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Cover  Multipotent basal stem cells contribute to luminal lineage expansion during postnatal development of the prostate. Shown here is an immunofluorescence analysis of a 3D whole mount of prostate epithelium 2 wk after doxycycline-dependent lineage tracing of basal stem cells, which were induced to express YFP. The tissue was stained with antibodies directed against the basal cell marker K14 (red) and YFP (green) as well as with Hoechst nuclear dye (blue). Basal stem cells [green] differentiate into both basal [green and red colocalization, yellow] and luminal [green] cell types. [For details, see Wuidart et al., p. 1261.]