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Title: How male roundworms decode Sex Pheromone signals

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Abstract: In many organisms, chemical language facilitates communication between individuals. Sex pheromones are broadly secreted by female and hermaphrodite nematodes, which communicate their fertility status, indicates sexual maturity and their readiness to mate. When males detect the sex pheromone, they chase the volatile sex pheromone signal and immediately recognize the presence of a suitable mating partner from afar. We are currently working on mapping the functional circuits of volatile sex pheromone perception, analyzing male mate-searching behavior and identifying the functional component of sex pheromone in nematode.