

Full model:

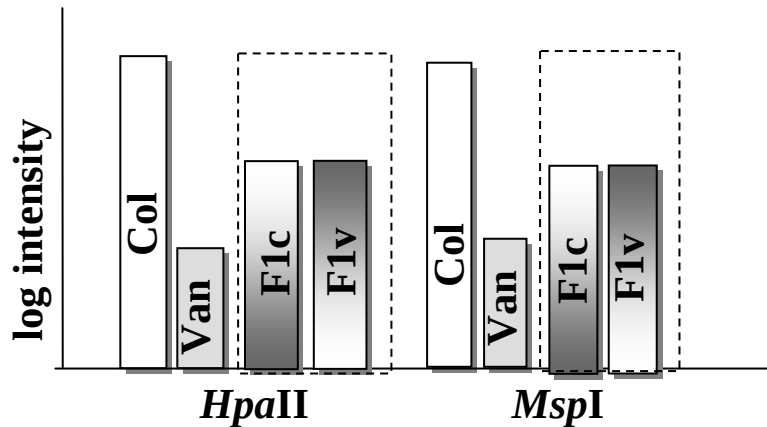
Intensity $\sim$ add + dom + mat + enz + add x enz + dom x enz + mat x enz + ε

Contrast setting in the full model:

	add	dom	mat	enz
Col <i>Hpal</i>	1	0	0	1
Col <i>Mspl</i>	1	0	0	-1
Van <i>Hpal</i>	-1	0	0	1
Van <i>Mspl</i>	-1	0	0	-1
F1c <i>Hpal</i>	0	1	1	1
F1c <i>Mspl</i>	0	1	1	-1
F1v <i>Hpal</i>	0	1	-1	1
F1v <i>Mspl</i>	0	1	-1	-1

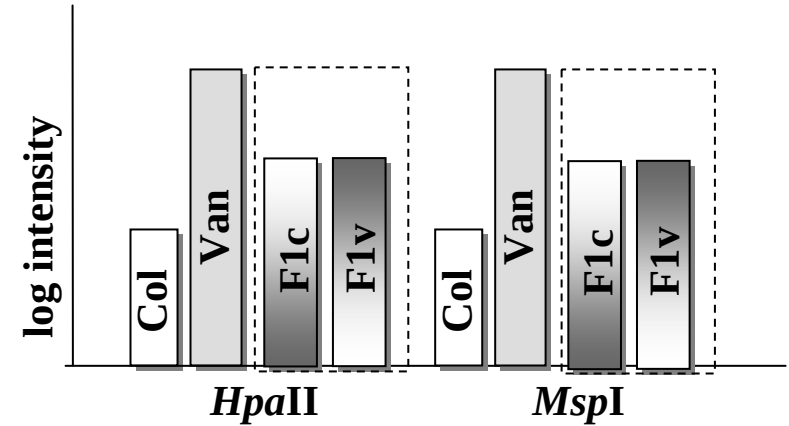
Add: additive effect; dom: dominant effect; mat: maternal effect; enz: enzyme effect; ε : random error.

Additive effect +



SFP; Col has greater signal than Van.

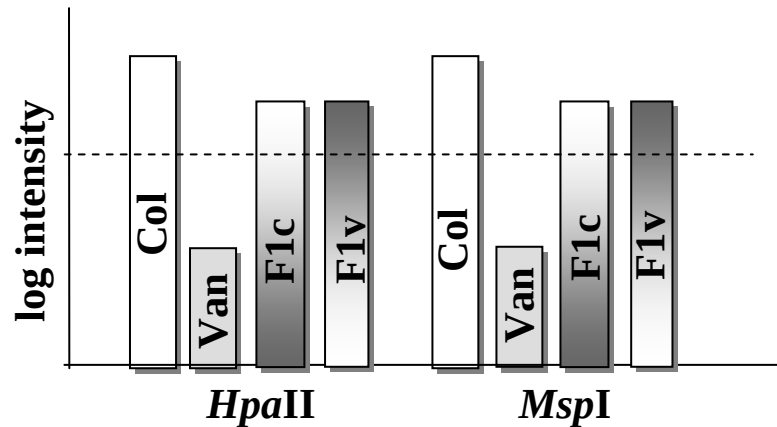
Additive effect -



Van duplication or deletion in Col; Van has greater signal than Col

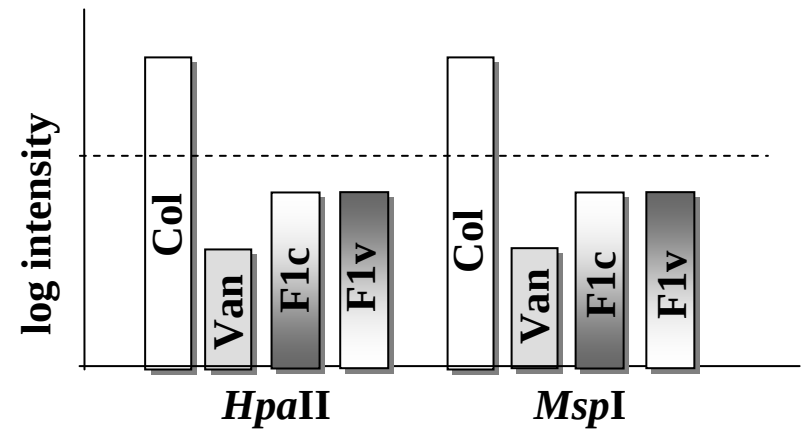
Additive effect describes intensity difference between parent strains across enzyme treatments.

Dominant effect +



**Increased F1 hybridization
compared with expected from
mid-parent**

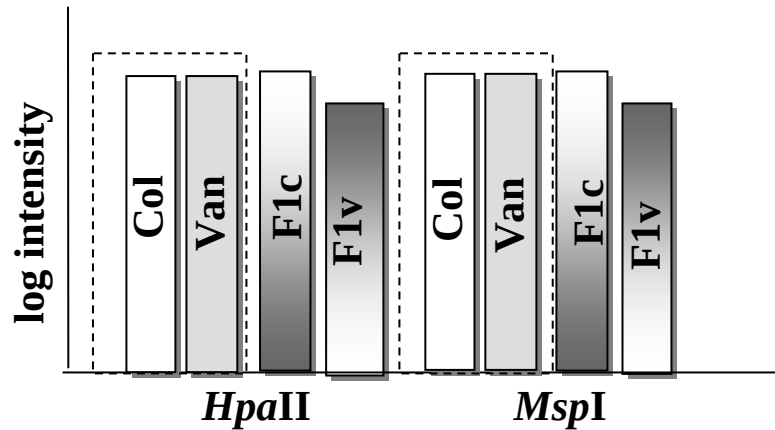
Dominant effect -



**Reduced F1 hybridization
compared with expected from
mid-parent**

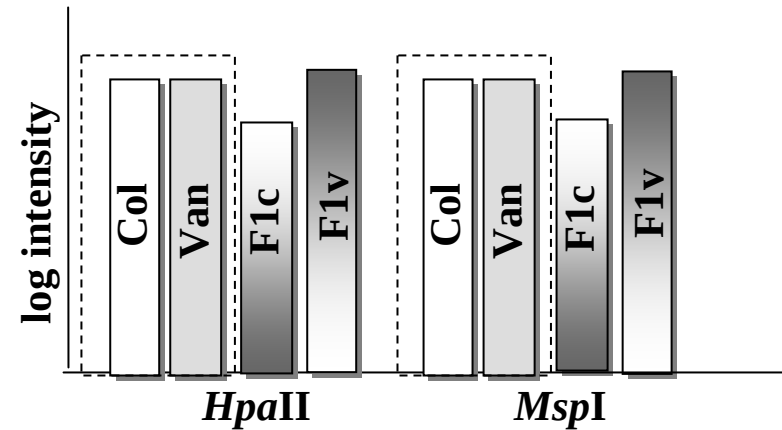
Dominant effect describes intensity difference between mid-parent (average of parents; dashed line) and average of F1 hybrids across enzyme treatments.

Maternal effect +



**Random variation; Col-mother
F1 with greater signal than
Van-mother F1**

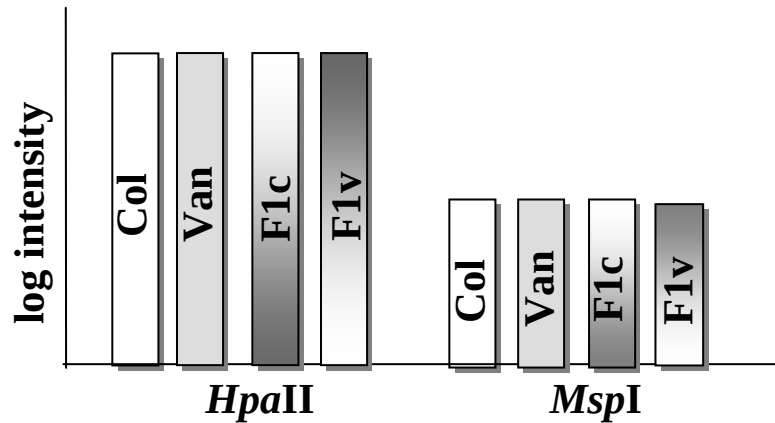
Maternal effect -



**Random variation; Van-mother
F1 with greater signal than Col-
mother F1**

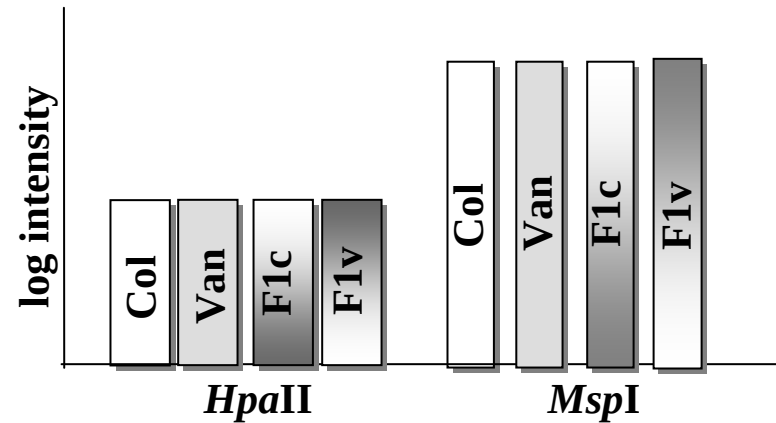
Maternal effect describes intensity difference between reciprocal F1 hybrids across enzyme treatments.

Enzyme effect +



**Constitutive CG methylation;
HpaII samples have greater
signal**

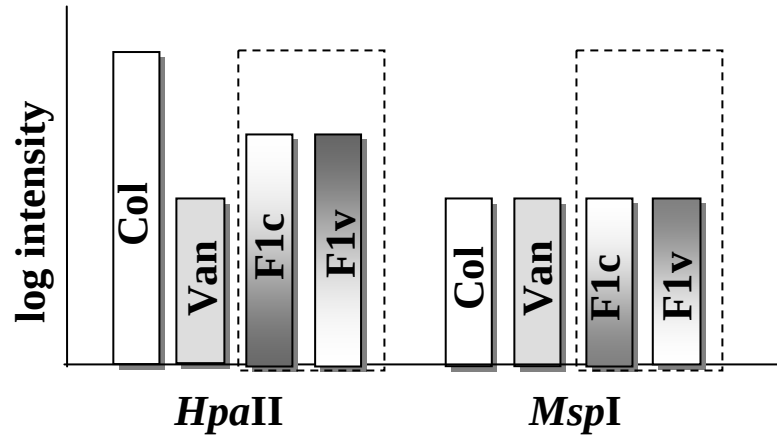
Enzyme effect -



**Normalization; *MspI* samples
have greater signal**

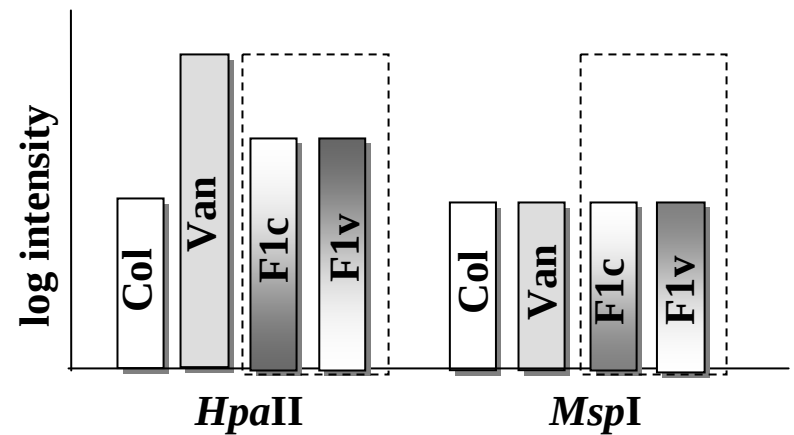
Enzyme effect describes intensity difference between *HpaII* and *MspI* enzyme treatment across genotypes.

Additive x enzyme effect +



Col-specific methylation

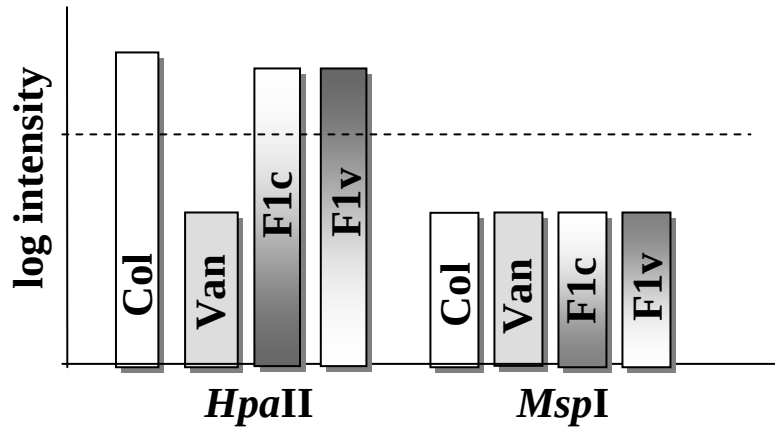
Additive x enzyme effect -



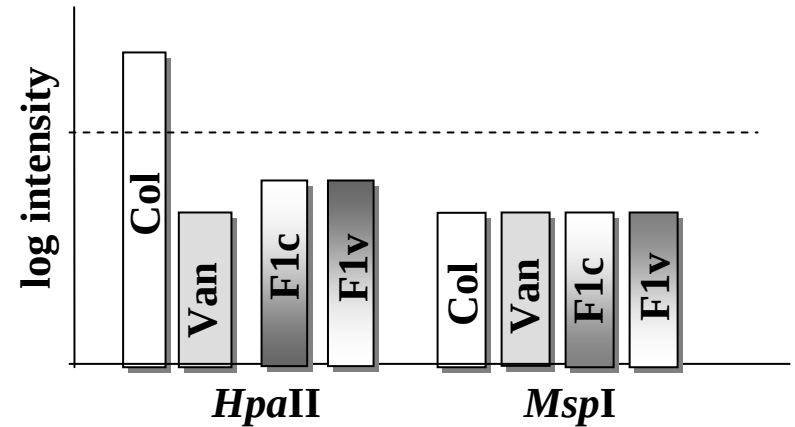
Van-specific methylation

Additive x enzyme effect describes differential enzyme sensitivity between parent strains.

Dominant x enzyme effect +



Dominant x enzyme effect -

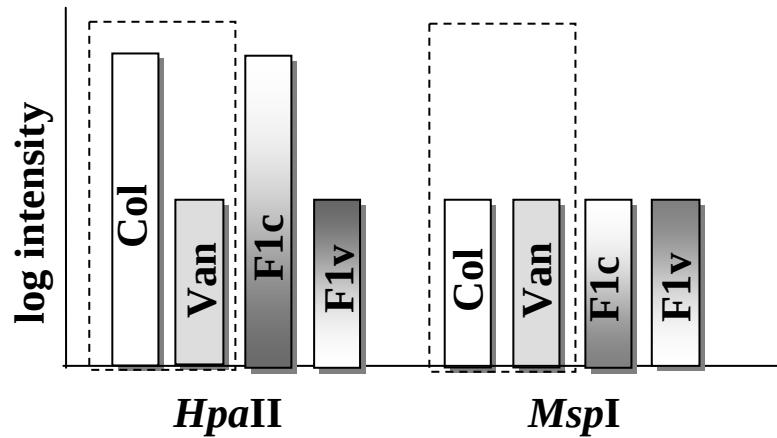


Col-dominant methylation

Van-dominant methylation

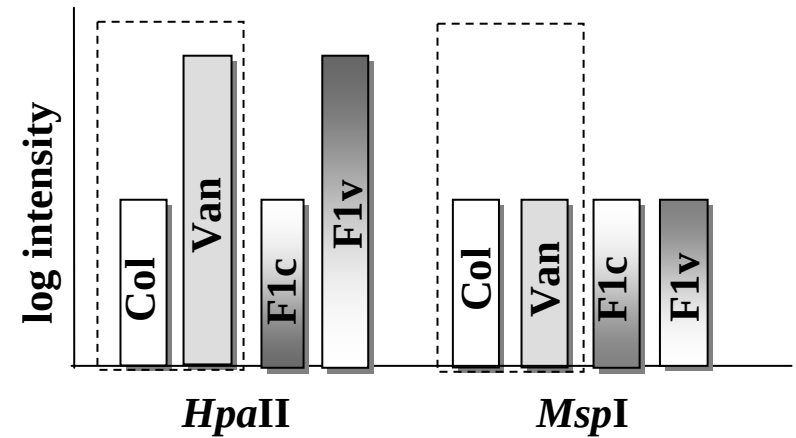
Dominant x enzyme effect describes differential enzyme sensitivity between mid-parent (average of parents; dashed line) and average of F1 hybrids.

Maternal x enzyme effect +



Col-mother hybrid specific methylation

Maternal x enzyme effect -



Van-mother hybrid specific methylation

Maternal x enzyme effect describes differential enzyme sensitivity between reciprocal F1 hybrids