

Israel's sniffing robot

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In news– Israeli scientists have recently developed a sniffing robot with locust antennae.

About the robot-

- The new sniffing robot is **equipped with a biological sensor that uses the antennae of locusts.**
- It could help advance disease diagnosis and improve security checks.
- The robot **uses the antennae of a locust to diagnose disease and improve security checks.**
- Locusts **smell with their antennae.** The scientists will use the locust's antennae to hone the computer's scent detection abilities
- The researchers in Tel Aviv University have managed to harness their bio-hybrid robot, making it far more sensitive than existing electronic sniffers.
- On the four-wheeled robot, the researchers placed the insect's antenna between two electrodes that send electrical signals as a response to a nearby odour.
- Each scent has a unique signature which, with machine learning, the robot's electronic system can identify.
- Ultimately, researchers are trying to create a robot with a sense of smell that will be able to distinguish between smells and to locate them in space.