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COVER A cluster of the sea star *Pisaster ochraceus* on a beach of the Pacific Rim National Park, Vancouver Island, British Columbia. The oocytes from this echinoderm have been used as a source of the mitogen-activated protein (MAP) kinase p44^{mpk}, which is now shown to be phosphorylated and activated by the lymphocyte protein tyrosine kinase p56^{lck}. See page 853. [Photograph by Peter Thomas]

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