



The Research Center for Animal Science

RCAS

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# The laying hen: a model of spontaneous ovarian cancer

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Absence of an effective early detection test makes ovarian cancer (OVCA) a fatal malignancy of women. OVCA, in most cases, is detected at late stages when the 5-year rates of survival of patients become <30% as opposed to >90% if detected at early stage with the tumor is limited to the ovary. No symptoms at early stage and the problems of accessibility to significant barriers to the development of an early detection test; an animal model of spontaneous OVCA is urgently needed.

Laying hens are the only widely available and easily accessible animals that develop OVCA and leiomyoma (fibroids, a type of uterine tumor) spontaneously. This study examined the suitability of laying hen as a model to generate information on early changes associated with OVCA development and their detection to establish of an early detection test.



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