

**Supplementary Table 1** - Repetitive elements in X-degenerate sequences of chimpanzee and human Y chromosomes

Repeat family	Chimpanzee		Human		Genome Average
	# of elements	% of sequence	# of elements	% of sequence	% of sequence
Alu	2387	10.09	2290	10.24	13.14
L1	1231	26.18	1171	26.74	20.42
Retroviral	1398	20.15	1327	19.62	8.29
DNA transposon	368	1.62	344	1.66	2.84
<b>Total</b>		<b>58.5</b>		<b>58.72</b>	<b>47.68</b>

Repeat content analyzed using RepeatMasker (<http://repeatmasker.genome.washington.edu>).

Genome averages derive from the following reference: Human Genome Sequencing Consortium, Initial sequencing and analysis of the human genome. *Nature* **409**, 860-921 (2001).