# **High-level accessibility review - LAA**

(American Society for Microbiology (ASM) Journals Platform)

# **Primary Point of Contact**

Austin Bramhall Project Manager

Deque Systems, Inc.
Web: www.deque.com

Email: austin.bramhall@deque.com

March 28, 2024



# **High-level accessibility review - LAA**

# (American Society for Microbiology (ASM) Journals Platform)

# Contents

Summary3	
Top 2 problems for the American Society for Microbiology (ASM) Journals Platform 3	
Comparison to 2019 [link to previous evaluation]	
3	
Accessibility findings4	
Project wide issues4	
1. Landing Page5	
2. Search Results6	
3. Individual Search Result7	
4 Advanced Search	

# American Society for Microbiology (ASM) Journals Platform **Summary**

# Top 2 problems for the American Society for Microbiology (ASM) Journals Platform

This high-level assessment covers limited portions and functionality of the American Society for Microbiology (ASM) Journals Platform. The assessment revealed issues with assistive technology compatibility, resulting in some users missing information required to perceive and understand content, and to operate functions. It is important to keep in mind that the findings represent a high-level assessment, and do not reflect the results of a Deque Comprehensive Web Assessment.

- 1. **Label in Name** Throughout the site, many controls make use of a programmatic label that is meant to provide a label to Assistive Technology that is more descriptive. However, the programmatic labels often do not include the visible label that is present or they are used to obscure labels that are nested in the control. This results in a potential problem for users of voice activation software who often rely on a visible label to know what voice command will allow them to interact with a given control.
- 2. **Color Contrast** Contrast issues are very common in pages for an individual item/search result. Also, some issues were observed with icons and some focus indicators when gathering screenshots but these were not thoroughly tested nor recorded due to time constraints.

# Comparison to 2019 [link to previous evaluation]

#### **Conformance Section**

- no auto-rotating content was observed

## **Document Structure Section**

- a sample PDF was found to be tagged, but is not PDF/UA compliant as it still contains untagged content and other structure-related issues
- headings were observed to be correctly organizing content, although some suggestions were found to not be implemented in the individual article page
- lists were found to be correctly implemented
- the homepage 'rotator content' is no longer present
- a sample PDF was found to have a language defined

## **Keyboard Support Section**

 many keyboard-specific issues still remain on the site, in particular issues were observed with: sufficient visible focus indicators, invisible content being included in focus order, mouse-specific event handlers not having a keyboard equivalent, etc.

#### **Navigation Section**

- in Deque's interpretation, the page names are minimally conformant
- a sample PDF was found to have a descriptive title
- in Deque's interpretation, the "-" links are minimally conformant to SC 2.4.2 as they can derive context from the paragraph they are nested in
- figure links no longer open modal dialogs (lightboxes)

#### **Forms and Data Submission Section**

 on the sample pages provided to Deque, forms were found to be properly labeled and labels were found to be programmatically associated with inputs except for form elements in 'Refine Search' section on Search Results and Advanced Search pages

#### **Images Section**

- appropriate alt values were observed for images found in sample pages provided to Deque
- no image of text issues were observed on sample pages provided to Deque

#### **Color and Visual Characteristics Section**

- the reported low contrast icons on the site were not observed on sample pages provided to Deque
- the reported low contrast icons and text issues on a sample PDF were not observed

# **Custom Elements and Dynamic Content Section**

- no auto-rotating content was observed
- disclosure widgets (accordions) are still missing required roles and attributes
- tabs were not observed on an individual Article / search result page
- journal options in the 'Published in' auto-complete combobox can be read by screen readers
- expanding menu items are properly labeled

# **Accessibility findings**

# **Project wide issues**

The issues presented in this section were identified in multiple pages and are recorded here to avoid repetition. These are applicable to each screen. Due to particularities, similar issues are still reported on a page per page basis, where applicable.

# **Automated findings using Axe**

Issues found through automated testing come from the Axe plugin, an open source accessibility testing tool that is available for Chrome, Firefox and Edge. Details here: <a href="https://www.deque.com/products/axe/">https://www.deque.com/products/axe/</a>.

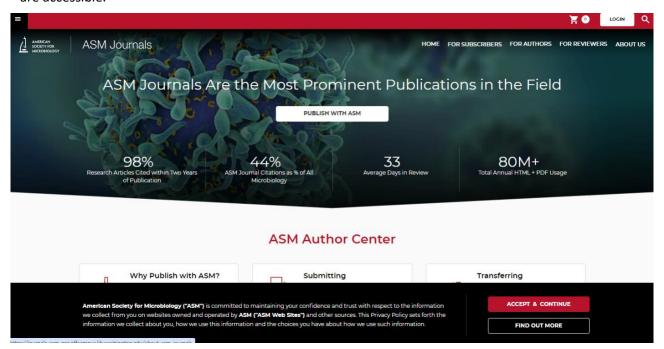
1. **SC 2.5.3 A** – The 'Shopping Cart' control in the top header has a programmatic name defined through an aria-label that does not include the visible label text (interrupted) in it. The visible label text in this case, is the dynamically changing number of items currently in the cart.

#### Additional manual findings using NVDA screen reader

# 1. Landing Page

Source: https://journals-asm-org.offcampus.lib.washington.edu/

**Test case:** Test initial interface/landing page to ensure menus, sub-menus, search box, images, icons, etc. are accessible.



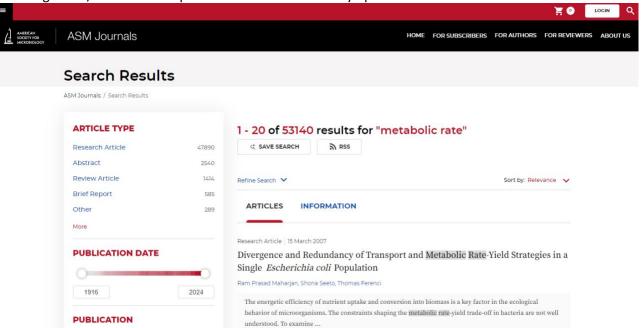
# **Automated findings using Axe**

No unique issues were found using automated methods.

# Additional manual findings using NVDA screen reader

## 2. Search Results

**Source:** https://journals-asm-org.offcampus.lib.washington.edu/action/doSearch?AllField=metabolic+rate **Test case:** From the initial landing page, conduct a search for: metabolic rate. Test search results page, including filters/refine search "publication date" and sort by options.



# **Automated findings using Axe**

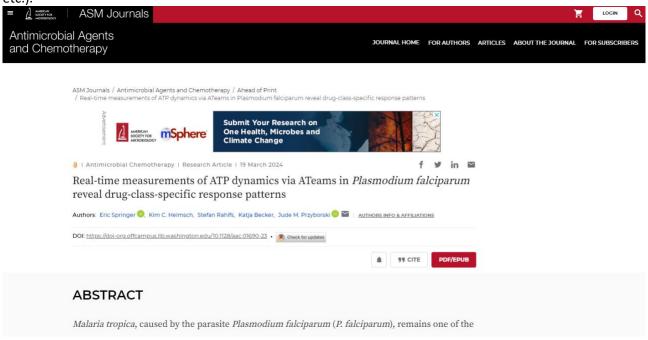
1. **SC 2.5.3 A** – The 'Save Search' control has a programmatic name defined using aria-label that does not include the visible text label (uninterrupted) in it.

# Additional manual findings using NVDA screen reader

#### 3. Individual Search Result

**Source:** https://journals-asm-org.offcampus.lib.washington.edu/doi/10.1128/aac.01690-23

**Test case:** Test individual search result landing page "Real-time measurements of ATP Dynamics via ATeams in Plasmodium falciparum reveal drug-class specific response patterns" & test actual document (PDF, video, etc.).



#### **Automated findings using Axe**

- 1. **SC 4.1.2** A Both 'Advertisement' IFRAME elements do not have a unique title value, as they both share the same title value.
- 2. **SC 2.1.1 A** The 'Article Navigation' widget contains a 'group' role that is scrollable but does not have a focusable element nested within it or it itself is not focusable.
- 3. **SC 1.3.1 A** The 'socials' list widget is marked up as a element and it contains a child element that is not allowed to be nested within it: <div>
- 4. **SC 2.5.3 A** The 'Authors' section contains two controls that have a programmatic name defined (ORCID identifier) using aria-label that does not include the text label (uninterrupted) in it.
- 5. **SC 2.5.3 A** The 'Authors' section contains a control that has a programmatic name defined (Email address) using aria-label that does not include the text label (uninterrupted) in it.
- 6. **SC 2.5.3 A** The 'Cite' and 'PDF/EPUB' controls have a programmatic name defined using aria-label that does not include the visible text label (uninterrupted) in it.
- 7. **SC 1.4.3 AA** Throughout the page, many text elements use a light grey (#a2b1b6) against a white background (#ffffff) which results in a 2.21:1 contrast ratio where a minimum 4.5:1 is expected.
- 8. **SC 1.4.3 AA** The "Powered by" text is low in contrast with a 1.49:1 contrast ratio where a minimum 4.5:1 is expected.

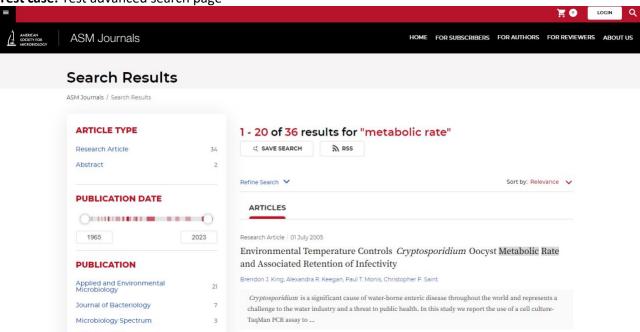
## Additional manual findings using NVDA screen reader

## 4. Advanced Search

Source: https://journals-asm-

org. of f campus. lib. was hington. edu/action/do Search? field 1= Title & text 1= metabolic + rate & field 2= All Field & text 2= & publication = & Ppub=

Test case: Test advanced search page



# **Automated findings using Axe**

1. **SC 2.5.3 A** – The 'Save Search' control has a programmatic name defined using aria-label that does not include the visible text label (uninterrupted) in it.

# Additional manual findings using NVDA screen reader