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## Nucleosome remodelling takes its Toll

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Mammalian Toll-like receptors (TLRs) bind to bacterial lipopolysaccharides (LPS) leading to the induction of several cytokine genes that are essential for the inflammatory response. Activation of the Rel proteins is thought to be critical for TLR-induced transcriptional induction. As described in the January *Nature Immunology*, Weinmann *et al.* have used TLR4 mutant mice to show that TLR signaling is required for nucleosome remodeling at the interleukin 12 p40 promoter upon induction with LPS (*Nat Immunol* 2001, **2**:51-57). Surprisingly, experiments using macrophages from *c-Rel*<sup>-/-</sup> mice demonstrated that the c-Rel factor, which is essential for p40 transcription, was not necessary for remodeling. Identifying the factors that regulate chromatin remodeling upon TLR signaling will be important for understanding how innate immunity is coordinated at the genomic level.

## References

1. Toll-like receptors in the induction of the innate immune response.
2. *Nature Immunology*, [<http://www.nature.com/ni/>]