

CURRICULUM VITA

Jerry Hirsch
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10/26/07 Revised with additions by Deborah (Zander) Dexter, Secretary to Dr. Hirsch, 1982-2004.

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Biographical Information

Jerry Hirsch

University of Illinois at Urbana-Champaign
Depts of Psychology & of Animal Biology (formerly Ecology, Ethology and Evolution).

Born: New York, NY, 20 Sept 1922, Army Air Corps 1942-43.
Columbia Grammar & Prep Schl, New York City, 1934-38.
Johns Hopkins U., Baltimore, MD, 1938-40; U. of Paris, France, 1949-50.
B.A. Highest Honors 1952 & Ph.D. 1955, Psych, U. of California, Berkeley.

Columbia University 1956-60 -- Asst Prof Psych
University of Illinois at Urbana-Champaign 1960-present:
 Assoc Prof Psychology & Zoology 1960-63
 Prof of Psychology 1963
 Prof of Zoology 1966
 Prof of Ecology, Ethology, Evolution 1976 (EEE renamed Animal Biology 1999)
 Prof Emeritus (active) 1993 – 2004

Honors and Recognition:

Animal Behavior Society: Exec Comm 1967-76, Rep-at-large 1967; Editor of Animal Behaviour 1968-72; 2nd Pres elect, 1st Pres elect, Pres, Past Pres 1973-76; Chairman, then member, of nominating comm 1976-79; Rep to AAAS 1975-93, renewed 1993-96.

(a) NSF Postdoc U. of Calif, Berkeley, 1955-57; (b) NIH Fellow Cntr Adv Stud Beh Sci, Stanford U. 1960-61; (c) Soc Sci Res Council Auxiliary Res Award 1962; (d) Brit Sci Council visiting res scholar Zool Dept, U. of Edinburgh, 1968; (e) Direct NIMH pre- & post-doc Biopsych Res Trng Prog 1966-78, Co-Direct NIMH pre- & post-doc Trng Prog for Res on Institutional Racism 1977-86, U. of Illinois; (f) Membr US Delegation to Internat Ethological Conf Comm 1975-81; (g) Membr US Natl Comm to Internat Union Biol Sci of Natl Res Council 1976-82; (h) Editorial Advisory Board, Behavior Genetics 1971-1992; (i) Editor for Am Psych Assoc of Journal of Comparative Psychology 1983-88; (j) Rep to Exec Comm, Div 6, Am Psych Assoc 1983-86; (k) Robert Choate Tryon Memorial Lecturer, Dept of Psych, U. of CA, Berkeley 1987; (l) Doctorat Honoris Causa, U. Rene Descartes (Paris V), France 1987; (m) Organizer, chair and contributor to invited behavior-genetic analysis symposiums both at 29th Psychonomic Society Annual Meeting, Seattle WA 1987 and at XXIV International Congress of Psychology, Sydney, Australia 1988 (jointly sponsored by the International Society for Comparative Psychology); (n) Invited address (Fellow's lecture) 25th annual Animal Behavior Society meeting 1989; (o) Humanities lecturer to (i) university, (ii) biology & psych, (iii) Dean's lunch, TV appearance -- Ferris St. U, Big Rapids MI Apr '89; (p) Lecturer to (i) univ, (ii) psychology -- Northern Michigan U, Marquette MI Mar '91; (q) Lecturer to Oberlin College, Oberlin, OH Nov '91; (r) Awarded Officier dans l'Ordre des Palmes Académiques, Embassy of France to USA, 1994; (s) Guest Editor for Genetica Special Issue: "Uses and Abuses of Genetics," 1997; (t) Invited speaker Brown University, Center for the Study of Human Development, Education Department, Providence, RI 2001; (u) Invited speaker at APA/ISCP 110th Annual Mtg Chicago, IL 2002; (v) Recipient of Behavior Genetics Association 2006 Dobzhansky Award for senior outstanding research accomplishment in the field of behavioral genetics, announcement at 36th Annual Conference, 6/20-24/2006 Univ of Connecticut, Storrs.

Who's Who Listings: (a) Who's Who in Am Educ-Leaders in Am Sci Edition; (b) National Register of Sci and Tech Personnel; (c) Contemp Authors; (d) Who's Who in the Midwest; (e) World Who's Who in Sci; (f) Am Men and Women of Sci; (g) Who's Who in Am; (h) Personalities of the West and Midwest; (i) Who's Who in Am Higher Educ; (j) Community Leaders of Am.

Brief History

Dr. Hirsch was a student of R. C. Tryon, L. J. Postman and E. C. Tolman in Psychology and Curt Stern in Genetics at University of California, Berkeley, earning his Ph.D. 1955. At Columbia from 1956-60 Dr. Hirsch was a colleague in Psychology and laboratory associate in Zoology of Th. Dobzhansky, L. C. Dunn and H. Levene. (Hirsch 1966 Cont Psych review article). A story told by Dr. Hirsch describes himself as an associate professor when Th. Dobzhansky inquired of him as to what species Dr. Hirsch would be using in selection experiments. Dr. Hirsch had

replied, Drosophila melanogaster. Dobzhansky, with a heavy accent, expressed his surprise at the choice by exclaiming, “Uff, the ‘garbage can’ species.” By this Dr. Hirsch would explain that Dobzhansky meant, “how can you expect to derive meaningful selection data from a species that has adapted to a multitude of environments and is found buzzing around the world’s garbage cans.” As Dr. Hirsch’s research progressed at Columbia, Dobzhansky incorporated some of Dr. Hirsch’s research design and experimented himself with D. melanogaster. [Debbie (Zander) Dexter, Hirsch Secretary 1982-2004]. Later in life Dr. Hirsch would become known as the “Founder and Pioneer of Behavior-Genetic Analysis” (Hirsch Conference: UIUC 1993). It is quite fitting that in 2006 Dr. Hirsch received the Behavior Genetics Association’s prestigious Dobzhansky Award, a senior award for outstanding research accomplishment in the field of behavioral genetics.

Dr. Hirsch held office or participated in various professional organizations including the Animal Behavior Society, Behavior Genetics Association, International Ethological Conferences, Psychonomic Society, American Psychological Association, International Congress of Psychology, International Society for Comparative Psychology, and the American Association for the Advancement of Science.

Animal Behavior Society: Exec Comm 1967-76, Rep-at-large 1967; Editor of Animal Behaviour 1968-72; 2nd Pres elect, 1st Pres elect, Pres, Past Pres 1973-76; Chairman, then member, of nominating comm 1976-79; Rep to AAAS 1975-93, renewed 1993-96.

Honorary degree Doctorat Honoris Causa, U. Rene Descartes (Paris V), France 1987, Awarded Officier dans l'Ordre des Palmes Académiques, Embassy of France to USA, 1994; Recipient of Behavior Genetics Association 2006 Dobzhansky Award for senior outstanding research accomplishment in the field of behavioral genetics, announcement at 36th Annual Conference, 6/20-24/2006 Univ of Connecticut, Storrs

Editorial duties included Behavior Genetics, Journal of Comparative Psychology, Animal Behavior, Guest Editor for Genetica Special Issue: “Uses and Abuses of Genetics,” 1997;

Dr. Hirsch taught graduate and undergraduate courses of Comparative Psychology and Behavior Genetic Analysis (Psych 345 lect Comparative Psychology, Psych 342 lect/347 lab Behavior Genetic Analysis, Psych/EEE 290/291 conf, Psych 396, 493, 499, lect Biol 490 conf) and served as mentor and advisor for Master’s and Doctorate students (see list in UIUC Archives). Visiting scholars shared in ongoing research. Dr. Hirsch also trained researchers through the NIMH Biopsychology Research Training Program (1966-78) and NIMH Institutional Racism Program (1977-86).

Throughout the 1970s and 80s Hirsch debated at various college campuses and provided direction, stability, and leadership to counter a racist movement regarding race and intelligence based on what Dr. Hirsch referred to as, “science without scholarship.” In a 1971 lecture at the University of Wisconsin, Madison a reporter wrote “Scholarship at the University level is reaching a new low, or so it would appear as evidenced by the widespread acceptance of a

genetic inferiority theory called Jensenism that has spread through this country like wildfire. Jerry Hirsch, professor of psychology and zoology, University of Illinois, Urbana-Champaign, is one man who is trying to bring the fire under control.” The article concludes by saying, “Hirsch responded to a comment from the audience during the presentation who had remarked: ‘Rather scandalous, isn’t it?’ And Hirsch concluded: ‘It’s rather like Watergate: either he [Arthur Jensen] knew what he was doing and is therefore responsible, or he didn’t know and is therefore irresponsible.’” (Daily Cardinal, 1971) In 1987 Dr. Hirsch was quoted as saying, “Ideas that are false but simple do much better in the marketplace than those that are true but complex, and that’s the problem.” (The Daily Californian, 1987). Throughout his career, Dr. Hirsch persisted in research and clarification of complex genetic issues that were being misused to promote dangerous racist beliefs and policies (Hirsch, 2/21/1981 letter draft to Montagu Cobb; Hirsch, Unfrock the Charlatans, SAGE Relations Abstracts, 1981). Later in life, when asked by a journalism student, Dr. Hirsch agreed that there had been pain involved in his pursuit against scholarly racism. When then asked, “Why did you do it?” – Dr. Hirsch replied, “I did it because I could.”

In the 1990s and early 2000s Dr. Hirsch re-evaluated his own earlier genetic study published in Science, 1963. Although the math remained accurate, Dr. Hirsch produced a revised interpretation of the math and revealed a possible new benchmark for human genetic uniqueness, diversity, similarity, and repeatability (Hirsch ISCP Bulletin 2003, Hirsch, 2004). The study also illustrated Dr. Hirsch’s persistent belief in the complexity of genetic combinations and the dangers of simplistic approaches to representing genetic variability and resulting misuses of the concept of heritability.

Research Interests

Behavior-genetic analysis and animal behavior

By 1958 Dr. Hirsch had obtained populations of *Drosophila melanogaster* and combined them to form a fly population that he maintained and researched throughout his career (APA/ISCP Annual Mtg 2002 presentation notes). Through repeated selection experiments the population was divided into negatively geotactic (high) and positively geotactic (low) lines for extreme expressions of geotaxis: a response, (in this case upward or downward), to the attraction (in this case light) due to gravity.

The objective of our research is to analyze and understand relations between heredity and behavior (both instinctive and learned) – the behavior-genetic and evolutionary analyses of *Drosophila melanogaster*, the metazoan most amenable to genetic study. Working initially with a completely objective measure of individual differences in geotaxis as a selection criterion and also with courtship measures of reproductive isolation between geoselected populations, we have clear evidence for evolution in the laboratory, now under detailed genetic analysis (*i.e.*, three allozyme systems have been found segregated between the two evolved geopopulations, two on the second chromosome and one on the X chromosome). Using the proboscis extension reflex of feeding behavior as the response in excitatory conditioning (and extinction), we have reliably measured individual differences in performance as a selection criterion for breeding a population with a high proportion of conditionable flies. Recently, aging across the lifespan has been used as a parameter. (Hirsch VITA excerpt mid 1990s)

In 1979 a new genetic homeostasis, a reversal in the genetic homeostasis seen originally, was indicated in the low geotaxis fly line -- a highly uncharacteristic and unanticipated event -- (Ricker & Hirsch 1988).

In the late 1990s and early 2000s the Hirsch geotaxis fly lines became subjects in a study by The Neurosciences Institute, CA and the Dept of Genetics, Yale Univ School of Medicine. Emerging cDNA microarray technology was directed at genetic sites previously identified by Hirsch research as being probable sites for geotaxis genes. The study resulted in the identification of three genes involved in *Drosophila melanogaster* geotaxis. Nature 2002 publication reads, "Identifying the genes involved in polygenic traits has been difficult. In the 1950s and 1960s, laboratory selection experiments for extreme geotactic behavior in fruit flies established for the first time that a complex behavioral trait has a genetic basis. But the specific genes responsible for the behavior have never been identified using this classical model. To identify the individual genes involved in geotactic response, we used cDNA microarrays to identify candidate genes and assessed fly lines mutant in these genes for behavioral confirmation. We have thus determined the identities of several genes that contribute to the complex, polygenic behavior of geotaxis." (Toma, Daniel P., White, Kevin P., Hirsch, Jerry, Greenspan, Ralph J., Nature 2002) (Dan Toma had been an undergraduate student of Dr. Hirsch's and had worked with the lines in class projects. Dan later proposed researching the Hirsch geotaxis fly lines to his colleague Ralph Greenspan.) (Debbie (Zander) Dexter, Secretary)

As of 2004, fly line populations remained under research by Dan Toma, The

Neurosciences Institute, CA. Institutional Racism Program (IRP) student Duane Jackson, now at Morehouse College, Atlanta, has maintained Hirsch fly lines over the years. In the early 2000s Dale H. Clayton, Univ of California at Riverside, who had worked with Dr. Hirsch in the 1970s, requested Hirsch geotaxis fly line populations and mazes and began studying circadian rhythms using Hirsch flies as subjects. In the mid 1990's, Kate Beckingham's lab, Rice University, used Hirsch flies as possible subjects to be sent into outer space to study genes associated with balance and structures of the middle ear. In the early 2000s it was noticed that, probably due to intense inbreeding (Clayton), the reproductive age of the Hirsch fly geotaxis lines was equivalent to wild-type fly old age, and therefore the lines had achieved an increased overall longevity.

Hirsch geotaxis and phototaxis mazes were distributed among Dan Toma, Duane Jackson, Dale Clayton, and Scott Stoltenberg (Ph.D. student of Dr. Hirsch and currently at Black Hills State University, SD). Mike Tully, Cold Spring Harbor Laboratory, may also have received mazes in years past. Mazes may be held by the Hirsch family and UIUC Archives. Application of maze design was used in the late 1990s/early 2000s to study bee geotaxis/phototaxis by Gene Robinson, University of Illinois.

Institutional Racism Program (IRP)

Dr. Hirsch and James Anderson (Ed Psych, UIUC) created and co-directed The Institutional Racism Program (IRP) research, at the University of Illinois from 1977-1986. Its purpose was to develop minority researchers and to train social, behavioral and biological scientists as well as educators to understand and conduct research on both institutional and scientific racism in their relation to mental health while working through the disciplines/subdisciplines of Behavioral Sciences/Social Behavioral Sciences, Genetics/Behavior Genetics, and Psychology. Research focused on historical and intellectual roots of American behaviorism in psychology and its anti-heredity, environmentalist bias, as well as the early 'justification' for pure line theory in genetics and some interrelations between the two fields. Also considered have been some of the history and problems associated with the intelligence concept, as well as the capital importance of biological controls in studies of human heredity. (Hirsch description, Institutional Racism Program)

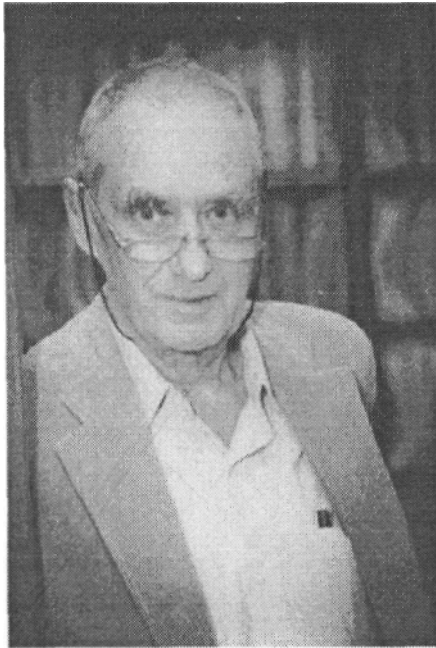
The highly successful IRP received important funding during the Carter presidency but funding was slowly declined and was phased out during the Reagan years, despite extremely high NIMH Site Visit scores (see UIUC Archives). Dr. Donchin, Psychology Department Head, unsuccessfully appealed to the agency for the continuation of the program, but to no avail (Debbie (Zander) Dexter, Secretary). Class guidelines, student papers, participating faculty, funding proposals and awards, site visit scores, and correspondence are available at UIUC Archives.

In 1994 Dr. Hirsch headed a group of scholars, black coaches, and politicians to expose and end the use of racially biased and educationally unjustified SAT and ACT cutoff scores by the National Collegiate Athletic Association (NCAA) to determine who can participate in interscholastic sports and receive scholarships. By the summer of 2003 the NCAA eligibility formula had been changed and began to combine high school grade point

averages with test scores, replacing the arbitrary minimum test score requirements. By fall of 2007 over 750 colleges had accepted a “test-optional” approach to bachelor-degree college admission for all students due to a growing awareness of test results having bias toward race, gender, language and income. The number of “test-optional” colleges steadily increases. (Fair Test: National Center for Fair & Open Testing, News Release 9/24/2007, Robert Schaeffer, contact: (239) 395-6773.)

Human uniqueness, diversity, similarity, repeatability, and heritability

In the late 1990s and early 2000s Hirsch research re-examined individual difference research reported by Hirsch in Science 1963. The 1963 math proved accurate, but Hirsch discovered that its interpretation was flawed. The 2001 study resulted in a reinterpretation of human genetic uniqueness, diversity, similarity, and repeatability. It was found that humans are more similar to each other than had been generally previously believed. The work also underscored the complexity of genetic combinations, and explained the dangers of simplistic approaches to representing genetic variability and treatments that have been ignored for many decades of the concept of heritability. (See Hirsch, 1970, 1997, Hirsch, 2004, Hirsch ISCP Bulletin 2003, Hirsch, newsletter Summer 2001). Two invited lectures on the re-examination and reinterpretation were presented by Dr. Hirsch (Brown University 2001; APA/ISCP Annual Mtg 2002, full text copies of both presentations at UIUC Archives).



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Behavior-genetic analysis and animal behavior

The objective of our research is to analyze and understand relations between heredity and behavior (both instinctive and learned)-the behavior-genetic and evolutionary analyses of *Drosophila melanogaster*, the metazoan most amenable to genetic study. Working initially with a completely objective measure of individual differences in geotaxis as a selection criterion and also with courtship measures of reproductive isolation between geoselected populations, we have clear evidence for evolution in the laboratory, now under detailed genetic analysis (*i.e.*, three allozyme systems have been found segregated between the two evolved geopopulations, two on the second chromosome and one on the X chromosome). Using the proboscis extension reflex of feeding behavior as the response in excitatory conditioning (and extinction), we have reliably measured individual differences in performance as a selection criterion for breeding a population with a high proportion of conditionable flies. Recently, aging across the lifespan has been used as a parameter.

Lofdahl, K.L., D. Hu, L. Ehrman, J. Hirsch, & L. Skoog. 1992. Incipient reproductive isolation and new genetic homeostases in laboratory *Drosophila* populations. *Anim. Behav.* 44:783-786.

Lofdahl, K. M. Holliday, & J. Hirsch. 1992. Selection for conditionability in *Drosophila melanogaster*. *J. Comp. Psychol.* 106:172-183.

Stoltenberg, S.F. & J. Hirsch. 1996. A gene correlate of geotaxis near *Adh* (2-50.1) in *Drosophila melanogaster*. *J. Comp. Psychol.* (in press).

Stoltenberg, S.F. & J. Hirsch. 1996. A Y chromosome effect on geotaxis in *Drosophila melanogaster* whose detection depends on genetic and/or cytoplasmic background. *Anim. Behav.* (in press).

Publications and Presentations

Refereed Journals or Technical Publications

1955

Canter, R. R., & Hirsch, J. (1955). An experimental comparison of several psychological scales of weight. American Journal of Psychology, 68, 645-649.

Hirsch, J., Lindley, R. H., & Tolman, E. C. (1955). An experimental test of an alleged innate sign stimulus. Journal of Comparative and Physiological Psychology, 48, 278-280.

1956

Hirsch, J., & Tryon, R. C. (1956). Mass Screening and reliable individual measurement in the experimental behavior genetics of lower organisms. Psychological Bulletin, 53, 402-410.

1957

Hirsch, J. (1957). Careful reporting and experimental analysis -- A comment. Journal of Comparative and Physiological Psychology, 50, 415.

Hirsch, J. (1957). Learning without awareness and extinction following awareness as a function of reinforcement. Journal of Experimental Psychology, 54, 218-224. (Publication resulting from Hirsch Dissertation Thesis)

1958

Hirsch, J. (1958). Recent developments in behavior genetics and differential psychology. Diseases of the Nervous System, Monograph Supplement, 19, 17-23.

Hirsch, J., & Boudreau, J. C. (1958). Studies in experimental behavior genetics: I. The heritability of phototaxis in a population of Drosophila melanogaster. Journal of Comparative and Physiological Psychology, 51, 647-651.

1959

Hirsch, J. (1959). Studies in experimental behavior genetics: II. Individual differences in geotaxis as a function of chromosome variations in synthesized Drosophila populations. Journal of Comparative and Physiological Psychology, 52, 304-308.

1961

Hirsch, J. (1961). 3. Discussion: The role of assumptions in the analysis and interpretation of data. American Journal of Orthopsychiatry, 31, 474-480.

Hirsch, J., & Erlenmeyer-Kimling, L. (1961). Sign of taxis as a property of genotype. Science, 134, 835-836.

Erlenmeyer-Kimling, L., & Hirsch, J. (1961). Measurement of the relations between chromosomes and behavior. Science, 134, 1068-1069.

1962

Erlenmeyer-Kimling, L., Hirsch, J., & Weiss, J. M. (1962). Studies in experimental behavior genetics: III. Selection and hybridization analyses of individual differences in the sign of geotaxis. Journal of Comparative and Physiological Psychology, 55, 722-731.

Hirsch, J., & Erlenmeyer-Kimling, L. (1962). Studies in experimental behavior genetics: IV. Chromosome analyses for geotaxis. Journal of Comparative and Physiological Psychology, 55, 732-739.

Hirsch, J. (1962). Discussion of Scott, J. P. Behavior genetics and the relation between genotype and behavioral phenotype. American Journal of Orthopsychiatry, 32, 891-892.

1963

Hirsch, J. (1963). Behavior genetics and individuality understood: Behaviorism's counterfactual dogma blinded the behavioral sciences to the significance of meiosis. Science, 142, 1436-1442. (With #20a, also see #0A, Genetics and Inteligence: A review, 1963)

1964

Hirsch, J. (1964). Breeding analysis of natural units in behavior genetics. American Zoologist, 4, 139-145.

Hirsch, J. (1964). Intellectual functioning and the dimensions of human variation. Paper presented at the Wenner-Gren Foundation for Anthropological Research at Burg Wartenstein Symposium No. 27: "Behavioral Consequences of Genetic Differences in Man" 9/16-28/1964.

1965

Hirsch, J. (1965). Biopsychology comes of age. (Review of Genetics and the social behavior of the dog by J. P. Scott & J. L. Fuller). Science, 148, 818-819.

1967

Hirsch, J. (1967). Behavior-genetic, or "experimental", analysis: The challenge of science versus the lure of technology. American Psychologist, 22, 118-130.

Hostetter, R. C., & Hirsch, J. (1967). Genetic analysis of geotaxis in Drosophila melanogaster:

Complementation between forward and reverse selection lines. Journal of Comparative and Physiological Psychology, 63, 66-70.

1969

Hirsch, J., & Ksander, G. (1969). Studies in experimental behavior genetics: V. Negative geotaxis and further chromosome analyses in Drosophila melanogaster. Journal of Comparative and Physiological Psychology, 67, 118-122.

1970

Hirsch, J. (1970). Behavior-genetic analysis and its biosocial consequences. Seminars in Psychiatry, 2, 89-105.

Hirsch, J. (1969). Behavior-genetic analysis and its biosocial consequences. "Information Retrieval Center on the Disadvantaged Bulletin" (of Teachers College, Columbia University), 1969, 4, pp. 3-4, 16-20. (Reprint in whole or part of original article published in Seminars in Psychiatry, 1970)

Hirsch, J. (1970). Behavior-genetic analysis and its biosocial consequences. In Neil Chalmers, Roberta Crawley, & Steven P. R. Rose, (Eds.), The Biological Bases of Behaviour. London & New York: The Open University Press and Harper & Row, 1971, 243-245. (Reprint in whole or part of original article published in Seminars in Psychiatry, 1970)

Hirsch, J. (1971). Behavior-genetic analysis and its biosocial consequences. In Leonard W. Schmalz, (Ed.), Scientific psychology and social concern. (Experimental psychology and social relevance: An introductory reader for the 70's). New York: Harper & Row, 1971, 299-312. (This is a reprint in whole or part of original article published in Seminars in Psychiatry, 1970)

Hirsch, J. (1971). Behavior-genetic analysis and its biosocial consequences. In Robert Cancro, (Ed.), Intelligence, New York: Grune and Stratton, 1971, 88-106. (Reprint in whole or part of original article published in Seminars in Psychiatry, 1970).

Hirsch, J. (1971). Behavior-genetic analysis and its biosocial consequences. In S. Chess & A. Thomas, (Eds.), Annual progress in child psychiatry and child development 1971, 4th Vol, New York: Brunner/Mazel, 1971, 63-83. (This is a reprint in whole or part of original article published in Seminars in Psychiatry, 1970).

Hirsch, J. (1972). Genetics and competence: Do heritability indices predict educability? In J. McV. Hunt, (Ed.), Human Intelligence, New Brunswick, NJ: Transaction Books, 1972, 7-29. (Reprint in whole or part of original article, Behavior-genetic analysis and its biosocial consequences, published in Seminars in Psychiatry, 1970).

Hirsch, J. (1972). Behavior-genetic analysis and its biosocial consequences. In Thomas Weaver, (Ed.), To see ourselves: Anthropology and modern social issues. Glenview,

Illinois: Scott, Foresman, 1972, 209-218. (Reprint in whole or part of original article published in Seminars in Psychiatry, 1970).

Hirsch, J. (1972). Behavior-genetic analysis and its biosocial consequences. In Kent S. Miller and Ralph M. Dreger, (Eds.), Comparative Studies of Blacks and Whites in the United States, New York: Seminar Press, 1972, 33-50. (Reprint in whole or part of original article published in Seminars in Psychiatry, 1970)

Hirsch, J. (1972). Behavior-genetic analysis and its biosocial consequences. In William R. Looft, (Ed.), Developmental psychology: A book of readings, Hinsdale, Illinois: Dryden Press, 1972, 99-117. (Reprint in whole or part of original article published in Seminars in Psychiatry, 1970)

Hirsch, J. (1973). Behavior-genetic analysis and its biosocial consequences. In Philip G. Zimbardo & Christina Maslach, (Eds.), Psychology for our times: Readings. Glenview, Illinois: Scott, Foresman and Company, 1973, 36-47. (Reprint in whole or part of original article published in Seminars in Psychiatry, 1970)

Hirsch, J. (1974). Behavior-genetic analysis and its biosocial consequences. In Clarence J. Karier, (Ed.), Shaping the educational state: 1900-1970. New York: Free Press, 1974, 348-367. (Reprint in whole or part of original article published in Seminars in Psychiatry, 1970)

Hirsch, J. (1976). Behavior-genetic analysis and its biosocial consequences. In N. J. Block & Gerald Dworkin, (Eds.), The IQ Controversy: Critical readings. New York: Pantheon Books, 1976, 156-178. (Reprint in whole or part of original article published in Seminars in Psychiatry, 1970)

1971

Yeatman, F. R., & Hirsch, J. (1971). Attempted replication of, and selective breeding for, instrumental conditioning of Drosophila melanogaster. Animal Behaviour, 19, 454-462.

Manning, A., & Hirsch, J. (1971). The effects of artificial selection for slow mating in Drosophila simulans. II. Genetic analysis of the slow mating line. Animal Behaviour, 19, 448-453.

1973

Hirsch, J. (1973). Nonadaptive tropisms and the evolution of behavior. Annals of the New York Academy of Sciences, 223, 84-88.

Ash, J. F., McClure, Wm. O., & Hirsch, J. (1973). Chemical studies of a factor which elicits feeding behaviour in Dugesia dorotocephala. Animal Behaviour, 1973, 21, 796-800.

1977

- Hirsch, J., & McCauley, L. A. (1977). Successful replication of, and selective breeding for, classical conditioning in the blowfly Phormia regina. Animal Behaviour, 25, 784-785.
- McGuire, T. R., & Hirsch, J. (1977). Behavior-genetic analysis of Phormia regina: Conditioning, reliable individual differences, and selection. Proceedings of the National Academy of Sciences USA, 74, 5193-5197.

1978

- Hirsch, J., Vetta, A. (1978). Gli errori concettuali nell'analisi genetico-comportamentale. (The misconceptions of behavior genetics). Ricerche di psicologia, 5, 47-67.
- Hirsch, J., Vetta, A. (1977). The misconceptions of behavior genetics. (English text, University of Illinois at Urbana-Champaign) (Published in Italian as Gli errori concettuali nell'analisi genetico-comportamentale. Ricerche di psicologia, 5, 1978, 47-67.)

1980

- Platt, S. A., Holliday, M., & Drudge, O. W. (1980). Discrimination learning of an instrumental response in individual Drosophila melanogaster. Journal of Experimental Psychology: Animal Behavior Processes, 6, 301-311. (Hirsch Lab)

1981

- Hirsch, J. (1981). Behavioral genetics. The Academic American Encyclopedia, B-3, 169.
- Hirsch, J. (1981). To "unfrock the charlatans" SAGE Race Relations Abstracts, 6(2), 1-65.
London: Sage Publications, Ltd.

1982

- Tully, T. P., Zawistowski, S. L., & Hirsch, J. (1982). Behavior-genetic analysis of Phormia regina: III. A phenotypic correlation between the central excitatory state (CES) and conditioning remains in replicated F₂ generations of hybrid crosses. Behavior Genetics, 12, 181-191.
- Vargo, M., & Hirsch, J. (1982). Components of the proboscis extension reflex. Drosophila Information Service, 58, 149-150. (With #97)
- Vargo, M., & Hirsch, J. (1982). A mounting technique to observe proboscis extension. Drosophila Information Service, 58, 174. (See #96)
- Tully, T. P., & Hirsch, J. (1982). Behavior-genetic analysis of Phormia regina: I. Isolation of pure-breeding lines for high and low levels of the central excitatory state (CES) from an unselected population. Behavior Genetics, 12, 395-415. (Errors in reprint references:

Tully & Hirsch, 1982 and Tully & Hirsch 1983 dates switched and the 1983 journal should be Behavioral Neuroscience)

Tully, T. P., & Hirsch, J. (1982). Behaviour-genetic analysis of Phormia regina II. Detection of a single, major-gene effect from behavioural variation for central excitatory state (CES) using hybrid crosses. Animal Behaviour, 30, 1193-1202.

Vargo, M., & Hirsch, J. (1982). Central excitation in the fruit fly, Drosophila melanogaster, Journal of Comparative and Physiological Psychology, 96, 452-459.

Zawistowski, S., & Hirsch, J. (1982). Responsiveness of Phormia regina to saline. Journal of Comparative and Physiological Psychology, 96, 850-851.

1983

Holliday, M., Vargo, M., & Hirsch, J. (1983). An automated system for stimulating several flies individually in studies of the proboscis extension reflex. Drosophila Information Service, 59, 140-141.

Vargo, M., Holliday, M., & Hirsch, J. (1983). Automatic stimulus presentation for the proboscis extension reflex in Diptera. Behavior Research Methods and Instrumentation, 15, 1-4.

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- Hirsch, J. (21 & 22 March, 1991). Join us for a foray into the intellectual minefields of the Nature-Nurture controversy. Professor Hirsch is an internationally well-known critic of the misuse of "scientific data" to support naïve positions in the debate of the relative importance of nature vs. nurture. Northern Michigan University, Marquette, Michigan. (Lecture announcement)
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