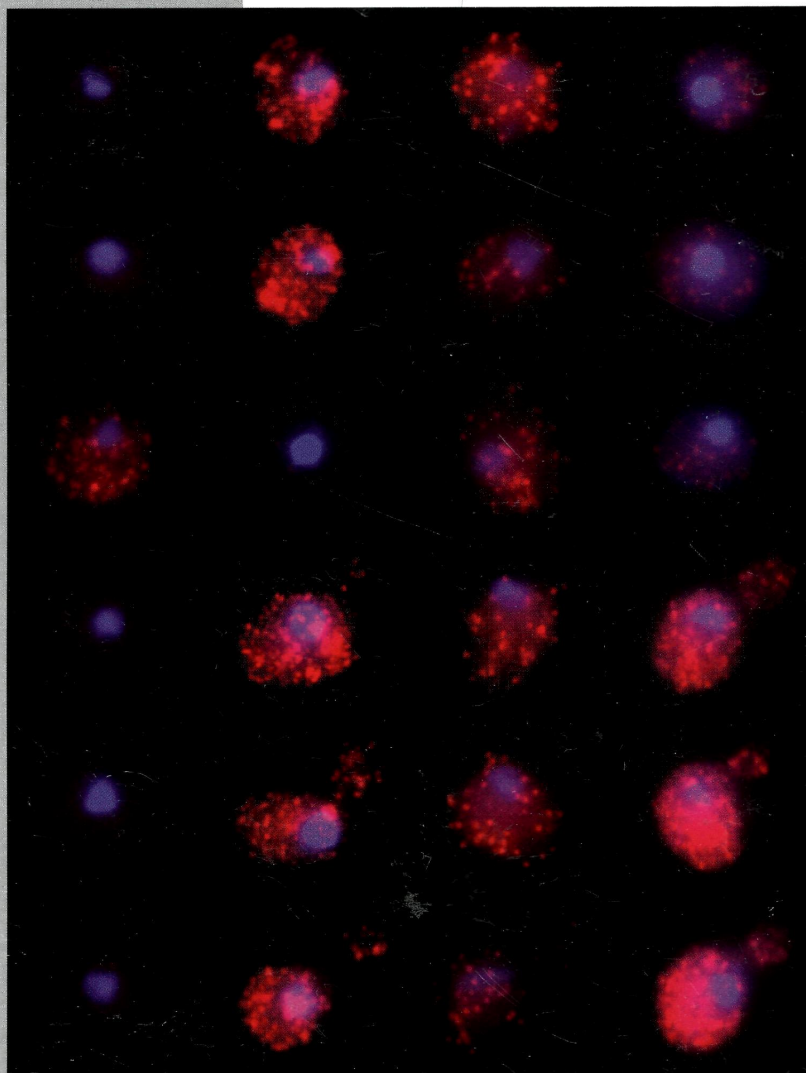


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**Single-Cell Analysis of Ribonucleotide Reductase
Transcriptional and Translational Response to DNA Damage**

Aprotim Mazumder, Katja Tummler,
Mark Bathe, Leona D. Samson

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Cover photograph (Copyright © 2013. American Society for Microbiology. All rights reserved.) Single-molecule detection of *RNR* mRNA (red). Columns 1 and 2 show *RNR1* mRNA; columns 3 and 4 show *RNR2* mRNA and nuclei (blue). Columns 1 and 3 show untreated cells, while columns 2 and 4 show cells treated with 0.02% methyl methanesulfonate for 1 h. The top three rows show G₁ cells; the bottom three show S/G₂ cells. *RNR1* and *RNR2* transcripts are strongly induced in S/G₂ cells with DNA damage. G₁ cells show a much abrogated response in comparison. (See related article on p. 635.)