

# Immune Reactions of Encapsulation in Cockroaches

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This research inspects cockroaches' immune system. Our group found cockroach (*Periplaneta Americana*) can be anaesthetized by carbon dioxide; female has greater immune responses; hemocytes can encapsulate external stimulus; cockroaches have acquired immunity. Mouse (having human-resembled immune system) are used in current studies, causing ethical problems. As we found cockroaches have acquired immunity, it is the best candidate for future research.