

**S6 Table. The statistical analysis of the association between the DNA methylation induced conversion of C to T and SCUB frequency**

Taxonomy	Species	The second-third nucleotides		The third and next first nucleotides	
		Combination	P value	Combination	P value
Chlorophyta	<i>O. viridis</i>	-	-	NC G/NG G vs NC A/NG A	0.5234
	<i>O. tauri</i>	-	-	-	-
	<i>M. stagnorum</i>	-	-	-	-
	<i>P. akinetum</i>	-	-	-	-
Charophyta	<i>E. fimbriata</i>	NCG/NCC vs NAG/NAC	0.1128	NC G/NG G vs NC A/NG A	0.0170
	<i>M. viride</i>	NCG/NCC vs NAG/NAC	0.7672	NC G/NG G vs NC A/NG A	0.7873
	<i>C. globosum</i>	-	-	-	-
	<i>C. vulgaris</i>	NCG/NCC vs NAG/NAC	0.0148	NC G/NG G vs NC C/NG C	0.1654
Bryophyte	<i>P. laevis</i>	NCG/NCC vs NGG/NGC	0.0364	NC G/NG G vs NC C/NG C	0.5169
	<i>M. aenigmaticus</i>	NCG/NCC vs NGG/NGC	0.2042	NC G/NG G vs NC C/NG C	0.6736
	<i>T. lacunosa</i>	NCG/NCC vs NAG/NAC	1.6954E-05	NC G/NG G vs NC C/NG C	5.9559E-08
	<i>M. polymorpha</i>	NCG/NCC vs NAG/NAC	6.0982E-06	NC G/NG G vs NC C/NG C	6.5892E-13
	<i>P. patens</i>	NCG/NCC vs NAG/NAC	8.5666E-07	NC G/NG G vs NC C/NG C	0.0460
	<i>A. rugelii</i>	NCG/NCC vs NAG/NAC	5.1809E-07	NC G/NG G vs NC C/NG C	0.0917
Pteridophyte	<i>H. squarrosa</i>	NCG/NCC vs NGG/NGC	2.4305E-06	NC G/NG G vs NC C/NG C	0.0047
Gymnosperms	<i>C. taitungensis</i>	NCG/NCC vs NTG/NTC	0.0046	NC G/NG G vs NC A/NG A	0.0091
Monocotyledon	<i>B. umbellatus</i>	NCG/NCC vs NTG/NTC	1.6284E-08	NC G/NG G vs NC A/NG A	0.0006
	<i>O. sativa</i>	NCG/NCC vs NTG/NTC	1.4451E-10	NC G/NG G vs NC A/NG A	4.3410E-05
	<i>Z. mays</i>	NCG/NCC vs NTG/NTC	2.4718E-14	NC G/NG G vs NC A/NG A	8.7564E-17
	<i>S. bicolor</i>	NCG/NCC vs NTG/NTC	2.7069E-06	NC G/NG G vs NC A/NG A	0.0758
Dicotyledon	<i>B. vulgaris</i>	NCG/NCC vs NTG/NTC	8.2092E-13	NC G/NG G vs NC A/NG A	6.7530E-13
	<i>N. tabacum</i>	NCG/NCC vs NTG/NTC	6.0027E-15	NC G/NG G vs NC A/NG A	1.2717E-07
	<i>A. thaliana</i>	NCG/NCC vs NTG/NTC	1.8486E-09	NC G/NG G vs NC A/NG A	2.8987E-06
	<i>G. max</i>	NCG/NCC vs NTG/NTC	1.8338E-12	NC G/NG G vs NC A/NG A	0.0013