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(37) Wright, Sewall "Communication not sound !!(Language) humming odor 11 page manuscript on 6 leaves in pen and 3 colors of pencil unsigned but unmistakably completely in Sewall Wright's hand having handled the Sewall Wright archive from Will Provine to the American Philosophical Society we are very familiar with Sewall Wright's handwriting. \$3,000.00

6) Communication not sound! (language) humming pick
 1) odor adhering to body, honey, scent organ
 2) dance, gestures. visual and kinetic method Antennae enticing

Intensity of dance \rightarrow much and concentrated bees
 Those flowers most frequented rich richest in bees
Selective value of bees + odor. clover, apple

Without odor, bees can communicate distance, direction of food
 = \neq exactly the spot where to fly

2 types of dances (short - long distance)

Fig 11 fight trained for scent at 10 m distance
 scent scattered over 10 to 100 m distance
 bees flock around 10 m from hive, not at 100 m
 they show round dance up to \sim 100 m

Fig 12 Distance and no. of turns
 2-3 km 9 swarms

Fig 13 Wind Back(tail) wind = less effort (shorter distance)
 head wind - towards
 not distance, but time of flight/(effort) is told


under $\times 50$ m no exact distance, search around (but direction)

Do bees understand this language? interest translate into useful action

2 groups (red, blue) same stock, trained 20 m, 200 m
 dance differently. followers marked, follow leader
imitate dance - trail
 fly independantly, remove leader

Direction 4 observation dishes in compass, 700 m

Fig 14 bees observed dancing, Glass with lines
Vertical surface

gravity: $< 10^\circ$ with error 

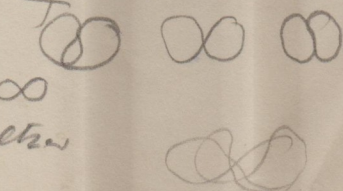
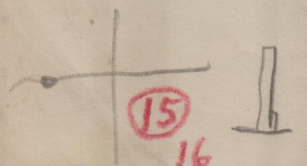
Intermediary dance type
 line halving the ∞
 dialect Baltics 

Fig 15 16 Stearisöl in bottle
 25 to 100 m 

It is a great relief to have at last a good book on Lamarck in English, neither partisan through patriotism, nor distorted by dislike of Darwin. Burckhardt gives us an excellent introduction to Lamarck, his contemporaries and predecessors, to the scientific bodies and ~~colleagues~~^{institutions} in revolutionary Paris. ~~But~~ Anyone working on Lamarck is necessarily limited to the almost total lack of biographical or personal material, but Burckhardt has ~~gone~~^{gone} carefully through the published writings and the manuscripts of Lamarck at the Muséum d'Histoire naturelle, and those of Cuvier there and at the Institut. He has read widely in the literature of the period, ~~and his~~^{and his} sketches of the ideas and opinions of Daubenton, Faujas de Saint-Fond, Buffon, de Jussieu, Bréquière, and Lacépède, for example, are essential for understanding the variety of opinions ~~at the time~~ and the wonderful ~~richness~~ richness of the biological, physical and chemical work in Paris in Lamarck's lifetime.

(On Lamarck) Burckhardt gives On Lamarck himself a most useful sketch of his life and career, and the best analysis yet both of his evolutionary ideas and the way in which he altered his opinions, or at any rate some of them. The title of the book refers to that passion for system building (esprit de système) which had already been recognised as a major obstacle to scientific progress — Lamarck would not have liked its application to him at all, but it is justly ~~applied~~^{used}. He was a fanatical system-builder, far too hasty, far too impatient to ~~conclude~~^{test} his ~~own~~ the validity of the 'facts' he built on, far too lenacious of dubious corner ideas, and incredibly opposed to the best ~~science~~ physical science of his day. He was, in short, a first-class crank. One is reminded of Alfred Russel Wallace on anti-vaccination, life on Mars, land nationalization, and the flat-earth people. Cranks are usually disastrously wrong, but when they are right, because of their fanaticism they are righter than most others — in some respects Wallace's Darwinism, which riled surprised Darwin, was better than the Origin of Species; and he was of course a great biogeographer. ~~Similarly~~ Lamarck has plenty of claim to biological credit, for his taxonomic work; but his system of thought

evolutionism

... societies in Paris at this period, and the Lamarck's rejection of Lamarck's physicochemical ideas by the Académie. Chapter II, The Background to Lamarck's Biological thought, is so far but mis-titled since much of

- (39) Muller, H.J. Induced Crossing Over Variation in the X Chromosome of *Drosophila* off-print, Reprinted from *The American Naturalist*, Vol. LX, March-April, (1926) The University of Texas pg. 192-195 sm4to pamphlet \$125.00
- (40) Muller, H.J., Oster, I.I. Principles of Back Mutation as Observed in *Drosophila* and Other Organisms off-print, Reprinted from *Advances in Radiobiology*, proc. Int. conf. radiobiol. Stockholm (1956) pg. 407-413, printed in Great Britain by Oliver and Boyd Ltd., Edinburgh 8vo Off-print \$125.00
- (41) Enriques, Paolo La formazio ne di sostanza nucleare nello sviluppo. Studio biometrico sull' *Aplysia limacina* , off-print, Estratto da *Bios*, Vol. II, Fasc. 2, pubblicato nell' Agosto (august 1914), Direz. Presso l'Ist zoolog. Bologna pg. 184-193 sm4to pamphlet \$125.00
- (42) Muller, H.J. Some Genetic Aspects of Sex off-print, Reprinted from the *American Naturalist*, Vol. LXVI, March-April, (1932) University of Texas, pg 120-137 with fold outs. Sm4to pamphlet \$125.00
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- (66) Brenner, Sydney Spectrophotometric Studies on the Combination of Trypan Blue and Related Dyes with the Plasma Albumin of the Rat, Guinea pig, and the Baboon by Brenner, Sydney S. Afr. J. Med Sci., (1952), 17, 61-72 Offprint. Self-wrappers as issued. First separate edition. Rare. Staples little rusted else very good. \$550.00
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- (68) McClintock, Barbara and Creighton, Harriet B. The Order of the Genes C, Sh and Wx in Zea Mays with Reference to a Cytologically Known Point in the Chromosome; A Correlation of Cytological and Genetical Crossing-Over in Zea Mays by McClintock, Barbara and Creighton, Harriet B. Very good condition. First edition. Offprint. Original wrappers. Ownership stamp of J.T. Baldwin, Jr. on front cover. 2 articles.* Genetics. Nobel Prize. "McClintock and Creighton proved the link between chromosomal crossover during meiosis and the recombination of genetic traits." \$2,000
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(71) Lewis, E.B. 10 offprints from Nobel Prize winner E. B. Lewis First edition. Offprints. 10 offprints from Nobel Prize winner Edward B. Lewis. Titles included: The Phenomenon of Position Effect reprinted from *Advances in Genetics*, Vol. III, 1950 (Hampton L. Carson stamp front cover); Pseudoallelism and Gene Evolution Reprinted from Cold Spring Harbor Symposium (1951) Hampton L. Carson stamp; Pseudoallelism and the Gene Concept Reprinted from *Caryologia* Vol. suppl. 1954; The Pseudoallelism of White and Apricot in *Drosophila Melanogaster* (1952) reprinted from *Proceedings of the National Academy of Sciences*, Vol. 38. No. 11, pp. 953-961. November 1952, Hampton L. Carson stamp; The Theory and Application of a New Method of Detecting Chromosomal Rearrangements in *Drosophila Melanogaster* reprinted from *The American Naturalist* July-August 1954; Some Aspects of Pseudallelism reprinted from *The American Naturalist* March-April 1955; Leukemia and Ionizing Radiation reprinted from *Science*, May 17, 1957; Genetic Control and Regulation of Developmental Pathways reprinted from *Role of Chromosomes in Development* 1964, Hampton L. Carson stamp; Genes and Developmental Pathways reprinted from *Zoologist*, 1963, Hampton L. Carson stamp; Genes and Gene Complexes reprinted from *Heritage From Mendel* (1967), Hampton L. Carson stamp. In very good or better condition. Nobel Prize \$750

(72) Snell, George D. 11 offprints by Nobel Prize winner George D. Snell by Snell, *A rare selection of offprints by the 1980 Nobel Prize winner in Physiology or Medicine (shared). Offprints. First separate editions. Titles included: *Inheritance in the House Mouse, The Linkage Relations of Short-Ear, Hairless, and Naked* (1931) "with the compliments of the author" in ink front cover; *X-ray Sterility in the male house mouse* (1933); *A translocation in the house mouse and its effect on development* (1934) with Elsie Bodemann, and Willard Hollander; *The Determination of Sex in Habrobracon* (1935); *Abnormal Development in the Mouse Caused by Chromosome Unbalance with Dorothea Isabel Picken* (1935); *The Induction by X-Rays of Hereditary Changes in Mice* (1935); *The Induction by Irradiation with Neutrons of Hereditary Changes in Mice* (1939); *Some Considerations Concerning the Structure of Chromosomes and Genes* (1938) pages uncut; *Dwarf, A New Mendelian Recessive Character of the House Mouse* (1922) page creased, some foxing; *The Inherent Defect in the Theory That Growth Rate is Controlled by an Autocatalytic Process* (1929); *A Cross-Over Between The Genes for Short-Ear and Density in the House Mouse* (1928) minor foxing to cover. Some creasing, mostly very good or better in original wraps.

(73) Morgan, T. H. (Thomas Hunt Morgan) 36 offprints from Nobel Prize winner Thomas Hunt Morgan by Morgan, T. H. A group of 36 offprints by T. H. Morgan Nobel Prize winner 1866-1945, "was an American evolutionary biologist, geneticist and embryologist and science author who won the Nobel Prize in Physiology or Medicine in 1933 for discoveries elucidating the role the chromosome plays in heredity." Wikipedia. Included titles: *The Gastrulation of the Partial Embryos of Sphaerechinus* Some Factors in the Regeneration of *Tubularia* (1903); *The Effect of Lithium Chloride on the Development of the Frog's Egg* (1903); *Demonstration of the effects of castration on Seabright cockerals* (1917) some chipping to page edges; *The Endocrine Secretion of Hen Feathered Fowls* (1920) some dampstaining to bottom and spine margins, else fair; With A. H. Sturtevant and C. B. Bridges *The Constitution of the germ-material in relation to heredity* (1923) with L.C. Dunn stamp of ownership; *Further Evidence on Variation in the Width of the Abdomen in Immature Fiddler Crabs* (1923) L.C. Dunn stamp; *The Development of Asymmetry in the Fiddler Crab* (1923) L.C. Dunn stamp; *Removal of the*

Block to Self-Fertilization in the Ascidian *Ciona* (1923) some chipping and tearing to edges, also a bit of dampstain to top edge corner; Recent Results Relating to Chromosomes and Genetics (1926) Karl Sax stamp, some wear to spine; with A. H. Sturtevant and C. B. Bridges The Constitution of the germinal material in relation to heredity (1928) Karl Sax stamp; The Point of Entrance of the Spermatozoon in Relation to the Orientation of the Embryo in Eggs with Spiral Cleavage with Albert Tyler (1930); The Apparent Inheritance of an Acquired Character and its Explanation (1930) Karl Sax and E. M. East stamps; with C. B. Bridges and Jack Schultz: The constitution of the germinal material in relation to heredity (1930) L. C. Dunn stamp; with C. B. Bridges and Jack Schultz: The constitution of the germinal material in relation to heredity (1931) Karl Sax stamp; The Rise of Genetics (1932) E. M. East and Karl Sax stamp; With C. B. Bridges and Jack Schultz: The constitution of the germinal material in relation to heredity (1932) Karl Sax and E. M. East stamps; with C. B. Bridges and Jack Schultz: Constitution of the Germinal Material in Relation to Heredity (1933), red pen mark front cover; With C. B. Bridges and Jack Schultz: Report of Investigations on the Constitution of the Germinal Material in Relation to Heredity (1934) Karl Sax stamp; Modern Views of the Evolution Theory (1935) L. C. Dunn stamp; with C. B. Bridges and Jack Schultz: Report of Investigations on Constitution of the Germinal Material in Relation to Heredity (1935) Lester W. Sharp stamp; With C. B. Bridges and Jack Schultz: Constitution of the Germinal Material in Relation to Heredity (1937) Lester W. Sharp stamp; The Genetic and the physiological problems of self-sterility in *Ciona* I. Data on self- and cross-fertilization (1938) Karl Sax stamp; The Genetic and the physiological problems of self-sterility in *Ciona* II. The influence of substances in the egg water and sperm-suspensions in self- and cross-fertilization in *Ciona*. (1938) L. C. Dunn stamp; A Reconsideration of the Evidence Concerning A Dorso-Ventral Pre-Organization of The Egg of *Chaetopterus* (1938) Karl Sax stamp; The Relation Between Entrance Point of the Spermatozoon and Bilaterality of the Egg of *Chaetopterus* with Albert Tyler (1938); The Genetic and the physiological problems of self-sterility in *Ciona* III. Induced self-fertilization, staples little rusty; The Genetic and the physiological problems of self-sterility in *Ciona* IV. Some biological aspects of fertilization (1939) staples little rusty; The Effects of Centrifuging on the Polar Spindles of the Egg of *Chaetopterus* and *Cumingia* (1939) front cover little age-toned; With Jack Schultz, C. B. Bridges and Viola Curry: Investigations on the constitution of the germinal material in relation to heredity (1939) title in ink top edge. Karl Sax stamp; Investigations on the Constitution of The Germinal Material in Relation to Heredity (1941) with Jack Schultz and Viola Curry, splash stain front cover, else fair. L. C. Dunn stamp; with Jack Schultz and Viola Curry: Investigations on the constitution of the germinal material in relation to heredity (1940); Cross- and Self-Fertilization in the Ascidian *Styela* (1942) L. C. Dunn stamp; Do Spermatozoa Penetrate the Membrane of Self-inseminated Eggs of *Ciona* and *Styela*? (1942) L. C. Dunn stamp; The Genetic and the physiological problems of self-sterility in *Ciona* V. The genetic problem (1942) Karl Sax stamp; with Helen Redfield and L. V. Morgan: Maintenance of a *Drosophila* stock center, in connection with investigations on the constitution of the germinal material in relation to heredity (1943) L. C. Dunn stamp; The Genetic and the physiological problems of self-sterility in *Ciona*. VI. Theoretical discussion of genetic data (1944) Karl Sax stamp. In original wraps. First edition. Most in very good condition with many having Morgan's name in ink or pencil with date in upper left corner of most title sheets. * Putting together a collection of T. H. Morgan's offprints of this size would most likely be impossible these days. Rare. \$15,000