Acta* 150, 676-685 (1968).
142. Japanese English. A. A. Benson. *Kagaku no Ryoiki (Chemistry and the Related Sciences)*, 22, (No. 1) 103-104 (1968).

Bibliography

Andrew A. Benson

143. The Cell Membrane: A Lipoprotein Monolayer. A. A. Benson. In: "Membrane Models and the Formation of Biological Membranes" Liana Bolis and E. A. Pethica, eds., "Proceedings of the International Conference on Biological Membranes," Frascati, June 11-17, 1967, pp. 190-202. North-Holland Publishing Company, Amsterdam,
144. Association of Lipids and Proteins in Chloroplast Lamellar Membrane. Tae H. Ji and A. A. Benson. *Biochim. Biophys. Acta* 150, 686-693 (1968).
145. Association of Lipid and Protein in Biological Membranes. T. H. Ji, and A. A. Benson, *Fed. Proc.*, 27, 594 (1968).
146. Phorbic Acid Biosynthesis in the Latex Vessel System of *Euphorbia*. Arnold Nordal and A. A. Benson, *Plant Physiology*, 44, 78-84 (1969).
147. Enzymatic hydrolysis of glycerophosphoryl esters. II. Cleavage of D-glycerol -1-phosphoryl-L-glycerol. R. Prasad and A. A. Benson. *Biochim. Biophys. Acta*, 187, 269-271 (1969).
148. Wax Ester Structure and Metabolism in Marine Copepods. Richard F. Lee, Judd C. Nevenzel, and A. A. Benson, *Fed. Proc.*, 29, 899 (1970).
149. A Unique Hexaene Hydrocarbon from a Diatom (*Skeletonema costatum*). Richard F. Lee, Judd C. Nevenzel, G. -A. Paffenhöfer, A. A. Benson, Stuart Patton, and Terrence B. Kavanagh. *Biochim. Biophys. Acta*, 202, 386-388 (1970).
150. Serum Lipids and the Death of Spawning Pacific Salmon (*Oncorhynchus gorbuscha*). Stuart Patton, G. F. Crozier, and A. A. Benson, *Nature*, 225, 754-755 (1970).
151. Lipid-Protein Interactions in Chloroplast Lamellar Membrane as Bases for Reconstitution and Biosynthesis. A. A. Benson, R. W. Gee, T. H. Ji, and G. W. Bowes. In: *Proceedings of the International Symposium on Autonomy and Biogenesis of Mitochondria and Chloroplasts*. CSIRO, Canberra, 1969. N. K. Boardman, A. W. Linnane and R. M. Smillie, eds. pp. 18-26. North-Holland Publishing Company, Amsterdam (1970).
152. Lipid-Protein Interactions and Chloroplast Membrane Function. A. A. Benson, R. W. Gee, and G. W. Bowes, *Biophysical Society Abstracts*, 10, 193a (1970).
153. The Metabolism of Wax Esters and other Lipids by the Marine Copepod, *Calanus helgolandicus*. Richard F. Lee, Judd C. Nevenzel, G. -A. Paffenhöfer and A. A. Benson. *J. Lipid Research*, 11, 237-240 (1970).
154. Lipids of the Chloroplast. A. A. Benson. In: "Structure and Function of Chloroplasts". M. Gibbs and K. Mühlenthaler, eds. pp. 129-148. Springer-Verlag, Heidelberg, 1971.
155. Cholesterol and Hyperbaric Oxygen in Swimbladders of Deep Sea Fishes. C. F. Phleger and A. A. Benson. *Nature*, 230, 122 (1971).
156. The Sulfocarbohydrate Metabolic Pathway in Plants. A. A. Benson and Richard F. Lee. *Plant Physiology* 47, Abstracts suppl. pp. 20 (1971).
157. Wax Esters: Reserve Lipids in Marine Copepods. Richard F. Lee, Judd C. Nevenzel, Jed Hirota, and A. A. Benson, *Fed. Proc.* 30 (3) 1276 Abs. (1971).

Bibliography

Andrew A. Benson

158. Intermediates in Sulfocarbohydrate Metabolism by Plants and Algae. Richard F. Lee, and A. A. Benson. Abstracts, 161st National Meeting American Chemical Society. pp. CARB 25, March 28-April 2, 1971, Los Angeles.
159. Molecular Organization of Productive Chloroplast Lipoprotein Structures. A. A. Benson, T. H. Ji, and R. Gee. In: Proceedings of the International Symposium, "Productivity of Photosynthetic Systems II. Theoretical Foundations of the Photosynthetic Productivity." A. A. Nichiporovich, ed., pp. 13-23, Acad. Sci. USSR, Publishing House, Moscow, 1972.
160. Buta Inlet Wax-- Strange Phenomenon in British Columbia. Judd C. Nevenzel, Richard F. Lee, and A. A. Benson, Abstracts, p. 34, 161st National Meeting American Chemical Society, Los Angeles, California, March 28-April 2, 1971.
161. Wax Esters: Major Marine Metabolic Energy Sources. A. A. Benson and Richard F. Lee. Biochem. J. 128, 10P (1972).
162. The Sulphoglycolytic Pathway in Plants. A. A. Benson and Richard F. Lee. Biochem. J. (Proc.) 30, 29P-30P (1972).
163. The Metabolism of ^{35}S -Glyceryl Sulfoquinovoside by the Coral Tree, Erythrina crista-galli and alfalfa, Medicago sativa. Richard F. Lee and A. A. Benson. Biochim. Biophys. Acta, 261, 35-37 (1972).
164. Petroleum Hydrocarbons: Uptake and Discharge by the Marine Mussel Mytilus edulis. Richard F. Lee, Richard Sauerheber, and A. A. Benson. Science, 177, 344-346 (1972).
165. Wax Esters: Major Marine Metabolic Energy Sources. A. A. Benson, R. F. Lee and J. C. Nevenzel. In: Current Trends in the Biochemistry of Lipids, J. Ganguly and R. M. S. Smellie, eds., pp. 175-187. Academic Press Inc. (London) Ltd., 1972.
166. Lipids in the Marine Environment. Richard F. Lee, Jed Hirota, Judd C. Nevenzel, Richard Sauerheber, Allan Lewis, and A. A. Benson, CALCOFI (California Cooperative Fisheries Institute) Reports, 16, 95-102, 1972.
167. The Presence of Unusually High Levels of Lysophosphatidyl ethanolamine in a Wax Ester Synthesizing Copepod (Calanus plumchrus). R. F. Lee, A. A. Benson, and Stuart Patton. Biochim. Biophys. Acta, 270, 479-488, 1972.
168. Studies on the Structure of an Ornithine-Containing Lipid from Rhodospirillum rubrum. James L. Brooks and Andrew A. Benson, Archives of Biochemistry and Biophysics, 152, 347-355 (1972).
169. Lipids and Membrane Structure. Andrew A. Benson. In: Abstracts, Annual meeting of the Society for Developmental Biology; Symposium on Macromolecules Regulating Growth and Development, Seattle, Washington, 1972.

Bibliography

Andrew A. Benson

170. Pressure Effect in Squalene-2, 3-oxide Cyclization in Fish. C. F. Phlegex, A. A. Benson, and A. A. Yayanos. *Comp. Biochem. Physiol.*, 45B, 241-247, 1973.
171. Chloroplast Outer Membrane. Roland Douce and A. A. Benson. *Proc. Australian Biochem. Soc.*, 6, 45, 1973.
172. Components of the Chloroplast Envelope. Roland Douce and A. A. Benson. *Abstracts, 9th Int. Cong. Biochem.*, pp. 286. Stockholm, 1973.
173. Wax Ester Biosynthesis by Isolated Membrane Fractions from Calanoid Copepods. R. B. Holtz, E. D. Marquez, and A. A. Benson. *Comp. Biochem. Physiol.* 45B, 585-591, 1973.
174. Wax in Coral Mucus Feeds Tropical Reef Fishes. Andrew A. Benson and L. Muscatine. *Proc. Nat. Acad. Sci. Abstracts*, pp. ii, 1973.
175. The acyl lipids of highly purified plant mitochondria. Richard E. McCarty, Roland Douce and Andrew A. Benson. *Biochim. Biophys. Acta*, 316, 266-270, 1973.
176. Isolation and Properties of the Envelope of Spinach Chloroplasts. Roland Douce, R. Barry Holtz, and Andrew A. Benson. *J. Biol. Chem.*, 248, 7215-7222 (1973).
177. Sulfonic Acid Metabolism in the Diatom *Navicula pelliculosa*. William F. Busby and Andrew A. Benson. *Plant and Cell Physiology*, 14, 1123-1132 (1973).
178. Lipids and Membrane Structure. Andrew A. Benson. In: *Macromolecules Regulating Growth and Development*. 30th Symposium of the Society for Developmental Biology, Elizabeth D. Hay, Thomas J. King, and John Papaconstantinou, eds., pp. 153-162. Academic Press, New York, 1974.
179. Carotenoid Transformations in the Chloroplast Envelope. S. W. Jeffrey, Roland Douce, and A. A. Benson. *Proc. Nat. Acad. Sci.*, 71, 807-810 (1974).
180. Isolation, Purification and Properties of the Envelope of Spinach Chloroplasts. Roland Douce and Andrew A. Benson. *Portugaliae Acta Biologica, Serie A*, Vol. XIV, 45-64 (1974).
181. Wax in Coral Mucus: Energy Transfer from Corals to Reef Fishes. A. A. Benson and L. Muscatine. *Limnol. & Oceanogr.* 19, 810-814 (1974).
182. Metric System. A. A. Benson. *Chem. & Eng. News* 52(26) 3 (1974).
183. Wax Digestion in a Crown-of-Thorns Starfish. A. A. Benson, J. S. Patton, and C. E. Field. *Comp. Biochem. Physiol.* 52B, 339-340 (1975).
184. The Role of Wax in Oceanic Food Chains. Andrew A. Benson and Richard F. Lee. *Scientific American*, 232(3), 76-86 (1975).
185. A Comparative Study of Wax Ester Digestion in Fish. John S. Patton and A. A. Benson. *Comp. Biochem. Physiol.*, 52B, 111-116 (1975).
186. Effect of Ammonia on Photosynthetic Rate and Photosynthate Release by *Amphidinium carterae* (Dinophyceae). R. U. Byerrum and A. A. Benson. *J. Phycol.* 11, 449-452 (1975).

Bibliography

Andrew A. Benson

- 187.^a Specificity of Digestive Lipases in Hydrolysis of Wax Esters and Triglycerides Studied in Anchovy and Other Selected Fish. J. S. Patton, J. C. Nevenzel, and A. A. Benson. *Lipids*, 10, 575-583 (1975).
188. Lipids in Plants (Book Review, Recent Advances in the Chemistry and Biochemistry of Plant Lipids. By T. Galliard and E. I. Mercer, Eds. Academic Press) A. A. Benson. *Science* 192, 47 (1976).
189. Energy Exchange in Coral Reef Ecosystems. A. A. Benson, John S. Patton, and S. Abraham. *Atoll Research Bulletin* 220, 33-53 (1978)
190. Cell Membranes. A. A. Benson and Alicc Tang Jokela. In "Plant Biochemistry", Third Edition, J. Bonner and Joseph E. Varner, eds. pp. 65-89. Academic Press, Inc., New York, 1976.
191. Translation: The Role of Wax in Oceanic Food Chains. A. Benson and Richard F. Lee. *Scientific American*, 232 (3), 76-86 (1975). In: *Nihon Keizai Shinbun (Japan Economic News)* 5 (5) 98-107 (1975). Translated by Professor Mitsu Kayama.
192. Chemistry and Biochemistry of Natural Waxes, P. E. Kolattukudy, ed. Book Review by A. A. Benson, *J. Investigative Dermatology*,
193. Philosophy of the Tracer Method. A. A. Benson. *Radioisotopes*, 26, 348-356 (1977).
194. Calcitonin: Its hormonal action on the gill. Gérard Milhaud, John Clifford Rankin, L. Bolis, and A. A. Benson. *Proc. Natl. Acad. Sci. USA*, 74, 4693-4696 (1977).
195. Lipogenesis in the Intact Coral *Pocillopora capitata* and Its Isolated Zooxanthellae: Evidence for a Light-Driven Carbon Cycle between Symbiont and Host. J. S. Patton, S. Abraham, and A. A. Benson. *Marine Biology*, 44, 235-247 (1977).
196. Hydrocarbons in Sand Crabs (*Emerita analoga*) from Southern California (U.S.A.). Steven S. Rossi, George W. Rommel, and Andrew A. Benson. *Chemosphere*, 2, 131-141 (1978).
197. Nature's Starvation Insurance. Andrew A. Benson. *Calypso Log*, 5(1), 4 (1978).
198. An improved method for the preparation of unsaturated phosphatidylcholines: acylation of sn-glycero-3-phosphorylcholine in the presence of sodium methylsulfonylmethide. Thomas G. Warner and A. A. Benson. *J. Lipid Research*, 18, 548-552 (1977).
199. Partial Characterization of the Bile Salt-dependent Triacylglycerol Lipase from the Leopard Shark Pancreas. John S. Patton, Thomas G. Warner and A. A. Benson. *Biochim. et Biophys. Acta*, 486, 322-330 (1977).
200. Arsoniumphospholipid in Algae. Robert V. Cooney, R. O. Mumma, and A. A. Benson. *Proc. Nat. Acad. Sci.*, 75, 4262-4264 (1978).
201. Hydrocarbons of *Macrocystis pyrifera* Blades. Steven S. Rossi, George W. Rommel, and Andrew A. Benson. *Phytochemistry*, 17, 1431-1432 (1978).
202. The Pressure-Volume-Temperature (PVT) Properties of a Lipid Mixture from a Marine Copepod, *Calanus plumchrus*: Implications for Buoyancy and Sound Scattering. A. A. Yayanos, A. A. Benson and J. C. Nevenzel. *Deep Sea Res.*, 25, 257-268 (1978).

Bibliography

Andrew A. Benson

203. 'This Week's Citation Classic' The Path of Carbon in Photosynthesis. V. Paper Chromatography and Radioautography of the Products. Andrew A. Benson. *Current Contents*, 10(31), 16 (1979).
204. The Ocean has its Bezoar, Too. A. A. Benson (Paraphrased by Rosa Besser, TCS Editor, as 'Emperors, Goats & Algae'. *Calypso Log*, 6(2), 5, 21 (1979).
205. Aspirations for International Exchange in Science. (In Japanese) Bunji Maruo, A. A. Benson, Isao Shibuya, and Takashi Akazawa. *Chemistry and Biology (KASEAA)*, 17 (10) 642-659 (1979).
206. Acetate Incorporation into the Lipids of the Anemone *Anthopleura elegantissima* and Its Associated Zooxanthellae. R. S. Blanquet, J. C. Nevenzel, and A. A. Benson. *Marine Biology*, 54, 185-194 (1979).
207. Arsenic Metabolism in *Homarus americanus*. R. V. Cooney and A. A. Benson. *Chemosphere*, 9, 335-341 (1980).
208. Arsenic Metabolism—A Way of Life in the Sea. A. A. Benson, R. V. Cooney, and R. E. Summons. In: *Proc. III Trace Element Symposium on Arsenic and Nickel*. Jena, GDR, M. Anke, H.-J. Schneider, and Chr. Bruckner, eds. Pp. 135-145. *Abt. Wiss. Publ. der Friedrich-Schiller-Universitat Jena*. 1980.
209. Arsenic Accumulation in Great Barrier Reef Invertebrates. A. A. Benson and R. E. Summons. *Science* 211, 482-483 (1981).
210. Calcitonin, a major gill hormone. G. Milhaud, L. Bolis, and A. A. Benson. *Proc. Nat. Acad. Sci.*, 77, 6935-6936 (1980).
211. Arsenic Metabolism in Algae and Higher Plants. A. A. Benson, R. V. Cooney, and J. M. Herrera-Lasso. *J. Plant Nutrition*, 3, 285-292 (1981).
212. Characterization of specific receptors for calcitonin in porcine lung. M. Fouchereau-Peron, M. S. Moukhtar, A. A. Benson, and G. Milhaud. *Proc. Nat. Acad. Sci.*, 78, 3973-3975 (1981).
213. Molecular Exploration in Unknown Metabolic Worlds. A. A. Benson. In: *Science and Scientists*, M. Kageyama, K. Nakamura, T. Oshima, and T. Uchida, eds. Pp. 207-212. *Japan Scientific Societies Press, Tokyo*, 1981.
214. Arsenic Metabolism and Photosynthetic Productivity. A. A. Benson and F. C. Knowles. In: *Photosynthesis VI. Photosynthesis and Productivity, Photosynthesis and Environment*. G. Akoyunoglou, ed. pp 33-37. *Balaban International Science Services, Philadelphia*, 1981.
215. Arsenic Detoxication in *Macrocystis pyrifera*. J. M. Herrera-Lasso and A. A. Benson. In: *Biosaline Research: A Look to the Future*. A. San Pietro, ed., pp. 501-505. *Plenum Publishing Corporation*, 1982.
216. Arsenic Metabolism in Freshwater and Terrestrial Plants. Per Nissen and A. A. Benson. *Physiologia Plantarum* 54, 446-450 (1982).
217. Arsenate Detoxication by *Dunaliella tertiolecta*. R. V. Cooney, J. M. Herrera-Lasso, and A. A. Benson. In: *Biosaline Research: A Look to the Future*, A. San Pietro, ed. Pp. 451-454. *Plenum Publishing Corporation, New York*, 1982.
218. Tracers in Biology. A. A. Benson. In: *From Cyclotrons to Cytochromes, Essays in Molecular Biology and Chemistry*, N. O. Kaplan and A. Robinson, eds., pp. 59-65. *Academic Press, New York*, 1982.

Bibliography

Andrew A. Benson

219. The Ocean Has Its Bezoar, Too. A. A. Benson. In: *Aquaculture: Public Health, Regulatory and Management Aspects. Proceedings of the 6th U. S. Food and Drug Administration Science Symposium on Aquaculture, Feb. 12-14, 1980, New Orleans*, pp. 63-70. Marine Information Service, Sea Grant College Program, Texas A&M University, College Station, Texas, 1982.
220. Mode of Action of a Herbicide. Johnsongrass and Methanearsonic Acid. Francis C. Knowles and Andrew A. Benson. *Plant Physiology*, 71, 235-240 (1983).
221. Degenerative Processes in Spawning Pacific Salmon (in Russian). A. A. Benson, G. Milhaud, and E. G. Trams. In: *Physiology and biochemistry of adaptations in marine animals*, p. 181-189, A. V. Zhirmunsky, Ed. Academy of Sciences, USSR. Vladivostok, 1981.
222. Mucus Production and Utilization in Marine Animals. A. A. Benson and J. A. Christiansen. In: *Physiology and biochemistry of adaptations in marine animals*, p. 190-195. A. V. Zhirmunsky, Ed. Academy of Sciences, USSR. Vladivostok, 1981.
223. The Arsenolipids of Aquatic Plants. A. A. Benson and Per Nissen. *Developments in Plant Biology*, 8, 121-124 (1982).
224. The biochemistry of arsenic. Francis C. Knowles and Andrew A. Benson. *Trends in Biochemical Sciences*, 8, 178-180 (1983).
225. The Role of Wax in Oceanic Food Chains. Andrew A. Benson and Richard F. Lee. In: *Life in the Sea, Readings from Scientific American*, p. 76-84. W. H. Freeman and Co., San Francisco, 1982.
226. The Enzyme Inhibiting Form of Inorganic Arsenic. Francis C. Knowles and Andrew A. Benson. In: *Proceedings 4. Spürelementsymposium der Karl-Marx-Universität Leipzig und der Friedrich-Schiller-Universität Jena, (DDR) 1983*, pp. 111-114, M. Anke, W. Baumann, and H. Braünlich, eds. Friedrich-Schiller-Universität, Jena, 1983.
227. The Mode of Action of Arsenical Herbicides and Drugs. Francis C. Knowles and Andrew A. Benson. In: *Proceedings 4. Spürelementsymposium der Karl-Marx-Universität Leipzig und der Friedrich-Schiller-Universität Jena (DDR) 1983*, pp. 115-118, M. Anke, W. Baumann, and H. Braünlich, eds. Friedrich-Schiller-Universität Jena, 1983.
228. Phytoplankton Solved the Arsenate-Phosphate Problem. A. A. Benson. In: *Lecture Notes on Coastal and Estuarine Studies. 8. Marine Phytoplankton and Productivity*, pp. 55-59, O. Holm-Hansen, L. Bolis, and R. Gilles, eds. Springer Verlag, Heidelberg, 1984.
229. Arsenic and New Lace. Andrew A. Benson. In: *Current Topics in Plant Physiology*, Vol. 3, pp. 149-153, D.D.Randall, D.G.Blevins, R.L.Larson, and B.J.Rapp, eds. University of Missouri, Columbia, Missouri, 1984.
230. The mode of action of arsenical herbicides and drugs. F. C. Knowles and A. A. Benson. *Zeitschrift für die gesamte Hygiene*, 30(7), 407-408 (1984).
231. Symbiosis: Success Secret of the Reef. A. A. Benson. In: *Reader's Digest Book of the Great Barrier Reef*, pp. 148-151, Frank Talbot, scientific consultant, Mead & Beckett Publishing, eds. Reader's Digest, Sydney, 1984.
232. The enzyme inhibiting form of inorganic arsenic. Francis C. Knowles and Andrew A. Benson. *Zeitschr. für die Gesamte Hygiene*, 30(7) 409-410 (1984).
233. Arsenolipids in Algae and Aquatic Plants. A. A. Benson. In: *Fats for the Future, Proceedings of the International Conference on Oils, Fats, and Waxes, Auckland, 1983*. Pp. 110. Duromark Publishing, Auckland, New Zealand, 1984.

Bibliography

Andrew A. Benson

234. Calcium-regulating hormones modulate carbonic anhydrase II in the human erythrocyte. Y. Arlot-Bonnemains, M. Fouchereau-Peron, M. S. Moukhtar, A. A. Benson, and G. Milhaud. *Proc. Natl. Acad. Sci. USA* 82, 8832-8834 (1985).
235. Plasmalogens in the Gill Lipids of Aquatic Animals. J. C. Nevenzel, A. Gibbs, and A. A. Benson. *Comp. Biochem. Physiol.* 82B, 293-297 (1985).
236. Studies on the Plasmalogens of Crustacean Gills. S. Chapelle and A. A. Benson. *Comp. Biochem. Physiol.* 85B, 507-510 (1986).
237. Arsenic Uptake and Transfers in Aquatic Environments. A. A. Benson and M. Katayama. In: *Proceedings 5 Spurenelement-Symposium der Karl-Marx-Universität Leipzig und der Friedrich-Schiller-Universität Jena, (DDR) 1986*, pp. 852-855, M. Anke, W. Baumann, H. Bräunlich, C. Brückner, and B. Groppe, eds. Friedrich-Schiller-Universität, Jena, 1986.
238. Arsenic Toxicity on Sea or Land. A. A. Benson. In: *Comparative Physiology: Life in Water and on Land*. P. Dejours, L. Bolis, C. R. Taylor, and E. R. Weibel, eds. pp. 251-258. Fidia Research Series, Liviana Press, Padova, 1987.
239. No Effect of Environmental Acidity on the Ether Glycerophospholipids of Crayfish Gills. S. Chapelle, J. C. Nevenzel, and A. A. Benson. *Comp. Biochem. Physiol.* 89C, 311-314 (1988).
240. Ether Glycerophospholipids of Gills of Two Pacific Crabs, *Cancer antennarius* and *Portunus xantusi*. S. Chapelle, J. L. Hakanson, J. C. Nevenzel, and A. A. Benson. *Lipids* 22, 76-79 (1987).
241. Environmental Perturbations of Gill Molecular Structure. Andrew A. Benson, Serge Chapelle, Judd C. Nevenzel, John L. Hakanson, Liana Bolis, and Allan G. Gibbs. In: *Physiological Responses of Marine Organisms to Environmental Stresses*, J. V. Dorigan and F. L. Harrison, eds. Chapter 4, pp. 29-33. U. S. Department of Energy, Office of Energy Research, Office of Health and Environmental Research, Ecological Research Division(DOE/ER-0317), 1987.
242. Little Known Facts of Plant Lipid Metabolism. A. A. Benson. In: *Biochemistry of Plant Lipids: Structures and Function*. P. K. Stumpf and J. B. Mudd, eds. pp. 599-601. Plenum Publishing Corp., New York, 1987.
243. Arsenate and Phosphate. A. A. Benson. In: *New Aspects of Plant Cell Biology and Molecular Biology*. T. Akazawa, M. Sugiura, T. Sugiyama, A. Watanabe and T. Takabe, eds. Oji International Seminar, Kashiko-Jima, Mie.
244. Carboxylation from Ruben to Rubisco. A. A. Benson. In: *New Aspects of Plant and Molecular Biology*. T. Akazawa, M. Sugiura, T. Sugiyama, A. Watanabe and T. Takabe, eds. Oji International Seminar, Kashiko-Jima, Mie. 1987
245. Antimony Metabolites in Marine Algae. A. A. Benson and R. V. Cooney. In: *The Biological Alkylation of Heavy Elements*. P. J. Craig, F. Glockling, eds. Royal Society of Chemistry, London, pp. 135-137, 1988.

Bibliography

Andrew A. Benson

246. Biological Methylation of the Algal Trialkylarsineoxide. A. A. Benson. In: The Biological Alkylation of Heavy Elements. P. J. Craig, F. Glockling, eds. Royal Society of Chemistry, pp. 127-131. London, 1988.
247. Algal Excretion of the Arsenoribosylglycerol Sulphate Ester. A. A. Benson. In: The Biological Alkylation of Heavy Elements. P. J. Craig, F. Glockling, eds. Royal Society of Chemistry, pp. 132-134. London, 1988.
248. Radiochromatographic Exploration. A. A. Benson. J. Am. Oil Chemists' Soc., 64, 1309-1314 (1987).
249. Membrane Lipid Depuration of Arsenic and Antimony. A. A. Benson. In: Aberration in Membrane Structure and Function, Proc. 12th International Conference on Biological Membranes, M. Karnovsky, A. Leaf, and L. Bolis, eds., pp. 385-391. Alan R. Liss, Inc., New York, 1988. ProgClinBiolResVol282.
250. Arsenate Metabolism in Aquatic Plants. A. A. Benson, M. Katayama, and F. C. Knowles. In: Proc. Third International Symposium on Natural and Industrial Arsenic, K. J. Irgolic, T. Kikuchi, S. Maeda and P. J. Craig, eds. Applied Organometallic Chem., 2, 349-352 (1988).
251. Skeletal Lipid Depletion in Spawning Salmon. C. F. Phleger, R. J. Laub and A. A. Benson. Lipids 24, 286-289 (1989).
252. Arsenolipids. A. A. Benson. In: Marine Biogenic Lipids, Fats, and Oils, R. G. Ackman, ed., pp. 243-250. CRC Press, Inc., Boca Raton, Florida, 1989.
253. Nordal and the Path of Carbon in Photosynthesis. A. A. Benson. Norges Apotekerforenings Tidsskrift, 97(8), 189-190 (1989).
254. Arsonium compounds in algae. A. A. Benson. Proc.Nat.Acad.Sci.(US.), 86, 6131-6132 (1989).
255. A 'Nova' in phosphate metabolism, GPG, and discovery of phosphatidyl-glycerol: commentary by Andrew A. Benson and Bunji Maruo. Biochim. et Biophys. Acta, 1000, 447-458 (1989).
256. Effect of selenium on arsenic metabolism in *Cylindrotheca fusiformis*. Masayuki Katayama, Yoshiko Sugawa Katayama and Andrew A. Benson. Applied Organometallic Chem., 4, 213-221 (1990).
257. Molecular Exploration for the Future of Marine Biotechnology. A. A. Benson. In: Current Topics in Marine Biotechnology, S. Miyachi, I. Karube & Y. Ishida, eds., pp.3-10. The Japanese Society for Marine Biotechnology, Tokyo, 1989.
258. Arsenic Depuration via the *Tridacna* Gill Membrane. Andrew A. Benson. Zeitschrift für Naturforschung C, 45, 793-796 (1990).
259. Effect of calcium challenge on secretion of stanniocalcin/teleocalcin/hypocalcin(in adult seawater coho salmon: A preliminary study. Julie Glowacki, Gerard Milhaud, Andrew Benson, Graham Wagner, Karen Cox, Robert Fargher and Harold Copp. In: Calcium regulation and bone metabolism, D. V. Cohn, F. H. Glorieux and T. J. Martin, eds. pp. 74-79. Elsevier Science Publishers, 1990.

Bibliography

Andrew A. Benson

260. Photosynthesis in the Dark Ages before Regulation. A. A. Benson. In: Regulation of Photosynthetic Processes, R. Kanai, S. Karoh and S. Miyachi, eds. Bot. Mag. Tokyo Special Issue, 2, 3-10 (1990).
261. Identification of Diacylglycerol-4'-O-(N,N,N-trimethyl)homoserine in Mushrooms Victor E. Vaskovsky, Svetlana V. Khotimchenko and Andrew A. Benson. Lipids, 26, 254-256 (1991). Abstract: INFORM, 2, 429 (1991).
262. The Gill Lipids of Spawning Pacific Salmon. C. L. Bolis, P. Canciglia, A. Cambria, G. Milhaud, A. A. Benson and J. C. Nevenzal. Biomedicine and Pharmacotherapy 44, 131-134 (1990).
263. Interview: Andrew A. Benson; interviewed by Shigetoh Miyachi. Cell Science, 8, 54-69, (1992).
264. The Ocean: Information Source for Survival. A. A. Benson. Ch. 2 in: Marine Biotechnology. 'Catch up with Science and Technology' Series. NTT Science Forum, pp.41-76. NTT Publications, Tokyo, 1992.
265. The Path of Carbon in Photosynthesis: Improved Crop Yields with Methanol. A. M. Nonomura and A. A. Benson. Proc. Nat. Acad. Sci. U.S. 89, 9794-9798 (1992).
266. The Path of Carbon in Photosynthesis: Methanol and Light. A.M.Nonomura and A. A. Benson. Photosynthesis Research
267. Methanol Inhibits Germination. A. M. Nonomura and A. A. Benson. Proc. 5th Annual Conference Western Plant Growth Regulator Society, Red Lion Hotel, Costa Mesa, CA 20-21 January, 1993, pp 188-137.
268. The calcitonin gene is expressed in salmon gills. Kelly Martial, Laurence Maubras, Jacqueline Taboulet, Annick Jullienne, Michael Berry, Gerard Milhaud, A. A. Benson, M. S. Moukhtar, and Michele Cressent. Proc. Nat. Acad. Sci. U.S. 91, 4912-4914 (1994).
269. Agriculture and Methanol. Arthur M. Nonomura, Andrew A. Benson and Deepak Nair. In: Methanol Production and Use, Wu-Hsun Cheng and Harold H. Kung, eds. p.253-260. Marcel Dekker, Inc., 1994.
270. Expression of CGRP mRNAs in the Pink Salmon, *Oncorhynchus gorbuscha*. L. Maubras, J. Taboulet, E. Pidoux, F. Lasmoles, A. Jullienne, G. Milhaud, A. A. Benson, M. S. Moukhtar and M. Cressent. Peptides 14, 977-981 (1993).
271. Stimulated growth and correction of Fe-deficiency with trunk- and foliar-applied methanol-soluble nutrient amendments. Arthur M. Nonomura, John N. Nishio and Andrew A. Benson. Plant and Soil
272. Leaf methanol - the simplest natural product from plants. Ray Fall and Andrew A. Benson. Trends in Plant Science 1, 296-301 (1996).
273. Saga of a Great Theory of Photosynthesis. A. A. Benson. ASPP Newsletter 22 (6) 5,6,(1995).
274. Warren Lee Butler 1925-1984. Andrew A. Benson. In: Biographical Memoirs 74 2-18, The National Academy Press, Washington, D.C. 1998.

Bibliography

Andrew A. Benson

275. Melvin Calvin 1911-1997. Glenn T. Seaborg and Andrew A. Benson. In: *Biographical Memoirs*, 75 National Academy Press, Washington, D.C. 1998.
276. The Physiological Action of Phosgene. Sam Ruben and A. A. Benson. Report prepared by Dr. T. H. Norris with Charles N. Rice, October 22, 1943. On file: Committee of gas casualties. From: "Fasciculus on Chemical Warfare Medicine", National Research Council. Committee on Treatment of Gas Casualties. Washington, 1945. Volume 2: Respiratory Tract. Page 327 and 641.
277. Metabolism of Methanol in Plant Cells. Carbon-13 Nuclear Magnetic Resonance Studies. Elizabeth Gout, Serge Aubert, Richard Bligny, Fabrice Rebeille, Arthur K. Nonomura, Andrew A. Benson, and Roland Douce. *Plant Physiology* 123, 287-296 (2000).
278. Naive steps along the path. Andrew A. Benson. *Comptes Rendu Acad. Sci. Paris, Life sciences*, 319: 843-847. (1996).
279. Paving the path. Andrew A. Benson. *Ann. Rev. Plant Biochem. and Plant Molec. Biol.* 2002. 52: 1-25.
280. The Dark Reactions of Photosynthesis. Andrew A. Benson. *Photosynthesis Research*. 2002
Following the path of carbon in photosynthesis: a personal story.
Andrew A. Benson. *Photosynthesis Research* 73: 29-49, 2002
281. Melvin Calvin (Obituary). *ASPP Newsletter* Vol. 24, No. 2, 1997, page 6,
282. Following the path of carbon in photosynthesis: a personal story.
Andrew A. Benson, *Photosynthesis Research* 73: 29-49 (2002).
283. The Path of Carbon in Photosynthesis: 1942-1955. Andrew A. Benson.
In: *Discoveries in Plant Biology*, Volume I, Shain-Dow Kung and Shang-Fa Yang, eds. Chapter 14, 197-213 (1998). World Scientific Press, Singapore.
284. Hiroshi Tamiya 1903-1984. Andrew A. Benson. In: *Biographical Memoirs Series*, 86 National Academy Press, Washington, D.C. 2005.