Unmatched Expertise in Apoptosis

Using its powerful legs, the basilisk lizard generates enough speed to allow this expert escape artist to actually "walk on water." A similar expertise is required when studying the delicate balance between cell death and proliferation. An expertise that Boehringer Mannheim provides.

More ways to quantify apoptosis without radioactivity

With two ELISAs and three in situ kits, Boehringer Mannheim has expanded the array of tools available for specific, reproducible detection of cell death:

- Cell Death Detection ELISA (Fig. 1)
- Cellular DNA Fragmentation ELISA
- Qualitative TUNEL assay kits (Fig. 2).

The most extensive line of products

Boehringer Mannheim offers more kits and reagents for accurate, nonradioactive measurement of proliferation than any other supplier:

- Qualitative flow cytometry or immunohistology kits
- Quantitative ELISAs that measure DNA synthesis or metabolic activity.

Unmatched technical resources to guide your research

We offer the most technical information on cell death and cell proliferation available. We can answer your most challenging apoptosis research questions. Call us today, and see why Boehringer Mannheim is the leading expert in cell death and cell proliferation research.

Reader Service No. 508
Contents

Review
Life, death, and the pursuit of apoptosis
Eileen White 1

Research papers
DNA-binding determinants of the α subunit of RNA polymerase: novel DNA-binding domain architecture
Tamas Gaal, Wilma Ross, Erich E. Blatter, Hong Tang, Xin Jia, V.V. Krishnan, Nuria Assa-Munt, Richard H. Ebright, and Richard L. Gourse 16

Oct-1 POU domain–DNA interactions: cooperative binding of isolated subdomains and effects of covalent linkage
Juli D. Klemm and Carl O. Pabo 27

NF-κB-mediated chromatin reconfiguration and transcriptional activation of the HIV-1 enhancer in vitro
Michael J. Pazin, Philip L. Sheridan, Keith Cannon, Zhaodan Cao, James G. Keck, James T. Kadonaga, and Katherine A. Jones 37

Drosophila TFIIA-S is up-regulated and required during Ras-mediated photoreceptor determination
Martin P. Zeidler, Kyoko Yokomori, Robert Tjian, and Marek Mlodzik 50

The T/ebp null mouse: thyroid-specific enhancer-binding protein is essential for the organogenesis of the thyroid, lung, ventral forebrain, and pituitary
Shioko Kimura, Yoshinobu Hara, Thierry Pineau, Pedro Fernandez-Salgueiro, Cecil H. Fox, Jerrold M. Ward, and Frank J. Gonzalez 60

Hlx homeo box gene is essential for an inductive tissue interaction that drives expansion of embryonic liver and gut
Bernd Hentsch, Ian Lyons, Ruili Li, Lynne Hartley, Thierry J. Lints, Jerry M. Adams, and Richard P. Harvey 70

Abnormal spermatogenesis in RXRβ mutant mice
Philippe Kastner, Manuel Mark, Mark Leid, Anne Gansmuller, William Chin, Jesus M. Grondona, Didier Décimo, Wojciech Krezel, Andrée Dierich, and Pierre Chambon 80

(continued)
Tracheal encoded a bHLH–PAS protein that is an inducer of tracheal cell fates in Drosophila
Ronit Wilk, Isabella Weizman, and Ben-Zion Shilo

Tubulogenesis in Drosophila: a requirement for the trachealless gene product
Daniel D. Isaac and Deborah J. Andrew

The Dictyostelium MAP kinase ERK2 regulates multiple, independent developmental pathways
Chris Gaskins, Alexandra M. Clark, Laurence Aubry, Jeffrey E. Segall, and Richard A. Firtel