



Precise centromere positioning on chicken lampbrush chromosomes. Sequential fluorescent *in situ* hybridizations (FISH) on chicken lampbrush chromosome 3 with tandem repeat CNM (red) and two BAC clones WAG32A13 (yellow) and WAG30L03 (green) that contain chicken genomic sequences. Chromosomes are counterstained with DAPI. Scale bar – 10 μm . Analysis of the distribution of FISH signals from these probes allowed to narrow down the position of the centromere on chicken chromosome 3. In general, giant lampbrush chromosomes represent a powerful system for integration of precise physical gene mapping and genome sequence data, including localization of chromosome regions with unknown DNA sequences such as arrays of tandem repeats.

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Reference: A. Zlotina, S. Galkina, A. Krasikova, R. P.M.A. Crooijmans, M. A.M. Groenen, E. Gaginskaya, S. Deryusheva. Precise centromere positioning on chicken chromosome 3. *Cytogenetics and Genome Research*, 2010, 129 (4): p. 310-313.