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The Ubiquitin Ligase RNF220 Enhances Canonical Wnt Signaling through USP7-Mediated Deubiquitination of β -Catenin

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Qinghua Kong, Chaocui Li,
Shuangjuan Yang, Yan Li, Bingyu Mao

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Cover photograph (Copyright © 2014. American Society for Microbiology. All rights reserved.) (Left) Stimulation of dectin-1 (yellow at the cell surface) by fungi activates Syk kinase (dark green at the base of dectin-1 receptors) and subsequently leads to generation of reactive oxygen species (pink flowers) and stabilization of β -catenin (blue), the payoff of which is the secreted WNT5A. (Middle) WNT5A (red circles) induces cellular modifiers such as PIAS-1 (red) and SOCS-1 (blue) that function to downregulate conventional Toll-like receptor (TLR) adaptors. (Right) Compensated TLR (red at the cell surface) responses enhance survival of bacteria (black circles), otherwise kept in check by the proinflammatory responses mounted by the host. (See related article on p. 4301.)