# Bibliographic Management Software: Productivity tools for Researchers

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### **Overview**

- Introduction
- Key Points
- A Complex Information Ecosystem
- Brief History & Key Players
- Core Functionality & Value
- What's New & Changing?

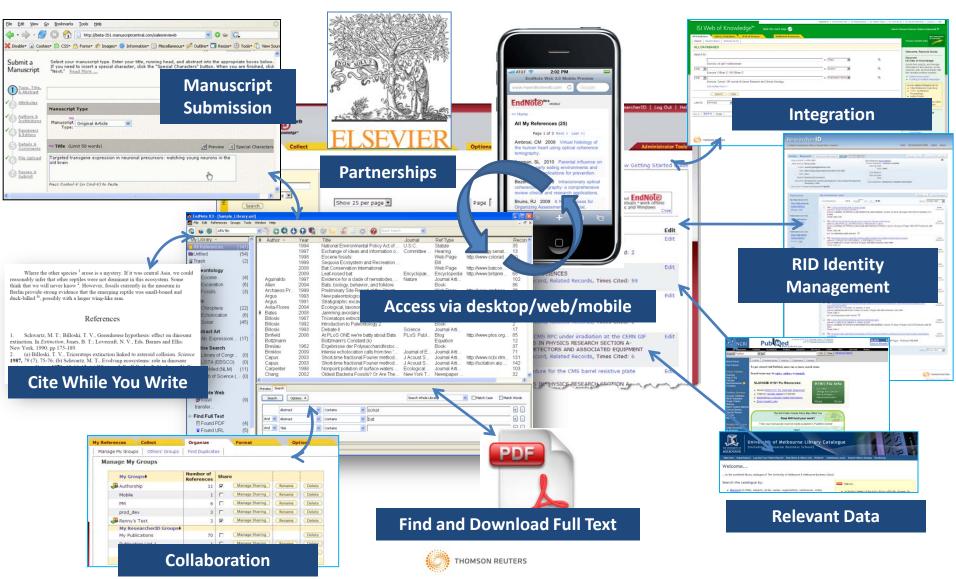


## **Key Points**

- Yes bibliography/reference tools saves time for researchers and post-graduate students and help them work more efficiently!
- Bibliography/reference management tools need to be tightly integrated into user's overall research /publishing workflows.
- Bibliography/reference management tools need to facilitate sharing and collaboration.
- Details count usability, accuracy, breadth.



## EndNote: Collaboration and Connectivity in a Complex Information Ecosystem



## History, Focus, Key Players

- 1. Desktop client (focus on bibliography creation):
  - Mid-1980s Bookends / EndNote/ Reference Manager /BibTeX
- 2. Web-based (focus on data access w/o installed software):
  - 2001 RefWorks
- 3. Mobile (focus on access away from the desktop):
  - 2002 EndNote on Palm
     Pocket PC
    - 2009 iPhone apps start to appear
- 4. Hybrid desktop-webmobile (focus on integration into the researcher workflow):
  - Mendeley, EndNote-EndNote Web, Zotero Everywhere and others.































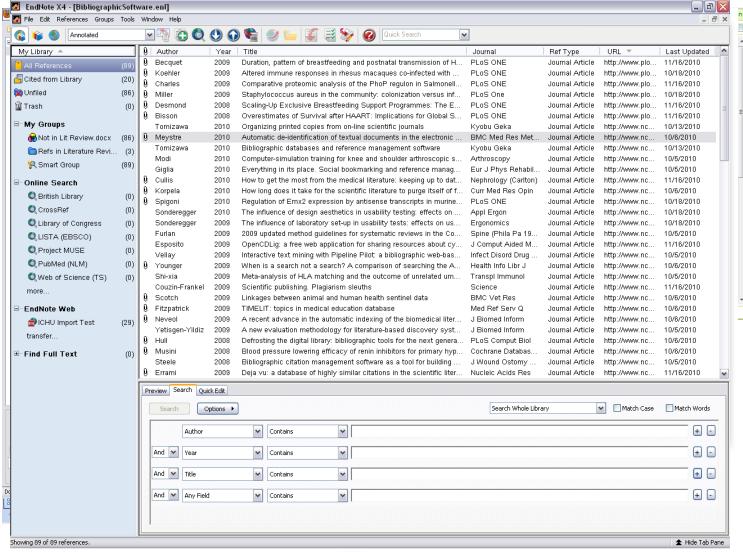








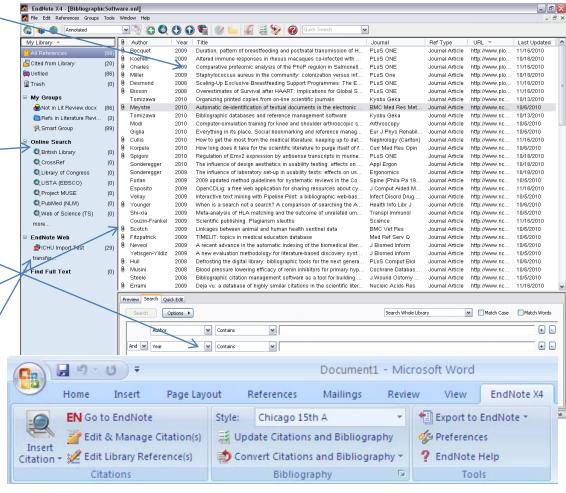
### These All Seem Alike!?





## **Core Functionality**

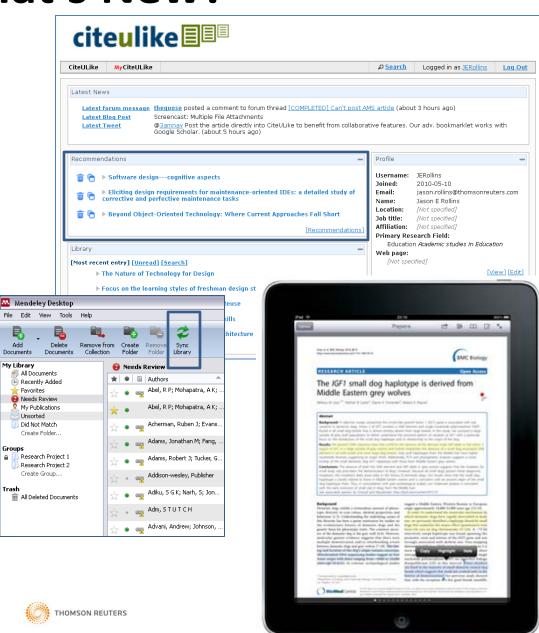
- Database of personal material – reference data, notes, file attachments, links
- Ability to search/capture data [database records, web pages] directly
- Search and organization tools
- Notes and attachment organization
- Cite and format in multiple bibliographic styles
- Share & collaborate





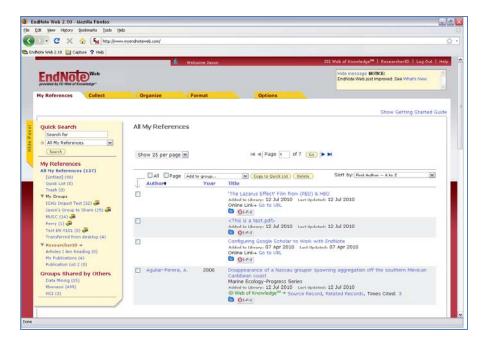
#### What's New?

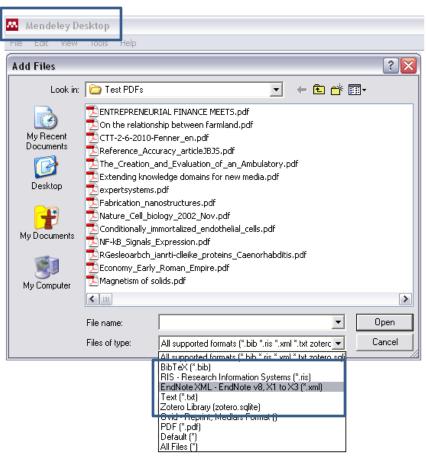
- Social Web –
   Collaboration, Sharing
   & recommendations
- Synchronization desktop-web-mobile
- Mobile access & apps
- APIs / extension
- Reference material evolving – data sets, multi-media.



#### Freemium, Open Source, and Paywalls – Oh My!

- Freemium?
- Open-source vs. proprietary?
- Paywalls & cannibalization?







### Conclusion

- Biblio tools save users time 75% of users in a recent study said EndNote saved them from a few hours to several days on each project.
- Workflow integration drive how these tools continue to evolve.
- Reference material itself is evolving (video, data sets, etc.) and biblio tools need to keep pace with these.
- Bibliography/reference management tools need to facilitate sharing and collaboration.

