

ENDOCRINE- RELATED CANCER

**HORMONES AND CANCER:
FROM RESEARCH TO THERAPIES**

20 YEARS OF BRCA 1 AND 2



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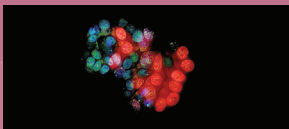
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THIS ISSUE'S COVER

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 staining.

Credit: M Tahara & K Sugano, Tohigi Cancer Center Research Institute, Tohigi, Japan

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