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Special Issue: Mitochondrial DNA: Contributions to Human Health and Disease, edited by James D. Watson

Cover: Photomicrograph of Anabaena species strain DW12-2.2 filaments containing a mutant xisA gene that was inactivated by site-directed insertion of an antibiotic gene cassette. The mutant strain forms heterocysts when transferred to a medium lacking a source of combined nitrogen, but the heterocysts are unable to excise an 11-kilobase DNA element from the chromosome and do not fix nitrogen. See page 1421. [James W. Golden, Texas A&M University, College Station, TX 77843]