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Cover picture Quantitative 3-D optical microscopy can be used to determine the spatial and temporal distribution of DNA replication sites in cycling mouse fibroblasts, as reported in this issue. The picture shows isometric projections of the immunofluorescence intensities for DNA replication sites in early S-phase (upper left), mid-to-late S-phase (upper right), and very late S-phase (lower left) compared with a projection of the intensities for nuclear lamin (lower right). See the paper in this issue by Fox, Arndt-Jovin, Jovin, Baumann and Robert-Nicoud for details.