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Evolutionary consequences of DNA methylation on the GC content in vertebrate genomes

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Data accession

Chicken bisulfite sequencing data have been deposited in GEO with accession GSE56639.

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Table S1: Multiple Linear Regression (MLR) analysis of CpG → CpA/TpG substitution rate in relation to CpG methylation level and female recombination rate. Partial correlations significant below a p-value threshold of 0.05 are printed in bold.

	chicken		human	
	partial correlation	*p*-value	partial correlation	*p*-value
CpG methylation level	**0.269**	$1.30 \cdot 10^{-15}$	**0.369**	$< 2 \cdot 10^{-16}$
Female recombination rate	**-0.436**	$< 2 \cdot 10^{-16}$	-0.029	$3.49 \cdot 10^{-1}$
	$R^2 = 0.27$		$R^2 = 0.14$	

Table S2: Multiple Linear Regression (MLR) analysis of CpG → CpA/TpG substitution rate in relation to CpG methylation level and male recombination rate. Partial correlations significant below a *p*-value threshold of 0.05 are printed in bold.

	chicken		human	
	partial correlation	*p*-value	partial correlation	*p*-value
CpG methylation level	**0.299**	$< 2 \cdot 10^{-16}$	**0.371**	$< 2 \cdot 10^{-16}$
Male recombination rate	**-0.490**	$< 2 \cdot 10^{-16}$	-0.057	$6.30 \cdot 10^{-2}$
	$R^2 = 0.32$		$R^2 = 0.14$	