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Development of Primary Cell Culture Technique for the Establishment of the Cell lines from Embryos and Fat Bodies of Cockroach.

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To establish the cell line, the preparation of primary culture were developed from embryos and fat body of *Periplaneta americana*. For the optimization of embryo cell culture conditions, the dissociation steps were improved and 5+4 medium was chosen as a culturing medium. The 0.1% trypsin solution were very effective with higher density and viability of trypsinized dissociated cells for embryos in late stage of embryogenesis. In the early stages of primary culture, some melanized cells were observed.

On the other hand, explant culture has been performed with various mixture of L-15, TNM-FH, BME media in this species and 5:4:1 ratio of such media was found to be the optimal condition. Four types of cells could be distinguished in the explant culture.

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