A Manuscript Microscope 'Sentence Audit' of:

UNC-45A is Highly Expressed in the Proliferative Cells of the Mouse Genital Tract and in the Microtubule-Rich Areas of the Mouse Nervous System

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.
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- 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.
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Manuscript Source: https://www.biorxiv.org/content/10.1101/2021.03.19.436218v1

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Audit Date: 31/03/21 **Audit Identifier:** LP46PHE198H2L3Q **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	12
N/A	--- --- --- --- --- --- ---	0
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The Sentence Audit Of The Research Paper

Title # UNC-45A is Highly Expressed in the Proliferative Cells of the Mouse Genital Tract and in the Microtubule-Rich Areas of the Mouse Nervous System

S1 [001] Abstract

S1 [002] UNC-45A is a cytoskeletal-associated protein with a dual and non-mutually exclusive role as a regulator of the acto-myosin system and as a Microtubule (MT)-destabilizing protein.

UNC-45A is a cytoskeletal-associated protein ...

... with a dual ...

... and non-mutually exclusive role ...

... as a regulator ...

... of the acto-myosin system ...

... and as a Microtubule ...

... (MT)-destabilizing protein.

S1 [003] UNC-45A is overexpressed in human cancers including in ovarian cancer patients resistant to the MT-stabilizing drug Paclitaxel.

UNC-45A is overexpressed ...

... in human cancers including ...

... in ovarian cancer patients resistant ...

... to the MT-stabilizing drug Paclitaxel.

S1 [004] Mapping of UNC-45A in the mouse upper genital tract and central nervous system reveals its enrichment in highly proliferating and prone to remodeling cells and in microtubule-rich areas of in the ovaries and in neurons respectively.

Mapping ...

... of UNC-45A ...

... in the mouse upper genital tract ...

... and central nervous system reveals its enrichment ...

... in highly proliferating ...

... and prone ...

... to remodeling cells ...

... and in microtubule-rich areas ...

... of ...

... in the ovaries ...

... and in neurons respectively.

S1 [005] In both apparatuses UNC-45A is also abundantly expressed in the ciliated epithelium.

In both apparatuses UNC-45A is also abundantly expressed ...

... in the ciliated epithelium.

S1 [006] Because regulators of acto-myosin contractility and MT stability are essential for the physiopathology of the female reproductive tract and of neuronal development our findings suggest that UNC-45A may have a role in ovarian cancer initiation and development and in neurodegeneration.

Because regulators ...
... of acto-myosin contractility ...
... and MT stability are essential ...
... for the physiopathology ...
... of the female reproductive tract ...
... and ...
... of neuronal development our findings suggest ...
... that UNC-45A ...
... may have a role ...
... in ovarian cancer initiation ...
... and development ...
... and in neurodegeneration.

S2 [007] Introduction

S2 [008] UNC-45A is a member of the UCS (UNC-45/CRO1/She4p) protein family (1, 2) with a dual and non-mutually exclusive role as a regulator of the acto-myosin system (3, 4) and as a MT-destabilizing protein (5–7).

UNC-45A is a member ...
... of the UCS ...
... (UNC-45/CRO1/She4p) ...
... protein family ...
... (1, 2)...
... ...
... with a dual ...
... and non-mutually exclusive role ...
... as a regulator ...
... of the acto-myosin system ...
... (3, 4)...
... ...
... and as a MT-destabilizing protein ...
... (5–7).

S2 [009] As a key regulator of cytoskeletal activities UNC-45A participates in a number of cellular functions including cytokinesis (8–10), exocytosis (11), and axonal growth (12).

As a key regulator ...
... of cytoskeletal activities UNC-45A participates ...
... in a number ...
... of cellular functions including cytokinesis ...
... (8–10), ...
... exocytosis ...
... (11), ...
... and axonal growth ...
... (12).

S2 [010] UNC-45A is overexpressed in breast and ovarian cancer as compared to their normal counterpart (8–10) and in ovarian cancer patients that are resistant to the microtubule (MT)-stabilizing drug paclitaxel in ovarian cancer (6).

UNC-45A is overexpressed ...
... in breast ...
... and ovarian cancer ...
... as compared ...
... to their normal counterpart ...
... (8–10) ...
... and in ovarian cancer patients ...
... that are resistant ...
... to the microtubule ...
... (MT)-stabilizing drug paclitaxel ...
... in ovarian cancer ...
... (6).

S2 [011] Regulators of acto-myosin contractility and MT stability are essential for both ovarian cancer cells proliferation and neuronal development.

Regulators ...
... of acto-myosin contractility ...
... and MT stability are essential ...
... for both ovarian cancer cells proliferation ...
... and neuronal development.

S2 [012] For instance, dysregulation of the Rho/ROCK signaling pathway is commonly found in ovarian cancer (13–16) and implicated in the pathophysiology of nervous system (17, 18) (19, 20) (21) (22).

For instance, ...
... dysregulation ...
... of the Rho/ROCK signaling pathway is commonly found ...
... in ovarian cancer ...
... (13–16) ...
... and implicated ...
... in the pathophysiology ...
... of nervous system ...
... (17, 18)...
... ...
... (19, 20)...
... ...
... (21) ...
... (22).

S2 [013] A number of MT-destabilizing proteins are also expressed in both neurons (23–27) and cancer cells including ovarian cancer cells (28–30) where they play roles spanning from regulating symmetrical and asymmetrical cell division (31) to regulate MT mass (6) to regulate sensitivity to MT-targeting agents (6, 32).

A number ...
... of MT-destabilizing proteins are also expressed ...
... in both neurons ...

... (23–27) ...
... and cancer cells including ovarian cancer cells ...
... (28–30) ...
... where they play roles spanning ...
... from regulating symmetrical ...
... and asymmetrical cell division ...
... (31) ...
... to regulate MT mass ...
... (6) ...
... to regulate sensitivity ...
... to MT-targeting agents ...
... (6, 32)...
... .

S2 [014] In this study we investigated the UNC-45A expression pattern in the mouse upper genital tract and in the brain.

In this study we investigated the UNC-45A expression pattern ...
... in the mouse upper genital tract ...
... and in the brain.

S2 [015] In the ovaries and fallopian tube, we found that UNC-45A is enriched in highly proliferating and prone to remodeling cells.

In the ovaries ...
... and fallopian tube, ...
... we found ...
... that UNC-45A is enriched ...
... in highly proliferating ...
... and prone ...
... to remodeling cells.

S2 [016] In the brain we found that UNC-45A is expressed in the microtubule-rich regions of the mouse central nervous system and in the mouse nerve roots.

In the brain we found ...
... that UNC-45A is expressed ...
... in the microtubule-rich regions ...
... of the mouse central nervous system ...
... and in the mouse nerve roots.

S2 [017] We also found that UNC-45A is abundantly expressed in the cilia of cells in both the upper genital tract and the brain.

We also found ...
... that UNC-45A is abundantly expressed ...
... in the cilia ...
... of cells ...
... in both the upper genital tract ...
... and the brain.

S2 [018] Taken together these findings suggest that UNC-45A may play a role in the physiology and pathology of the female reproductive apparatus and of the central nervous system.

End of Sample Audit

This is a truncated Manuscript Microscope Sample Audit.

To get the full audit of this text (or any other research paper),
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John.James@OxfordResearchServices.com
