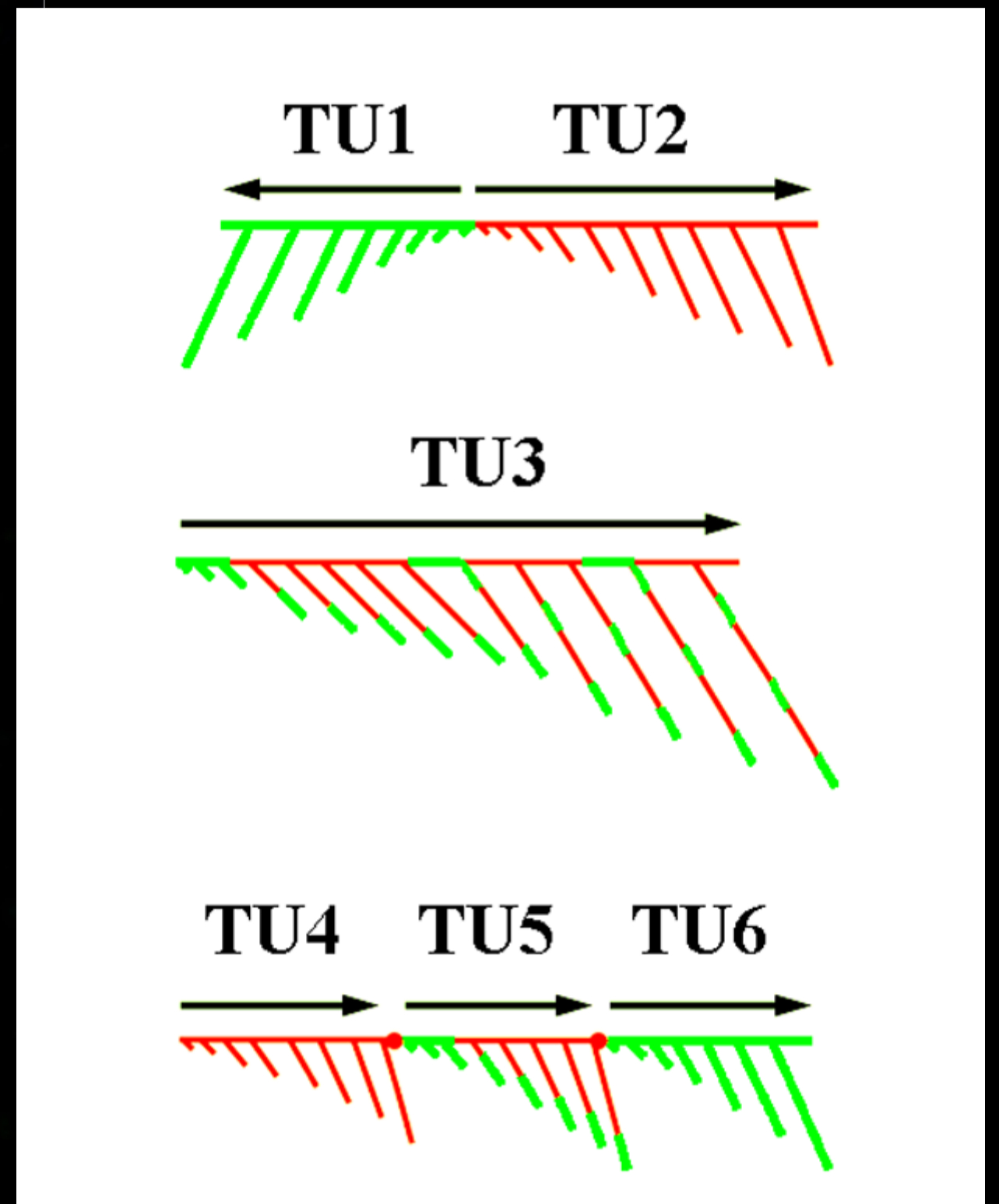
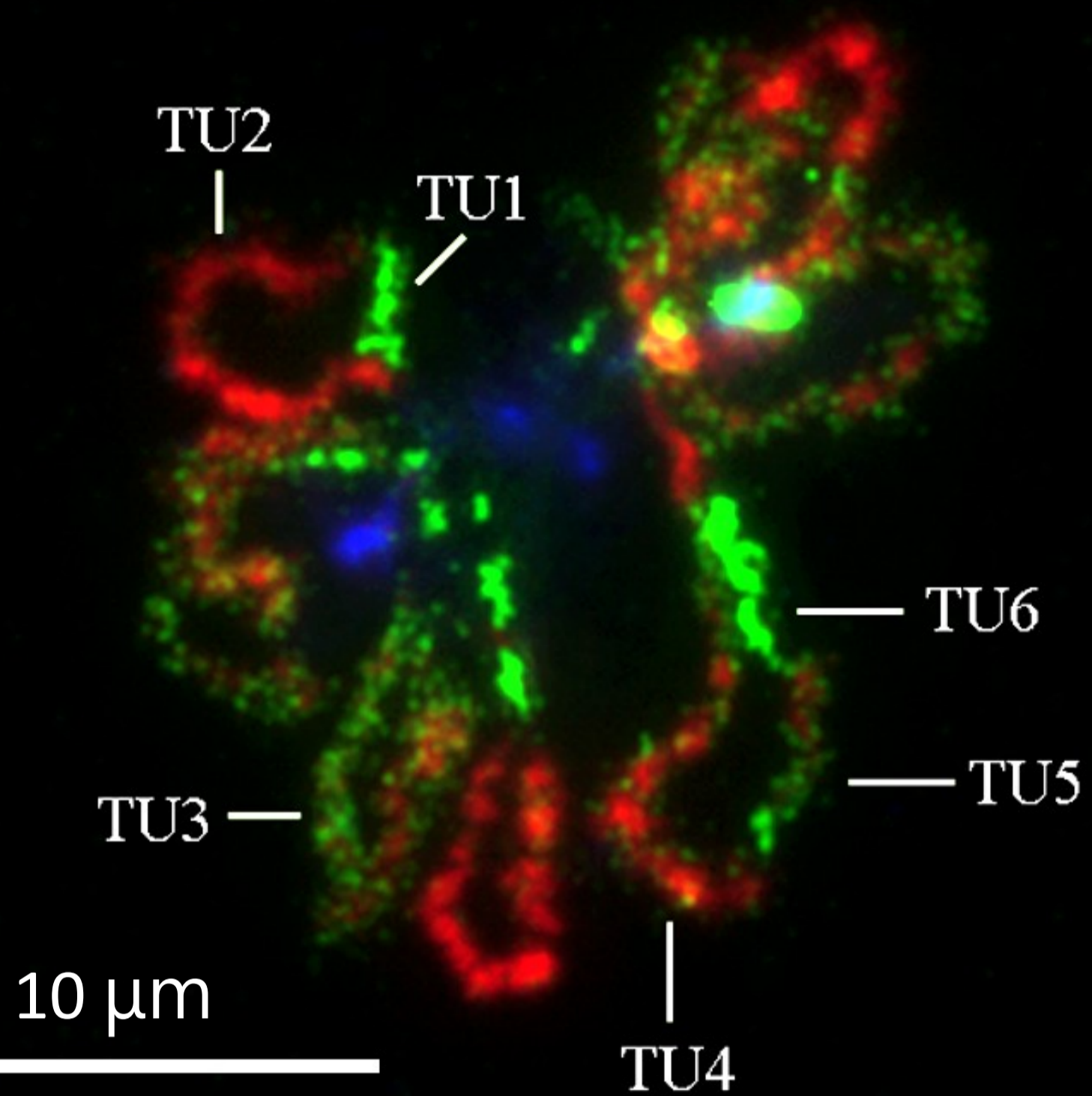




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### Transcription on an avian lampbrush microchromosome



Transcription of PO41 and *BgIII*-repeats in one or different transcription units in the same loop on lampbrush microchromosome of Japanese quail. A microchromosome after FISH with PO41 (green) and *BgIII*-repeat (red) probes counterstained with DAPI (blue) is shown on the left panel. Diagrams to illustrate how the labeling patterns arise on transcription units are shown on the right panel. In avian lampbrush chromosomes, RNA polymerase II transcribes the 41-bp repeats in long lateral loops in both centromere and subtelomere regions. As can be seen in this figure, Scale bar – 10  $\mu\text{m}$ . PO41 and *BgIII*- repeats are transcribed either independently in different transcription units or continuously without truncation in one unit.