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Inactivation of one of the two X chromosomes in females is regulated by sequences on the Xchromosome within the *X inactivation center (Xic)*. In the May 10 Science, Percec *et al.* report the identification of *trans*-acting autosomal elements involved in choosing the particular X chromosome for inactivation (*Science* 2002, **296**:1136-1139). They performed a phenotype-driven genetic screen for mutations that affect X-chromosome silencing choices in mice: they screened mice from parents exposed to chemical mutagens and looked for changes in X-chrmosome inactivation patterns. They then identified two mutant females that transmitted altered X inactivation patterns to early embryos. Both mutations to mouse chromosome 15; characterization of these autosomal factors (named *Xiaf1* and *Xiaf2*) should provide insights into the molecular mechanisms underlying the complex epigenetic process of x-chromosome inactivation.

References

- 1. X-chromosome inactivation: counting, choice and initiation.
- 2. Science, [http://www.sciencemag.org]

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