

A List of Publications Resulting in Whole or in
Part from Work at the Mt. Desert Island Biological

Laboratory for the Period 1929-1949

*The Laboratory would appreciate the submission
of titles missed in this list for publication as an
addendum.*

- Adelmann, H. B., and E. O. Butcher 1937. Experiments on the nervous control of the melanophores in *Fundulus heteroclitus*. Bull. Mt. Desert Isl. Biol. Lab. 1937: 15-16.
- Albrecht, Carolyn, and M. A. Baratz 1949. Water and salt metabolism in seals. (in press).
- Allison, J. B., and William H. Cole 1933-34. Stimulation of *Fundulus* by hydrochloric and fatty acids in fresh water, and by fatty acids, mineral acids, and the sodium salts of mineral acids in sea water. *J. Gen. Physiol.*, 17: 803-16.
- Allison, J. B., and William H. Cole 1934. Correlation between dinoflagellate population of sea water and behavior of the barnacle, *Balanus balanoides* Anat. Rec. 60: 38.
- Allison, J. B., and William H. Cole 1940. The nitrogen, copper and hemocyanin content of the sera of several arthropods. *J. Biol. Chem.*, 135: 259-65.
- Anslow, W. P., Jr., D. A. Karnofsky, B. V. Jager, and H. W. Smith 1947. The toxicity and pharmacologic action of the nitrogen mustards and certain related compounds. *J. Pharmacol. Exp. Ther.* 91: 224.
- Anslow, W. P., Jr., D. A. Karnofsky, B. V. Jager, and H. W. Smith 1948. The intravenous, subcutaneous and cutaneous toxicity of bis (-chloroethyl) sulfide (mustard gas) and of various derivatives. *J. Pharmacol. Exp. Ther.*, 93: 1.
- Arnold, Norman K. 1941. Effect of Head Ectoderm on Development of Limb Mesoderm in *Amblystoma punctatum*. Bull. Mt. Desert Isl. Biol. Lab. 1941: 31-32.
- Beers, C. Dale 1948. Excystment in the ciliate *Bursaria truncatella*. Biol. Bull., 94: 86-98.
- 1948: The ciliates of *Strongylocentrotus drobachiensis*: Incidence, distribution in the host, and division. Biol. Bull., 94: 99-112.
- Bevelander, Gerrit 1933. Response to light in the cercariae of *Bucephalus elegans*. *Physiol. Zool.*, VI: 289-305.
1933. The relation between temperature and

- epithelium in the teleost fishes. Bull. Mt. Desert Is. Biol. Lab; 1934: 38-40.
1935. A comparative study of the branchial epithelium in the teleost fishes. Bull. Mt. Desert Isl. Biol. Lab; J. Morph., 57: 335-351.
- Blake, Wm. T. 1940. Chloride reabsorption of the frog renal tubule. Bull. Mt. Desert Isl. Biol. Lab. 1940 :38.
- Boyden, Alan 1939. Serological study of the relationships of some common Invertebrates. Yearbook No. 38, Carnegie Institution of Washington: 220.
1942. Systematic Serology: A critical appreciation. Physiological Zoology, 15: 109-145.
1943. Serology and animal systematics. American Naturalist, 77: 234-255.
1949. Standard operating procedure in the Serological Museum. Bulletin of the Serological Museum, Bulletin No. 2: 1-22.
- Bradley, S. E., and R. J. Bing 1942. Renal function in the harbor seal (*Phoca vitulina* L.) during asphyxial ischemia and pyrogenic hyperemia. J. Cell. Comp. Physiol, 19: 229.
- Brown, Frank A., Jr., and V. J. Wulff 1940. Chromatophore types in Crago and their endocrine control. Anat. Rec., 78: 139.
1941. Different pigmentary types in Crago and their humoral control. Bull. Mt. Desert Island Biol. Lab., 1941: 27-29.
1941. Upon the presence of more than one chromatophoretropic substance in both sinus glands and commissural ganglia. Bull. Mt. Desert Island Biol. Lab., 1941: 29.
1941. Chromatophore types in Crago and their endocrine control. Jour. Cell. and Comp. Physiol., 18: 339-353.
- Buchsbaum, R. 1948. Animals without backbones, revised ed. Univ. Chicago Press.
- Burger, J. Wendell, 1939. Some experiments on the relation of the external environment to the spermatogenetic cycle of *Fundulus heteroclitus* (L). Biol. Bull., 77: 96-103.
1941. Some experiments on the effects of hypophysectomy and pituitary implantations on the male *Fundulus heteroclitus*. Biol. Bull., 80: 31-36.
1941. Experimental modification of the plumage cycle of the male European starling (*Sturnus vulgaris*). Bird-Banding, 12: 27-29.

1942. Some effects of androgens on the adult male *Fundulus*. Biol. Bull., 82: 233-242.
1947. On the relation of day-length to the phases of testicular involution and inactivity of the spermatogenic cycle of the starling, J. Exp. Zool., 105: 259-268.
- Burger, J. Wendell, and S. E. Bradley 1947. Some data on aortic blood pressure in the dogfish, *Squalus acanthias*. Anat. Rec., 99: 144, (abstract.)
- Burkholder, P. R. 1933. Study of the phytoplankton of Frenchman's Bay and Penobscot Bay, Maine. Internat. Rev. der. ges. Hydrobiol. u. Hydrograph., 28: 262-284.
- Butcher, Earl O. 1936. Structure and growth of scales in *Fundulus heteroclitus*. Bull. Mt. Desert Isl. Biol. Lab., 1936:14.
1936. Histology of the pituitaries of several fish. Bull. Mt. Desert Isl. Biol. Lab., 1936: 18-20.
1937. The effects of covering and rotating the eyes on the melanophore responses in *Fundulus heteroclitus*. Bull. Mt. Desert Isl. Biol. Lab., 1937: 16-18.
1937. The structure and distribution of the rods and cones in the eye of *Fundulus heteroclitus*. Bull. Mt. Desert Isl. Biol. Lab., 1937: 18-19.
1937. Rods and cones in the retina of *Fundulus heteroclitus* and the regions of the retina related to the different chromatophoric responses. Anat. Rec., 70: 56.
1938. The regions of the retina related to the different chromatophoric responses in *Fundulus heteroclitus*. Mt. Desert Isl. Biol. Lab. 1938: 18-19.
1938. The structure of the retina of *Fundulus heteroclitus* and the regions of the retina associated with the different chromatophoric responses. J. Exp. Zool., 79: 275-297.
1938. The illumination of the eye necessary for different melanophoric responses of *Fundulus heteroclitus*. Anat. Rec., 72: 80.
1939. The cause of *Fundulus heteroclitus* assuming a gray shade on a brightly lighted gray background. Mt. Desert Isl. Biol. Lab. Bull., 1939: 32-33.
1939. The conditions of illumination of the eye necessary for inducing the different melanophoric responses in *Fundulus heteroclitus*. Bull. Mt. Desert Isl. Biol. Lab., 1939: 31-32.
1939. The illumination of the eye necessary for different melanophoric responses of *Fundulus heteroclitus*. Biol. Bull., 77: 258-267.

- Butler, J. A. V. 1940. Proteolytic enzymes of the lobster. Bull. Mt. Desert Isl. Biol. Lab., 1940: 30-31.
- Chang, C. 1934. Some studies on the selachian blood in vitro. Bull. Mt. Desert Isl. Biol. Lab., 1934: 27.
- Clarke, R. W. 1934. The xylose clearance of *Myoxocephalus octodecim spinosus* under normal and diuretic conditions. J. Cell. Comp. Physiol., 5: 73.
- Clarke, R. W., and H. W. Smith 1931. Absorption and excretion of water and salts by the Elasmobranch fishes. III. The use of xylose as a measure of the glomerular filtration in *Squalus acanthias*. J. Cell. Comp. Physiol., 1: 131.
- Cole, William H. 1928-29. The relation between temperature and the pedal rhythm of *Balanus*. J. Gen. Physiol., 12: 599-603.
- 1931-32. Stimulation by the salts of the normal aliphatic acids in the rock barnacle, *Balanus balanoides*. J. Gen. Physiol., 15: 611-20.
1932. The sensitivity of the cirri and the variability of their movements in the barnacles, *Balanus tintinabulum* and *B. balanoides*. J. Exp. Zool., 63: 143-53.
1938. Chemical stimulations in animals. Sigma Xi Quart., 26: 129-35.
1939. The effect of temperature on the color change of *Fundulus* in response to black and to white backgrounds in fresh and in sea water. J. Exp. Zool., 80: 167-72.
- 1939-40. The composition of fluids and sera of some marine animals and of the sea water in which they live. J. Gen. Physiol., 23: 575-84.
- 1941-42 A perfusing solution for the lobster (*Homarus*) heart and the effects of its constituent ions on the heart. J. Gen. Physiol., 25: 1-6.
1940. The effect of dilution of sea water on the total chloride and calcium content of the blood serum of *Homarus americanus*. Anat. Rec., 78 (Suppl.): 158.
1941. The effects of daily bleeding of lobsters. Anat. Rec., 81 (Suppl.): 128.
- Cole, William H., and J. B. Allison 1932-33. Stimulation by mineral and fatty acids in the barnacle, *Balanus balanoides*. J. Gen. Physiol., 16: 895-903.
- Cole, William H., and J. B. Allison 1937. Responses of the barnacle to some strong electrolytes and to urea, glucose and glycerol. Physiol. Zool., 10: 405-11.
- Dahlgren, Ulric 1933. Argulus: a fish parasite. The Aquarium, 2: 112-115.

1934. A second method of contraction in the striated muscle of some vertebrate animals. *Science*, 79: 300-301.
1937. Methods for preparing muscle and electric organ tissues. pp. 420-236 in: *Handbook of microscopical technique ...* edited by C. E. McClung, New York, Paul Hoeber.
- Dobbin, C. N. 1940. Fresh and brackish water Ostracoda on Mt. Desert Island. *Bull. Mt. Desert Isl. Biol. Lab.*, 1940: 33.
- Fish, C. J., and M. W. Johnson 1937. The biology of the zooplankton population of the Bay of Fundy and Gulf of Maine with special reference to production and dispersal. *J. Biol. Bd. Canada*, 3(3): 189-322.
- Forster, R. P. 1938. Xylose inulin and creatinine clearance in the normal frog. *Proc. Soc. Exp. Biol. & Med.*, 38: 258.
1938. The use of inulin and creatinine as glomerular filtrate measuring substances in the frog. *J. Cell. & Comp. Physiol.*, 12: 213.
1940. The secretion of phenol red by the frog renal tubule. *Anat. Rec.*, 76: 157.
1940. The excretion of phenol red by the frog, *Rana catesbiana*. *Bull. of Mt. Desert Island Biol. Lab.* 1940: 27.
1940. A renal clearance analysis of phenol red elimination in the frog. *J. Cell. & Comp. Physiol.*, 16: 113.
1940. Evidence for intermittency of glomerular function in the normal frog kidney. *Anat. Rec.*, 78: 157.
1941. The present status of the systemic fungus disease in herring of the Gulf of Maine. *Bull. of Mt. Desert Island Biol. Lab.*, 1941: 33.
1941. The glucose reabsorptive process in the frog renal tubule. *Bull. of Mt. Desert Island Biol. Lab.* 1941: 36.
1941. A comparison of renal function in fresh water fish and amphibia with that in the marine fish. *Trans. Amer. Phil. Soc. Yearbook*. 1941: 170.
1942. The nature of the glucose reabsorptive process in the frog renal tubule. Evidence for intermittency of glomerular function in the intact animal. *J. Cell. & Comp. Physiol.*, 20: 55.
1942. The effect of exogenous adrenalin on frog renal hemodynamics. *Anat. Rec.*, 84: 10.
1943. The effect of epinephrine upon frog renal hemodynamics in the intact animal. *Amer. J. Physiol.*, 140: 221.
1947. An examination of some factors which alter glomerular activity in the rabbit kidney. *Amer. J. Physiol.*, 150: 523.
1948. The use of thin kidney slices and isolated renal tubules for direct study of cellular transport kinetics. *Science*, 108: 65.

1949. The implication of aerobic phosphorylation in a variety of biological systems. Science, (in press.).
- Forster, R. P., A. Friedlich and C. B. Holman 1940. Renal clearance studies in fresh water turtle, *Pseudemys elegans*. Bull. of Mt. Desert Island Biol. Lab. 1940: 24.
- Forster, R. P., and Pia Zia-Walrath 1941. The absence of active secretion as a factor in the elimination of inulin and other substances by the green gland of the lobster. Anat. Rec., 81: 128.
- Forster, R. P., and J. V. Taggart 1949. The use of isolated renal tubules for the examination of metabolic processes underlying active cellular transport (in press).
- Graef, I., D. A. Karnofsky, V. B. Jager, B. Kirchesky, and H. W. Smith 1948. The clinical and pathologic effects of the nitrogen and sulfur mustards in laboratory animals. Amer. J. Path., 24: 1.
- Grafflin, Allan L. 1931. Urine flow and diuresis in marine teleosts. Am. J. Physiol., 97: 602-610.
1933. Glomerular degeneration in the kidney of the daddy sculpin (*Myoxocephalus scorpius*). Anat. Rec., 57: 59-79.
1935. Chloride and total osmotic pressure in the blood of marine teleosts. Biol. Bull., 69: 245-258.
1935. Renal functions in marine teleosts. I. Urine flow and urinary chloride. Biol. Bull., 69: 391-402.
1936. Renal function in marine teleosts. III. The excretion of urea. Biol. Bull., 70: 228-235.
1936. Renal function in marine teleosts. IV. The excretion of inorganic phosphate in the sculpin. Biol. Bull., 71: 360-374.
1937. Cyst formation in the glomerular tufts of certain fish kidneys. Biol. Bull., 72: 247-257.
1937. The problem of adaptation to fresh and salt water in the teleosts, viewed from the standpoint of the structure of the renal tubules. J. Cell. & Comp. Physiol., 9: 469-476.
1937. The structure of the nephron in the sculpin, *Myoxocephalus octodecimspinosus*. Anat. Rec., 68: 145-163.
1937. Observations upon the aglomerular nature of certain teleostean kidneys. J. Morph., 61: 165-173.
1937. The structure of the nephron in fishes. Representative types of nephron encountered; the problem of homologies among the differentiated portions of the proximal convoluted segment. Anat. Rec., 68: 287-303.
- Grafflin, A. L., and D. Ennis 1934. The effect of blockage of the gastrointestinal tract upon urine formation in a marine teleost, *Myoxocephalus octodecimspinosus*. J. Cell & Comp. Physiol., 4: 283-296.

- Grafflin, A. L., and M. J. Eisenberg 1934. A microfluoroscopic study of the teleostean kidneys. *Anat. Rec.*, 59: 449-459.
- Grafflin, A. L., and R. G. Gould, Jr., 1936. Renal function in marine teleosts. II. The nitrogenous constituents of the urine of sculpin and flounder, with particular reference to trimethylamine oxide. *Biol. Bull.*, 70: 16-27.
- Grafflin, A. L., and M. J. Eisenberg 1938. Autofluorescence of teleostean kidneys. *Z f. Zellforsch. u. mikr. Anat.*, 28: 697-708.
- Greenwald, Isidor 1946. The presence of creatine in the testes of various invertebrates. The preparation of creatine phosphoric acid from fish testes. *Biol. Chem.*, 162: 239-250.
- Halsey, J. T., and E. M. Evans 1937. A study of the action of certain drugs on the circulation of the dogfish. *Bull. Mt. Desert Isl. Biol. Lab.*, 1937: 31.
- Halsey, J. T., and B. Minnich 1938. A study of the action of certain drugs on the vessels of the dogfish. *Bull. Mt. Desert Isl. Biol. Lab.*, 1938: 16-17.
- Hansen, I. B., and J. L. Grace 1947. Differentiation of chick oesophageal epithelium on the chorio-allantoic membrane. *Anat. Rec.*, 99: 96.
- Hiatt, Edwin P. 1943. The action of adrenaline, acetylcholine and potassium in relation to the innervation of the isolated auricle of the spiny dogfish (*Squalus acanthias*). *Amer. J. Physiol.*, 139: 45-48.
- Hiatt, Edwin P., and R. B. Hiatt 1942. The effect of food on the glomerular filtration rate and renal blood flow in the harbor seal *Phoca vitulina L.*. *J. Cell & Comp. Physiol.*, 19: 221-227.
- Hibbard, H. 1935. Studies in tissue culture. *Bull. Mt. Desert Isl. Biol. Lab.* 1935: 16.
- Houck, C. R., B. Crawford, J. H. Bannon, and H. W. Smith 1947. Studies on the mechanism of death in dogs after systemic intoxication by the intravenous injection of methyl *bis* (-chloroethyl) amine or *tris* (-chlormethyl) amine. *J. Pharmacol. Exp. Ther.*, 90: 277.
- Hunt, B. and M. R. Lewis 1932. The effect of radium on the malignant cells of spontaneous carcinoma of the mouse grown in tissue cultures. *Bull. Mt. Desert Isl. Biol. Lab.* 1932: 31.
- Hyman, L. H. 1938. The water content of medusae. *Science*, 87: 166-167.
1940. Revision of the work of Pearse and Walker on littoral polyclads of New England and adjacent parts of Canada. *Mt. Desert Isl. Biol. Lab.*, 1940: 14-20.
1944. Marine Turbellaria from the Atlantic coast of North America. *American Museum Novitates*, No. 1266.

- Jolliffe, N. 1930. The excretion of xylose by glomerular and aglomerular kidneys. *Proc. Soc. Exp. Biol. Med.*, 28: 5.
- Karnofsky, D. A., I. Graef, and H. W. Smith, 1948. Studies on the mechanism and action of the nitrogen and sulfur mustards *in vivo*. *Amer. J. Path.*, 24: 275.
- Kempton, Rudolph T. 1940. The morphology of the dogfish renal tubule. *Bull. Mt. Desert Isl. Biol. Lab.*, 1940: 28-34.
- Kropp, Benjamin N. 1933. The occurrence of the humoral chromatophore activator among marine crustacea. *Biol. Bull.*, 64: 28-32.
1933. The action of the crustacean chromatophore activator on the melanophores of fishes and amphibians. *Biol. Bull.*, 64: 226-232.
- Lewis, Margaret Reed 1932. A study of the spontaneous cancer of mice in tissue cultures. *Bull. Mt. Desert Isl. Biol. Lab.*, 1932: 30.
1933. A study of the spontaneous mammary gland tumor of the mouse in tissue culture. *Bull. Mt. Desert Isl. Biol. Lab.*, 1933: 16.
- Lewis, Margaret Reed, and Earl O. Butcher 1936. The separation of the hypophysis cerebri of certain selachians (*Squalus acanthias* and *Raja stabuliformis*) into six distinct lobes. *Bull. Mt. Desert Isl. Biol. Lab.* 1936: 16-18.
- Lewis, Margaret Reed, and Earl O. Butcher 1936. The melanophore hormone of the hypophysis cerebri of certain selachians. *Bull. Mt. Desert Isl. Biol. Lab.* 1936: 20-21.
- Lewis, Margaret Reed, and P. S. MacNeal 1935. A study of the pituitary gland of certain fishes by means of tissue cultures. *Bull. Mt. Desert Isl. Biol. Lab.* 1935: 16.
- Lewis, Margaret Reed, and L. Michaelis 1928. The range of hydrogen ion concentration of certain buffer solutions in which the chicken-tumor virus retains its activity. *Johns Hopkins Hospital Bull.*, 43: 92-104.
- Lewis, Margaret Reed, and L. C. Strong 1934. The growth of cancerous cells in egg albumen. *Bull. Mt. Desert Isl. Biol. Lab.*, 1934: 26.
- Lewis, Margaret Reed, and L. C. Strong 1934. The growth of cancerous cells in diluted media. *Bull. Mt. Desert Isl. Biol. Lab.*, 1934: 26.
- Lewis, Margaret Reed, and L. C. Strong 1935. Studies on the spontaneous carcinoma of the mammary glands of mice. *Bull. Mt. Desert Isl. Biol. Lab.* 1935: 16.
- Lewis, W. H. 1928. The transformation of mononuclear blood cells into macrophages, epithelioid cells and giant cells. *Arch. f. exper. Zellforsch.*, 6: 253-259.
1928. Comparative study of fish blood. *Carnegie Institution 1927-28. Year Book No. 27*: 279-280.

1929. Special Cytology. The form and function of the cell in health and disease. A textbook for students of biology and medicine. Edited by E. V. Cowdry, New York, 1928. Review in Science, 69: 250.
- Lewis, W. H., and Margaret Reed Lewis, Co-operation in research 1938. Studies on white blood cells. Carnegie Institution of Washington Publication, No. 501: 369-382.
- Lewis, W. H. and M. I. Rubin 1932. The white cells in cultures of the buffy coat of human blood. Bull. Mt. Desert Isl. Biol. Lab., 1932: 32.
- Lewis, W. H., and M. I. Rubin 1932. Changes in the neutrophils and monocytes in cultures of the buffy coat of human blood in serum. Anat. Rec., 53: 249-254.
- Litchfield, John T., Jr., 1939. The effect of sulfanilamide on the lower vertebrate. J. Pharm. Exp. Therap., 67: 212.
- Lutz, Brenton R. 1930. The effect of low oxygen tension on the pulsations of the isolated holothurian cloaca. Biol. Bull., 58: 74-84.
1930. The effect of adrenalin on the auricle of the elasmobranch fishes. Am. J. Physiol., 94: 135-139.
1931. The innervation of the stomach and rectum and the action of adrenaline in elasmobranch fishes. Biol. Bull., 61: 93-100.
- Lutz, Brenton R., and Leland C. Wyman 1927. The chromophil tissue and interrenal bodies of elasmobranchs and the occurrence of adrenin. Journ. Exp. Zool., 47: 295-307.
1932. Reflex cardiac inhibition of branchio-vascular origin in the elasmobranch, *Squalus acanthias*. Biol. Bull., 62: 10-16.
- Marshall, E. K., Jr., 1930. A comparison of the function of the glomerular and aglomerular kidney. Am. J. Physiol., 94: 1-10.
- Marshall, E. K., Jr., and Allan Lyle Grafflin 1932. The function of the proximal convoluted segment of the renal tubule. J. Cell. & Comp. Physiol. 1: 161-176.
- Marshall, E. K., Jr., and Allan L. Grafflin 1933. Excretion of inorganic phosphate by the glomerular kidney. Proc. Soc. Exp. Biol. and Medicine. 31: 44-46.
- Marshall, E. K., Jr., and H. W. Smith 1930. The glomerular development of the vertebrate kidney in relation to habitat. Biol. Bull., 59: 135.
- Mast, S. O. 1931. Locomotion in *Amoeba proteus* (Leidy). Protopl., 14: 321-330.
1931. Movement and response in *Diffugia* with special reference to the mature cytoplasmic contraction. Biol. Bull., 61: 223-24.

1932. Localized stimulation, transmission of impulses and the nature of response in *Amoeba*. *Physiol. Zool.*, 51: 1-15.
- Mast, S. O., and Percy L. Johnson 1932. Orientation in light from two sources and its bearing on the function of the eyespot. *Z. vergl. Physiol.*, 16: 257-274.
- Mast, S. O., and C. L. Prosser 1932. Effect of temperature, salts and hydrogen-ion concentration on rupture of the plasmagel sheet and rate of locomotion and gel/sol ratio in *Amoeba proteus*. *J. Cell. Comp. Physiol.*, 1: 333-354.
- McDougall, Mary Stuart and Robert Hegner 1943. *Biology; the science of life*. McGraw Hill, N. Y.
- Meyers, F. J. 1931. The distribution of rotifera on Mt. Desert Island. *Am. Mus. Novitates*, No. 494.
- Miles, Samuel S. 1937. A new genus of hydroid and its method of asexual reproduction. *Biol. Bull.*, 72: 327-333.
- Miller, James A., Jr., 1940. Oxygenation and ciliary rate in regenerating *Tubularia* stems. *Bull. Mt. Desert Isl. Biol. Lab.* 1940: 41.
1942. Some effects of covering the perisarc upon tubularian regeneration. *Biol. Bull.*, 83: 416.
1946. Differential reduction of Janus Green in the early development of *Tubularia crocea*. *Anat. Rec.*, 94: No. 3: 17.
- Minnich, Dwight E. 1942. The responses to light of various wave lengths by the periwinkle, *Littorina litorea* (L.). *Anat. Rec.*, 84: 83-84.
- Moment, Gairdner B. 1938. The effects of anesthetics on chromosome behavior during polar body formation in the eggs of the snail, *Nassa*. *Bull. Mt. Desert Isl. Biol. Lab.*
1939. Further work on the effects of anesthetics on chromosome and polar body behavior in the eggs of the snail, *Nassa*. *Bull. Mt. Desert. Isl. Biol. Lab.*
1939. Comparative observations on the blood cells of some Mt. Desert Ascidians. *Ibid.*
1939. Faunal note: An inshore *Cerianthus* at Mt. Desert Island. *Ibid.*
1942. *General Biology for Colleges*. D. Appleton-Century Company.
- Nash, J. 1931. The number and size of glomeruli in the kidneys of fishes, with observations on the morphology of the renal tubules of fishes. *Am. J. Anat.*, 47: 425.
- Needham, Joseph, and Dorothy M. Needham 1940. A note on the biochemistry of embryonic determination in echinoderms. *J. Exp. Biol.*, 17: 147-152.
- Nelson, E. Clifford 1940. An intestinal content cultivation medium. I. Methods of preparation and use and data obtained in the cul-

- tivation of *Balantidium coli* from the pig. Am. J. Trop. Med., 20: 731-745.
1943. Cultivation of *Nyctotherus cordiformis*. J. Parasit., 29: 292-297.
- Nishibe, M. 1928. On the cultivation of kidney tissue from the adult toad. Arch. f. exper. Zellforsch., 7: 87-97.
1928. Growth of endocardial cells from the chick embryo heart in vitro. Arch. f. exper. Zellforsch., 7: 333-343.
- Pitts, R. F. 1934. Urinary composition in marine fish. J. Cell. Comp. Physiol., 4: 389.
- Pitts, R. F. 1939. The excretion of creatinine by the dogfish, *Squalus acanthias*. J. Cell. Comp. Physiol., 13: 151.
- Rakestraw, Norris W. 1932. Phosphorus and nitrogen in the neritic waters of the Gulf of Maine. Internat. Revue der ges. Hydrobiol. u. Hydrographie. Bd. 27, Heft 1: 151-160.
- Rich, A. R., and M. R. Lewis 1928. Mechanism of allergy in tuberculosis. Proc. Soc. Exper. Biol. and Med., 25: 596-698.
- Robbie, W. A. 1948. Some correlations between development and respiration in the Sand Dollar egg, as shown by cyanide inhibition studies. J. Gen. Physiol., 31: 217-232.
- Roth, George B. 1933. Relative depressant effects of certain barbiturates on heart of Elasmobranchs. Proc. Soc. Exp. Biol. & Med., 30: 563.
1933. The reaction of the oviduct of the skate to certain autonomic poisons. J. Pharm. & Exp. Therap., 49: 387.
1935. Pharmacologic evidence for cardio-regulative nerves in the skate (*Raja stabuliformis*). Arch. Inter. Pharmacodynamie et de Therap., 49: 355.
1937. A comparison of paraldehyde, chloralhydrate and sodium isoamyl ethyl barbiturate on the heart of the spiny dogfish. Bull. Mt. Desert Island Biol. Lab. 1937: 24-25.
- Sayen, John, and Warner F. Sheldon 1949. The heart muscles and the electrocardiogram in coronary disease. II. Difficulties of description and illustration of ventricular muscle lesions with a method for their graphic representation in a myocardial map. American Heart Journal, 38:
- Schopper, W. 1933. Das Walker-rattensarkom No. 319 in der Gewebekultur. Arch. f. exper. Zellforsch., 14: 14-41.
1933. Investigations on carcinoma. Bull. Mt. Desert Isl. Biol. Lab. 1933: 15.
- Schramm, J. R. 1941. An interesting variant of white spruce. Morris Arboretum Bull., 3: 67-69.
- Schreiner, George E., L. G. Wesson, Jr., and W. Parker Anslow, Jr., 1949. Contamination of commercial p-aminohippuric acid with

- p-aminobenzoic acid. Proc. Soc. Exp. Biol. & Med., 70: 726.
- Seiwell, H. R. 1930. Oceanographical investigations in the inshore waters of the Gulf of Maine. Science, 71, No. 1833: 194-195.
1931. A consideration of some external factors governing the production of plankton in the sea. J. Ecol. (British), 19, No. 1: 164-176.
1930. Preliminary report on the results obtained by duplicate measurements of specific gravity of sea water by the Knudsen and Plumet methods. Trans. Am. Geophys. Union, 12th Annual Meeting. Washington, D. C.: 178-179.
1932. Observations on the ammonia content of sea water. J. Ecol. (American), 13, No. 3: 485-488.
1932. Some physical characteristics of the water of Penobscot Bay, Maine, especially in relation to the tides and a discussion of the results obtained by duplicate measurements of specific gravity of sea water by the Knudsen and Plumet methods. Internationale Revue der Gesamten Hydrobiologie und Hydrographic, 27, No. 2: 315-331.
1932. The cycle of phosphorus in the western basin of the North Atlantic Papers in Physical Oceanography and Meteorology, 5. No. 3: 24.
- Senior, H. D. 1929. Abnormal branching of the human popliteal artery. Am. J. Anat., 44: 111.
1933. Morris' Human Anatomy (edited by C. M. Jackson) 9th edition. Philadelphia, P. Blakiston: 585-766. Section VI: Blood-vascular system.
- Shannon, James A. 1934. Absorption and excretion of water and salts by the elasmobranch fishes. IV. The secretion of exogenous creatinine by the dogfish, *Squalus acanthias*. J. Cell. & Comp. Physiol., 4: 211-220.
1934. The excretion of inulin by the dogfish, *Squalus acanthias*. J. Cell & Comp. Physiol., 5: 301-310.
1938. The excretion of uric acid by the chicken. J. Cell. and Comp. Physiol., 11: 135-148.
1938. Renal excretion of exogenous creatinine in aglomerular toadfish, *Opsanus tau*. Proc. Soc. Exper. Biol. & Med., 38: 245-248.
1938. The renal excretion of phenol red by the aglomerular fishes, *Opsanus tau* and *Lophius piscatorius*. J. Cell. and Comp. Physiol., 11: 315-323.
1939. Renal tubular excretion. Physiol. Rev., 19: 63-93.
1940. On the mechanism of the renal tubular ex-

- cretion of creatinine in the dogfish, *Squalus acanthias*. J. Cell. and Comp. Physiol., 16: 285-291.
- 1942 Kidney. Ann. Rev. Physiol., 4: 297-328.
- Sheldon, Warner F., and John J. Sayen 1949. The heart muscle and the electrocardiogram in coronary disease. I. Survey of standards and methods for obtaining the anatomic data requisite for clinicopathologic correlations. Am. Heart. Journal., 38: 517.
- Sizer, I. W. 1936. Stimulation of Fundulus by oxalic and malonic acids and breathing rhythm as functions of temperature. J. Gen. Physiol., 19: 693.
1937. Stimulation of *Balanus balanoides* and *Fundulus heteroclitus* by dicarboxylic acids. Physiol. Zool., 10: 327.
- Smith, H. W. 1929. The excretion of ammonia and urea by the gills of fish. J. Biol. Chem., 81: 727-742.
1929. The composition of the body fluids of the goosefish (*Lophius piscatorius*). J. Biol. Chem., 82: 71-75.
1929. The composition of the body fluids of Elasmobranchs. J. Biol. Chem., 81: 407-419.
1930. The absorption and excretion of water and salts by marine teleosts. Amer. J. Physiol., 93: 480-505.
1931. The regulation of the composition of the blood of teleost and elasmobranch fishes and the evolution of the vertebrate kidney. Copeia, Dec: 147.
1931. The absorption and excretion of water and salts by the elasmobranch fishes. I. Fresh water elasmobranchs. Amer. J. Physiol., 98: 279.
1931. The absorption and excretion of water and salts by the elasmobranch fishes. II. Marine elasmobranchs. Amer. J. Physiol., 98: 296.
1936. The composition of urine in the seal. J. Cell. Comp. Physiol., 7: 465.
1939. The excretion of phosphate in the dogfish, *Squalus acanthias*. J. Cell. & Comp. Physiol., 14: 95.
1939. The excretion of phenol red in the dogfish, *Squalus acanthias*. J. Cell. Comp. Physiol., 14: 357.
- Smith, Willie W. 1939. The excretion of phosphate in the dogfish, *Squalus acanthias*. J. Cell. and Comp. Physiol., 14: 95.
1939. The excretion of phenol red in the dogfish, *Squalus acanthias*. J. Cell. and Comp. Physiol., 14: 357.
1941. Glomerular filtration and renal blood flow in the rabbit. Proceedings of the Am. Physiol. Soc. 1941: 264.
1941. Renal blood flow and mannitol diuresis in the rabbit. Bull. Mt. Desert Isl. Biol. Lab. 1941: 25.
- Taggart, J. V., and R. P. Forster 1949. The effect of 2, 4-dinitrophenol

- and a series of related compounds of phenol red transport in isolated renal tubules of the flounder. (in press.).
- Unger, W. Byers 1941. A new variety of *Trachelomonas urceolata*. (*Protozoa, Mastigophora*). Bull. Mt. Desert Isl. Biol. Lab. 1941: 15-16.
1941. A preliminary survey of the protozoa of Beaver Lake near Salsbury Cove, Maine. Bull. Mt. Desert Isl. Biol. Lab. 1941: 17-18.
1941. A rare variety of *Trachelomonas dangeardi* (*Protozoa, Mastigophora*). Bull. Mt. Desert Isl. Biol. Lab. 1941: 14-15.
- Walker, Almeda M., and A. S. Pearse 1939. Rhizocephala in Maine. Bull. Mt. Desert Isl. Biol. Lab. 1939: 22-23.
- Wintrobe, M. M. 1933. Variations in the size and hemoglobin content of erythrocytes in the blood of various vertebrates. *Folia haematologica*, 51: 32.
- Young, Edward Lorraine, III 1937. Notes on the *Labyrinthula* parasite of the eel-grass *Zostera marina*. Bull. Mt. Desert Isl. Biol. Lab. 1937: 33-35.
1938. Recent investigations on the eel-grass problem: preliminary report. Bull. Mt. Desert Isl. Biol. 1938: 26-28.
1938. *Labyrinthula* on Pacific coast eel-grass. Can. Journal Res., 16: 115-117.
1943. Studies on *Labyrinthula*. The etiologic agent of the wasting disease of eel-grass. Am. J. Bot., 30: 586-593.