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COVER

Dark-field fluorescence photomicrograph of cellulose ribbons synthesized by *Acetobacter xylinum* and then stained with the fluorescent brightener, Calcofluor White ST (about ×7100). A cellulose product with altered morphology and crystallinity is produced when Calcofluor White is added during cellulose synthesis. See page 903. [C. Haigler and R. M. Brown, Department of Botany, University of North Carolina, Chapel Hill]