A Manuscript Microscope 'Sentence Audit' of:

Genetic characteristics of Apodemus speciosus at Akiyoshidai Quasi-National Park in Yamaguchi Prefecture

What is the Manuscript Microscope Sentence Audit?

The Manuscript Microscope Sentence Audit is a research paper introspection system that parses the text of your manuscript into minimal sentence components for faster, more accurate, enhanced proofreading.

Why use a Sentence Audit to proofread your manuscript?

- Accelerated Proofreading: Examine long technical texts in a fraction of the usual time.
- Superior Proofreading: Detect subtle errors that are invisible to traditional methods.
- Focused Proofreading: Inspect each individual sentence component in isolation.
- Reliable Proofreading: Ensure every single word of your manuscript is correct.
- Easier Proofreading: Take the hardship out of crafting academic papers.

Bonus 1: Improved Productivity: Rapidly refine rough drafts to polished papers.
Bonus 2: Improved Authorship: Cultivate a clear, concise, consistent, writing style.
Bonus 3: Improved Reputation: Become known for rigorously precise publications.

Manuscript Source: https://www.biorxiv.org/content/10.1101/2021.03.21.436340v1

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Audit Date: 31/03/21 **Audit Identifier:** X6E999U1G21VI0W **Code Version:** 3.6

Features of the Sentence Audit:

The Sentence Audit combines two complementary proofreading approaches:

1. Each sentence of your text is parsed and displayed in isolation for focused inspection.
2. Each individual sentence is further parsed into Minimal Sentence Components for a deeper review of the clarity, composition and consistency of the language you used.

The Minimal Sentence Components shown are the smallest coherent elements of each sentence of your text as derived from it's conjunctions, prepositions and selected punctuation symbols (i.e. commas, semicolons, round and square brackets).

The combined approaches ensure easier, faster, more effective proofreading.

Comments and Caveats:

• The sentence parsing is achieved using a prototype natural language processing pipeline written in Python and may include occasional errors in sentence segmentation.

• Depending on the source of the input text, the Sentence Audit may contain occasional html artefacts that are parsed as sentences (E.g. "Download figure. Open in new tab").

• Always consult the original research paper as the true reference source for the text.

Contact Information:

To get a Manuscript Microscope Sentence Audit of any other research paper, simply forward any copy of the text to John.James@OxfordResearchServices.com.

All queries, feedback or suggestions are also very welcome.

Research Paper Sections:

The sections of the research paper input text parsed in this audit.

Section No.	Headings	Sentences
Section: 1	Abstract	6
Section: 2	Introduction	14
N/A	--- --- --- --- --- --- ---	0
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The Sentence Audit Of The Research Paper

Title **Genetic characteristics of Apodemus speciosus at Akiyoshidai Quasi-National Park in Yamaguchi Prefecture**

S1 [001] Abstract

S1 [002] The large Japanese field mouse (Apodemus speciosus) is a small rodent endemic to Japan.

The large Japanese field mouse ...
... (Apodemus speciosus) ...
... is a small rodent endemic ...
... to Japan.

S1 [003] The mice have a genetic characteristic in which the number of chromosomes differs between those from western Japan and those from eastern Japan.

The mice have a genetic characteristic ...
... in which the number ...
... of chromosomes differs ...
... between those ...
... from western Japan ...
... and those ...
... from eastern Japan.

S1 [004] A. spesiosus, found throughout Japan, is used as a model animal for geogenetics and monitoring of radiation effects of wildlife.

A. spesiosus, ...
... found ...
... throughout Japan, ...
... is used ...
... as a model animal ...
... for geogenetics ...
... and monitoring ...
... of radiation effects ...
... of wildlife.

S1 [005] In this present study, to elucidate the genetic characteristics of the mice Akiyoshidai Quasi-National Park in Yamaguchi Prefecture, we investigated mitochondrial DNA and chromosome numbers.

In this present study, ...
... to elucidate the genetic characteristics ...
... of the mice Akiyoshidai Quasi-National Park ...
... in Yamaguchi Prefecture, ...
... we investigated mitochondrial DNA ...
... and chromosome numbers.

S1 [006] As a result, A. speciosus from Yamaguchi Prefecture were classified into the Honshu-Shikoku-Kyushu group and had a western Japan-type chromosome set of 2n=46; however, some Yamaguchi Prefecture mice formed a genetic cluster in Yamaguchi Prefecture, suggesting that continuous monitoring is needed to reveal the dynamics of genetic diversity.

As a result, ...
... A. speciosus ...
... from Yamaguchi Prefecture were classified ...
... into the Honshu-Shikoku-Kyushu group ...
... and had a western Japan-type chromosome set ...
... of 2n=46; ...
... however, ...
... some Yamaguchi Prefecture mice formed a genetic cluster ...
... in Yamaguchi Prefecture, ...
... suggesting ...
... that continuous monitoring is needed ...
... to reveal the dynamics ...
... of genetic diversity.

S2 [007] Introduction

S2 [008] The large Japanese field mouse (Apodemus speciosus) is a small rodent species endemic to Japan.

The large Japanese field mouse ...
... (Apodemus speciosus) ...
... is a small rodent species endemic ...
... to Japan.

S2 [009] A. speciosus inhabit the entire Japanese islands except for Okinawa and is frequently used as a model for studies of geographic isolation.

A. speciosus inhabit the entire Japanese islands except ...
... for Okinawa ...
... and is frequently used ...
... as a model ...
... for studies ...
... of geographic isolation.

S2 [010] The genetics of A. speciosus is characterized by different chromosome numbers in the east and west of Japan within a species.

The genetics ...
... of A. speciosus is characterized ...
... by different chromosome numbers ...
... in the east ...
... and west ...
... of Japan ...
... within a species.

S2 [011] This characteristic karyotype is caused by a Robertsonian translocation (Shimba and Kobayashi 1969) and these translocated chromosomes were detected by FISH analysis (Yamagishi et al. 2012), which indicate that the mice are important species for genetic research.

This characteristic karyotype is caused ...
... by a Robertsonian translocation ...
... (Shimba ...
... and Kobayashi 1969) ...
... and these translocated chromosomes were detected ...
... by FISH analysis ...
... (Yamagishi et al. 2012), ...
... which indicate ...
... that the mice are important species ...
... for genetic research.

S2 [012] Recently, A. speciosus was used as animals to monitor the effects of radiation around nuclear power plants.

Recently, ...
... A. speciosus was used ...
... as animals ...
... to monitor the effects ...
... of radiation ...
... around nuclear power plants.

S2 [013] Especially, A. speciosus was used to monitor spermatogenesis and chromosomal abnormalities in Fukushima Prefecture (Okano et al. 2016; Takino et al. 2017; Ariyoshi et al. 2018; Fujishima et al. 2020).

Especially, ...
... A. speciosus was used ...
... to monitor spermatogenesis ...
... and chromosomal abnormalities ...
... in Fukushima Prefecture ...
... (Okano et al. 2016; ...
... Takino et al. 2017; ...
... Ariyoshi et al. 2018; ...
... Fujishima et al. 2020).

S2 [014] Decreases in the number of hematopoietic progenitor cells and chromosomal abnormalities were reported (Ariyoshi et al. 2020; Kawagoshi et al. 2017), indicating that A. speciosus was actually important in clarifying the effects of radiation on wildlife.

Decreases ...
... in the number ...
... of hematopoietic progenitor cells ...
... and chromosomal abnormalities were reported ...
... (Ariyoshi et al. 2020; ...
... Kawagoshi et al. 2017), ...
... indicating ...
... that A. speciosus was actually important ...
... in clarifying the effects ...

... of radiation ...

... on wildlife.

S2 [015] Although much genetic analysis has been performed, the sequence information is not sufficient to cover the whole of Japan.

Although much genetic analysis has been performed, ...

... the sequence information is not sufficient ...

... to cover the whole ...

... of Japan.

S2 [016] Many geogenetic studies were performed especially in the Japanese islands, but the information available on Honshu is not comprehensive.

Many geogenetic studies were performed especially ...

... in the Japanese islands, ...

... but the information available ...

... on Honshu is not comprehensive.

S2 [017] In the island genetics research, genetic diversity in the Seto inland sea region, Hokkaido and other remote islands were reported (Sato et al. 2017; Suzuki et al. 2015).

In the island genetics research, ...

... genetic diversity ...

... in the Seto inland sea region, ...

... Hokkaido ...

... and other remote islands were reported ...

... (Sato et al. 2017; ...

... Suzuki et al. 2015).

S2 [018] The research leads to the elucidation of the genetic diversity of A. speciosus on the islands; however, A. speciosus needs more genetic consideration in each region of Honshu.

The research leads ...

... to the elucidation ...

... of the genetic diversity ...

... of A. speciosus ...

... on the islands; ...

... however, ...

... A. speciosus needs more genetic consideration ...

... in each region ...

... of Honshu.

S2 [019] In this present study, we focused on mitochondrial DNA (mtDNA) sequences and chromosome numbers to clarify the genetic information of A. speciosus in Yamaguchi Prefecture, mainly in Akiyoshidai Quasi-National Park.

In this present study, ...

... we focused ...

... on mitochondrial DNA ...

... (mtDNA) ...

... sequences ...

... and chromosome numbers ...

... to clarify the genetic information ...

End of Sample Audit

This is a truncated Manuscript Microscope Sample Audit.

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