

SSSS 35th Annual Meeting San Diego Nov 12-15, 1992

The Society For the Scientific Study of Sex
35th Annual Meeting
Hilton Tennis and Beach Resort
November 12-15, 1992
San Diego, CA

ABSTRACT

**SEXUAL DIMORPHISM IN THE DEVELOPING HUMAN BRAIN:
EVIDENCE FROM LATERAL SKULL X-RAYS**

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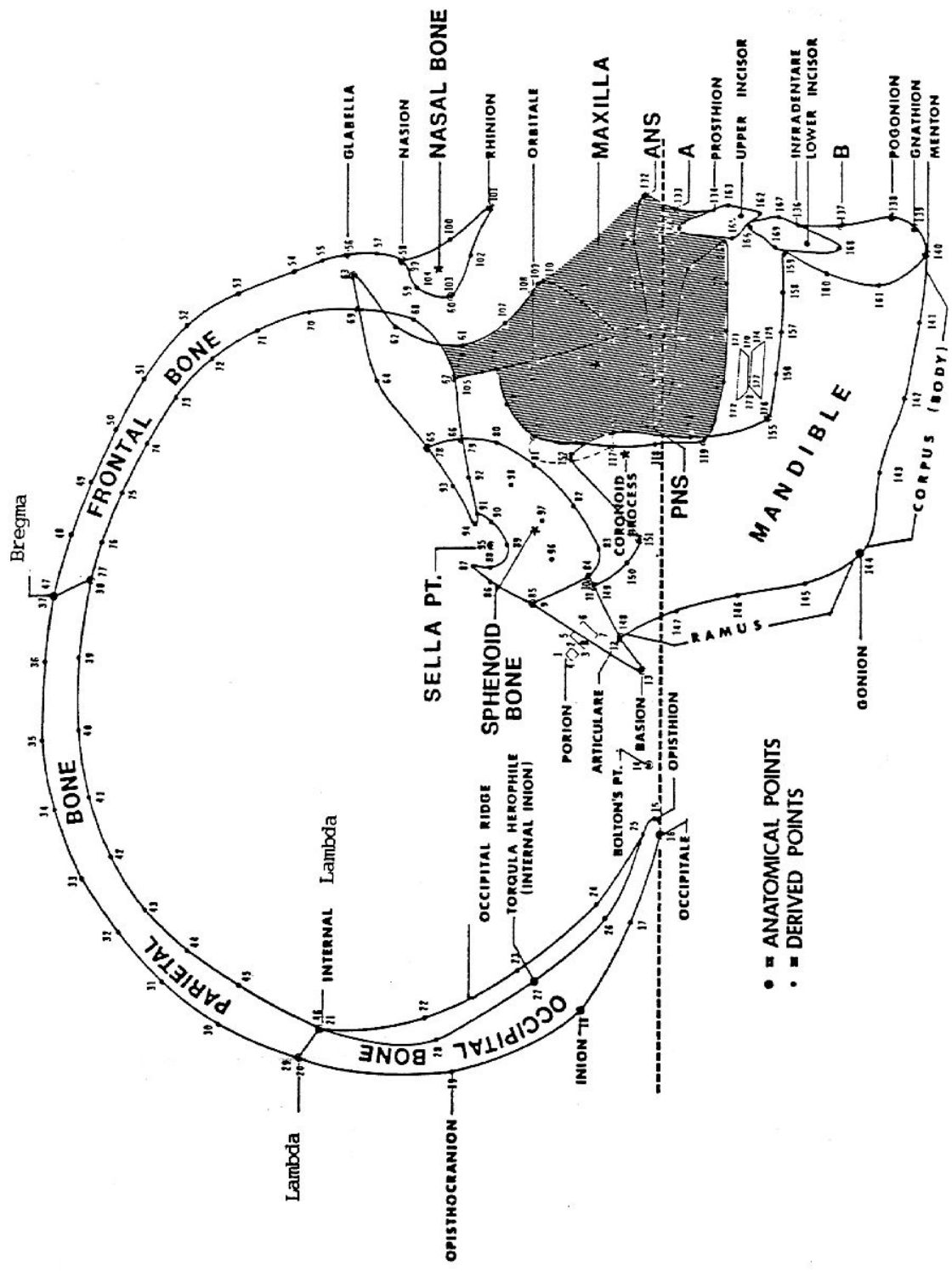
A basic normative study on the cranial-facial growth and development that utilized lateral skull x-ray technology was undertaken by the Krogman Growth Center, Children's Hospital, Philadelphia, PA during the 1970s by Solomon Katz, Ph.D. and Geoffrey F. Walker, Ph.D. This database was re-analyzed to test selected theoretical postulates of this investigator's SSAD (SomatoSensory Affectional Deprivation) theory of brain development and behavior that is held to have certain sexually dimorphic characteristics. These research projects were supported by the National Institute of Child Health and Human Development (NICHD), National Institutes of Health.

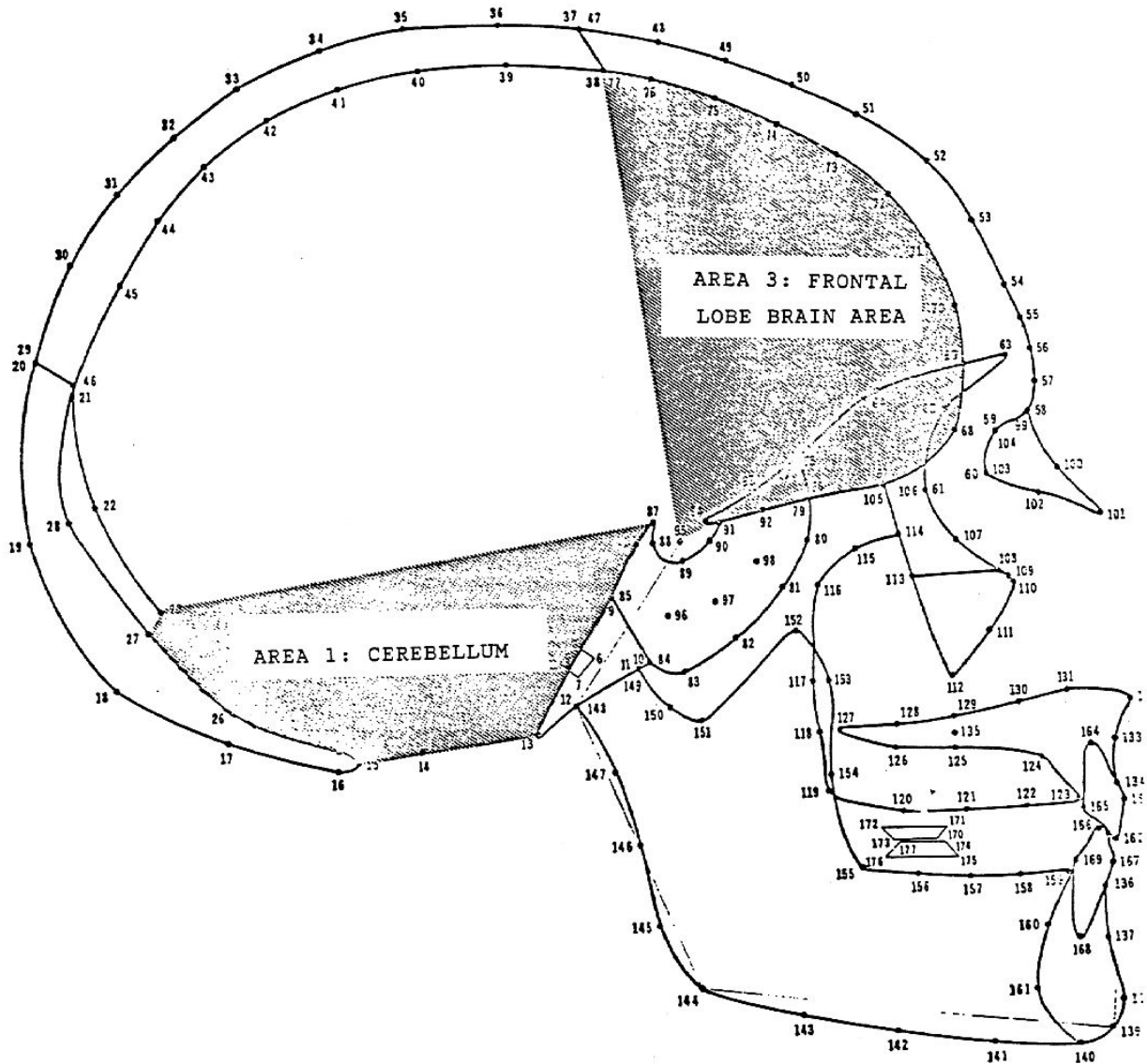
Lateral skull x-rays were available on 961 males from ages 6-76 years and on 816 females from ages 5-60 years. Information from the lateral skull x-rays were transferred to computer-tape utilizing the standardized Broadbent-Bolton roentgenographic cephalometer for computer analyses.

Although, brain area growth measurements were significantly greater for males than females, statistically significant and high intercorrelations between cerebellar/frontal lobe brain areas and cerebellar/midbrain areas were obtained for females beginning with puberty through age 20 years but were uncorrelated for males. The implications of these findings for SSAD theory postulates of sexual brain dimorphism in psychosocial and sexual functioning between males and females will be discussed.

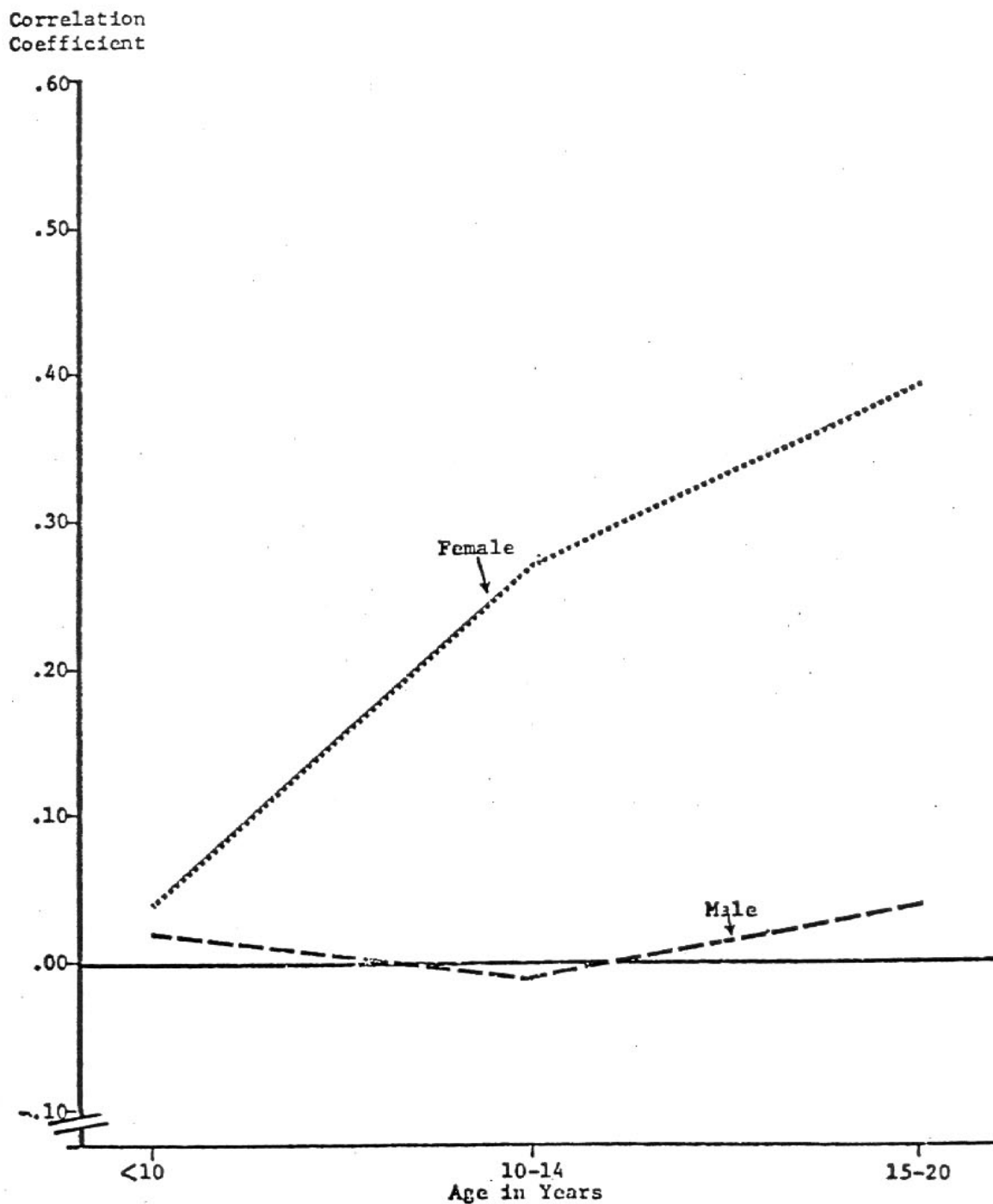
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CEREBELLAR - FRONTAL LOBE BRAIN GROWTH AREA CORRELATIONS
FOR MALES AND FEMALES FROM AGES <10 TO 20 YEARS

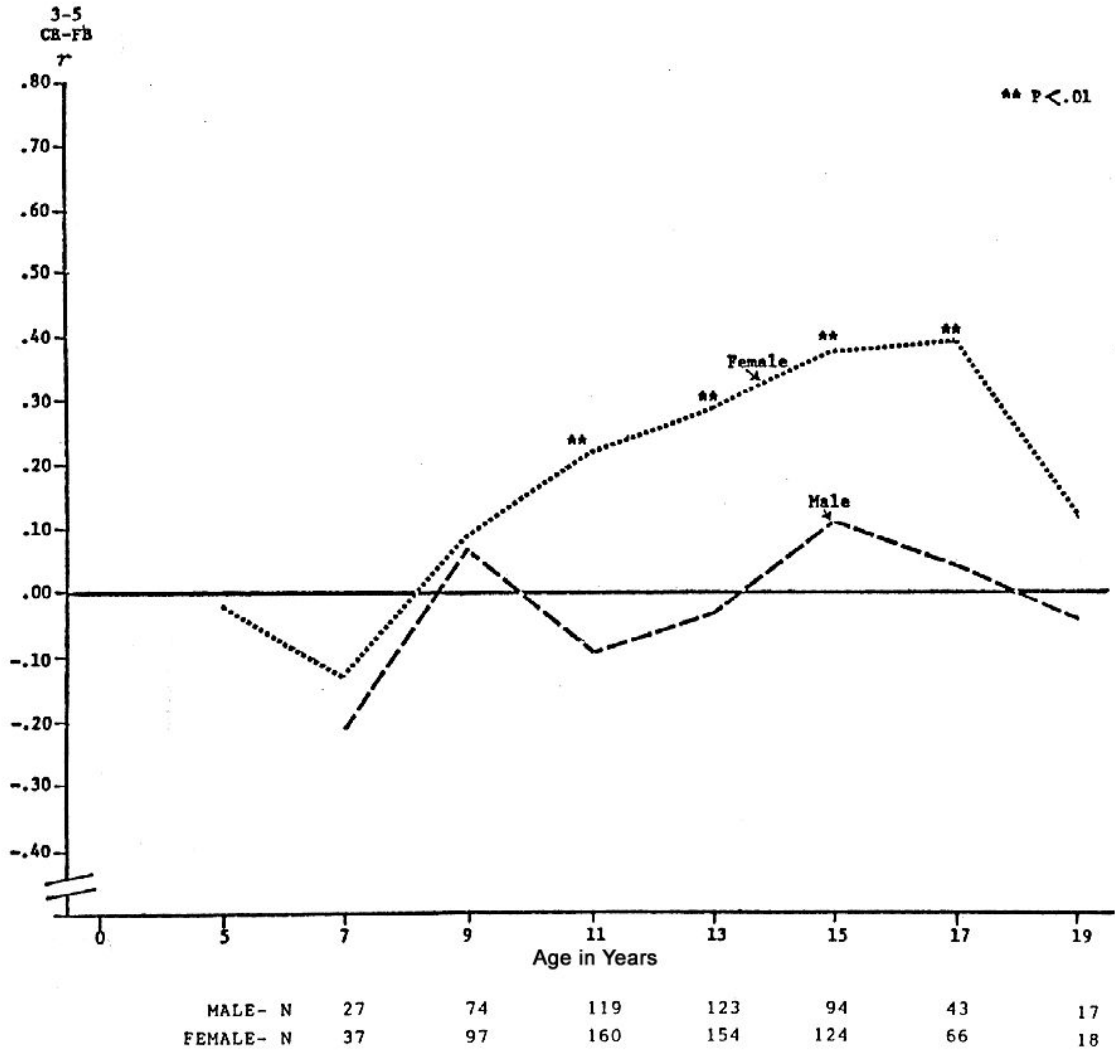


Male-N 101
Female-N 139

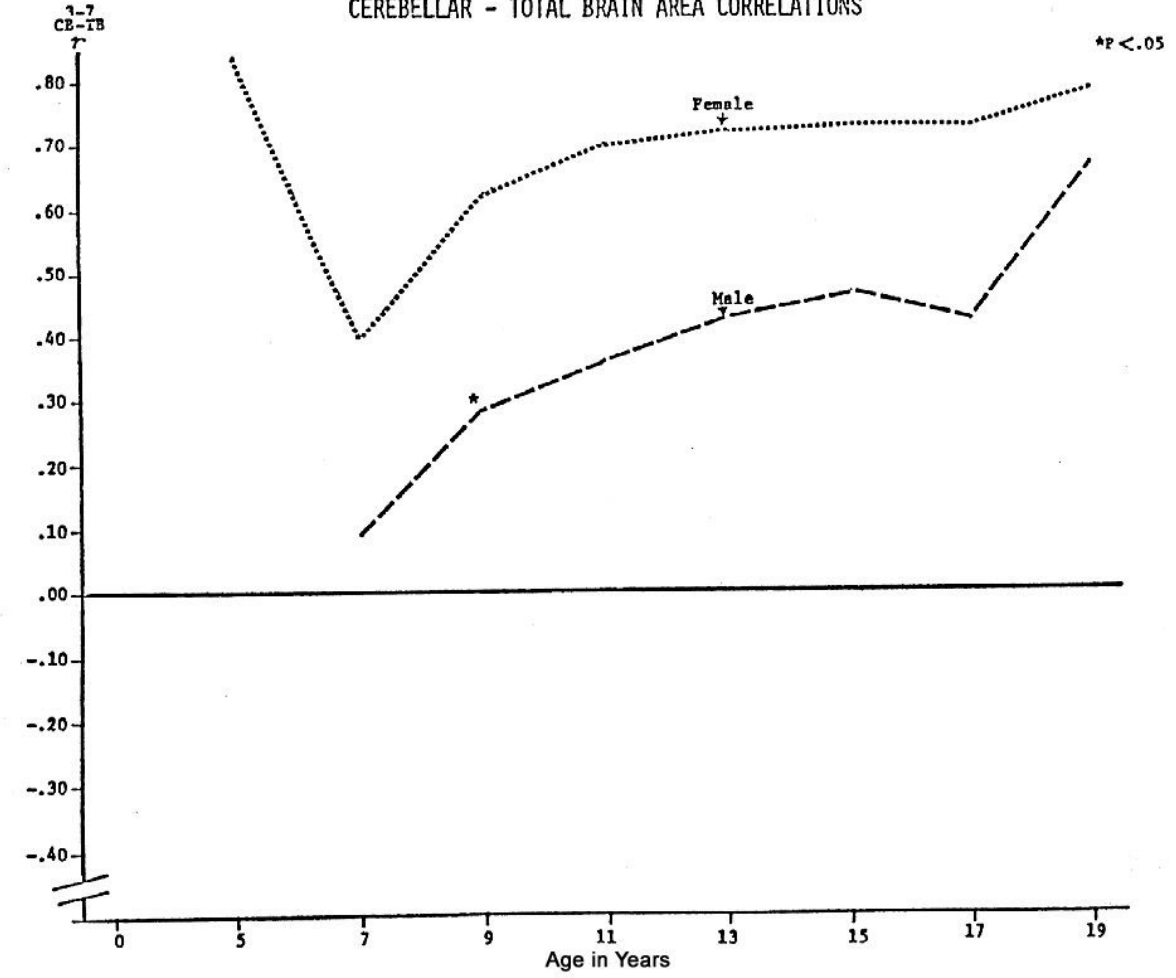
300
386

96
136

**CEREBELLAR - FRONTAL LOBE BRAIN GROWTH AREA CORRELATIONS
FOR MALES AND FEMALES FROM AGES <10 TO 20 YEARS**



CEREBELLAR - TOTAL BRAIN AREA CORRELATIONS



Age-N	MALE- N	27	74	119	123	94	43	17
	FEMALE- N	37	97	160	154	124	66	18