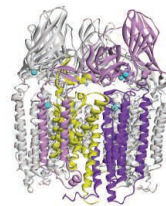


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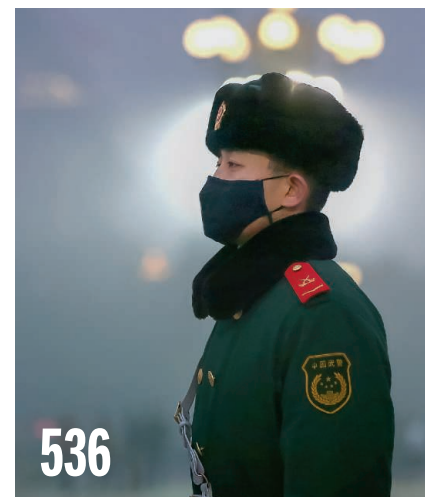
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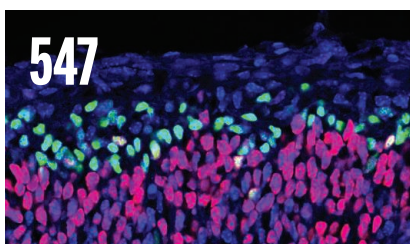
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ON THE COVER



The tube-eye (*Stylephorus chordatus*) is one of several species of deep-sea fish to have expanded its repertoire of rhodopsin genes to maximize visual sensitivity and, possibly, color detection. In the

deep sea, multicolored bioluminescence replaces surface illumination as the main source of light. Many fishes that reside at great depths have evolved a visual system for recognizing bioluminescent signals and perceiving color in the dark. See pages 520 and 588. Photo: Danté Fenolio/DEEPEND/Gulf of Mexico Research Initiative

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