

<발생>

3-2-1. Growth Properties in Primary Culture of the Deutocerebral Cells from the Silkworm *Bombyx mori*

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Primary culture of differentiating deutocerebral neuron has been investigated in the 5-stage pupae of the silk moth *Bombyx mori*. This investigation present a morphometric and statistical analyses of a large population of the deutocerebral neurons grown in the primary culture. Examination method of quantitative branching was used to characterize neuronal shape, comparing the change of both total neurite length and branching number in culture with 20-hydroxyecdysone or without it. It has been also shown that attachment of neurons to the culture substratum and outgrowth of axons were affected by lamine treatment. These results indicate different requirements of neurons for simple attachment to the substratum.