Abdel Rahmon tel Sheet 1 170/2296 Date. / / 1) a) Scoring Scheeper A, match = 5, migmatch - 1, Gap = -2 ACGTCA--6 -8 -10 -12 Score = 14 9 (16) 1 17 17 1 -3 -2 -1 Scoring scheme B, match=1, mismatch=0, Gap=-10 -20 -30 -40 -50 -60 ACGTCA 10 -10 -19 = -25 = -39 = -49 GTCAT -Scoring Scheme C . malch = , mismatch = -10, Gap = -2 ACGTCA --- GTCA T Score = -2 _ DAOM

No. Date. Soring scheme 0, match: 2, mismatch = -2, yap = -5 ACGTCA -30 Score = - 7 -20 -13 -10 Scoring Scheme F, match = 1 , mismatch = - I , gap = -1 (core = We had 2 kinds of Alignments: & 2. ACGTCA 1. ACGTCA --- GTCAT DAOM

Neanderthalis

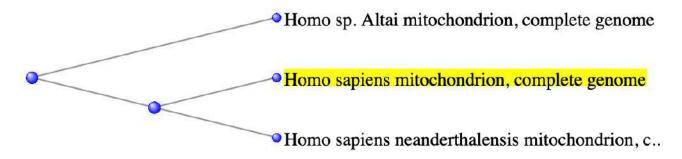
CDS:NADH dehydrogena	1]	4 P	M	Α	N	L	L	L	L	I	V	P	Ι	L	I	Α	M	Α	
Query	3301	AACAACA'	racc(CATG	GCC	AAC	CTC	CTA	CTC	CTC	ATT	GTA	.CCC	ATT	CTA	ATC	GCA	ATG	GCA	3360
Sbjct	3296		:								G									3355
CDS:NADH dehvdrogena	1			M	7\	NT	L	т	т	т	37	7.7	D	т	т	т	7\	M	7\	

V to I doesn't change much (conservative mutation)

Denisovan

CDS:NADH dehydrogena	1		M	P	M	Α	N	L	L	L	L	I	V	P	I	L	I	Α	M	
Query	3299	TTAACAA	CATA	CCC	ATG	GCC	AAC	CTC	CTA	CTC	CTC	ATT	GTA	CCC	ATT	CTA	ATC	GCA	ATGG	3358
Sbjct	3295																		A.	3354
CDS:NADH dehydrogena	1		M	P	M	Α	N	L	L	L	L	I	V	P	I	L	I	Α	M	

Only one change in Denisovan



Homo sapiens are closer to Neanderthalis than Denisovan