

Caplan (ed.), **The Sociobiology Debate: Readings on Ethical and Scientific Issues.** (New York: Harper and Row, 1978; 514 pp.).

4794. RUSE, MICHAEL. **Is Science Sexist? And Other Problems of Biological Science.** Boston: D. Reidel, 1981. 299 pp.

Rebuttal of some current critiques of the biological theory of evolution (neo-Darwinism). See esp. Chapter 10, "Are Homosexuals Sick?" (pp. 245-72). See also his: **Sociobiology: Sense or Nonsense?** (Boston: D. Reidel, 1979; 231 pp.).

4795. SYMONDS, DONALD. **The Evolution of Human Society.** New York: Oxford University Press, 1979. 358 pp.

Primatologist's presentation situating the emergence of the difference between men and women in the long hunting--and-gathering stage of human evolution. See Chapter 9, "Test Cases: Hormones and Homosexuals" (pp. 286-305).

4796. TRIVERS, ROBERT L. "The Evolution of Reciprocal Altruism," **Quarterly Review of Biology**, 46 (1971), 35-57.

Influential study by a Harvard ornithologist and sociobiologist, setting forth a general theory which has been used to explain the "inclusive fitness" of homosexuality.

4797. WEINRICH, JAMES D. **Human Reproductive Strategy: I. Environmental Predictability and Reproductive Strategy; Effects of Social Class and Race. II. Homosexuality and Non-Reproduction; Some Evolutionary Models.** Cambridge, MA: Harvard University, 1976. 231 pp. (unpublished Ph.D. dissertation--biology)

Part 1 mainly concerns heterosexual behavior. Part 2 is a theoretical exposition of the ways in which certain post-Darwinian evolutionary models--esp. Hamilton's kin selection--can be used to understand homosexuality, transvestism, and transsexualism.

4798. WILSON, EDWARD O. **On Human Nature.** Cambridge, MA: Harvard University Press, 1978. 260 pp.

Presentation of sociobiology for the lay reader by the Harvard entomologist who is its best known proponent. See pp. 142-47 for his argument in favor of "a strong possibility that homosexuality is normal in a biological sense."

#### C. TWIN STUDIES

Twins have for some time interested researchers as an opportunity for testing the inherited nature of specific traits--among them homosexual behavior. To be valid,

however, such studies must be on twins who are both monozygotic (i.e. from a single egg: "identical" twins) and reared apart. The difficulty of building up a sufficient pool of such individuals, as well as defects that have been detected in research designs, have thus far kept such reports from making any significant impact.

4799. DAVISON, K., et al. "A Male Monozygotic Twinship Discordant for Homosexuality: A Repertory Grid Study," **British Journal of Psychiatry**, 118 (1971), 675-82.

Reports on a pair of 18-year old male identical twins discordant for overt homosexuality. Subsequently, the deviant twin was apparently "cured" through aversion therapy.

4800. DIAMOND, MILTON. "Sexual Identity, Monozygotic Twins Reared in Discordant Sex Roles and a BBC Follow-up," **Archives of Sexual Behavior**, 11 (1982), 181-86.

Controversy over a pair of monozygotic twin boys, of whom one accidentally had his penis obliterated during circumcision. The child was reassigned as a girl. Concludes that nature rather than nurture determines one's sexual identity.

4801. FARBER, SUSAN. **Identical Twins Reared Apart**. New York: Basic Books, 1981. 383 pp.

Although this book discusses many striking behavioral similarities between twins, the evidence presented regarding homosexual behavior is inconclusive (pp. 221-24).

4801. GEDDA, LUIGI. **Studio dei gemelli**. Rome: Edizioni Orizzonte Medico, 1951. 1381 pp.

On pp. 738-39 the author summarizes the work of several previous investigators on homosexuality in monozygotic twins. The twins concordant for homosexuality were all male. There is also a useful 240-page bibliography on twin studies in general.

4802. HABEL, H. "Zwillingsuntersuchungen an Homosexuellen," **Zeitschrift für Sexualforschung**, 1 (1950), 168-80.

Presents five pairs of identical twins concordant for homosexuality.

4803. HESTON, L. L., and JAMES SHIELDS. "Homosexuality in Twins: A Family Study and a Registry Study," **Archives of General Psychiatry**, 18 (1968), 149-60.

Considers an unusual family of 14 siblings, including three pairs of male monozygotic twins, two pairs of which were homosexual.

4804. KALLMANN, FRANZ J. "Comparative Twin Study on the Genetic Aspects of Male Homosexuality," **Journal of**

- Nervous and Mental Disease**, 115 (1952), 283-98.  
From case histories of 85 twin male homosexuals, found that monozygotic twins were very similar in their sex behavior, even when reared apart. See also his: "Twin and Sibship Study of Overt Male Homosexuality," **American Journal of Human Genetics**, 4 (1952), 136-46. On the author, and the political opposition to his approach, see Elliot S. Gershon, "The Historical Context of Franz Kallmann and Psychiatric Genetics," **Archiv fur Psychiatrie und Nervenkrankheiten**, 229 (1981), 273-76.
4805. KLINTWORTH, GORDON K. "A Pair of Male Monozygotic Twins Discordant for Homosexuality," **Journal of Nervous and Mental Disease**, 135 (1962), 113-25.  
Study of a pair of 20-year old male twins in South Africa, one homosexual, the other heterosexual. Holds that this discordance does not invalidate the hypothesis of genetic determination of sexual orientation.
4806. LANGE, JOHANNES. **Verbrechen als Schicksal: Studien an kriminellen Zwillingen**. Leipzig: Georg Thieme Verlag, 1929. 96 pp.  
On pp. 73-76 the author describes a pair of monozygotic male twins discordant for homosexuality, which he assigns to brain damage suffered in early childhood by the twin who later became a hustler. The heterosexual twin exhibited no criminal activity.
4807. PERKINS, MURIEL W. "Homosexuality in Female Monozygotic Twins," **Behavior Genetics**, 3 (1973), 387-88.  
Describes a set of 45-year old identical female twins with a history of homosexuality.
4808. PUTERBAUGH, GEOFF. "Born Gay? Hand Preference and Sex Preference," **Cabirion**, 10 (1984), 12-18.  
Reexamines the research data on twins, concluding that there is a significant concordance for identical (though not for fraternal) twins for homosexuality.
4809. RAINER, JOHN D., et al. "Homosexuality and Heterosexuality in Identical Twins," **Psychosomatic Medicine**, 22 (1960), 251-59.  
Seeks to discount evidence for concordance of monozygotic twins for homosexuality.
4810. SANDERS, JACOB. "Homosexuelle Zwillingen," **Genetica**, 16 (1934), 401-34.  
Reports six pairs of monozygotic twins concordant for homosexuality. A seventh case was discordant but pseudo-homosexual, probably the result of earlier epileptic fits. The author upholds Hirschfeld's theories and classifications. A summary of the article also appeared under the title "Homosexueele tweelingen," **Nederlands Tijdschrift voor Geneeskunde**, 78 (1934), 3346-52.

4811. ZUGER, BERNARD. "Monozygotic Twins Discordant for Homosexuality: Report of a Pair and Significance of the Phenomenon," **Comprehensive Psychiatry**, 17 (1976), 661-69

Case study of a pair of male identical twins who showed differences in gender role behavior from early childhood, one following an essentially feminine-type pattern and later becoming homosexual, the other following a masculine pattern and becoming heterosexual. The difference does not seem due to familial factors.

#### D. BODY BUILD

A corollary of the "third sex" hypothesis popular in the early years of this century was the assumption that homosexuals, both male and female, represent an intermediate body type. While this hypothesis has not been confirmed, it is not impossible that some evidence may one day be forthcoming to indicate that homosexual body types show statistically significant differences from those of the rest of the population--though not necessarily in the direction of intermediacy between male and female.

4812. COPPEN, A. J. "Body Build of Male Homosexuals," **British Medical Journal**, no. 5164 (1959), 1443-45.  
In a study of patients admitted to a London hospital, it was found that homosexuals could not be distinguished by body build.
4813. DELLA PORTA, GIOVANNI BATTISTA. **De humana physiognomia**. Vico Equense, Italy: J. Cacchium, 1586. 272 pp.  
This once influential pseudo-scientific treatise (translated into several languages) compared human character types physiognomically to animal prototypes.
4814. EVANS, RAY B. "Physical and Biochemical Characteristics of Homosexual Men," **Journal of Consulting and Clinical Psychology**, 39 (1972), 140-47.  
Found that male homosexuals had less subcutaneous fat and smaller muscle/bone development and were longer in proportion to bulk.
4815. KENYON, F. E. "Physique and Physical Health of Female Homosexuals," **Journal of Neurology, Neurosurgery and Psychiatry**, 31 (1968), 487-89.  
Found that lesbians were significantly heavier, with bigger busts and waists, but less tall than controls, and with slightly bigger hips.
4816. KRETSCHMER, ERNST. **Korperbau und Character: Untersuchungen zum Konstitutionsproblem und zur Lehre**