**The Journal of Poultry Science**

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| The first and last names of each author should be written in full spelling. Middle name should be written as the initial. |  |
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| **Second page** | |
| Abstract should be written within 300 words. |  |
| Add keywords (three to six words) at the bottom of Abstract in an alphabetical order. |  |
| **Third and the following pages** | |
| The manuscript should be written in the order of **Introduction, Materials and Methods, Results, Discussion, Acknowledgments, Author Contributions, Conflicts of Interest, References, Figure Legends, Figures, and Tables.** |  |
| **References** |  |
| References should be numbered consecutively in the order in which they are first mentioned in the text, such as ‘[1]’. Two or more references cited at the same site in the text should be arranged chronologically and separated by commas or hyphen, such as ‘[3, 5]’ or ‘[3-5]’. |  |
| Articles in non-peer reviewed journals, meeting abstracts, personal communications based on unpublished work should not be cited. All authors should be included in the References section unless there are more than five, in which case only the first five authors should be given, followed by ‘et al.’. Individual entries should be formatted as follows based on the type of materials cited. |  |
| ***Journal articles****:*  [1] Ichikawa Y, Mizushima S, Hirohashi N, Sasanami T. Egg development after in vitro insemination in Japanese quail (Coturnix japonica). J Poult Sci, 39, 14-21, 2002. https://doi.org/10.2141/jpsa.2023001 |  |
| ***Book****:*  [2] Nalbandov AV. Advances in Neuroendocrinology. 2nd ed. University of Illinois Press. Urbana, 1963. |  |
| ***Chapter in a book****:*  [3] Simkiss K, Taylor TG. Shell formation. In: Physiology and Biochemistry of the Domestic Fowl (Bell DJ and Freeman BM eds.), Academic Press, London, Vol. 3, pp. 1331-1343, 1971. |  |
| ***Web page:***  [4] Tanaka M. J-Poultry Web. http://www.j-poult.com/topic20.htm. [accessed on September 10, 2009] |  |
| ***Patent:***  [5] Suzuki M. Method of in vitro fertilization. Japan Patent No. 674562, 2008. |  |
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| Line numbers should be given on each page. |  |

*Page 1*

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

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Running title: AI and Sperm Storage Tubule

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**Title:**

Nouns should be written as a capital letters and no period should be put at the end. The scientific names of animals and plants, and Latin adverbs should be written in italics or underlined.

**Authors:**

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*Page 2*

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

**Abstract** should be written within 300 words or less on page 2.

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

*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 [1-3]. Yoshimura *et al*. [4] reported ----------.

## **Materials and Methods**

Authors must also include in the manuscript text the ethical approval number provided by the Animal Experiment Committee of affiliated institution.

*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 -----

If the work is supported by any grants, Acknowledgment should touch that research grants.

**Author Contributions**

Authors must include a section which details the contributions of individual authors. Each author can be indicated by their name. For example, Kazuhisa Honda conducted the experiments; Tomohiro Sasanami analyzed the data; Taro Kakin designed the experiments; Hanako Kakin wrote the paper.

**Conflicts of Interest**

The authors declare no conflict of interest.

Authors must identify and disclose any financial and personal relationships with other people or organizations that could inappropriately influence their work. If there is no conflict of interest, please state "The authors declare no conflict of interest."

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Journal article

[1] Ichikawa Y, Mizushima S, Hirohashi N, Sasanami T. Egg development after in vitro insemination in Japanese quail (Coturnix japonica). J Poult Sci, 39, 14-21, 2002. https://doi.org/10.2141/jpsa.2023001

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Patent

[5] Suzuki M. Method of in vitro fertilization. Japan Patent No. 674562, 2008.

Figure Legends

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).

Figure legends should be placed on one page separated from the figures.

Abbreviations used in the figure must be defined in the caption.

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 | | | | | | |
| Birds | Area of the reaction products distribution (m2/10,000 m2) | | | | | |
| infundibulum | magnum | isthmus | uterus | UVJ | vagina |
| Immature | － | 0 | － | 0 | － | 0a |
| Laying | 0 | 0 | F | 0 | 0 | 3,689 ± 335b |
| Non-laying | 0 | 0 | 0 | 0 | 0 | 620 ± 345a |
| 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. | | | | | | |



Fig.1 Das *et.al*

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ニワトリの卵管精子貯蔵細管の構造と機能に及ぼす高頻度人工授精の影響

シュバッシュ C. ダス1・長坂直比路2 ・吉村幸則1

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２高知県畜産試験場　高知県高岡郡佐川町中組789-1233

ニワトリの卵管内で，精子は-------------------。

キーワード：人工受精，受精率低下，ニワトリ，卵管，精子貯蔵管