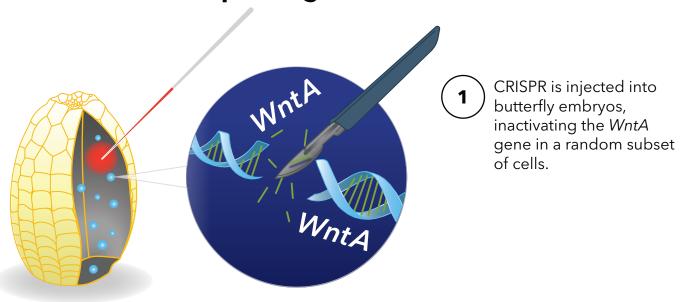
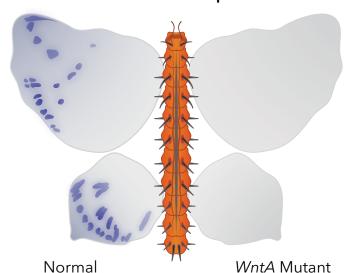
CRISPR Reveals how Butterflies use a "Painting Gene" to Shape Wing Color Patterns

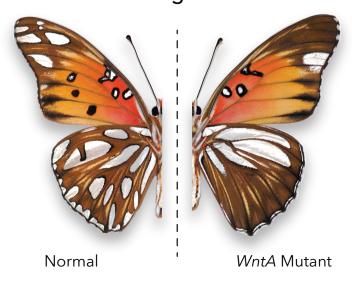


Larval Gene Expression



As caterpillars progress through the life cycle toward butterflies, the WntA gene is normally active in developing wings tucked away inside their bodies (blue, left). WntA pre-patterns color and shape information on the wing.

Adult Wing Patterns



Butterfly wings with WntA develop complex wing patterns (left).
Removing WntA dramatically changes the colors and organization of the wing in mutant butterflies (right).