

Annex I Parameter setting for the *Bumphunter()* and *dmrcate()* R functions. The arguments not shown in the table were set to default parameters.

Function	Function Argument	Description	Parameter	Parameter data type
<i>Bumphunter()</i>	maxGap	Maximum distance (in bp) between CpG clusters	300	Integer
	pickCutoff	Algorithm attempts to pick a cutoff using the permutation distribution	TRUE	Logical
	smooth	The estimated profile should be smoothed	TRUE	Logical
	smoothFunction	Function used for smoothing	loessByCluster	Function
	B	Number of resamples to use when computing null distributions	250	Integer
	nullMethod	Method used to generate null candidate regions	bootstrap	Character
<i>dmrcate()</i>	C	Scaling factor for bandwidth	2	Numeric
	min.cpgs	Minimum number of consecutive CpGs constituting a DMR	3	Integer