

# History of Biometrics

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SN	Year	Scientist	Event
1	1916	East	Demonstrated that polygenic characteristics were perfectly in agreement with Mendelian segregation
2	1918	R A Fisher	Divided $V_G = V_A + V_D + V_I$
3	1928	P C Mohalonobis	Developed the concept of D2 Statistics & used it in Anthropometry & Psychometry
4	1935	Sewell Wright	Suggested partitioning of Genetic Variance ( $V_G = A_G (V_A) + N_A G_A (V_D + V_I)$ )
5	1936	H F Smith	Developed Discriminant Function technique & Used discriminant function for plant selection
6	1936	H F Smith	Classical Selection Index
7	1942	Sprague & Tatum	Proposed combining ability as a measure of gene action
8	1943	L N Hazel	Used Selection Index (Discriminant Function) for Animal Selection
9	1943	K Mather	Coined "Polygene"
10	1947	Yates	Coined "Diallele"
11	1949	K Mather	Divided $V_P$ into Heritable fixed ( $V_A$ ) + Heritable Non-fixed ( $V_D + V_I$ ) + Non-Heritable Non-fixed ( $V_E$ )

12	1952	<b>C R Rao</b>	Application of $D^2$ statistics to assess genetic diversity in plant breeding
13	1954	<b>Hayman</b>	Developed graphical approach for diallele analysis
14	1954	<b>Jinks; Hayman</b>	Developed diallele cross analysis in self pollinating species
15	1955	<b>Mather &amp; Hayman</b>	Partitioned $V_1 = V_{I(AA)} + V_{I(AD)} + V_{I(DD)}$
16	1956	<b>Griffing</b>	Numerical approach for Diallele Analysis
17	1956	<b>Griffing</b>	Outlined 4 methods & 2 methods for combining ability analysis for diallele cross
18	1957	<b>Kempthorne</b>	Developed the concept for line x tester analysis
19	1957	<b>Kempthorne</b>	Developed the concept of partial diallele analysis (Each Parent is mated with some other parent)
20	1957	<b>Anderson</b>	Developed the concept of Metroglyph Analysis (A semigraphic method of studying variability in large number of germplasm or segregating population)
21	1957	<b>Hanson &amp; Jonson</b>	General Selection Index
22	1959	<b>Dewey &amp; Lu</b>	First used the path-coefficient analysis for plant selection in crested wheat grass
23	1959	<b>Kempthorne &amp; Nordskog</b>	Restricted Selection Index
24	1962	<b>Rawlings &amp; Cokerham</b>	Concept of triallele (1962a) & quadruple allele (1962b) was developed
25	1963	<b>Comstock &amp; Moll</b>	Classified Environment into micro & macro environment
26	1966	<b>Eberhartl &amp; Russel</b>	Developed the concept of stability analysis

27	1968	<b>Kearsay &amp; Jinks</b>	Developed the concept of Tripple cross analysis
28		<b>Francis Galton</b>	Regression
29		<b>Karl Rearson</b>	Standard Dev; Variation; Chi-Square Test & Simple Correlation
30		<b>R A Fisher</b>	ANOVA
31		<b>Johannsen</b>	Partitioned $V_P = V_G + V_E$

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