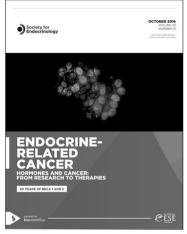
# **ENDOCRINE-**RELATED CANCER

**HORMONES AND CANCER:** FROM RESEARCH TO THERAPIES OCTOBER 2016 **VOLUME 23 NUMBER 10** 

ISSN 1351-0088 (PRINT) ISSN 1479-6821 (ONLINE)

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http://erc.endocrinology-journals.org



The immunofluorescence image depicts DNA double strand breaks (DSBs) occurring in S phase, a critical genetic event where BRCA2 plays a crucial role in homologous recombination. The colon cancer cell line HT-29 was exposed to SN-38, a topoisomerase-1 inhibitor and treated with bromodeoxyuridine (BrdU). Two-color immunofluorescence staining using anti-BrdU and anti-53BP1 antibodies showed S-phase cell nuclei and the cytoplasm stained in red, together with the DSB nuclear foci detected by anti-53BP1

Credit: M Tahara & K Sugano, Tochigi Cancer Center Research Institute, Tochiqi,

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