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**COVER**

Embryonic sporophytes of two Antarctic brown seaweeds, Desmarestia aniceps (left, about × 84) and Himantothallus gradifolius (right, about × 75) show similarity of development despite widely divergent adult form. This type of filamentous development is characteristic of Desmarestiales, indicating that the former assignment of Himantothallus to Laminariales (kelps)—an order characterized by parenchymatous growth—is incorrect. See page 1206. [James Hendel, Scientific Photographic Laboratory, University of California, Berkeley]