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## John Paul Scott Papers (1909-2000)

The Jackson Laboratory

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## **John Paul Scott (1909-2000)**

**Title:** John Paul Scott Collection, 1946-1964.

**Origin:** J. Paul and Mary Vesta Marston Scott, June 4, 1999.

**Dates:** 1946-1964, with some later correspondence.

**Accession Number and Location:** 99.006-Scott; Morrell Park storeroom.

**Size and Arrangement:** As given, with no additional processing, seventeen cartons and one oversized journal (placed in library storeroom); 20.4 lin.ft.

**Biography:** Born in 1909, John Paul Scott lived and attended school in Wyoming, graduating from the University of Wyoming in 1932, studied at Oxford University as a Rhodes Scholar, received his Ph.D. in Zoology from the University of Chicago in 1936, and accepted a teaching position at Wabash College in Indiana. In 1946, C.C. Little, director of The Roscoe B. Jackson Memorial Laboratory, and Alan Gregg, director of the Rockefeller Foundation, persuaded him to initiate a project in dog behavior genetics at the laboratory in Bar Harbor. At The Jackson Laboratory, Scott organized the Summer Investigators Program to encourage scholarly peer collaborations, organized several major research conferences, collaborated with John L. Fuller in a massive data-gathering research project on the behavior of dogs, and published the seminal work in his field, *Genetics and the Social Behavior of the Dog*. In 1964 Scott accepted a research position in the psychology department at Bowling Green University, where he established the Center for the Study of Social Behavior and published *Social Control and Social Change*.

For an autobiographical essay by John Paul Scott, see "Investigative Behavior: Toward a Science of Sociality," Chapter 16 in *Studying Animal Behavior, Autobiographies of the Founders*, p.389-429. (copy available) For an overview of the behavior genetics research program at the Hamilton Station of TJJL, see *The First Fifty Years at The Jackson Laboratory*, p. 185-197.

**Scope and Content:** The collection consists primarily of research data gathered during J. Paul Scott's tenure at The Jackson Laboratory, 1946-1964; including tests, results, tabulated and raw data, sonograms, descriptive cards on coat color, and a master log. These tests include some 40 separate measurements in over 30 different situations, using over 400 dogs over ten years. Much of the research data have been published, but not all. (The data not included in the main study are identified in italics in the Box Inventory.) The University of Chicago Press, publisher of *Genetics and the Social Behavior of the Dog*, states in its review, "The classic study of dog behavior gathered into one volume. Based on twenty years of research at the Jackson Laboratory, this is the single most important and comprehensive reference work on the behavior of dogs ever compiled." The volume remains the definitive work in the field, and is in its sixth printing. (See a collection of reviews in this electronic folder.)

An eleven page letter explaining the origin of the dog behavior program to Jean Holstein, author of *The First Fifty Years*, can be found in Box 36, F.4. Also, in TJJL Archives vertical file are several articles: "Critical Periods in Behavioral Development" *Science*, 1962; "Biopsychology Comes of Age" *Science*, 1965; "Investigative Behavior: Toward a Science of Sociality" University of Chicago Press, 1985; letter to *Science*, 1997; hand-written note summarizing the contents of the data files, 1998; and a box list with some notes, 1999.

There is a possibility for additions to the collection.

**Inventory:**

BOX #1:

1. Original Dog Testing Manual.
2. Additional copy of Dog Testing Manual.
3. "Working" copy of Dog Testing Manual (in black binder).
4. Weekly observations (tabulated data in two blue-grey binders).
5. Reactions to Veterinary Treatments and Confinement Test (tabulated data in blue-grey binder).
6. Handling Tests; Detailed Avoidance Observations of Posture; Dominance Tests; Somatotypes (tabulated data in blue-grey binder).
7. Barrier tests: Manipulation tests (tabulated data in blue-grey binder).
8. Following Test; Motor Skill Test; Trailing Test; Retrieving Test (tabulated data in blue-grey binder).
9. Identification of individuals in population, i.e. life histories (tabulated data).
10. Effects of male versus female handlers (tabulated data).

BOX #2:

1. Jackson Laboratory Reprints, 1947-1953.
2. Analysis of Variance for 5 breeds (in black binder).
3. Tally sheets (bland - one manilla folder)
4. Handling Tests - Basenjis (raw data).
5. Handling Tests - Beagles (raw data).

BOX #3:

1. Handling Tests - Cocker Spaniels (raw data).
2. Handling Tests - Shetland Sheep Dogs (raw data).
3. Handling Tests - Wire-Haired Fox Terriers (raw data).

BOX #4:

1. Handling Tests - Scotties (raw data - *not part of main study* ).
2. Handling Tests - Dachshunds (raw data - *not part of main study* ).
3. Handling Tests - Basenji puppies raised by Cocker Spaniel (raw data, *not part of main study* ).
4. Handling Tests - Cocker Spaniel puppies raised by Basenji (raw data, *not part of main study* ).
5. Handling Tests - Basenji on Cocker Spaniel F1 Hybrids (BCS cross - raw data).
6. Handling Tests - Cocker Spaniel on Basenji F1 Hybrids (CBS cross - raw data).
7. Handling Tests - CSB / B backcross (raw data).
8. Handling Tests - BCS / CS backcross (raw data).
9. Handling Tests - F2 Hybrids BCS / BCS (raw data).

BOX #5:

1. Handling Tests - F2 Hybrids BCS / BCS (raw data).

2. Handling Tests - F2 Hybrids CSB / CSB (raw data).
3. Handling Tests - Miscellaneous (*not part of the study*).
4. Early Handling and Social Motivation Tests (*not included in main study*).
5. Early Research on Sucking Behavior in Dogs (*not included in main study*).
6. NINDS Workshop report - 1973.

BOX #6:

1. Dominance Tests - Basenjjs (raw data).
2. Dominance Tests - Beagles (raw data).
3. Dominance Tests - Cocker Spaniels (raw data).
4. Dominance Tests - Shetland Sheep Dogs (raw data).

BOX #7:

1. Dominance Tests - Wired-Haired Fox terriers (raw data).
2. Dominance Tests - Basenji on Cocker Spaniel F1 hybrids, BCS cross (raw data).
3. Dominance Tests - Cocker Spaniel on Basenji hybrids, CSB cross (raw data).
4. Dominance Tests - Basenji puppies raised by Cocker Spaniel (raw data, *not included in main study*).
5. Dominance Tests - Cocker Spaniel puppies raised by Basenji (raw data, *not included in main study*).
6. Dominance Tests - Backcross BCS / CS (raw data).
7. Dominance Tests - Backcross CSB / B (raw data).

BOX #8:

1. Dominance Tests - Backcross CSB on B, continued (raw data).
2. Dominance Tests - F2 hybrids, CSB / CSB (raw data).
3. Dominance Tests - F2 hybrids, BCS / BCS (raw data).
4. Dominance Tests - Cocker Spaniels reared with Beagles (raw data, *not included in main study*).
5. Dominance Tests - Beagles reared by Basenji (raw data, *not included in main study*).
6. Dominance Tests - Basenjjs reared by Beagle (raw data, *not included in main study*).
7. Miscellaneous Dominance Tests - Scotch Terriers and Dachshunds (raw data, *not included in main study*).
8. Dominance test analyses.

BOX #9:

1. Maze Tests - Basenjjs (raw data).
2. Maze Tests - Beagles (raw data).
3. Maze Tests - Cocker Spaniels (raw data).

4. Maze Tests - Shetland Sheep Dogs (raw data).

BOX #10:

1. Maze Tests - Wire-Haired Fox Terriers (raw data).

2. Maze Tests - Cocker Spaniel puppies fostered on Basenji (raw data, *not included in main study*).

3. Maze Tests - Basenji puppies fostered on Cocker Spaniel (raw data, *not included in main study*).

4. Maze Tests - Basenji on Cocker Spaniel F1 hybrids, BCS cross (raw data).

5. Maze Tests - Cocker Spaniel on Basenji F1 hybrids, CSB cross (raw data).

6. Maze Tests - Backcross CSB / B (raw data).

7. Maze Tests - Backcross BCS / CS (raw data).

8. Maze Tests - F2 hybrids CSB / CSB (raw data).

BOX #11:

1. Maze Tests, continued - F2 hybrids CSB / CSB (raw data).

2. Maze Tests - F2 hybrids BCS / BCS (raw data).

3. Maze Tests - Cocker Spaniel and Beagle pups raised together (raw data, *not part of main study*).

4. Maze Tests - Beagle pups raised by Basenji (raw data, *not part of main study*).

5. Maze Tests - Basenji pups raised by Beagle (raw data, *not part of main study*).

6. Miscellaneous Maze Tests - Scotch Terriers and Dachshunds (raw data, *not included in main study*).

7. Trailing Tests - Shetland Sheep Dogs (raw data).

8. Trailing Tests - Wire-Haired Fox Terriers (raw data).

9. Trailing Tests - Basenjis (raw data).

10. Trailing Tests - Beagles (raw data).

11. Trailing tests - Cocker Spaniels (raw data).

12. Trailing Tests - Basenji on Cocker Spaniel - F1 hybrids, BCS cross (raw data).

13. Trailing Tests - Cocker Spaniel on Basenji - F1 hybrids, CSN cross (raw data).

14. Trailing Tests - BCS / CS backcross (raw data).

15. Trailing Tests - CSB / B backcross (raw data).

16. Trailing Tests - CSB/ CSB F2 hybrids (raw data).

17. Trailing Tests - BCS / BCS F2 hybrids (raw data).

\* NOTE: Written by J.P. Scott, April 15, 1999, and inserted into the box list..

“We had none of the breeds designated as Retrievers in our sample. Both the Golden and the Labrador Retrievers are quite large, and for convenience sake we selected five small to medium sized dogs.

In order to do something with retrieving behavior we devised a retrieving test and administered this at 32 weeks (approximately 8 months of age). The results indicate that this was too late, and it is possible that there is an earlier “critical period” of learning. In any case, the puppy must be large enough to carry a small object.

As I said in our book, we did not see many cases of a complete retrieving pattern, and this behavior is still to be studied in detail, using appropriate breeds, and developmentally also.”

18. Retrieval Tests - Shetland Sheep Dogs (raw data).
19. Retrieving Tests - Wire-Haired Fox terriers (raw data).
20. Retrieving Tests - Basenjis (raw data).
21. Retrieving Tests - Beagles (raw data).
22. Retrieving Tests - Cocker Spaniels (raw data).

BOX #12:

1. Retrieving Tests, continued - Basenji on Cocker Spaniel - F1 hybrids, BCS cross (raw data).
2. Retrieving tests - Cocker Spaniel on Basenji - F1 hybrids, CBS cross (raw data).
3. Retrieving Tests - Backcross, BCS / CS (raw data).
4. Retrieving Tests - Backcross, CSB / B (raw data).
5. Retrieving Tests - F2 hybrids, CSB / CSB (raw data).
6. Retrieving Tests - F2 hybrids, BCS / BCS (raw data).
7. Retrieving Tests - Miscellaneous - The animals in each folder were not crossed but were raised together (raw data, *not included in main study* ).
8. Habit Formation Tests - Shetland Sheep Dogs (raw data).
9. Habit Formation Tests - Wire-Haired Fox Terriers (raw data).
10. Habit Formation Tests - Basenjis (raw data).
11. Habit Formation Tests - Beagles (raw data).
12. Habit Formation Tests - Cocker Spaniels (raw data).
13. Habit Formation Tests - Miscellaneous - Scotch Terriers (raw data, *not included in main study* ).
14. Habit Formation Tests - Basenji on Cocker Spaniel F1 hybrids, BCS cross (raw data).
15. Habit Formation Tests - Cocker Spaniel on Basenji F1 hybrids, CSB cross (raw data).
16. Habit Formation Tests - Backcross, BCS / CS (raw data).
17. Habit Formation Tests - Backcross, CSB / B (raw data).
18. Habit Formation Tests - F2 hybrids, CSB / CSB (raw data).
19. Habit Formation Tests - F2 hybrids, BCS / BCS (raw data).
20. Habit Formation Tests - Miscellaneous - Puppies cross-fostered (raw data, *not included in main study* ).
21. Habit Formation Tests - Summary Sheets.

22. Barrier tests - Shetland Sheep Dogs (raw data).
23. Barrier Tests - Wire-Haired Fox terriers (raw data).
24. Barrier Tests - Basenjjs (raw data).
25. Barrier tests - Beagles (raw data).
26. Barrier Tests - Cocker Spaniels (raw data).

BOX #13:

1. Barrier Tests - Cocker Spaniel on Basenji - F1 hybrids, CSB cross (raw data).
2. Barrier Tests - Basenji on Cocker Spaniel - F1 hybrids, BCS cross (raw data).
3. Barrier Tests - Backcross, BCS / CS (raw data).
4. Barrier Tests - Backcross, CSB / B (raw data).
5. Barrier Tests - F2 hybrids, CSB / CSB (raw data).
6. Barrier Tests - F2 hybrids BCS / BCS (raw data).
7. Barrier Tests - Cross fostering.
8. Barrier Tests - Summary.
9. Early Barrier Tests - Wire-Haired Fox Terriers (raw data, *not included in main study* ).
10. Early Barrier Tests - Beagles (raw data, *not included in main study* ).
11. Early Barrier tests - Cocker Spaniels (raw data, *not included in main study* ).
12. Early Barrier tests - Basenjjs (raw data, *not included in main study* ).
13. Early Barrier Tests - Scotch terriers (raw data, *not included in main study* ).
14. Early Barrier Tests - Shetland Sheep Dogs (raw data).
15. Early Barrier Tests - Dachshunds (raw data, *not included in main study* ).
16. Early Barrier Tests - Miscellaneous breeds and crosses (raw data, *not included in main study* ).

BOX #14:

1. Manipulation Tests - Shetland Sheep Dogs (raw data).
2. Manipulation Tests - Wire-Haired Fox Terriers (raw data).
3. Manipulation Tests - Basenjjs (raw data).
4. Manipulation Tests - Beagles (raw data).
5. Manipulation Tests - Cocker Spaniels (raw data).
6. Manipulation Tests - Basenji on Cocker Spaniel F1 hybrids, BCS cross (raw data).
7. Manipulation Tests Cocker Spaniel on Basenji F1 hybrids, CSB cross (raw data).
8. Manipulation Tests - Backcross, BCS / CS (raw data).
9. Manipulation Tests - Backcross, CSB / B (raw data).
10. Manipulation Tests - F2 hybrids, CSB / CSB (raw data).
11. Manipulation Tests - F2 hybrids, BCS / BCS (raw data).

12. Manipulation Tests - Miscellaneous - puppies cross fostered (*not included in main study*).
13. Motor Skill Tests - Shetland Sheep Dogs 9raw data).
14. Motor Skill Tests - Wire-Haired Fox Terriers (raw data).
15. Motor Skills Tests - Basenjjs (raw data).
16. Motor Skill Tests - Beagles (raw data).
17. Motor Skill Tests - Cocker Spaniels (raw data).
18. Motor Skill Tests - Basenji on Cocker Spaniel F1 hybrids, BCS cross (raw data).
19. Motor Skill Tests - Cocker Spaniel on Basenji F1 hybrids, CSB cross (raw data).
20. Motor Skill Tests - Backcrosses, BCS / CS (raw data).
21. Motor Skill tests - Backcross CSB / B (raw data).
22. Motor Skill Tests - F2 hybrids, CSB / CSB (raw data).
23. Motor Skill Tests - F2 hybrids, BCS / BCS (raw data).
24. Following Tests - Shetland Sheep Dogs (raw data).
25. Following Tests - Wire-Haired Terriers (raw data).
26. Following Tests - Basenjjs (raw data).
27. Following Tests - Beagles (raw data).
28. Following Tests - Cocker Spaniels 9raw data).
29. Following Tests - Basenji on Cocker Spaniel F1 hybrids, BCS cross (raw data).
30. Following Tests - Cocker Spaniel on Basenji F1 hybrids, CSB cross (raw data).
31. Following Tests - Backcross, BCS / CS (raw data).
32. Following Tests - Backcross, CSB / B (raw data).
33. Following Tests - F2 hybrids CSB / CSB (raw data).
34. Following Tests - F2 hybrids BCS/ BCS (raw data).
35. Following Tests - Puppies cross fostered (*not included in main study*).
36. Following Tests - Puppies raised together (*not included in main study*).
37. Following Tests - Scoring instructions and Summary sheets.

BOX #15:

1. Adult Phenotypes - Shetland Sheep Dogs.
2. Adult Phenotypes - Wire-Haired Fox Terriers.
3. Adult Phenotypes - Basenjjs.
4. Adult Phenotypes - Beagles.
5. Adult Phenotypes - Cocker Spaniels.
6. Adult Phenotypes - Basenji on Cocker Spaniel F1 hybrids, BCS cross.
7. Adult Phenotypes - Cocker Spaniel on Basenji F1 hybrids, CSB cross.



8. Adult Phenotypes - Backcross, BCS / CS.
9. Adult Phenotypes - Backcross, CSB / B.
10. Adult Phenotypes - F2 hybrids, CSB / CSB.
11. Adult Phenotypes F2 hybrids, BCS / BCS.
12. Directions: Record of hair length.
13. Early Somatotypes.
14. Somatotypes - Shetland Sheep Dogs.
15. Somatotypes - Wire-Haired Fox Terriers.
16. Somatotypes - Basenjis.
17. Somatotypes - Beagles.
18. Somatotypes - Cocker Spaniels (in last folder, dogs raised together).
19. Somatotypes - Basenji on Cocker Spaniel F1 hybrids, BCS cross.
20. Somatotypes - Cocker Spaniel on Basenji F1 hybrids, CSB cross.
21. Somatotypes - Backcross, BCS / CS.
22. Somatotypes - Backcross, CSB / B.
23. Somatotypes - F2 hybrids CSB / CSB.
24. Somatotypes - F2 hybrids BCS / BCS.
25. Miscellaneous data from neonatal period (analysis of heart rate, vocalization, etc.).

BOX #16:

1. Reactions to veterinary treatment - Shetland Sheep Dogs.
2. Reactions to veterinary treatment - Wire-Haired Terriers.
3. Reactions to veterinary treatment - Basenjis.
4. Reactions to veterinary treatments - Beagles.
5. Reactions to veterinary treatments - Cocker Spaniels.
6. Reactions to veterinary treatments - Scotch Terriers.
7. Reactions to veterinary treatments - Basenji pups raised by Cocker Spaniel.
8. Reactions to veterinary treatments - Basenji pups raised by Beagle.
9. Reactions to veterinary treatments - Cocker Spaniel raised by Basenji.
10. Reactions to veterinary treatments - Cocker Spaniel and Beagle pups raised together.
11. Reactions to veterinary treatments - Basenji on Cocker Spaniel F1 hybrids, BCS cross.
12. Reactions to veterinary treatments - Cocker Spaniel on Basenji F1 hybrids, CSB cross.
13. Reactions to veterinary treatments - Backcross, BCS / CS.
14. Reactions to veterinary treatments - Backcross, CSB / B.
15. Reactions to veterinary treatments - F2 hybrids, CSB / CSB.

16. Reactions to veterinary treatment F2 hybrids, BCS / BCS.
17. Miscellaneous records of early research and research plans.
18. Administration - Dog Routines.
19. Weight Tables - Developmental analysis of young puppies.
20. Activity ratings - Analysis.
21. Test Scores - Preliminary analysis.

BOX #17:

1. Sonograms of dog vocalizations (*not included in main study*).
2. Cards for coat color analysis of Jackson Laboratory dogs (for parent and sibling of each dog).

OVERSIZE

1. Master Log. (Not yet boxed, placed in library storage room.)