

Replicative Senescence and Cell Death

We read with great interest the excellent Research News article "Chromosome ends catch fire" by Jean Marx (16 Sept., p. 1656), which chronicles the major discoveries that have been made leading to our present understanding of the role of telomeres in replicative senescence and immortality. However, we would like to point out that replicative senescence is not synonymous with cell death and that a mechanism for senescence is not necessarily the activation of genes that trigger cell death.

Cultured senescent cells do not die immediately. After cessation of division, a majority of them remain viable and metabolically active for long periods in cell culture, and probably in vivo as well. To our knowledge, no one has observed programmed cell death during senescence.

Maarten H. K. Linskens

Calvin B. Harley

Michael D. West

Geron Corporation,
200 Constitution Drive,
Menlo Park, CA 94025, USA

Judith Campisi

Lawrence Berkeley Laboratory,
University of California,
Berkeley, CA 94720, USA

Leonard Hayflick

University of California, San Francisco,
Post Office Box 89,
Sea Ranch, CA 95497, USA

Nathan Goodman

Whitehead Institute, and
Whitehead Institute/MIT Center
for Genome Research,
Cambridge Center,
Cambridge, MA 02142, USA

Eric S. Lander

Department of Biology,
Massachusetts Institute of Technology, and
Director,

Whitehead Institute/MIT Center
for Genome Research,
Cambridge, MA 02139, USA

Rachel Oberai-Soltz

Digital Equipment Corporation,
50 Nagog Park, AK02-2/D8,
Acton, MA 01720, USA

Software Availability

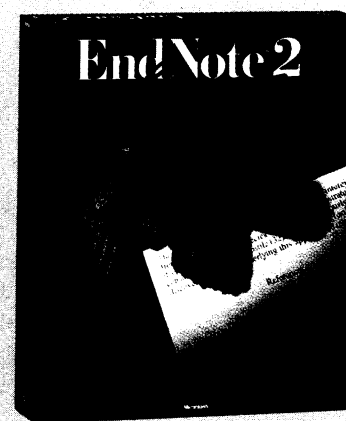
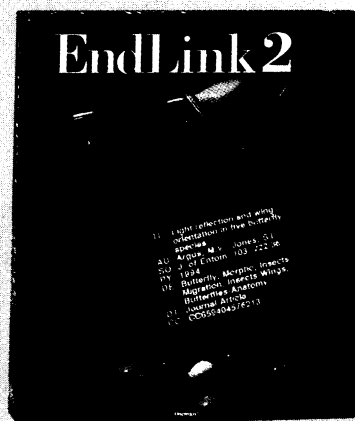
Box 2, the "mouse genome resources and informatics" section (17 June, p. 1730) in the article "Forward and reverse genetic approaches to behavior in the mouse" by J. S. Takahashi *et al.* (17 June, p. 1724), describes how to obtain the MAPMAKER/EXP and MAPMAKER/QTL software developed at the Whitehead Institute. It is not mentioned that both programs are available from the Whitehead Institute for the Digital Equipment Corporation's Alpha systems in DEC OSF/1. For MAPMAKER/EXP and MAPMAKER/QTL distribution for Alpha AXP in DEC OSF/1, contact MAPMAKER, c/o Eric Lander at the address below (Fax: 617-258-6505; Internet: mapmaker@genome.wi.mit.edu). For information on genetics software applications available for Alpha, contact Rachel Oberai-Soltz at Digital Equipment Corporation at the address below (Phone: 508-264-7844; Internet: roberai@akocoa.enet.dec.com).

Corrections and Clarifications

The list of authors of the report "The Clementine mission to the Moon" by S. Nozette *et al.* (16 Dec., p. 1835) should not have included R. A. Simpson.

In the authors' note for the report "Suppression of hyphal formation in *Candida albicans* by mutation of a *STE12* homolog" by Haoping Liu *et al.* (9 Dec., p. 1723), the affiliation for G. R. Fink should have been the Whitehead Institute for Biomedical Research and the Massachusetts Institute of Technology, Cambridge, MA 02142, USA.

NEW! EndNote Plus 2.0



Bibliographies made easy!

More than 75,000
researchers use EndNote
to create bibliographies
and organize references.
Now version 2 makes
this even easier with
great new features such
as term lists, new search
options, and 240 journal
styles! And to make it
even easier, EndLink lets

you import references
from more than 100
sources without typing a
word!

Niles & Associates, Inc.
800 Jones Street
Berkeley, CA 94710

Voice: 800-554-3049
Fax: 510-559-8683
email: endnote@aol.com

Mail to Niles & Associates, Inc., 800 Jones St., Berkeley, CA 94710

☐ Yes! send me information about EndNote for...

☐ Mac ☐ Windows ☐ DOS
Version 2.0 Under Development Version 1.3.3
2.0 not available

Name _____

Address _____

City/State/Zip _____