

CADASIL with *NOTCH3* mutation



Coenzyme A
B Vitamins

Glu/GABA

GABA consumers:

Megasphaera elsdenii ↑
Eubacterium siraeum ↑

Inflammation

Virulence factor harboring bacteria:

Fusobacterium varium ↑
Clostridium aldenense ↑

Coenzyme A and B vitamins producers:

Roseburia faecis ↓
Faecalibacterium prausnitzii ↓(?)
Eubacterium rectale ↓(?)

Gut lumen

CoA,
B vitamins

IL-1β

Association links

Notch3^{R170cl+} mice

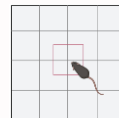
Host genetics

Notch3^{R170cl+}



Gut microbe

F. varium
colonization



Behavior disorder



System inflammation

Macrophage

F. varium stimuli

