

01

Endnote X9 , 让科研简单一点

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1 为什么要学习Endnote ?

工具意识 + 时间投资意识

学习软件和听课都是一项时间投资

相同的时间可以

阅读更多文献

下载更多文献

获得更多信息

视野更加开阔

2 文献管理软件的功能

文献管理软件诞生的背景

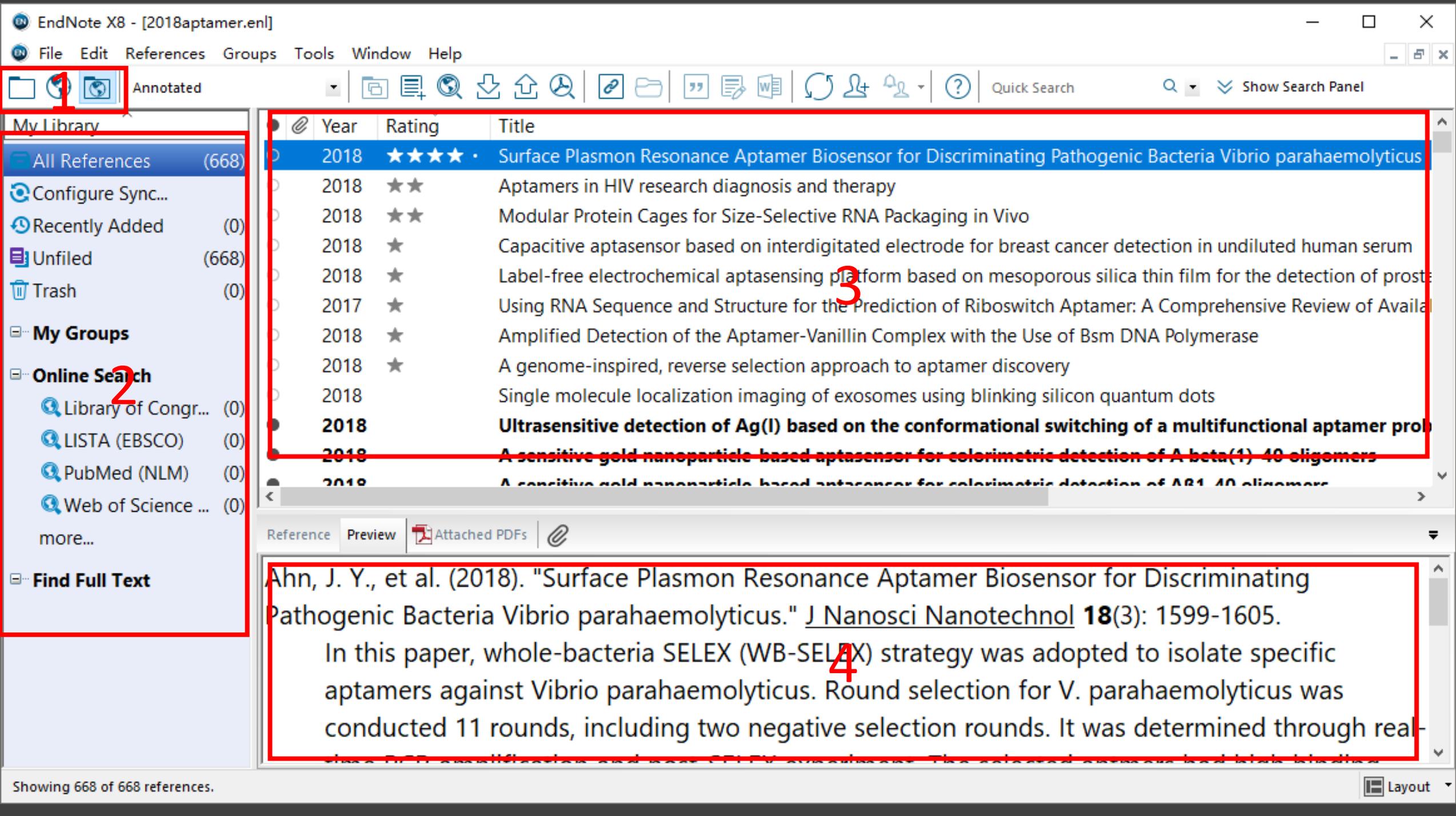
- 需求就是觉得不方便的地方。
- 科研人员针对文献的需求有哪些？
 - 需求1 找文献不爽，需要多处检索
 - 需求2 管理不便，电脑中如果有上千篇文献（效率低，重复检索）
 - 需求3 投稿论文的参考文献编辑，烦死人
 - 需求4 我想把我看的文献都分享给学生们。每次邮件发，微信发，太乱；同一篇文献很多人都要去重复检索，去下载

科研工作者的需求与软件功能

- 帮助提升文献获取效率
- 帮助提升文献管理效率
- 提升编辑参考文献的效率
- 提升团队文献共享与协作的效率

体会功能与
需求相适应

3 软件功能的快速演示



- My Library
 - All References (668)
 - Configure Sync...
 - Recently Added (0)
 - Unfiled (668)
 - Trash (0)
- My Groups
- Online Search
 - Library of Congr... (0)
 - LISTA (EBSCO) (0)
 - PubMed (NLM) (0)
 - Web of Science ... (0)
- more...
- Find Full Text

Year	Rating	Title
2018	★★★★	Surface Plasmon Resonance Aptamer Biosensor for Discriminating Pathogenic Bacteria <i>Vibrio parahaemolyticus</i>
2018	★★	Aptamers in HIV research diagnosis and therapy
2018	★★	Modular Protein Cages for Size-Selective RNA Packaging in Vivo
2018	★	Capacitive aptasensor based on interdigitated electrode for breast cancer detection in undiluted human serum
2018	★	Label-free electrochemical aptasensing platform based on mesoporous silica thin film for the detection of prost...
2017	★	Using RNA Sequence and Structure for the Prediction of Riboswitch Aptamer: A Comprehensive Review of Availa...
2018	★	Amplified Detection of the Aptamer-Vanillin Complex with the Use of Bsm DNA Polymerase
2018	★	A genome-inspired, reverse selection approach to aptamer discovery
2018		Single molecule localization imaging of exosomes using blinking silicon quantum dots
2018		Ultrasensitive detection of Ag(I) based on the conformational switching of a multifunctional aptamer pro...
2018		A sensitive gold nanoparticle-based aptasensor for colorimetric detection of A beta(1-40) oligomers
2018		A sensitive gold nanoparticle-based aptasensor for colorimetric detection of Aβ1-40 oligomers

Reference Preview Attached PDFs

Ahn, J. Y., et al. (2018). "Surface Plasmon Resonance Aptamer Biosensor for Discriminating Pathogenic Bacteria *Vibrio parahaemolyticus*." *J Nanosci Nanotechnol* **18**(3): 1599-1605.

In this paper, whole-bacteria SELEX (WB-SELX) strategy was adopted to isolate specific aptamers against *Vibrio parahaemolyticus*. Round selection for *V. parahaemolyticus* was conducted 11 rounds, including two negative selection rounds. It was determined through real-time PCR and HPLC that the selected aptamer had high affinity to the target bacteria. The selected aptamer had high affinity to the target bacteria.

EndNote X9在建立了 个人图书馆后生成两个文件



我的EndNote Library.Data



我的EndNote Library.enl

Endnote X9 功能快速演示

文献检索



全文下载



文献引用



共享协作

特别说明-多终端同步共享

- 如果保存在网盘上，多终端同时打开容易导致文件损坏
- 如果需要多终端共享文献，100人以内，可通过endnote共享

Research Smarter.

Leave behind the tedious work of bibliographies and reference management and take your research to the next level.



Working from a previous version?	X7	X8	X9
EndNote online			
Cross-platform library syncing across desktop, online, and iPad	✓	✓	✓
New sync configuration options for previous versions and multiple libraries	✓	✓	✓
Unlimited storage space for full text and file attachment	✓	✓	✓
Unlimited number of references in EndNote online	✓	✓	✓
Share			
Share specific groups using EndNote desktop			✓
Share your entire library with read-only or read-and-write access			✓
Share your entire library with others	w/ 14	w/ 100	w/ 100
Activity feed with shared library member activity		✓	✓
Learn when new members join the shared library		✓	✓
Web of Science integrations			
Get Manuscript Matcher suggestions directly from Cite While You Write™ and desktop			✓
Create a Citation Report from EndNote desktop with your <i>Web of Science</i> subscription			✓
Automation and full text management			

分组共享 并设置权限

Group 文献的引用报告
智能匹配投稿期刊

软件学习的通用思路

- **学习原则**：从掌握最基本的功能，力求快速上手；在使用中逐渐掌握更多功能
- **三大模块**：信息输入 特色功能(管理功能) 信息输出
 - 示例：endnote、为知笔记、思维导图、word

4 文献信息输入

将文献信息添加到文献管理软件endnote的多种方法

信息输入

直接检索

如何检索

检索式

WOS

pubmed

网站输出

scopus

cnki

编码问题

PDF导入

识别机制:DOI编号

保持联网

不同时间识别效率不同

手动输入

作者, 关键词等一行一个

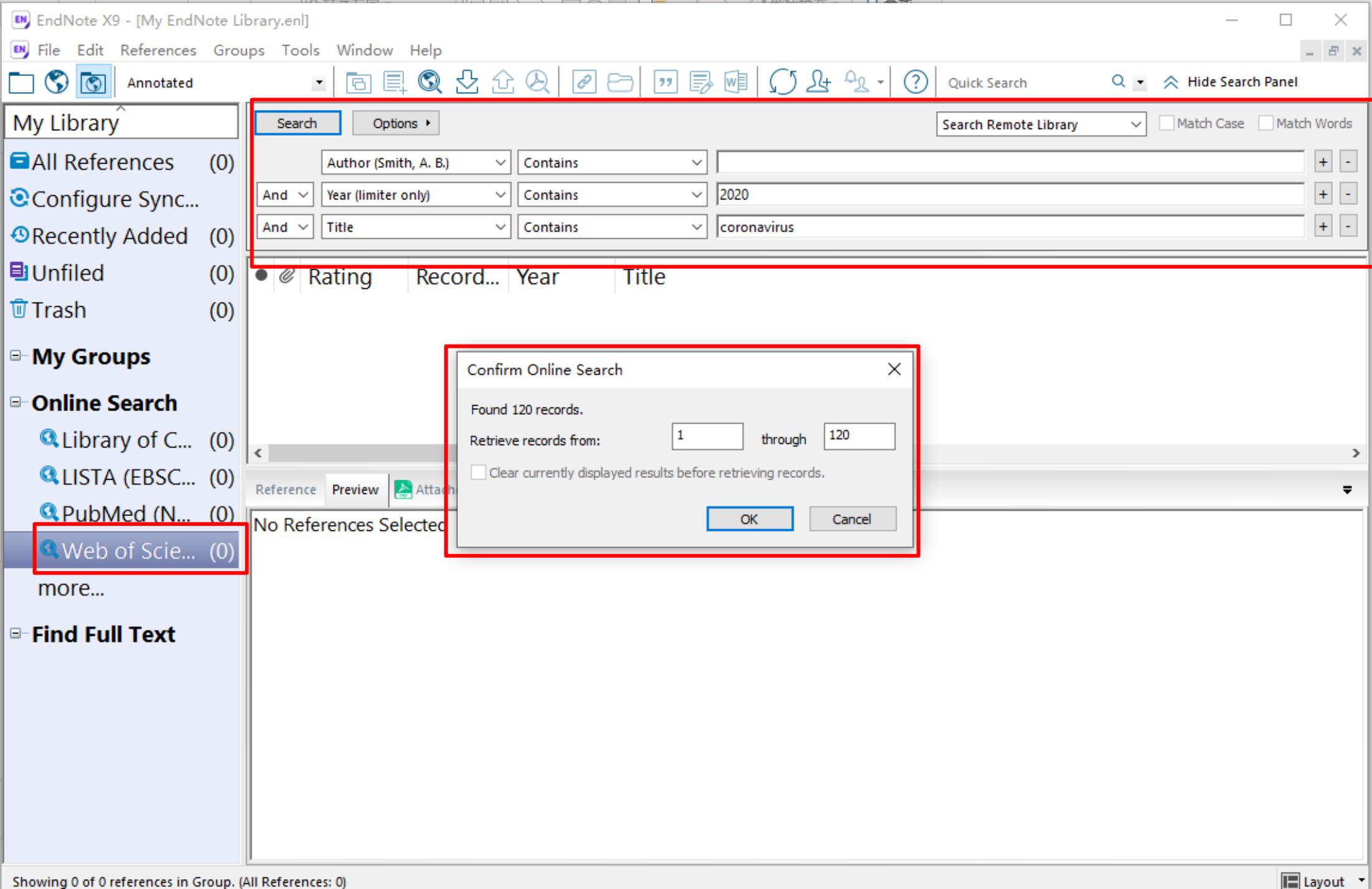
软件之间的数据交换

RIS格式

文献导入endnote的几种方法

- 直接检索：方便快捷，但有些网站无法直接检索
- 网站输出：所有网站都支持的方式，导出数量通常受限
- PDF导入：适合自动导入大量pdf文件，部分无法识别
- 文本导入：部分数据库网站只支持导出为文本格式（中文）
- 手动输入：适合少量文献，且不便联网的情况
- 文献管理软件时间的数据交换（histcite—endnote）

1) 通过在线检索, 添加文献



在线检索导入参考文献——以Web of Science为例

The screenshot displays the EndNote X9 interface. On the left, the 'My Library' pane shows 'Web of Science...' selected under the 'Online Search' category. The main search area contains three criteria: 'Author (Smith, A. B.)', 'Year (limiter only) 2020', and 'Title aptamer'. A red box highlights these criteria, with a red arrow pointing to a 'Confirm Online Search' dialog box. The dialog box shows 'Found 119 records.' and 'Retrieve records from: 1 through 119'. A yellow text box at the bottom left contains the text: 'Online Search在线检索 EndNote提供了6000多个 在线资源数据库！'. A red text box at the bottom right contains the text: '更多在线资源数据库：http://endnote.com/downloads/connections'.

在检索区中设置检索条件

Online Search在线检索
EndNote提供了6000多个
在线资源数据库！

更多在线资源数据库：<http://endnote.com/downloads/connections>

2) 通过网站输出添加文献

可以利用数据库网站的筛选分析功能

WOS、google scholar、cnki

等不同数据库网站均可导出文献至endnote

以Web of Science在线检索文献为例

Web of Science



选择数据库 所有数据库

Access free resources to support coronavirus

基本检索 被引参考文献检索 高级检索

示例: oil spill* mediterranean

主题

检索

检索提示

+ 添加行 | 重设

时间跨度

所有年份 (1900 - 2020)

更多设置

Web of Science



选择数据库

所有数据库

基本检索

示例: oil sp

时间跨度

所有年份 (1900-至今)

更多设置

- 所有数据库
- Web of Science 核心合集
- 中国科学引文数据库SM
- Derwent Innovations Index
- Inspec[®]
- KCI-Korean Journal Database
- MEDLINE[®]
- Russian Science Citation Index
- SciELO Citation Index

Access free resources to support coronavirus

Web of Science 核心合集 (1900-至今)

检索科学、社会科学、艺术和人文科学领域的世界一流学术性期刊、书籍和会议录，并浏览完整的引文网络。

- 所有出版物的被引参考文献均完全索引且可检索。
- 检索所有作者和作者附属机构。
- 使用引文跟踪对引用活动进行跟踪。
- 借助引文报告功能以图形方式了解引用活动和趋势。
- 使用分析检索结果确定研究趋向和出版物模式。

Web of Science



工具 检索和跟踪 检索历史 标记

选择数据库

Web of Science 核心合集

Access free resources to support coronavirus

基本检索

作者检索^{BETA}

被引参考文献检索

高级检索

化学结构检索

coronavirus

coronavirus nucleocapsid protein

主题

检索

检索提示

+ 添加行 | 重设

时间跨度

所有年份 (1900 - 2020)

更多设置

Web of Science



检索

工具 检索和跟踪 检索历史 标记

检索结果: 13,608
(来自Web of Science 核心合集)

排序方式: 日期 被引频次 使用次数 相关性 更多

您的检索: 主题: (coronavirus) ...更多内容

创建跟踪

选择页面

导出...

添加到标记结果列表

分析检索结果
引文报告功能不可用

1. Design, synthesis and molecular docking of novel triazole derivatives as potential CoV helicase inhibitors

被引频次: 0
(来自Web of Science 核心合集)

作者: Zaher, Nashwa Hafez; Mostafa, Mohammed Ismail; Altaher, Abdullah Yousef

使用次数

ACTA PHARMACEUTICA 卷: 70 期: 2 页: 145-159 出版年: JUN 2020

Context Sensitive Links 出版商处的免费全文

查看摘要

精炼检索结果

在如下结果集内检索...

出版年

- 2020 (185)
- 2019 (733)
- 2018 (653)
- 2017 (695)
- 2016 (756)

更多选项/分类...

精炼

Web of Science 类别

- VIROLOGY (4,338)
- VETERINARY SCIENCES (2,132)
- IMMUNOLOGY (1,550)
- INFECTIOUS DISEASES (1,541)
- MICROBIOLOGY (1,476)

更多选项/分类...

精炼

过滤检索结果

精炼

Context Sensitive Links 出版商处的免费全文

查看摘要

3. **Full-genome evolutionary analysis of the novel corona virus (2019-nCoV) rejects the hypothesis of emergence as a result of a recent recombination event**

作者: Paraskevis, D.; Kostaki, E. G.; Magiorkinis, G.; 等.
INFECTION GENETICS AND EVOLUTION 卷: 79 文献号: 104212 出版年: APR 2020

被引频次: 0
(来自Web of Science合集)

使用次数

Context Sensitive Links 出版商处的免费全文

查看摘要

4. **Novel coronavirus: From discovery to clinical diagnostics**

作者: Tung Phan
INFECTION GENETICS AND EVOLUTION 卷: 79 文献号: 104211 出版年: APR 2020

被引频次: 0
(来自Web of Science合集)

使用次数

Context Sensitive Links 出版商处的免费全文

查看摘要

5. **Wuhan coronavirus (2019-nCoV): The need to maintain**

被引频次: 0

Web of Science



检索 工具 检索和跟踪 检索历史 标记结果列表

检索结果: 10
(来自 Web of Science 核心合集)

您的检索: 主题: (coronavirus) ...
更多内容

创建跟踪

精炼检索结果

在如下结果集内检索...

过滤结果依据:

开放获取 (10)

精炼

出版年

2020 (10)

精炼

排序方式: 日期 被引频次 使用次数 相关性 更多

1 / 1

选择页面

导出...

添加到标记结果列表

分析检索结果
创建引文报告

1. **Overlapping and discrete aspects of the pathology and pathogenesis of the emerging human pathogenic coronaviruses SARS-CoV, MERS-CoV, and 2019-nCoV**

作者: Liu, Jia; Zheng, Xin; Tong, Qiaoxia; 等.
JOURNAL OF MEDICAL VIROLOGY

在线发表日期: FEB 2020

Context Sensitive Links 出版商处的免费全文 查看摘要

被引频次: 0
(来自 Web of Science 的核心合集)

使用次数

2. **2019 novel coronavirus of pneumonia in Wuhan, China: emerging attack and management strategies**

作者: She, Jun; Jiang, Jinjun; Ye, Ling; 等.
CLINICAL AND TRANSLATIONAL MEDICINE 卷: 9 期: 1 文献号: 19 出版年: FEB 20 2020

Context Sensitive Links 出版商处的免费全文 查看摘要

被引频次: 0
(来自 Web of Science 的核心合集)

使用次数

3. **Bat-borne viruses in Africa: a critical review**

作者: Markotter, W.; Coertse, J.; De Vries, L.; 等.
JOURNAL OF ZOOLOGY

在线发表日期: FEB 2020

被引频次: 0
(来自 Web of Science 的核心合集)

使用次数

过滤结果依据:

开放获取 (159) 精炼

出版年 ▲

2020 (185) 精炼

Web of Science 类别 ▲

- MEDICINE GENERAL INTERNAL (37)
- VIROLOGY (32)
- INFECTIOUS DISEASES (25)
- MICROBIOLOGY (23)
- IMMUNOLOGY (18)

[更多选项/分类...](#) 精炼

文献类型 ▲

- ARTICLE (104)
- EDITORIAL MATERIAL (36)
- NEWS ITEM (26)
- EARLY ACCESS (24)
- REVIEW (10)

[更多选项/分类...](#) 精炼

作者: Ji, Wei; Wang, Wei; Zhao, Xiaofang; 等.
JOURNAL OF MEDICAL VIROLOGY 卷:92 期:4 特刊:SI 页:433-440 出版年: APR 2020
 Context Sensitive Links 出版商处的免费全文 查看摘要 心合集
使用次数 被引频次: 0
(来自 Web of Science 的核心合集)

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作者: Paraskevis, D.; Kostaki, E. G.; Magiorkinis, G.; 等.
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 Context Sensitive Links 出版商处的免费全文 查看摘要 被引频次: 0
(来自 Web of Science 的核心合集)
使用次数

5. **Wuhan coronavirus (2019-nCoV): The need to maintain regular physical activity while taking precautions**
作者: Chen, Peijie; Mao, Lijuan; Nassis, George P.; 等.
JOURNAL OF SPORT AND HEALTH SCIENCE 卷:9 期:2 页:103-104 出版年: MAR 2020
 Context Sensitive Links 出版商处的免费全文 被引频次: 0
(来自 Web of Science 的核心合集)
使用次数

6. **Should, and how can, exercise be done during a coronavirus outbreak? An interview with Dr. Jeffrey A. Woods**
作者: Zhu, Weimo
JOURNAL OF SPORT AND HEALTH SCIENCE 卷:9 期:2 页:105-107 出版年: MAR 2020
 Context Sensitive Links 出版商处的免费全文 被引频次: 0
(来自 Web of Science 的核心合集)
使用次数

7. **Global challenges in health and health care for nurses and midwives everywhere**
作者: Catton, H. 被引频次: 0
(来自 Web of Science 的核心合集)

Web of Science



检索 工具 检索和跟踪 检索历史 标记结果列表

检索结果: 10
(来自 Web of Science 核心合集)

您的检索: 主题: (coronavirus) ...
[更多内容](#)

[创建跟踪](#)

精炼检索结果

在如下结果集内检索...

过滤结果依据:

开放获取 (10)

[精炼](#)

出版年

2020 (10)

[精炼](#)

排序方式: **日期** 被引频次 使用次数 相关性 更多

1 / 1

- 选择页面 [导出...](#) [添加到标记结果列表](#)
- 分析检索结果**
创建引文报告
- 1. **Overlapping and discrete aspects of the pathology and pathogenesis of the emerging human pathogenic coronaviruses SARS-CoV, MERS-CoV, and 2019-nCoV**
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JOURNAL OF MEDICAL VIROLOGY
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[Context Sensitive Links](#) [出版商处的免费全文](#) [查看摘要](#)
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使用次数
 - 2. **2019 novel coronavirus of pneumonia in Wuhan, China: emerging attack and management strategies**
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[Context Sensitive Links](#) [出版商处的免费全文](#) [查看摘要](#)
被引频次: 0 (来自 Web of Science 的核心合集)
使用次数
 - 3. **Bat-borne viruses in Africa: a critical review**
作者: Markotter, W.; Coertse, J.; De Vries, L.; 等.
JOURNAL OF ZOOLOGY
在线发表日期: FEB 2020
被引频次: 0 (来自 Web of Science 的核心合集)
使用次数

Web of Science



检索

工具 检索和跟踪 检索历史 标记结果列表

检索结果: 10
(来自Web of Science 核心合集)

排序方式: 日期 被引频次 使用次数 相关性 更多

1 / 1

您的检索: 主题: (coronavirus) ...更多内容

创建跟踪

选择页面

导出...

添加到标记结果列表

保存至EndNote desktop

- EndNote Desktop
- EndNote Online
- 其他文件格式
- 在Publons中声明作者身份, 跟踪
- InCites
- 打印
- 电子邮件

- 1. **Overlap of human coronaviruses and pathogenesis of the emerging SARS-CoV, and 2019-nCoV**
作者: Liu, J.; Wang, L.; Zhang, L.; et al.
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JOURNAL OF ZOOLOGY
在线发表日期: FEB 2020

分析检索结果
创建引文报告

被引频次: 0
(来自Web of Science 的核心合集)

使用次数

被引频次: 0
(来自Web of Science 的核心合集)

使用次数

被引频次: 0
(来自Web of Science 的核心合集)

使用次数

精炼检索结果

在如下结果集内检索...

过滤结果依据:

开放获取 (10)

精炼

出版年

2020 (10)

精炼

检索结果: 10
(来自 Web of Science 核心合集)

您的检索: 主题: (coronavirus) ...
更多内容

创建跟踪

精炼检索结果

在如下结果集内检索...

过滤结果依据:

开放获取 (10)

出版年

2020 (10)

排序方式: **日期** 被引频次 使用次数 相关性 更多

1 / 1

选择页面

1. Over...
作者: JO...
CLINICAL AND TRANSLATIONAL MEDICINE 卷:9 期:1 文献号:19 出版年: FEB 20 2020
Context Sensitive Links 出版商处的免费全文 查看摘要

2. 201...
str...
作者: ...
CLINICAL AND TRANSLATIONAL MEDICINE 卷:9 期:1 文献号:19 出版年: FEB 20 2020
Context Sensitive Links 出版商处的免费全文 查看摘要

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分析检索结果
创建引文报告

被引频次: 0
(来自 Web of Science 的核心合集)

使用次数

被引频次: 0
(来自 Web of Science 的核心合集)

使用次数

被引频次: 0
(来自 Web of Science 的核心合集)

使用次数

将记录导出至 EndNote Desktop

页面上的所有记录

记录来源: 1 至 10
一次不超过 500 条记录。

记录内容:
作者、标题、来源出版物、摘要

取消 导出

Web of Science

Clarivate Analytics

检索 工具 检索和跟踪 检索历史 标记结果列表

检索结果: 10
(来自 Web of Science 核心合集)

您的检索: 主题: (coronavirus) ...
更多内容

创建跟踪

排序方式: **日期** 被引频次 使用次数 相关性 更多

1 / 1

精炼检索结果

在如下结果集内检索...

过滤结果依据:

开放获取 (10)

精炼

出版年

2020 (10)

- 选择页面 导出至 EndNote Desktop 更多 添加到标记结果列表
- 正在将记录导出至 EndNote**
- 正在发送 10 条记录...
- 1. Over... of the emerging...
作者: ...
被引频次: 0 (来自 Web of Science 的核心合集)
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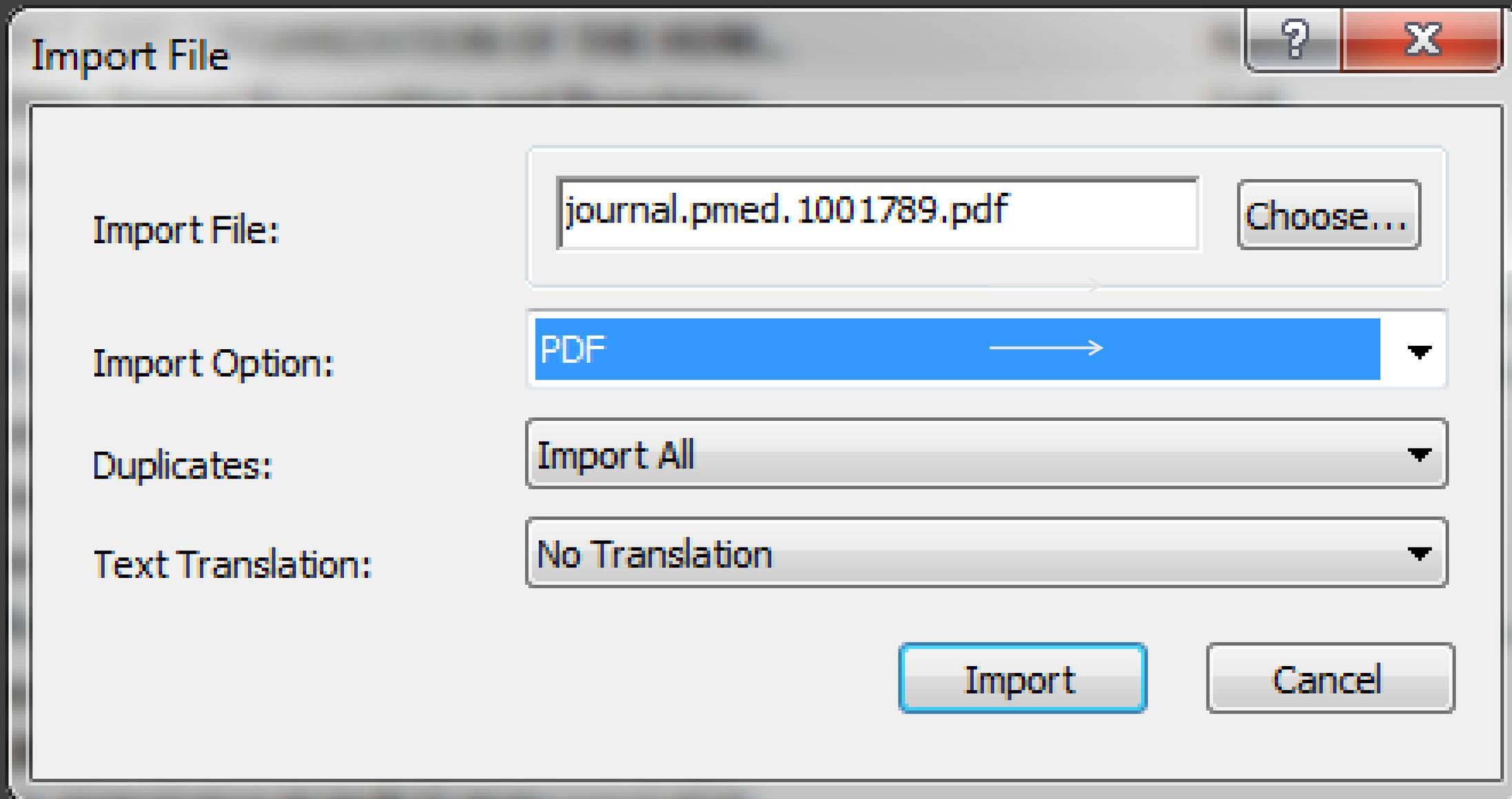
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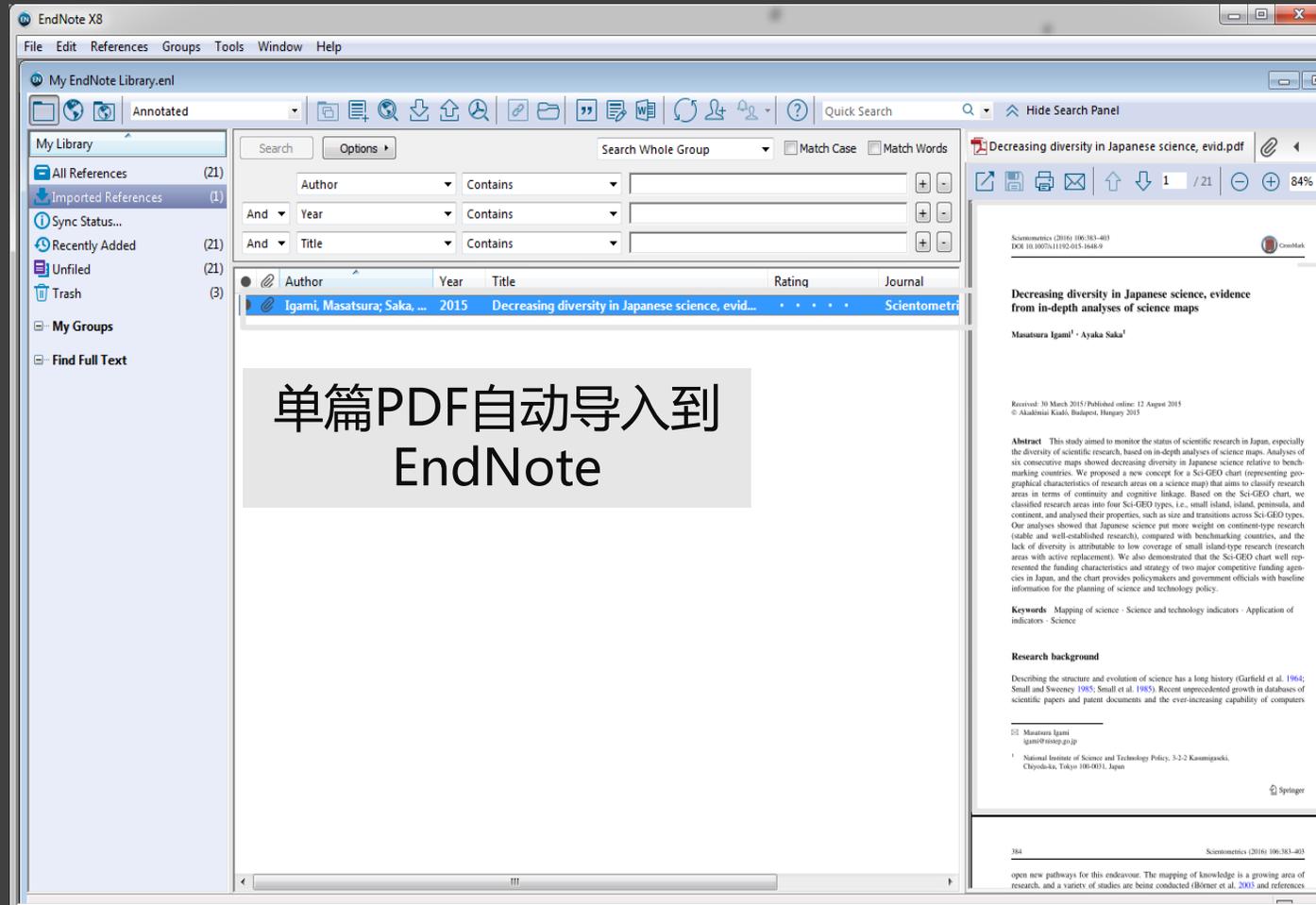
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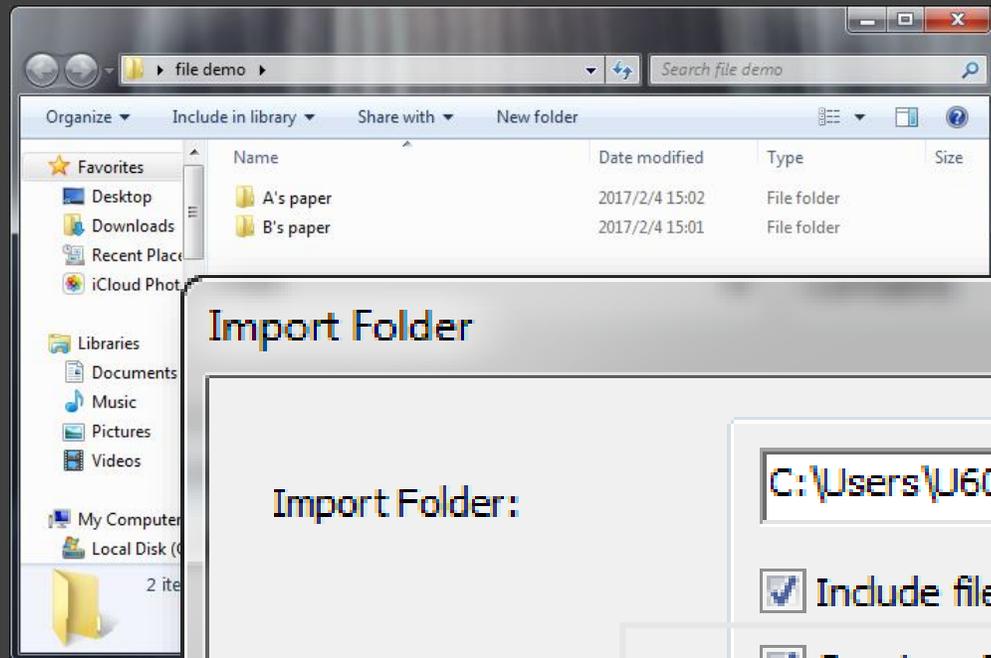


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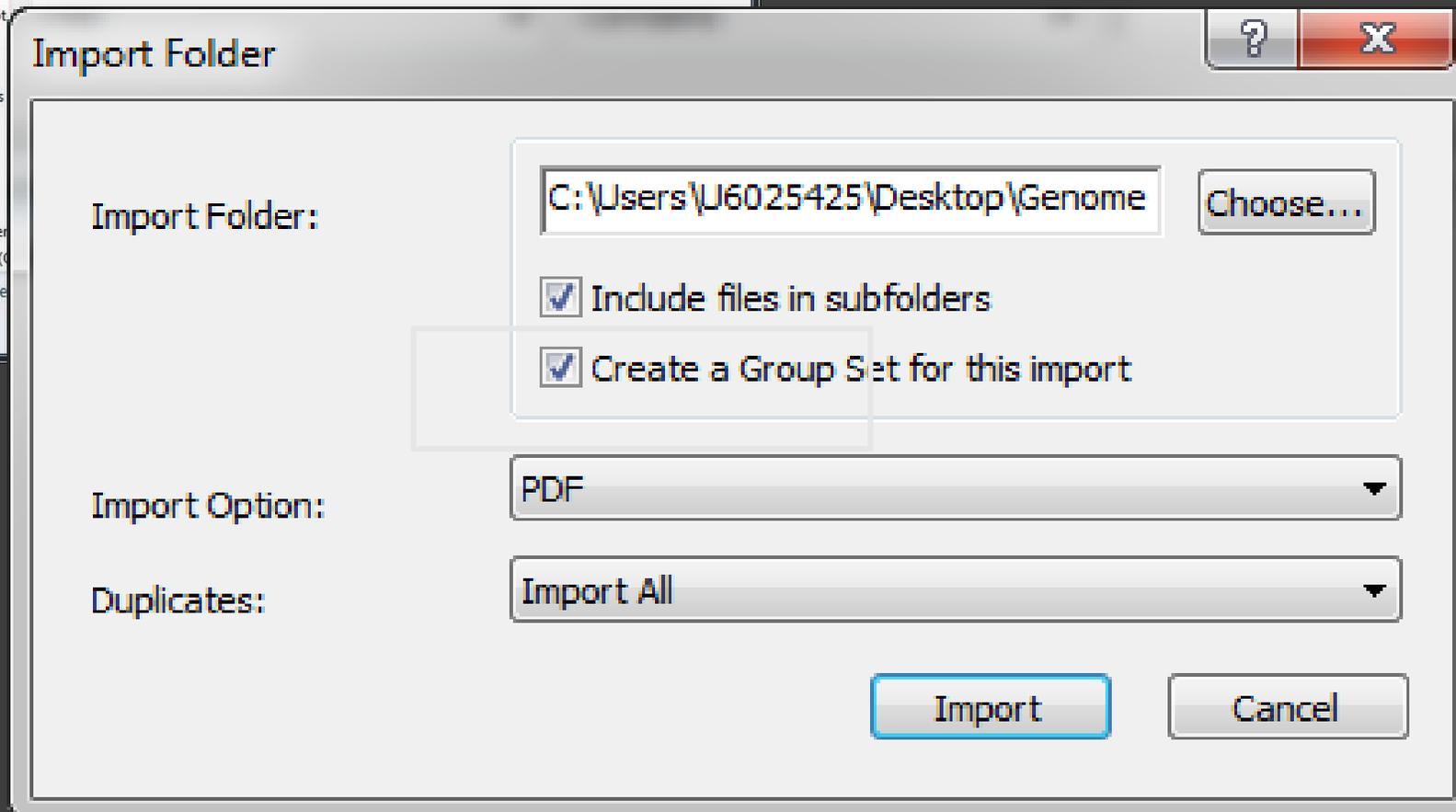


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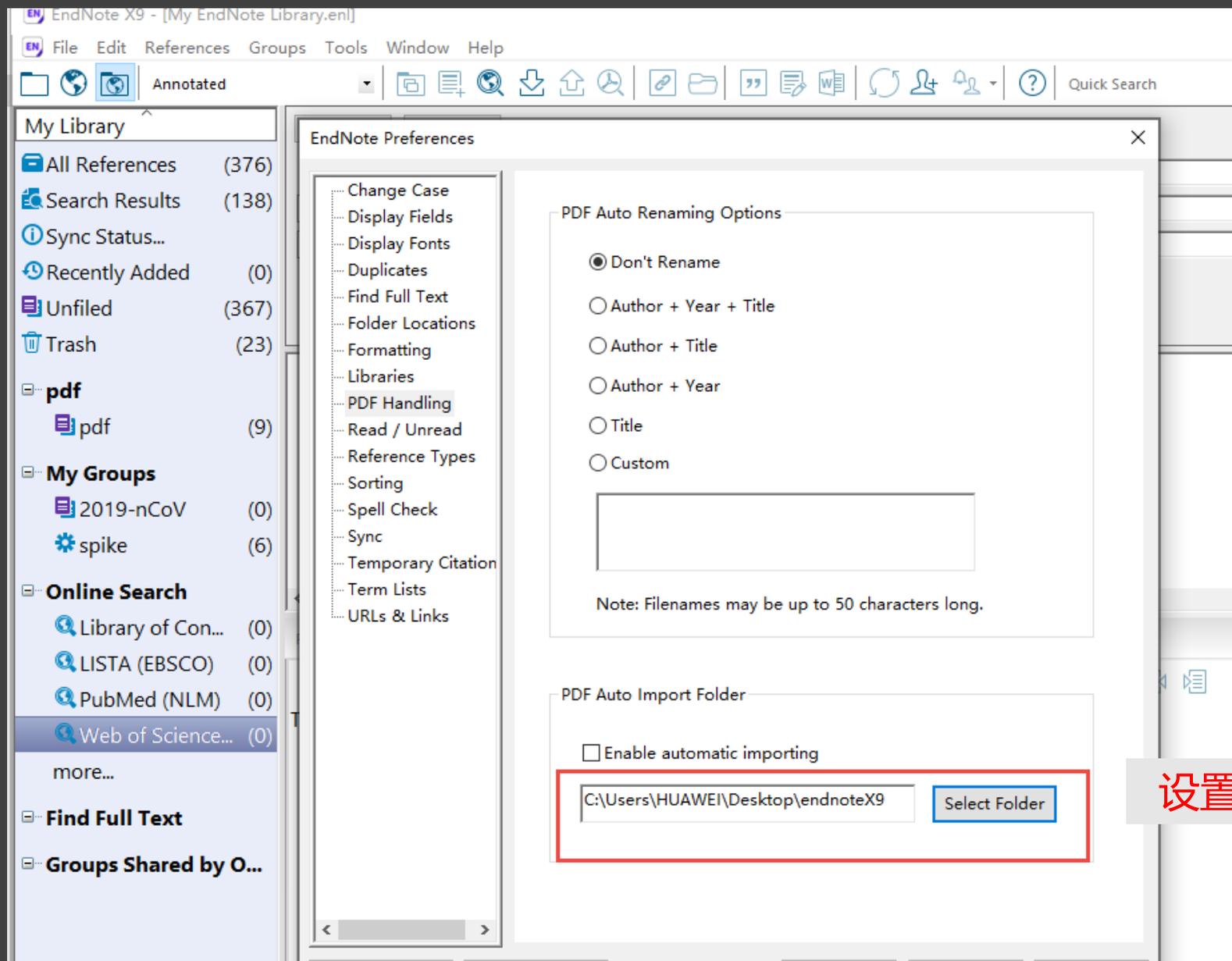
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Review

Aptamers in Diagnostics and Treatment of Viral Infections

Tomasz Wandtke [†], Joanna Woźniak [†] and Piotr Kopiński ^{†,*}

Department of Gene Therapy, Faculty of Medicine, Nicolaus Copernicus University in Toruń,
M. Curie-Skłodowskiej 9 St., 85-094 Bydgoszcz, Poland;

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[†] These authors contributed equally to this work.

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Gene ontology: tool for the unification of biology. The Gene Ontology Consortium	Gene Ontology: tool for the unification of biology
Journal	
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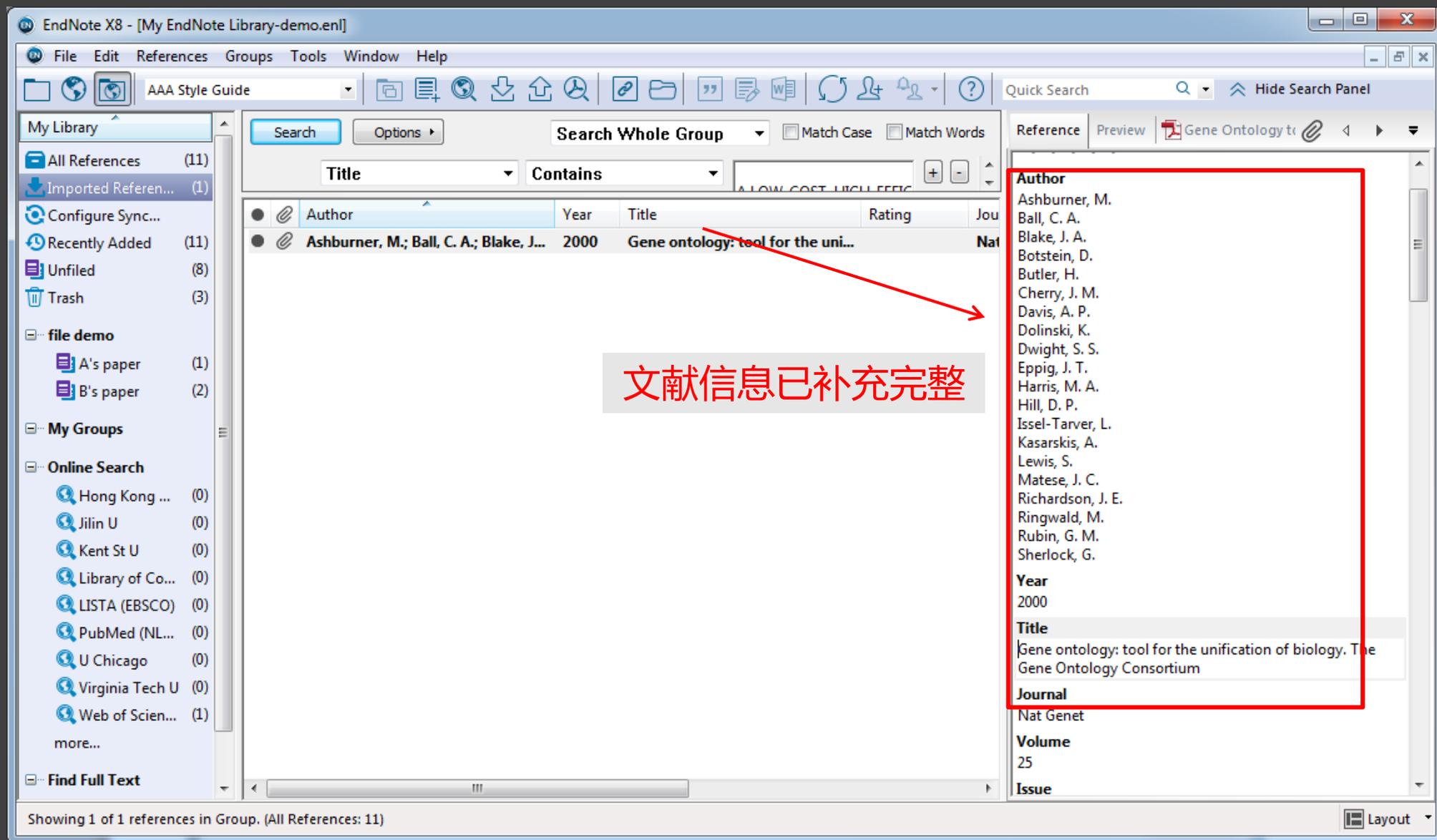
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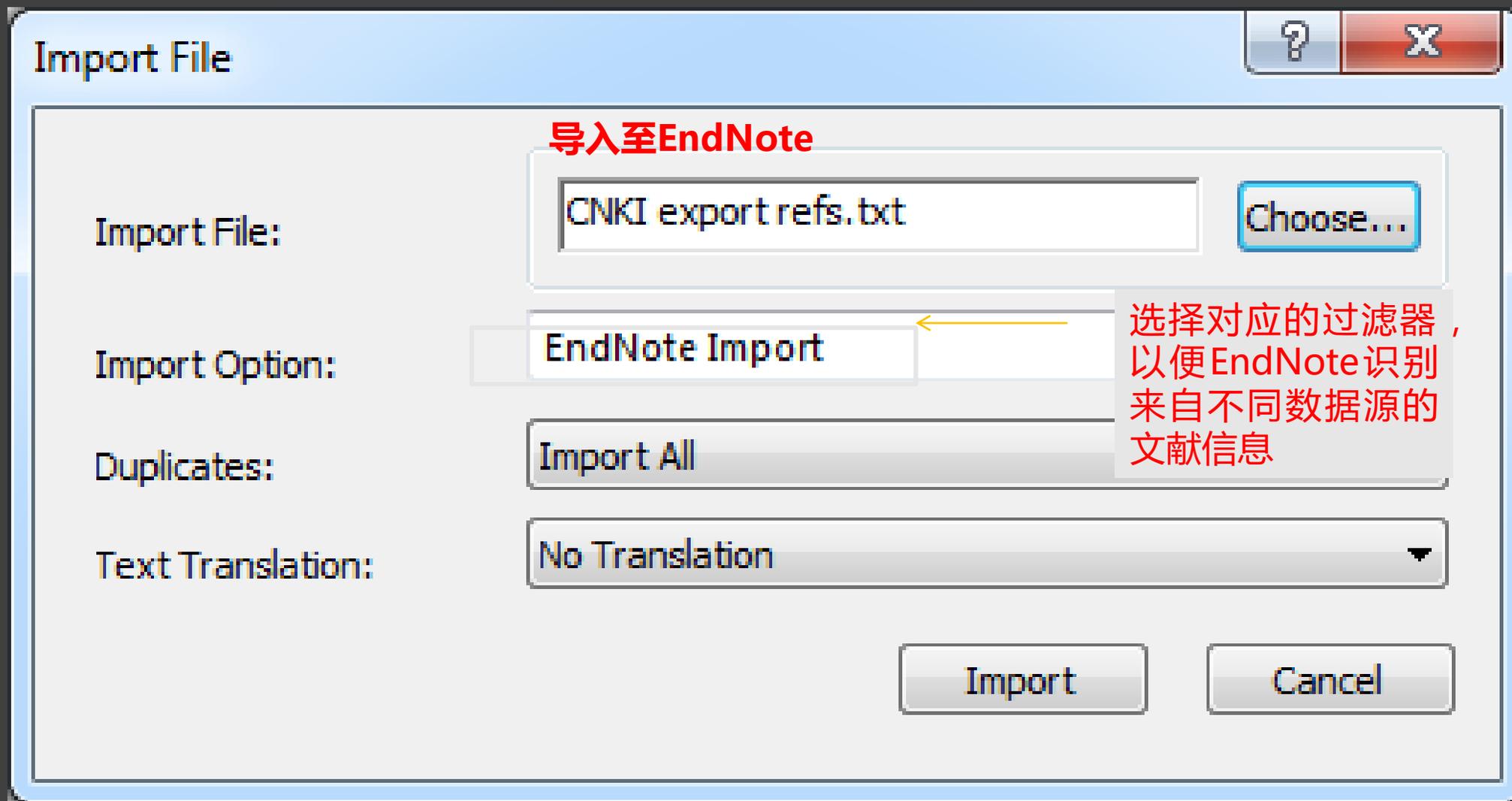
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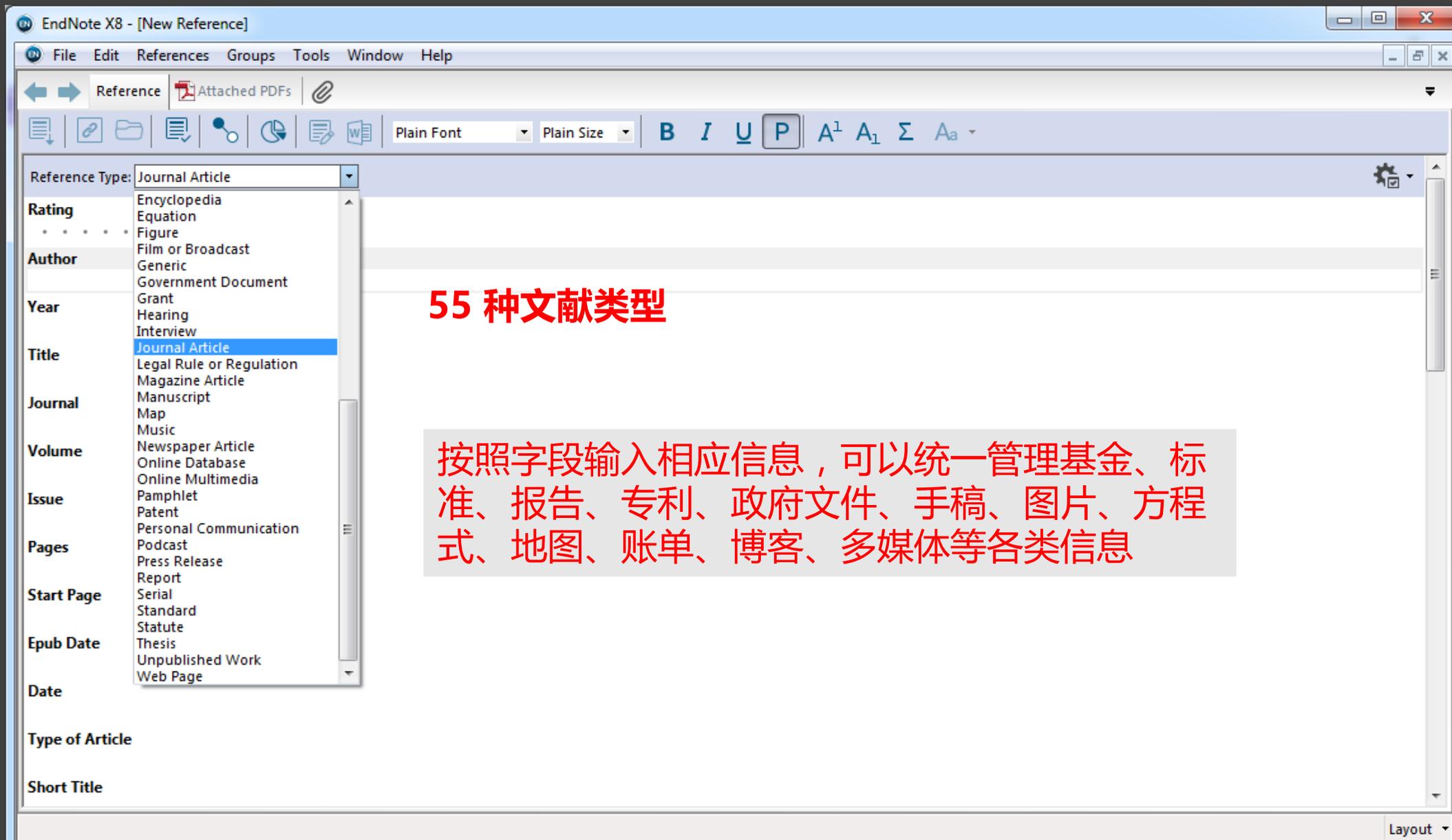
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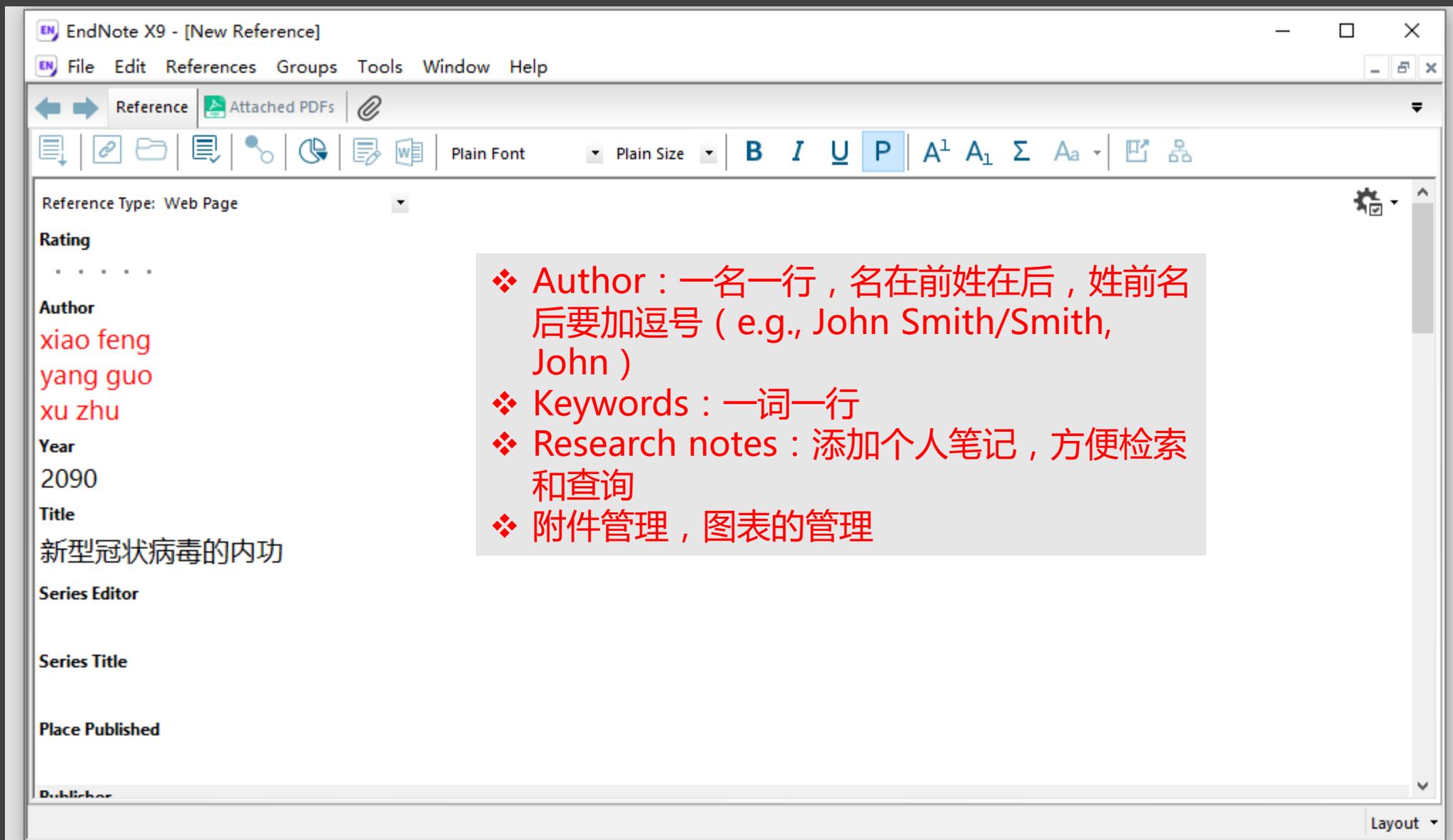


5) 手动添加参考文献

4 手工添加参考文献信息



4 手工添加参考文献信息



EndNote X9 - [New Reference]

File Edit References Groups Tools Window Help

Reference Attached PDFs

Reference Type: Web Page

Rating

Author
xiao feng
yang guo
xu zhu

Year
2090

Title
新型冠状病毒的内功

Series Editor

Series Title

Place Published

Publisher

Layout

- ❖ Author：一名一行，名在前姓在后，姓前名后要加逗号（ e.g., John Smith/Smith, John ）
- ❖ Keywords：一词一行
- ❖ Research notes：添加个人笔记，方便检索和查询
- ❖ 附件管理，图表的管理

不同文献管理软件之间，通常是用RIS格式文件交换数据

EndNote X9 - [My EndNote Library.enl]

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Year

Title

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网络

文件名(N): My EndNote Library.txt 保存(S)

保存类型(T): Text File (*.txt) 取消

Output styl: RefMan (RIS) Export

Export Selected References

from the Surface of HepG2 Cells

CA-MWCNTs quenched aptamer-tagged carboxy

high performance liquid chromatography-fluores

omes act as a fluorescent sensor for sensitive det

ethyl chitosan nanoparticles for bacterial detecti

pesticides Based on the Broad-Spectrum Aptame

Showing 376 of 376 references.

Retrieving references...

Layout

My Library

All References (14039)

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Recently Added (0)

Unfiled (14039)

Trash (0)

Unfiled Groups

My Publications (0)

My Groups

2016 (1662)

2017 (1050)

2018 (604)

New Group (0)

Online Search

Library of Con... (0)

LISTA (EBSCO) (0)

PubMed (NLM) (0)

Web of Science... (0)

more...

Find Full Text

Aut...	Record Nu...	Year	Rating	Title	Journal/Secondary
Alfi...	1	2018	• • • • •	Thrombin Aptamer-Based Biosensors: A Model of the Electrical Response	
Da...	2	2018		Enzyme Functionalized AuNPs and Glucometer-based Protein Detection	
Du...	3	2018		RNA aptamers-guided precision cancer medicine	
Ra...	4	2018		Electrochemical and photoelectrochemical biosensors for biomarker detection	
A...	5	2018		Luminescent Device for the Detection of Oxidative Stress Biomarkers in Artifici...	ACS Appl Mater In
Li, ...	6	2018		Epitope Binning Assay Using an Electron Transfer-Modulated Aptamer Sensor	ACS Appl Mater In
Lia...	7	2018		Dithiothreitol-Regulated Coverage of Oligonucleotide-Modified Gold Nanopa...	ACS Appl Mater In
Sh...	8	2018		Flow Cytometric Bead Sandwich Assay Based on a Split Aptamer	ACS Appl Mater In
Tag...	9	2018		A novel colorimetric aptasensor for zearalenone detection based on nontarget-induced...	ACS Appl Mater Inte
Wa...	10	2018		Single Nanochannel-Aptamer-Based Biosensor for Ultrasensitive and Selective...	ACS Appl Mater In
Zh...	11	2018		Aptamer-patterned Hydrogel Films for Spatiotemporally Programmable Captu...	ACS Appl Mater In

Reference Preview Attached PDFs

Alfinito, E., et al. (2018). Thrombin Aptamer-Based Biosensors: A Model of the Electrical Response. A. Leone, A. Forleo, L. Francioso et al., Springer Verlag. **457**: 115-122.

Aptamers are target specific single stranded DNA, RNA or peptide sequences having the ability to bind a variety of proteins, molecules and also ions. Aptasensors, sensors based on aptamers, are at the frontier of sensing technology, mainly in diagnosis and therapy. They appear to be competitive with traditional sensors due to the possibility of detecting and measuring very low concentrations of many different ligands, whose detection and quantification are usually complex, expensive and time-consuming. In this paper we report about a thrombin aptasensor, able to resolve concentrations in a range of 6 orders of magnitude, and provide the microscopic interpretation of its electrical response on the basis of a single macromolecule approach. This investigation has been performed in the framework of an emerging branch of electronics

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EndNote X9 - [20180929 aptamer top200.enl]

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Nature x

Quick Search Show Search Panel

Author	Rec...	Year	Rating	Title	Research Notes	Journal
Shamah, S. M.; He...	1	2008		Complex target SELEX		Accounts of Ch
Roth, A.; Breaker, ...	2	2009		The Structural and Functional Diversity of Metabolite-Binding Ribo...		Annual Review
Shi, H.; He, X. X.; ...	3	2011		Activatable aptamer probe for contrast-enhanced in vivo cancer im...		Proceedings of
Fang, X. H.; Cao, Z...	4	2001		Molecular aptamer for real-time oncoprotein platelet-derived gro...		Analytical Cher
Cao, Z. H.; Tong, R...	5	2009		Reversible Cell-Specific Drug Delivery with Aptamer-Functionalize...		Angewandte C
Zheng, D.; Seferos...	6	2009		Aptamer Nano-flares for Molecular Detection in Living Cells		Nano Letters
Medley, C. D.; Smi...	7	2008		Gold nanoparticle-based colorimetric assay for the direct detection...		Analytical Cher
Gilbert, S. D.; Stod...	8	2006		Thermodynamic and kinetic characterization of ligand binding to th...		Journal of Mole
Herr, J. K.; Smith, ...	9	2006		Aptamer-conjugated nanoparticles for selective collection and dete...		Analytical Cher
Berezovski, M.; D...	10	2005		Nonequilibrium capillary electrophoresis of equilibrium mixtures: A ...		Journal of the
Cheng, A. K. H.; G...	11	2007		Aptamer-based biosensors for label-free voltammetric detection o...		Analytical Cher
Wickiser, J. K.; Ch...	12	2005		The kinetics of ligand binding by an adenine-sensing riboswitch		Biochemistry
Liu, J.; Lu, Y.	13	2006		Preparation of aptamer-linked gold nanoparticle purple aggregates ...		Nature Protoc
Wang, K. Y.; McCu...	14	1993		A DNA APTAMER WHICH BINDS TO AND INHIBITS THROMBIN EX...		Biochemistry
Chang, H. X.; Tang,...	15	2010		Graphene Fluorescence Resonance Energy Transfer Aptasensor for ...		Analytical Cher
Fang, X. H.; Sen, A...	16	2003		Synthetic DNA aptamers to detect protein molecular variants in a high-		Chembiochem

Reference Preview Attached PDFs

1 15
Analytical Chemistry
Graphene Fluorescence Resonance Energy Transfer Aptasensor for the Thrombin Detection. Analytical Chemistry 82, 2341-2346, doi:10.1021/ac9025384 (2010).
Combining nanomaterials and biomolecule recognition units is promising in developing novel clinic diagnostic and protein analysis techniques. In this work, a highly sensitive and specific fluorescence resonance energy transfer (FRET) aptasensor for thrombin detection is developed based on the dye labeled aptamer assembled graphene. Due to the noncovalent assembly between aptamer and graphene, fluorescence quenching of the dye takes place because of FRET. The addition of thrombin leads to the fluorescence recovery due to the formation of quadruplex-thrombin complexes which have weak affinity to graphene and keep the dyes away from graphene surface. Because of the high fluorescence quenching efficiency, unique structure, and electronic properties of graphene, the graphene aptasensor exhibits extraordinarily high sensitivity and excellent specificity in both buffer and blood serum. A detection limit as low as 31.3 pM is obtained based on the graphene FRET aptasensor, which is two orders magnitude lower than those of fluorescent sensors based on carbon nanotubes. The excellent performance of FRET aptasensor based on graphene will also be ascribed to the unique structure and electronic properties of graphene.

快速浏览

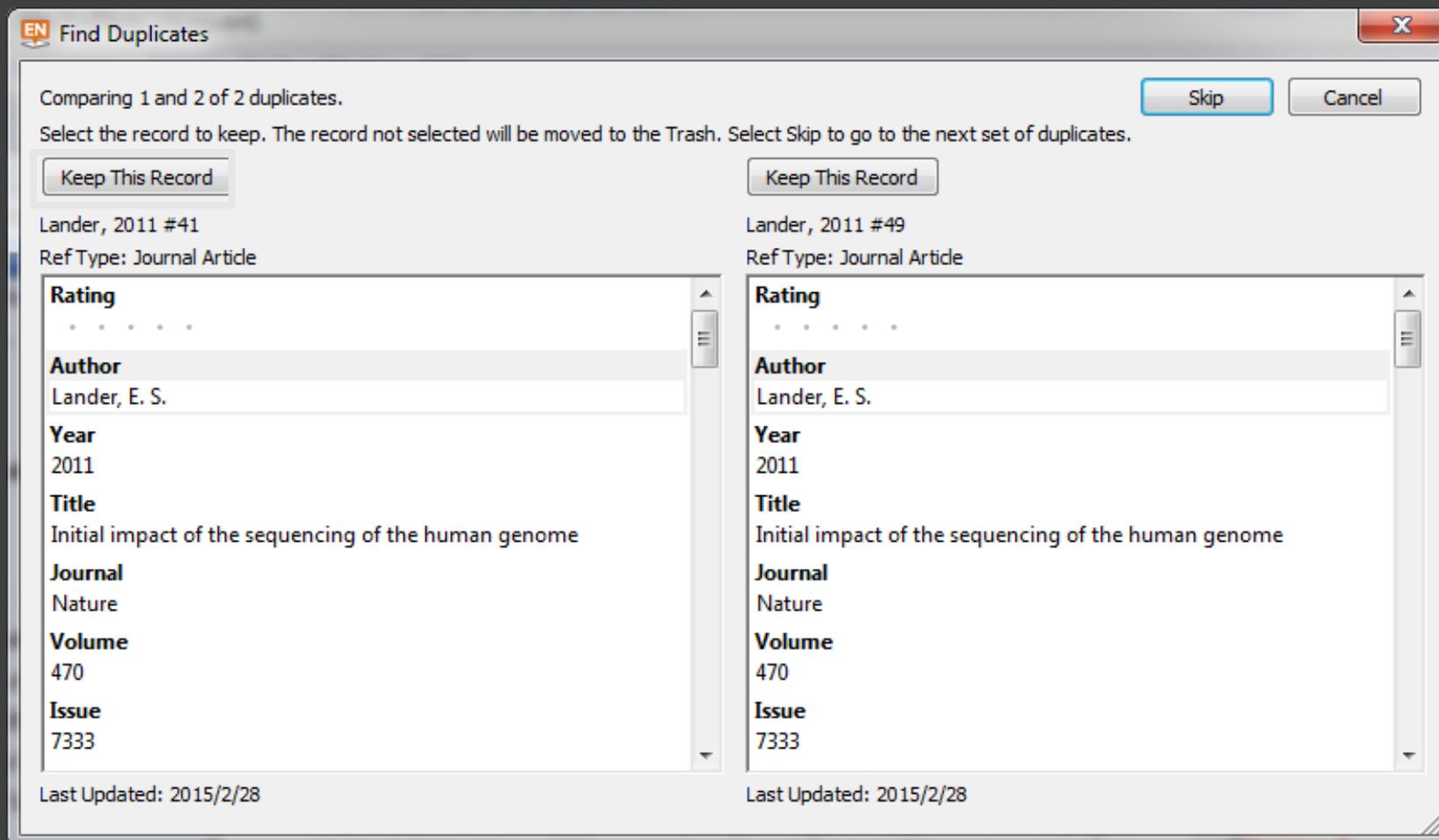
Showing 200 of 200 references in Group. (All References: 5586)

Layout

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- 去掉重复
- 全文下载
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- 笔记管理
- 分组管理文献

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STEP1

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“References”



STEP2

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“Find Duplicates”



STEP3

选择保留的记录

5 文献管理软件的管理功能

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smart group

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