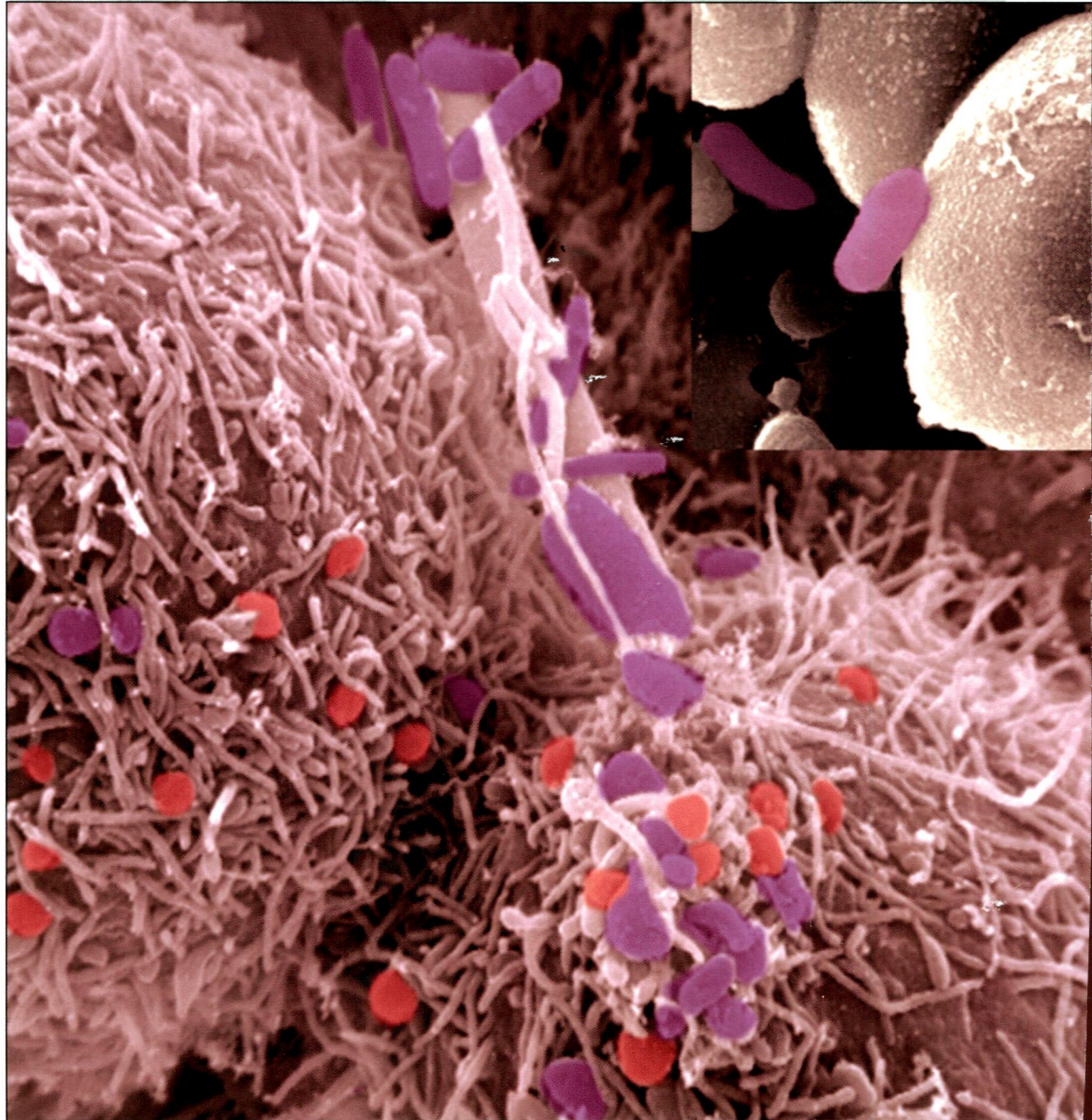


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Yun Hee Jeong, Bo-Young Jeon, Sun-Hwa Gu, Sang-Nae Cho, Sung Jae Shin, Jun Chang, Sang-Jun Ha 3514

Cover photograph (Copyright © 2014, American Society for Microbiology. All Rights Reserved.): *Filifactor alocis* (purple), a Gram-positive anaerobic bacterium, is emerging as an important player in the microbial community dynamics leading to adult periodontitis. This organism was found to possess specific factors that can modulate multiple changes in the oral microbial community. *F. alocis* exhibits pathogen synergy with *Porphyromonas gingivalis* (red), a potent periodontal pathogen. Coinfection of both organisms induces factors that produce morphological variation such as cell surface filopodial projections and increased invasive capacity and cause damage to epithelial cells, resulting in lysis and disintegration. *F. alocis* shows putative ability to modulate multiple changes in the host cell proteome. (Inset) *F. alocis* monoinfection showing no surface variations in the infected epithelial cells. (See related article on p. 3261.)