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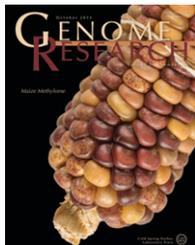
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Cover Barbara McClintock's early work on epigenetic gene control involved the transposable element *Suppressor Mutator (Spm)*. Spotted kernels have active transposition during kernel development, detected as mutations from *a1* to *A1*, and weak (pale) expression of the *A1* (anthocyanin) gene, which is under epigenetic control. In this issue a high resolution map of the maize methylome is reported, revealing widespread epigenetic control of gene expression and inheritance. (Courtesy of Cold Spring Harbor Laboratory Archives. Photo: Thomas Adams. [For details, see Regulski et al., pp. 1651–1662.]