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A COMPARATIVE STUDY OF SIB-TRAIT LINKAGE ANALYSIS METHODS

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Abstract of Talk: Many procedures have been created to test linkage between a quantitative trait and a marker locus in sibling pairs. Past research has proven some methods to be stronger than other methods based on certain parameters. We analyzed four procedures and tested their type I error and power. The four methods we analyzed are the original Haseman-Elston method using the squared differences (1972), Mean-Corrected Squared Sums (1997), the Revisited Haseman-Elston method using the mean corrected cross product (2000) and the Drigalenko Cross Product (1998).