

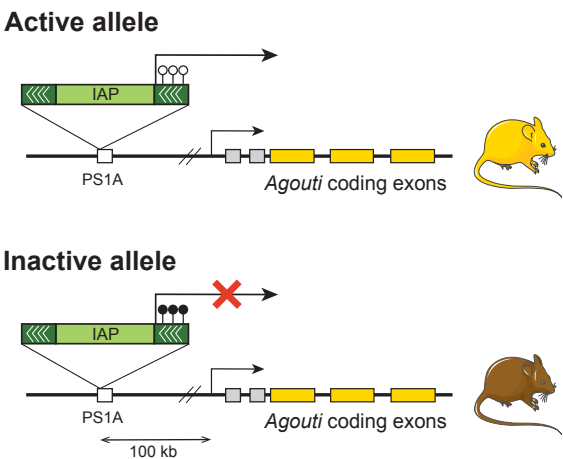
Figure 1

A

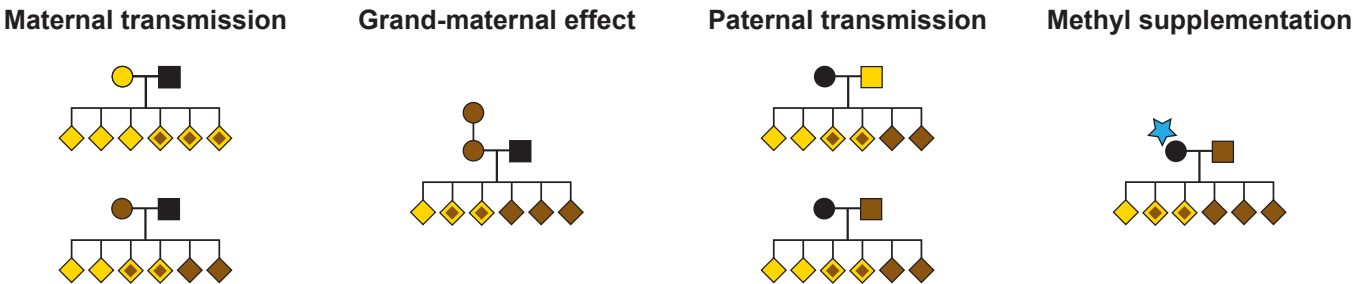
The *Agouti* viable yellow mouse model



B



C

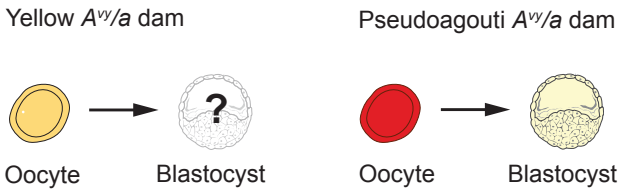


Yellow A^{vy}/a^* Mottled A^{vy}/a^* Pseudoagouti A^{vy}/a^* Congenic a/a^* ★ Maternal dietary methyl supplementation

* C57BL/6 genetic background

D

Maternal transmission



Paternal transmission

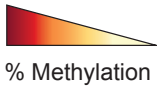
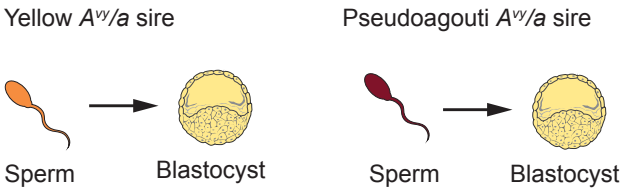
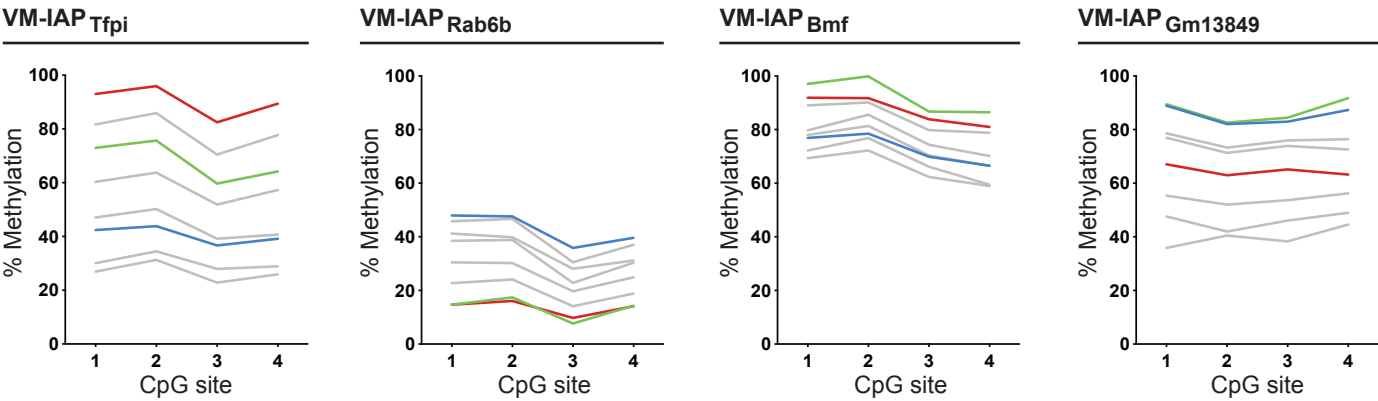
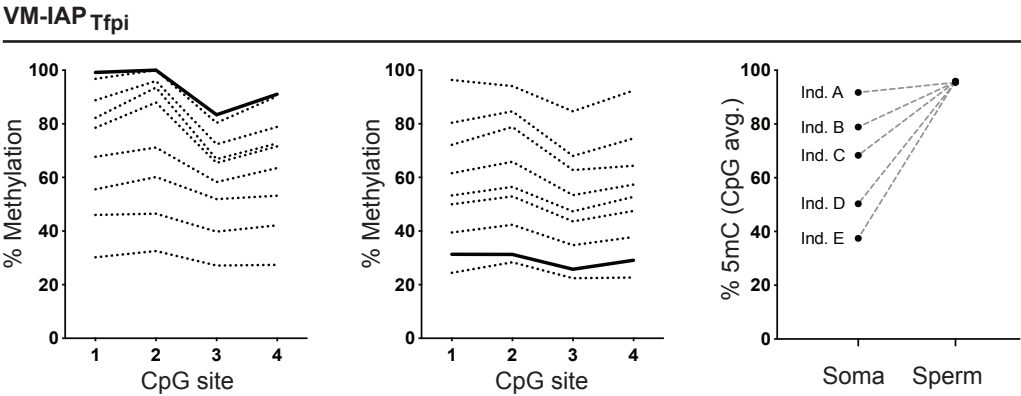


Figure 2

A — Indv. 1 — Indv. 2 — Indv. 3 — Other indivs.



B — Dam Offspring



C ○ Offspring ▼ Litter avg.

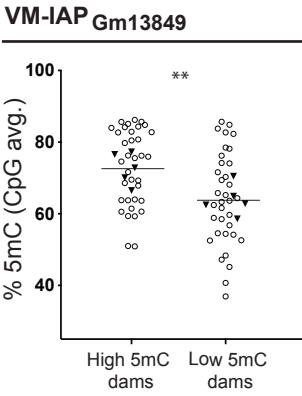
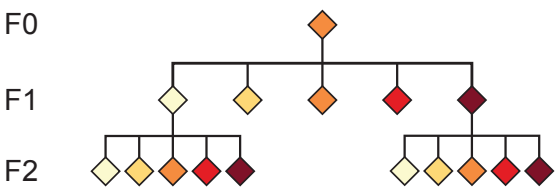


Figure 3

A

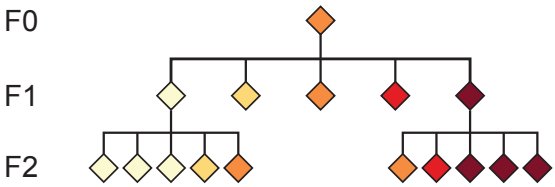
RECONSTRUCTION OF METASTABILITY



B

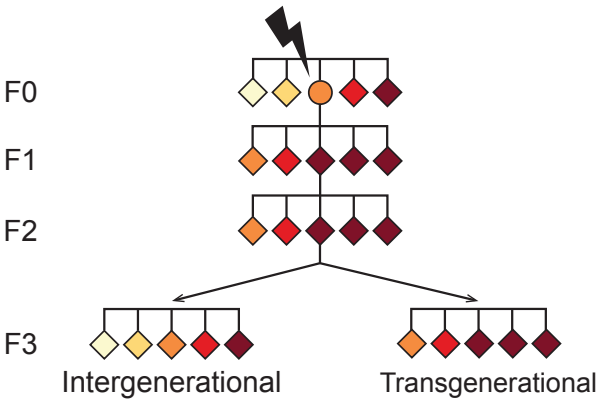
GENERATIONAL EPIGENETIC INHERITANCE

Innate

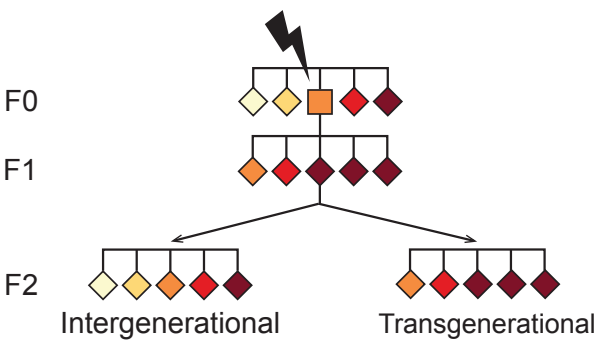


Induced

In utero maternal exposure



Paternal exposure



Epiallelic state



Genetic or envr. insult