

Ancient whale a key link to evolutionary puzzle

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Ancient whale a key link to evolutionary puzzle-Maiabalaena nesbittae was toothless

- A prehistoric 15-foot-long whale that sucked prey into its mouth represents a key missing puzzle piece concerning the evolution of today's huge filter-feeding whales, scientists said.
- The researchers described fossils unearthed in Oregon of a whale named Maiabalaena nesbittae that lived 33 million years ago and possessed neither teeth nor baleen, the material that modern filterfeeding whales use to strain large amounts of tiny prey out of the water for food.
- They called Maiabalaena, meaning "mother whale," a surprising intermediate evolutionary stage between modern baleen whales and their toothed ancestors.
- Maiabalaena consumed fish and squid by sucking them into its mouth.
- The evolutionary steps that led to modern baleen filter-feeding giants like the blue whale, the earth's largest-known animal, had remained unclear.
- The first whales evolved from wolf-like land ancestors roughly 50 million years ago where all early whales had teeth.
- One leading hypothesis had been that in the early stages of baleen whales' evolution, they possessed both teeth and baleen before becoming toothless.
- Maiabalaena's position on the whale family tree, the researchers said, indicates that tooth loss preceded baleens by millions of years.
- Baleen is a flexible material made of keratin, the same stuff found in hair and fingernails.

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