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Cover photograph (Copyright © 2007, American Society for Microbiology. All Rights Reserved.): *Pseudomonas aeruginosa* surrounding a blood vessel from an infected mouse. Bacteria were detected by using a Cy3-labeled fluorescence in situ hybridization probe and appear red around the vessel walls. Red blood cells within the lumen appear pink, and 4',6'-diamidino-2-phenylindole-stained host cell nuclei appear blue (magnification, ×40). *P. aeruginosa* is one of the few bacterial species known to cause perivascular cuffing, which precedes blood vessel invasion and bacteremia. (See related article on p. 3715.)