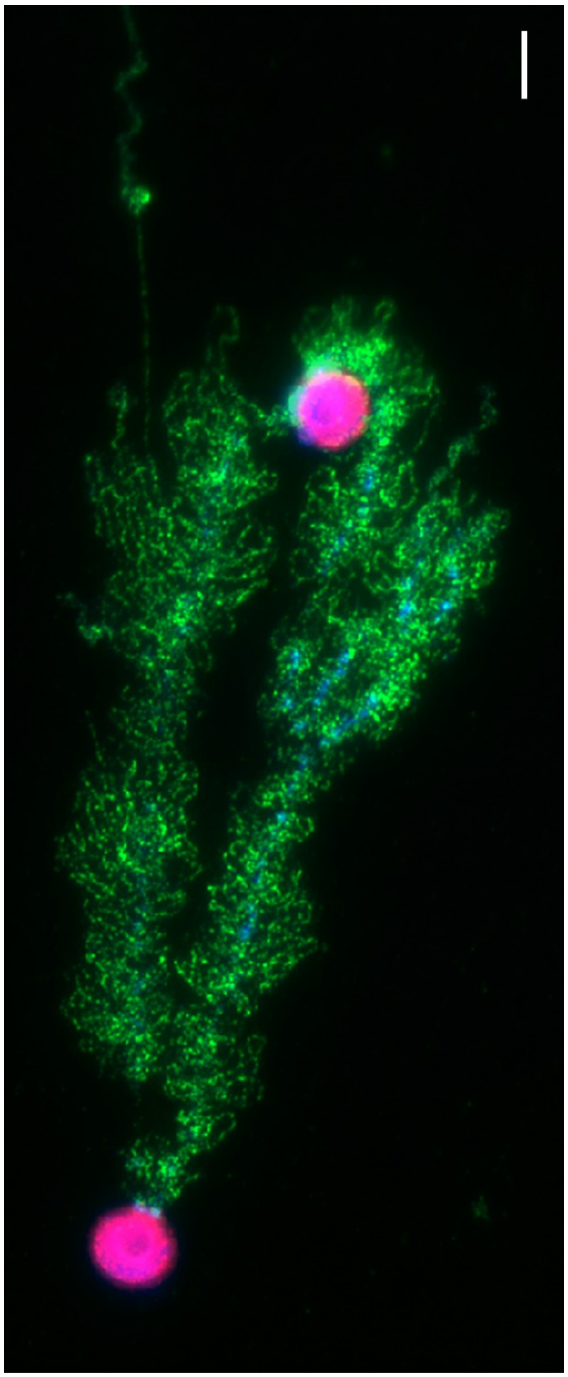

Centromere regions of lampbrush chromosomes are marked by proteinaceous spherical nuclear bodies that have a non-RNP nature. Double immunofluorescent staining of chaffinch lampbrush chromosomes with antibodies against STAG2 protein of cohesin complex (red) and antibody MPM-2 against phosphorylated epitopes (green). Chromosomes are counterstained with DAPI. Scale bar – 10 µm. Centromere protein bodies forming on lampbrush chromosomes comprise proteins of the cohesin complex but do not contain phosphoepitopes. The unique molecular composition of the centromere protein bodies in avian oocytes has allowed to consider them as a novel type of intranuclear bodies.

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R**eference:** Krasikova A.V., Gaginskaia E.R. [Organization of centromere regions of chromosomes in the lampbrush phase]. Tsitologiia. 2010; 52(7): p. 515-33.