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**Genome size diversity and why it matters – insights from the Plant DNA
C-values database**

Jiří Vondrášek

ELIXIR CZ meets challenges of data management in Life Sciences

Petr Novák

ELIXIR CZ supported tools for genome annotations and data sharing

Tony Heitkam

Repetitive DNA in plants: a guide to genomic change
and regulatory innovation

Nicola Schmidt

Beet 'em up: Unifying 30 years of repeat research in beets and wild beets

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LTR retrotransposons preferentially spread through either the male
or female plant germline

Pavel Jedlička

Reconstruction of LTR retrotransposons insertions in plant genomes

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How to evolve without centromeres?

Jiří Macas

Weird but useful: what we can learn from atypical plant centromeres

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Plasticity in holocentromere organization: The holocentromere of *Chionographis* is comprised of a few megabase-sized CENH3 positive satellite arrays

Pavel Neumann

Identification of changes in structural and regulatory kinetochore protein genes in holocentric compared to monocentric *Cuscuta* species

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Analysis and application of natural and artificially induced chromosome elimination

Steven Dreissig

Recombination landscape divergence between populations is marked by larger low-recombining regions in domesticated rye

Václav Bačovský

Analysis of synaptonemal complex in plants: dissection of SCs in *Silene latifolia*

Jana Szecówka

Both male and female meiosis contribute to non-Mendelian inheritance of parental chromosomes in interspecific plant hybrids (*Lolium* × *Festuca*)

Ingo Schubert

DNA double-strand breaks as drivers of genome and karyotype evolution

Martin Kováčik

Developing an atlas of gene expression during barley grain development

Yile Huang

Structure and evolution of the meso-octoploid genome
of *Heliophila variabilis* (Brassicaceae)

Tomáš Janíček

Back to the Future: Sex chromosomes and flower development

Miroslava Karafiátová

Mysterious biology of the B chromosome in wild Sorghum

Petr Smýkal

Towards the understanding of the seed dormancy as the key domestication trait in legumes