# advanced library technologies

#### Using AI for the Fastest, Most Reliable Article Linking From Any Point of Discovery

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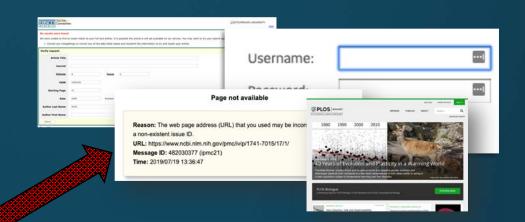
## Third Iron Mission: Best Linking



Use AI-based technology to provide the best, fastest, and most reliable links to full text articles from any point of discovery, in or outside the library

Facilitate use of LibKey by popular open web discovery services so researchers can easily connect to library content

## Link resolver fail points



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From Wiens to Robel: A Review of Grassland-Bird Habitat Selection



Using link resolvers with library services

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Overlapping sources filled with library jargon confuses users. A different experience from different publishers, including pop-up ads adding clicks and confusion

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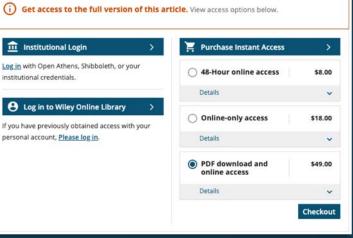


PDF ultimately found... but at the expense of user time and frustration

#### **Open web fail points**



Open web sources



#### No apparent access options



sources

## LibKey: New Al-based linking technology



- Identifier-based linking
- Draws on knowledge bases of library entitlements, authentication, open access availability, and retraction status
- Delivers one-click access to millions of subscribed and Open Access articles
- Links to best available source
- May be integrated in all library discovery services and databases

#### **Prevents Common OpenURL Linking Errors**



- Worked with EBSCO to develop a technology that confirms availability of article from EBSCO before a link is created
- Delivers significantly more reliable, faster linking directly to the PDF within EBSCOhost

 Intelligent link construction avoids OpenURL errors with content types such as articles in press

#### **Comprehensive Open Access Linking**

- Draw from multiple Open Access sources to create the most paths to content
- Linking available even if the library does not include the title in their A-Z source list
- Avoids dead link problems due to sources like DOAJ not reporting coverage information
- Analytics of Open Access usage



#### **Retraction Alerting**

- Retraction knowledge base creates alert at point of access
- Special interstitial screen makes retraction obvious
- Signposting will occur through all of Third Iron's products and will be available on the API for third-party developers and libraries to utilize.



Fast LC-MS quantitation of glucose and glycerol via enzymatic derivatization

Chiles, Eric ; Wang, Yujue ; Kalemba, Katarzyna M ; Kwon, Hyokjoon ; Wondisford, Fredric E ; Su, Xiaoyang Analytical biochemistry, 2019-06-15, Vol.575, p.40-43

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Twin Cities University

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**1** ...) detection of glucose and glycerol presents challenges. Here, we propose an efficient LC-MS method of quantitative glucose and glycerol detection via enzymatic derivatization to glucose-6-phosphate and sn-glycerol-3-phosphate, respectively...

PEER REVIEWED

▲ Retracted Article 
 △ View Issue Contents

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## LibKey with Library Services



#### Fast, Reliable, One-Click Access to Content

Library Services: Discovery, Databases

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### Linking from Open Web sources



**Open Web Sources** 



#### Scholarly webpages



Public discovery services



#### Popular New Public Discovery Services Using LibKey



## LibKey with Library Services



Library Discovery Services, Databases

#### Fast, Reliable, One-Click Access to Content



Open Web Discovery





From Wiens to Robel: A Review of

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 ✓ Saves researchers valuable time

- Minimizes help desk requests
- ✓ Reduces unnecessary ILL requests
- Connects more users to library content
- Keeps library at center of research workflow



#### Thank you!

#### **Questions?**

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