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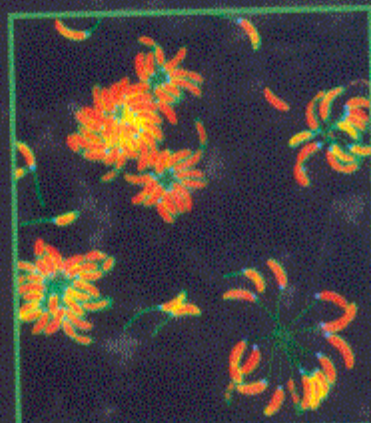
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Front Cover:

The fluorescence micrograph shows rosettes of *Caulobacter crescentus* bacteria. Different cell parts are labeled by fluorophores that fluoresce at specific wavelengths. Chromosomal DNA is labeled orange, and the cell membranes are labeled green. The bacteria each grow a long, thin appendage known as a stalk at one cell pole. The stalk helps the cell absorb nutrients from the freshwater environment. The tip of each stalk makes a sticky bit of "glue" called a holdfast. The holdfast can attach the cell to a favorable sediment in its environment; alternatively, it attaches to the stalks of other cells, forming a rosette. Division of each polarized cell requires asymmetric placement of regulatory proteins, such as the cell division protein labeled blue, found only at the point of stalk growth. Growth and development of *C. crescentus* provides an important model system for development of pathogenic bacteria and multicellular organisms.

Cover image: Jennifer Heinritz, Matthew Cabeen, and Christine Jacobs-Wagner, Howard Hughes Medical Institute and Yale University.

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