

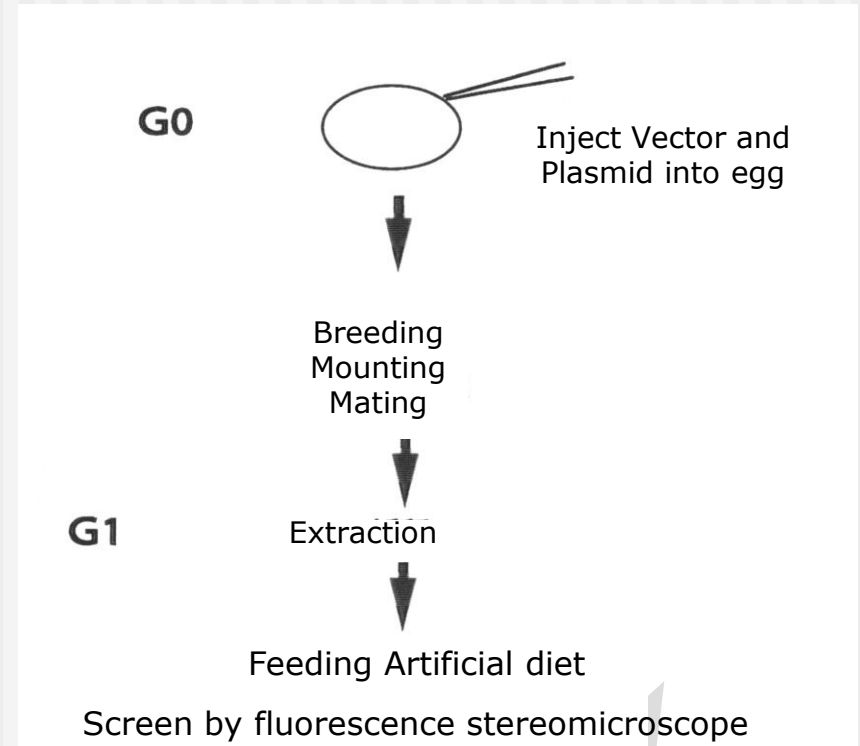
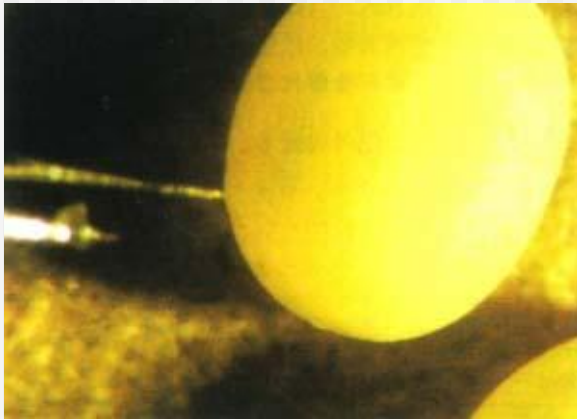
# Gene Transfer to Silk Worm Eggs (Vacuum and Electroporation Method)



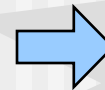
## Gene Transfer to Silk Worm Eggs with New Vacuum and Electroporation Method

# Gene Transfer to Silk Worm Eggs

## Current Methodology



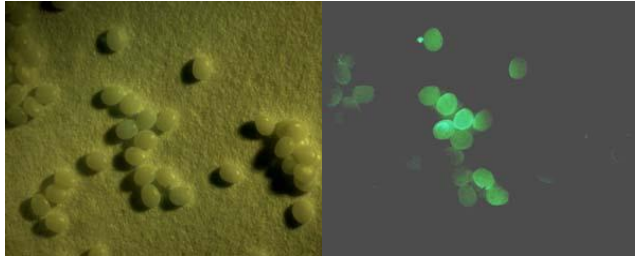
After making a hole with a thin needle,  
inject DNA by glass capillary



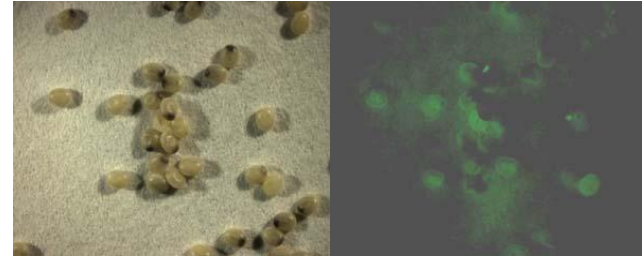
**A lot of care !**

# Gene Transfer to Silk Worm Eggs

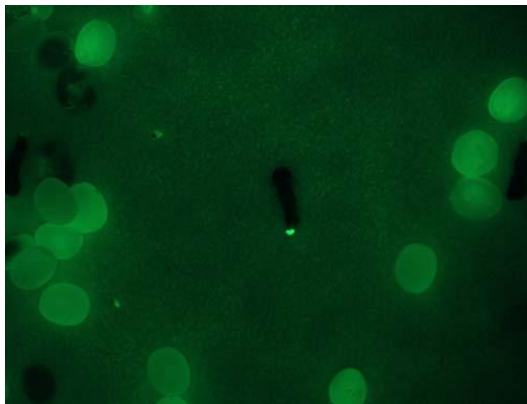
## New methodology



A. 2 days after gene transfer



B. 10 days after gene transfer



C. Hatching Larva

The capacity is  
approx. 2,000 eggs  
at one time

Make mass transfer possible

# Gene Transfer to Silk Worm Eggs

## Gene Transfer Conditions

**Setup:**  
 Pulse length 10ms,  
 Pulse interval 50ms,  
 No. of Pulses 10

**Optimized Voltage**

