

## Errata

Page	Corrected erratum (in bold font)
57, PI-11, PI-74, PI-80, PI-81	Deleted Endnote formatting mistake.
45	Testing a mutual dependency between H3S28P and <b>CenH3</b> deposition, we used the Aurora phosphatase PP1 inhibitor Calyculin A to hyperphosphorylate <i>O. dioica</i> chromosomes.
PI-3	Finally, Histone proteins are subject to a wide array of covalent <b>posttranslational</b> modifications (PTMs) that occur predominantly at their N- and C-terminal tails.
PI-6	In contrast, the H2A histone family is the most diverse and although to date 3 H2A variants (H2AX, H2AZ and macroH2A) have been described <b>in most metazoans</b> that can substitute canonical H2A, most vertebrate genomes encode an even higher number of H2A sequence isoforms.
PI-11	As reported in a previous study (Chioda et al. 2002), the primary transcripts of RD histone genes in <i>O. dioica</i> contain both a conserved stem-loop ( <b>SL</b> ) sequence, followed by a polyadenylation (polyA) signal but they lack the histone downstream element (Chioda et al., 2004).
PI-16	Within the H4t amino acid sequence Val21 and Leu22 are replaced by Ile21 and Met22, a region of the H4 N-terminal tail that interacts with the acidic patch of the adjacent H2A-H2B dimer ( <b>Fig. 5B</b> ).
PI-21	From the N-terminal tail to the alpha 2 helix of the histone fold, H2A.4 and <b>H2A.3</b> show almost no amino acid sequence conservation to canonical H2A.1.
PI-33	Hyperacetylation of histones appears to be tightly associated with histone replacement in early elongating spermatids (Hazzouri et al., 2000) and has also been reported for some testes-specific variants such as <b>TH2B</b> (Lu et al., 2009).
PI-32	The N-terminal tails of mammalian H2Bs are involved in interactions with DNA, internucleosomal histone–DNA interactions (Zheng and Hayes, 2003) and are important for the mitotic and apoptotic condensation of chromosomes ( <b>de la Barre et al., 2001</b> ).
PI-34	Moreover, <i>O. dioica</i> <b>tiling</b> array data has confirmed the expression of a <b>bromodomain-containing testes-specific factor (BRDT)</b> (appendix, table A1A).
PI-45	<b>Reference added:</b> de la Barre, A.E., Angelov, D., Molla, A., and Dimitrov, S. (2001). The N-terminus of histone H2B, but not that of histone H3 or its phosphorylation, is essential for chromosome condensation. <i>Embo J</i> 20, 6383-6393.
PI-63	Figure 3: Histone variant names H2AX.1 – H2AX.3 corrected to <b>H2Asq.1 – H2Asq.3</b> .
PIII-10	Previous studies in different organisms demonstrated that the Aurora B kinase can phosphorylate different <b>H3</b> -residues, including Ser10 and Ser28 <b>and the</b> N-terminal tail of CenH3.