ENVIRONMENTAL TRIGGERS

- Smoking
- Exercise
- Diet
- Stress
- Cold
- Heat
- Drugs
- Toxins
- Infection

GENETIC MACHINERY

- Binding of methyl-CpG binding proteins
- Recruitment of HDACs & co-repressors

- DNA methylation
- Histone modification
- DNA variation

CELL

- mRNA
- Protein

PHENOTYPE

(e.g. adiposity, glucose intolerance, insulin resistance, diabetes)