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Table 1

Single Amino Acid Changes in Hemoglobins

<u>Hemoglobin</u>	<u>Amino acid change</u>	<u>Corresponding base change in messenger RNA</u>
I (Murayama 1960)	lys to asp	A to G
Norfolk, β -L (Gordon <i>et al.</i> 1961)	gly to asp	G to A or G to C
Zurich (Muller and Kingma 1961)	his to arg	A to G
M Boston (Gerald and Efron 1961)	his to try	C to U
M Saskatoon (Ingram 1962)	his to try	C to U
G Philadelphia (Wittmann 1961)	aspNH ₂ to lys	C to A
C, E (Hunt and Ingram 1959)	glu to lys	G to A
G San Jose (Hill and Schwartz 1959)	glu to gly	A to G
A ₂ (Ingram and Stretton 1961)	glu to ala	A to C
S (Ingram 1957)	glu to val	A to U
M Milwaukee (Gerald and Efron 1961)	val to glu	U to A
A ₂ (Ingram and Stretton 1961)	ser to thre	U to A
A ₂ (Ibid)	thre to ser	A to U
A ₂ (Ibid)	thre to aspNH ₂	C to U
G Honolulu (Swenson <i>et al.</i> 1962)	glu to gluNH ₂	A to C or A to G or
D β -Punjab (Baglioni 1962)	glu to gluNH ₂	U to G