Otters learn from each other—but solve some puzzles alone

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"Here, we were interested in investigating such skills in the context of unfamiliar natural prey, as well as in relation to artificial food puzzles."

The team studied the otters' social groups before the food tests, meaning the scientists knew how often each otter associated with other individuals.

Social learning could then be measured by seeing whether close associates learned quickly from each other.

The otters were given five variations of the puzzle box, each with a meatball (a familiar food) visible inside. The method to extract the food varied in each version—with solutions including pulling a tab and opening a flap.

The natural prey were rainbow trout (which acted as more of a control given their lack of a protective shell), shore crabs and blue mussels.

Of the 20 otters in the study, 11 managed to extract the meat from all three types of natural prey.

"Asian short-clawed otter populations are declining in the wild, and understanding their behavior can help in the development of conservation and reintroduction programs," said Saliveros.

"The captive otters in this study initially struggled with natural prey, but they showed they can learn how to extract the food."

"Our findings suggest that if you give one otter pre-release training, it can pass some of that information on to others."

The paper, published in the journal Royal Society Open Science, is entitled: "Captive Asian short-clawed otters (Aonyx cinereus) learn to exploit unfamiliar natural prey."

More information: Captive Asian short-clawed
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