Aims and scope
The Journal of Poultry Science (JPS), an official international journal published quarterly by the Japan Poultry Science Association (JPSA), was first issued in 1964 as the Japanese Poultry Science. JPS welcomes original articles that contain the results of fundamental and applied researches in the area of genetics and breeding, nutrition and feed, anatomy and histology, reproduction, management and hygiene, general physiology, and processing and products. Articles published in JPS typically cover valuable researches on domestic fowls, but we welcome research outcomes on wild birds that address to solve fundamental questions in the field of poultry science. JPS publishes following three types of articles. Full papers: The relevant background, experimental designs and methods, results and discussion should be logically presented, and novel findings must be included. Research notes: The experimental results that contain novel findings but may represent less comprehensive research outcomes. The relevant background, experimental designs and methods, results and discussion should be logically presented in compact. Review articles: The contributors of review articles are invited based on the recommendation of the editorial board. Four issues of JPS will be published each year through an on-line J-STAGE system operated by the Japan Science and Technology Agency.

1. Editorial Policy
The journal supports and adheres to the guidelines and best practices including Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals (http://www.icmje.org/icmje-recommendations.pdf) by the International Committee of Medical Journals Editors (ICMJE) and the Principles of Transparency and Best Practice in Scholarly Publishing (a joint statement by the Committee on Publication Ethics (COPE), the Directory of Open Access Journals (DOAJ), the World Association for Medical Editors (WAME) and the Open Access Scholarly Publishers Association (OASPA); (http://doaj.org/bestpractice).

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JPS publishes the papers of basic and applied research in the field of poultry science including the area of genetics and breeding, nutrition and feed, anatomy and histology, reproduction, general physiology, management and hygiene, processing and products. We also welcome research articles on wild birds that contribute to solve fundamental issues in poultry science. A limited number of review papers will be considered for publication if they contribute significant advancement to a subject area.

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Effects of Repeated Artificial Insemination on the Structure and Function of Oviducal Sperm Storage Tubules in Chickens, *Gallus gallus*

Shubash C. Das¹, Naohiro Nagasaka² and Yukinori Yoshimura¹

¹Graduate School of Biosphere Science, Higashi-Hiroshima 739-8528, Japan

²Animal Research Center, Kochi, Takaoka-Gun 739-1233, Japan

Running title: AI and Sperm Storage Tubule

Correspondence: Dr. Yukinori Yoshimura, Graduate School of Biosphere Science, Higashi-Hiroshima 739-8528, Japan. (E-mail: yyosimu@hiroshima-u.ac.jp)
The goal of this study was to determine the mechanism by which the fertility was declined.  

**Keywords**: artificial insemination, chicken, fertility decline, oviduct, sperm storage tubules

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**Keywords** should be given with three to six words at the bottom of abstract, and arranged in alphabetical order.

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**Page 3 and following pages**

**Introduction**

In hens, spermatozoa are stored for prolonged periods after single artificial insemination (AI) or mating within the sperm storage tubules (SST) which are located in the utero-vaginal junction (UVJ) and infundibulum, whereas the UVJ is the primary site for the sperm storage (Fujii and Tamura, 1963; Bobr *et al*., 1964; Lake, 1975). Yoshimura *et al.* (2005) reported

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**Materials and Methods**

*Experimental birds*

Rhode Island Red hens regularly laying 5 or more eggs in a sequence.

**Results**

Lymphocytes were distributed in the stroma and the SST epithelium (Fig. 1). Figure 2 shows the results of...
**Discussion**

We are reporting the structures and sperm storage ability of SST of Rhode Island Red hens whose fertility was declined by repeated AI with ---------------------

Do not make Conclusion section, whereas the study conclusion should be stated at the end of Discussion.

**Acknowledgements**

This work was supported by Grant-in-Aid for Scientific Research from -----  

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Explanation of figures

Fig. 1. Structural analysis of sperm storage tubules and lymphocytes population in virgin and repeatedly inseminated hens. (a) outer diameter of ---- within each region of UVJ (P < 0.05).

Captions of the figures should be placed on one page separated from the figures.

Examples for Tables and Figures (Prepare on separate pages from the text)

Table 1. Distribution of the reaction products of peroxidase activity in the surface epithelium of oviducts in immature, laying and non-laying hens

<table>
<thead>
<tr>
<th>Birds</th>
<th>infundibulum</th>
<th>magnum</th>
<th>isthmus</th>
<th>uterus</th>
<th>UVJ</th>
<th>vagina</th>
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<tr>
<td>Immature</td>
<td>-</td>
<td>0</td>
<td>-</td>
<td>0</td>
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<td>Laying</td>
<td>0</td>
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<td>F</td>
<td>0</td>
<td>0</td>
<td>3,689 ± 335\textsuperscript{b}</td>
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<td>Non-laying</td>
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<td>0</td>
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<td>620 ± 345\textsuperscript{a}</td>
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Values in the vagina are mean ± SE (n = 4 each), and those with different superscripts (a, b and c) are significantly different (P < 0.01). (F) = The positive area was a few. (-) = not examined because the oviduct was not developed in immature hens. UVJ = utero-vaginal junction.
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