



**Figure 9. Pluripotent Cells Have the Capacity to Reprogram Somatic Cells**

ES or EG cells can be fused with somatic cells, resulting in tetraploid hybrids. This leads to epigenetic reprogramming of the somatic nucleus, with changes, for example, in 5MeC, H3ac, H4ac, and H3K4me. The tetraploid cells resulting from this fusion and reprogramming also have a pluripotent phenotype: When injected into blastocysts they can contribute to many different cell types in the embryo.