



**Figure 5. Imprinted Genes Are Expressed from One Parental Allele and Often Clustered**

Most imprinted genes are found in clusters that include multiple protein-coding mRNAs and at least one non-coding RNA (ncRNA). Non-imprinted genes can also be present. The imprinting mechanism is *cis*-acting, and imprinted expression is controlled by an imprint control element that carries an epigenetic imprint inherited from one parental gamete. One pair of diploid chromosomes is shown pink (maternally expressed imprinted gene) and blue (paternally expressed imprinted gene). (IG) Imprinted mRNA gene, (IG-nc) imprinted ncRNA gene, (NG) non-imprinted gene, (ICE) imprint control element, (*arrow*) expressed gene, (*filled circle*) repressed gene.