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Measurement of unscheduled synthesis by autoradiography
Cleaver, J.E.; Thomas, G.H.
DNA repair: a laboratory manual of research procedures. Volume 1. Part B

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AbstractAbstract

[en] Rasmussen and Painter observed that whereas [^{3}H]-thymidine (dT) is usually incorporated only into S-phase cells during semiconservative DNA replication, in irradiated cell populations [^{3}H]dT was incorporated into DNA at all stages of the cell cycle. The term unscheduled synthesis was coined to describe this autoradiographically detected step of DNA repair and it has since entered general usage. Unscheduled synthesis is readily detectable in tissue cultures damaged by UV light or by chemical mutagens such as 4-nitroquinoline-1-oxide, N-acetoxyacetylaminofluorene, methylnitrosourea, N-methyl-N'-nitro-N-nitrosoguanidine, and others, but only after high doses of x rays (1 to 10 krads), ethylating alkylating agents, and DNA-DNA cross-linking agents. The precise amount of incorporation depends on the particular mutagen, the kind of excision repair it evokes, the patch sizes involved, and on such obvious factors as the concentration of [^{3}H]dT, the duration of labeling, the ability of cells to use exogenous precursors, and the efficiency of the autoradiographic procedure itself. Autoradiography was one of the original methods by which repair was discovered and remains a dramatic visual method

by which repairing cells can be observed
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