

Mutants of silkworm
(*Bombyx mori*)



Body coloration and
pigmentation



Virsu infectivity



Abnormal molting
(non-molting)

Positional cloning using the *Bombyx* genome information

Isolation of the
mutant gene

Functional analysis of the mutant gene

Fundamental research
(Discovery of the new
factor for insect life cycle)

Applied research
(Use as pest control etc...)

-Strategy-

Mutants of silkworm
(lethality and Suseceptibility)

Bombyx genome information

Isolation of the mutant gene

Transgenic technique

Proof of
the mutant gene

Bioassay

Functional analysis of
the mutant gene
Insect's "weak point"



Check the change of the phenotype