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On the cover: Resolution of inflammation by a naturally occurring endogenous lipid mediator, Resolvin E 1, results in complete regeneration of pathologically lost tissues, including bone. Regeneration of tissues lost to disease is problematic in many human diseases, such as arthritis and periodontitis. Resolvin E 1 promotes regeneration of the periodontal organ (periodontal ligament, cementum, and bone) as shown. Hasturk, H., A. Kantarci, E. Goguet-Surmenian, A. Blackwood, C. Andry, C. N. Serhan, and T. E. Van Dyke. 2007. Resolvin E1 regulates inflammation at the cellular and tissue level and restores tissue homeostasis in vivo. *J. Immunol.* 179: 7021–7029.

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