

# EndNote 20

## 新功能簡介

# Outline

- ▶ 1 相容性
- ▶ 2 介面介紹
- ▶ 3 功能位置  
移動/新增
- ▶ 4 EndNote Click
- ▶ 5 Q & A 集合

# 相容性

# 對 Windows 作業系統相容性

Win 7

Win 8

Win 10

EndNote  
X9

O

O

O

EndNote  
20

X

X

O

# 對 Mac 作業系統相容性

OS Mojave  
10.14.X

OS Catalina  
10.15.X

OS Big Sur  
11.0.X

EndNote  
X9

○

先升級X9.3版

○

X

EndNote  
20

○

○

X

# 與 MS Word 相容

2007

2010

2013

2016

2019

365

EndNote  
X9

Windows

Mac

EndNote  
20

Windows

Mac

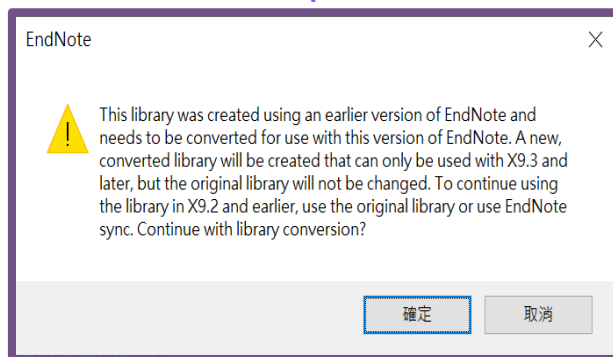
# 各Library版本相容性

X9.2以前

完全相容

X9.3以上

完全相容



Sample  
enl + data

轉成新檔後可開啟

Sample  
-Converted  
enl + data

不相容無法開啟

# 介面設計



# 全新介面設計

## 總功能

File Edit References Groups Library Tools Window Help

Sync Configuration

All References 38

Imported References 10

Recently Added 10

Unfiled 38

Trash 0

### MY GROUPS

My Groups

### FIND FULL TEXT

### GROUPS SHARED BY ...

### ONLINE SEARCH

同步

參考文獻分類

群組

找全文狀態

連線資料庫檢索

## Library 中搜尋

All References

All References

38 References

快捷鍵



		Author	Year	Title	Journal	Reference Type
●	📎	Blanco Martín, ...	2016	Dysexecutive syndrom...	BMC Ne...	Journal Article
●		Boucher, E.; M...	2021	Perspectives on the Im...	JMIR Me...	Journal Article
●		Conklin, J.; Fro...	2021	Susceptibility-weighte...	J Neurol ...	Journal Article
☑		Cretin, B.; Blan...	2012	Epileptic Amnesic Synd...	Epilepsy ...	Journal Article
☑		Dagher, S.; Hil...	2021	Utilizing Continuous Fl...	Biointerf...	Journal Article
●		Dagher, S.; Hil...	2021	Utilizing Continuous Fl...	Biointerf...	Journal Article
●		Deshmukh, S. ...	2012	Hippocampus	Wiley Int...	Journal Article
☑		Disdier, P.; Harl...			Rev Med...	Journal Article
☑		Draper, C. E.; ...	2021	COVID-19 and Physical...	J Phys A...	Journal Article
☑		El-Saka, H. A. ...	2021	A fractional complex n...	Advance...	Journal Article

書目資料

## 詳細書目資料、編輯

Blan..., 2016 #4 Summary Edit X

Blanco Martín-2016-Dysexec...

+ Attach file

**Dysexecutive syndrome in amnesic mild cognitive impairment: a multicenter study**

E. Blanco Martín, I. Ugarriza Serrano, X. Elcoroaristizabal Martín, L. Galdos Alceyay, A. Molano Salazar, R. Bereincua Gandarias, et al.

BMC Neurol 2016 Vol. 16 Pages 88

Vancouver

Copy citation

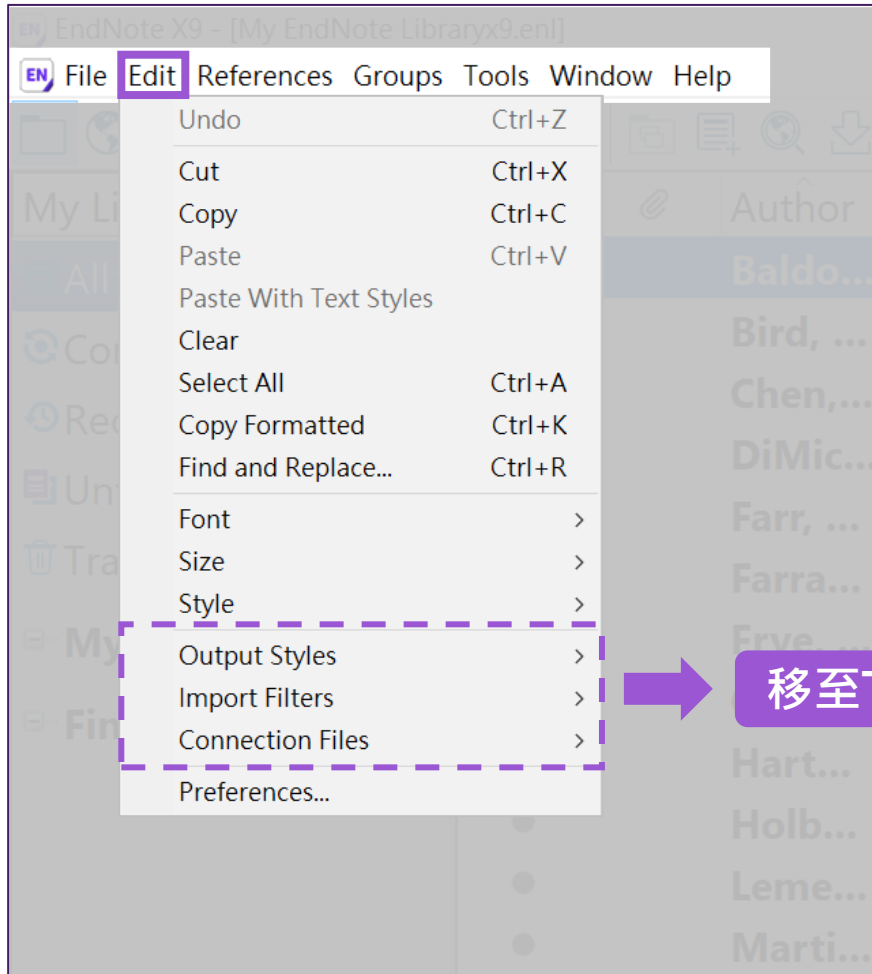
1. Blanco Martín E, Ugarriza Serrano I, Elcoroaristizabal Martín X, Galdos Alceyay L, Molano Salazar A, Bereincua Gandarias R, et al. Dysexecutive syndrome in amnesic mild cognitive impairment: a multicenter study. BMC Neurol. 2016;16:88.

書目格式預覽

# 功能位置 移動/新增

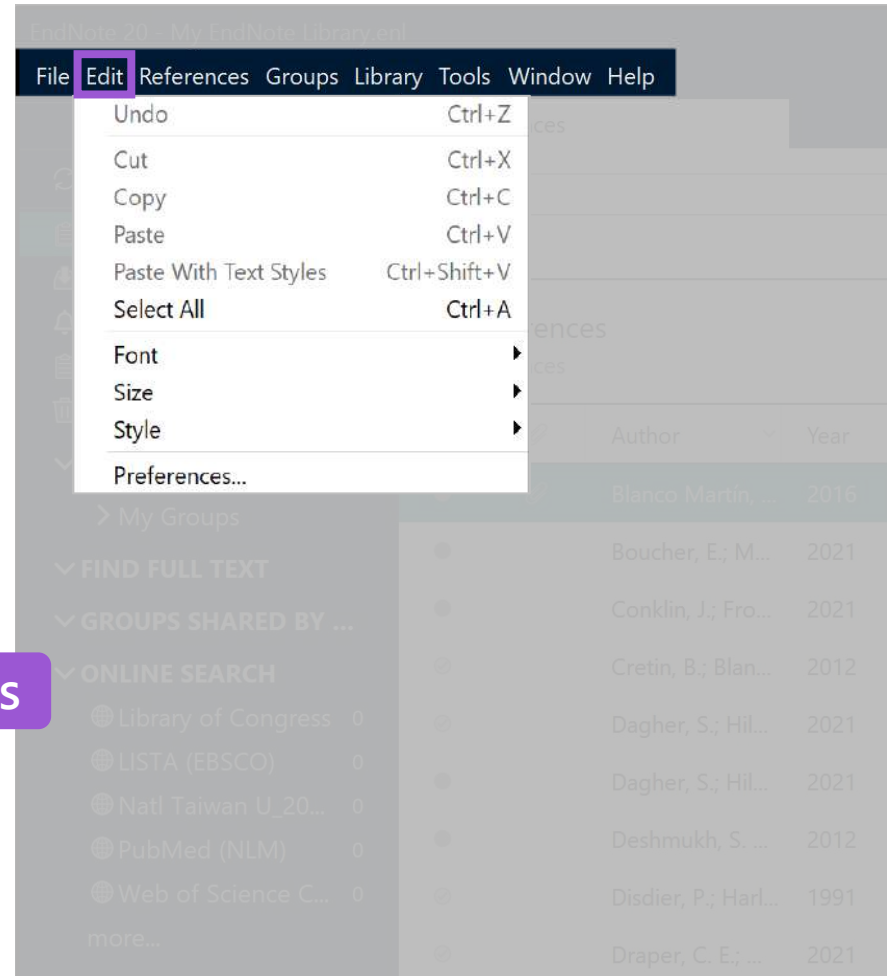
# 功能移動 — Edit 選單

## EndNote X9



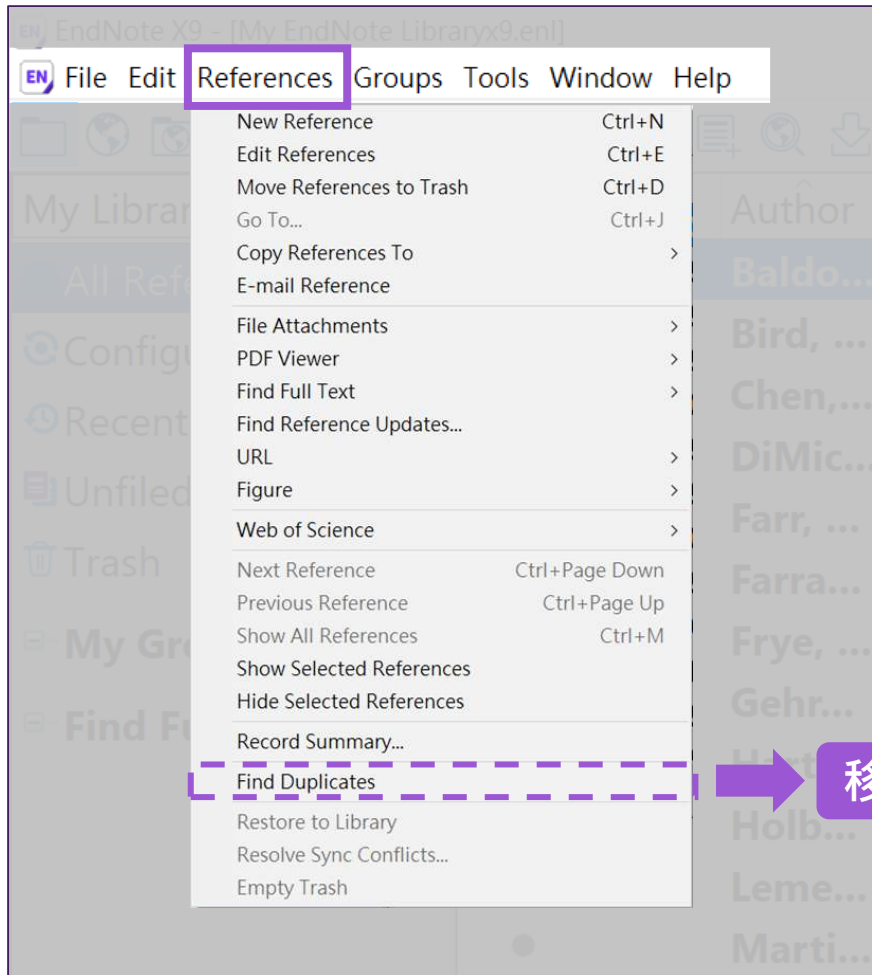
移至Tools

## EndNote 20



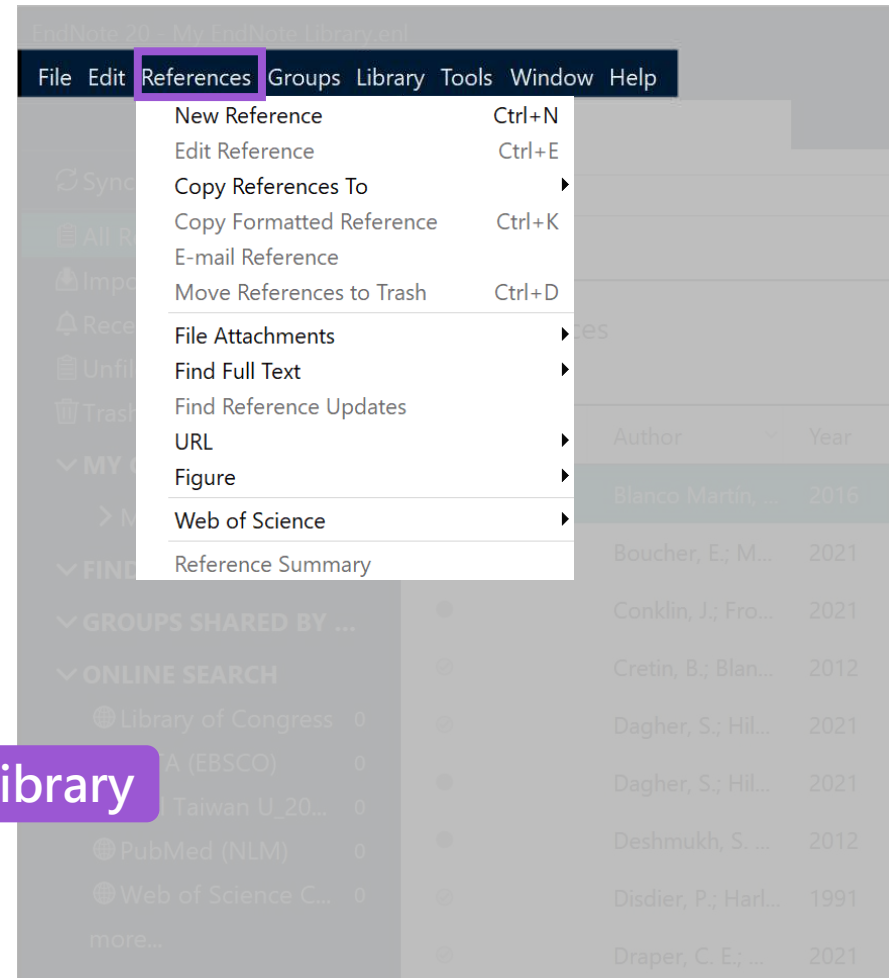
# 功能移動 — References 選單

## EndNote X9



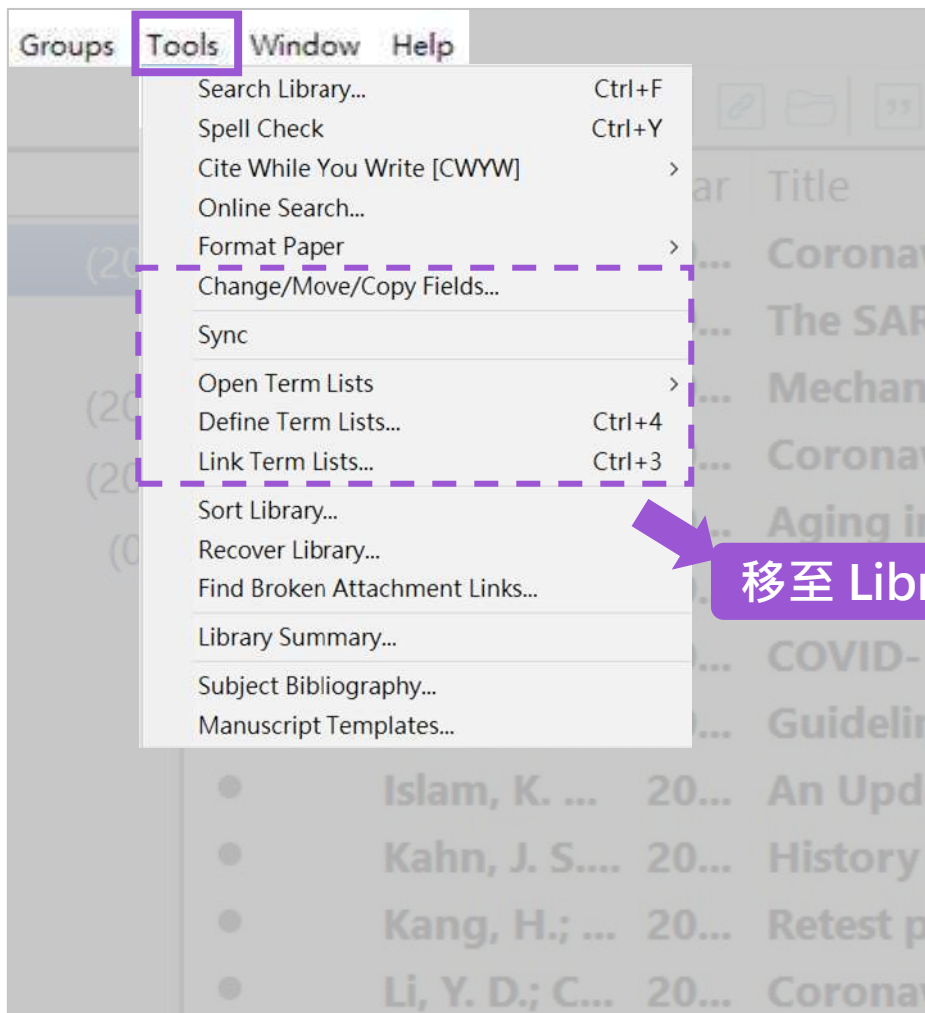
移至Library

## EndNote 20

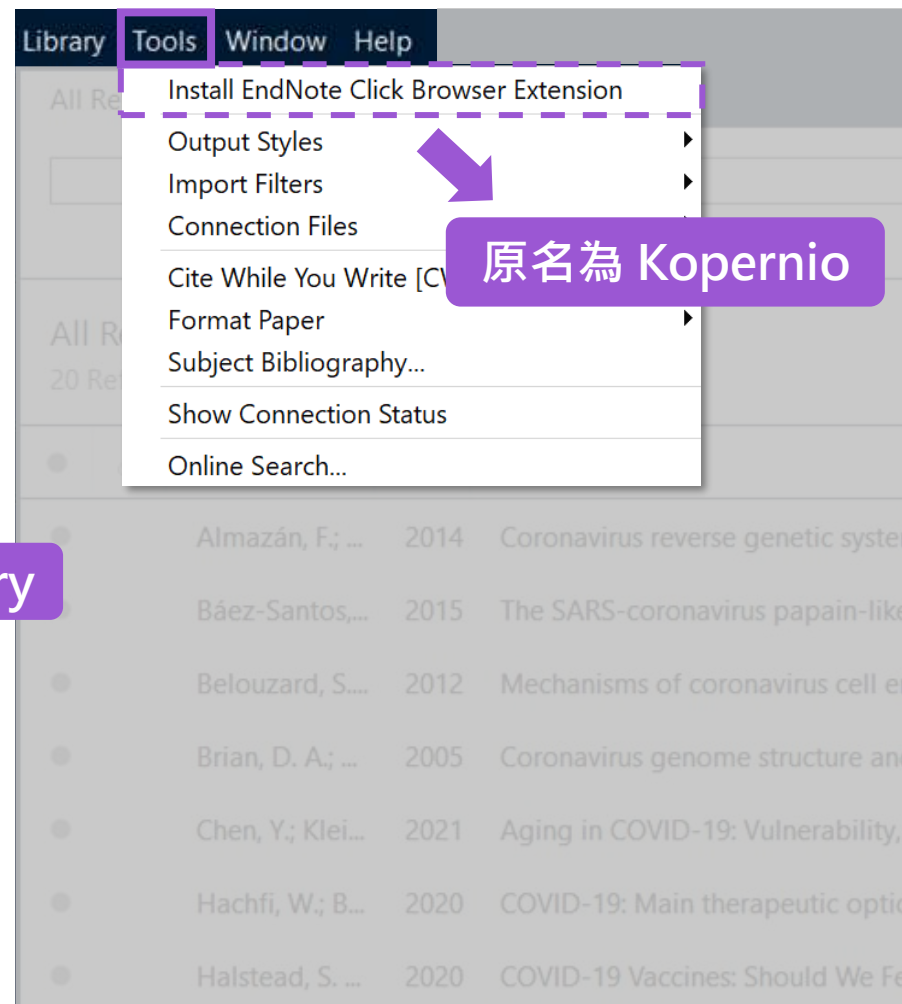


# 功能移動 — Tools 選單

## EndNote X9

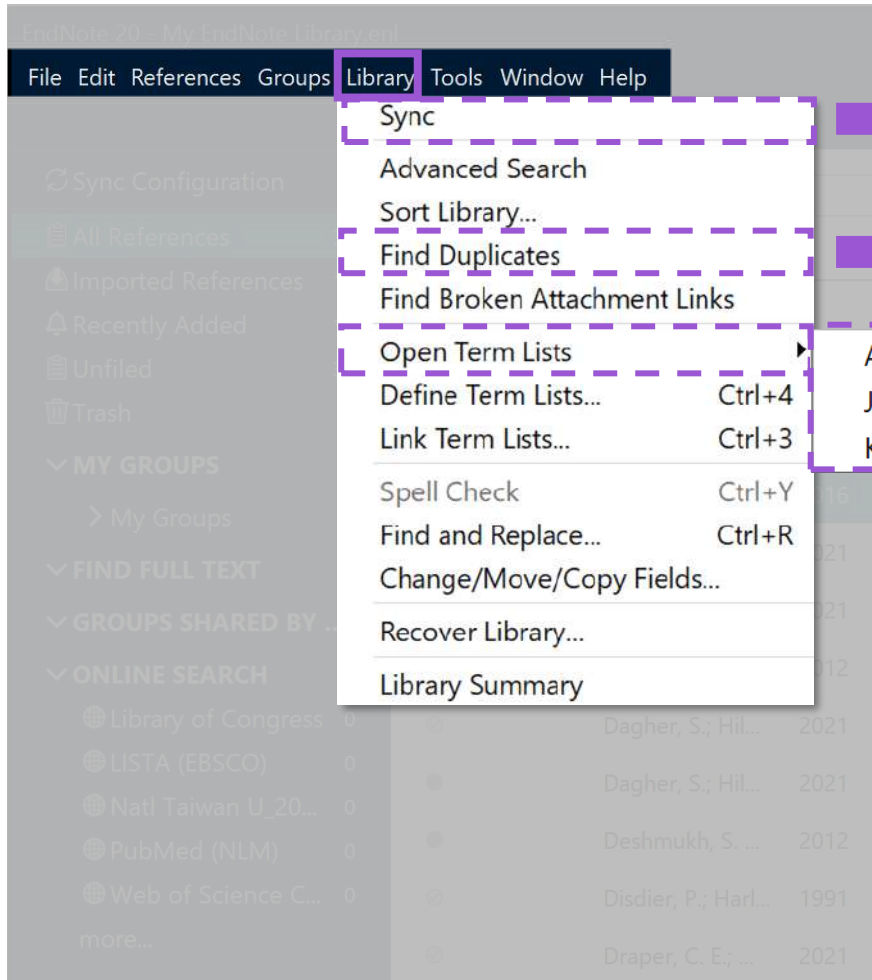


## EndNote 20



# 功能移動 — 新增 Library 選單

## EndNote 20



同步功能

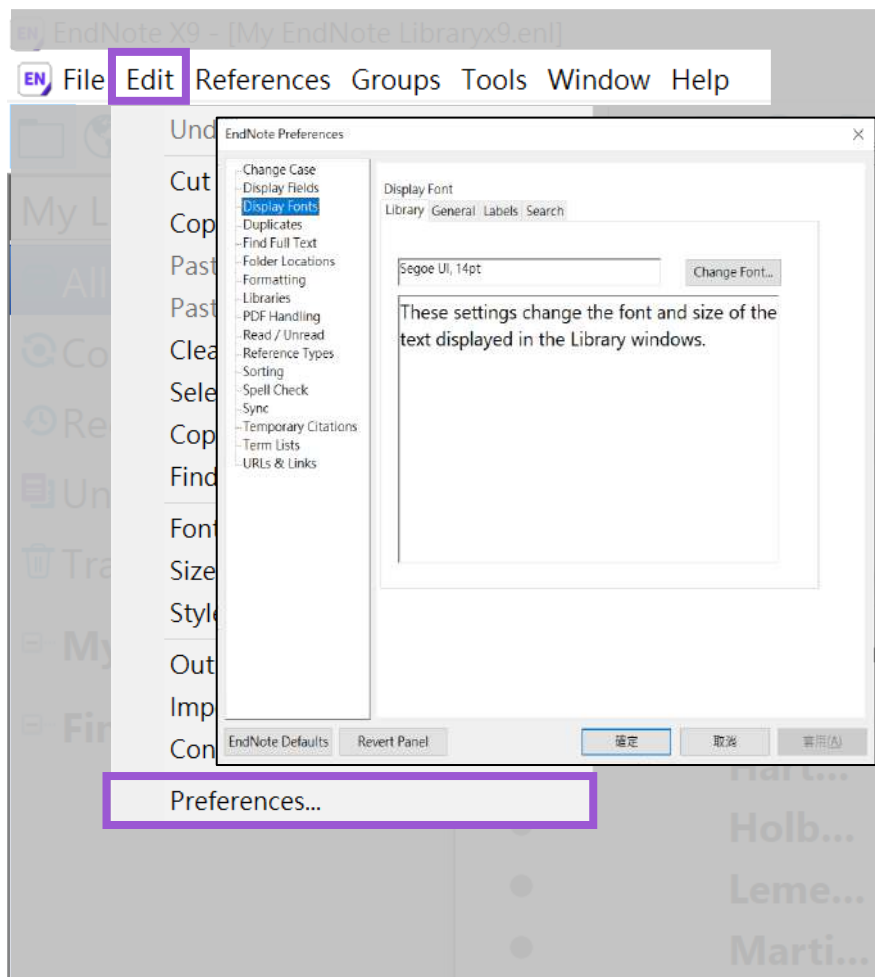
去除重複 Reference

作者  
期刊縮寫與全稱  
關鍵字清單

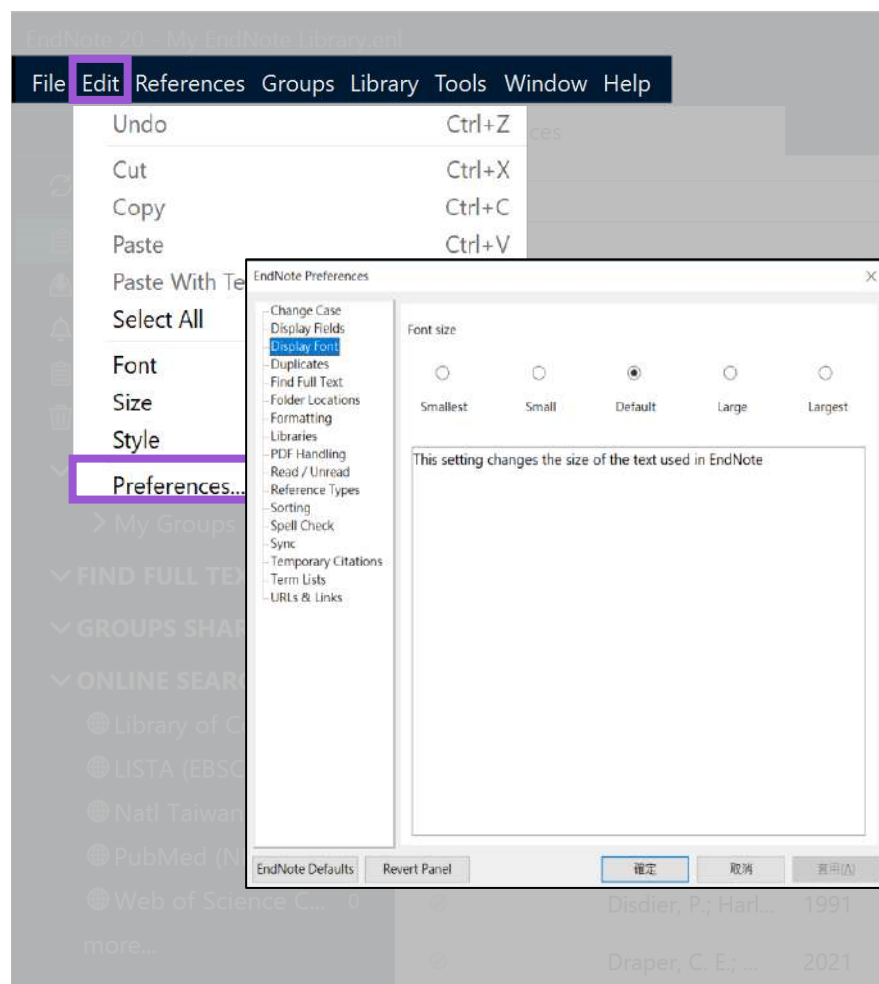


# Preferences更新— Display Fonts

## EndNote X9

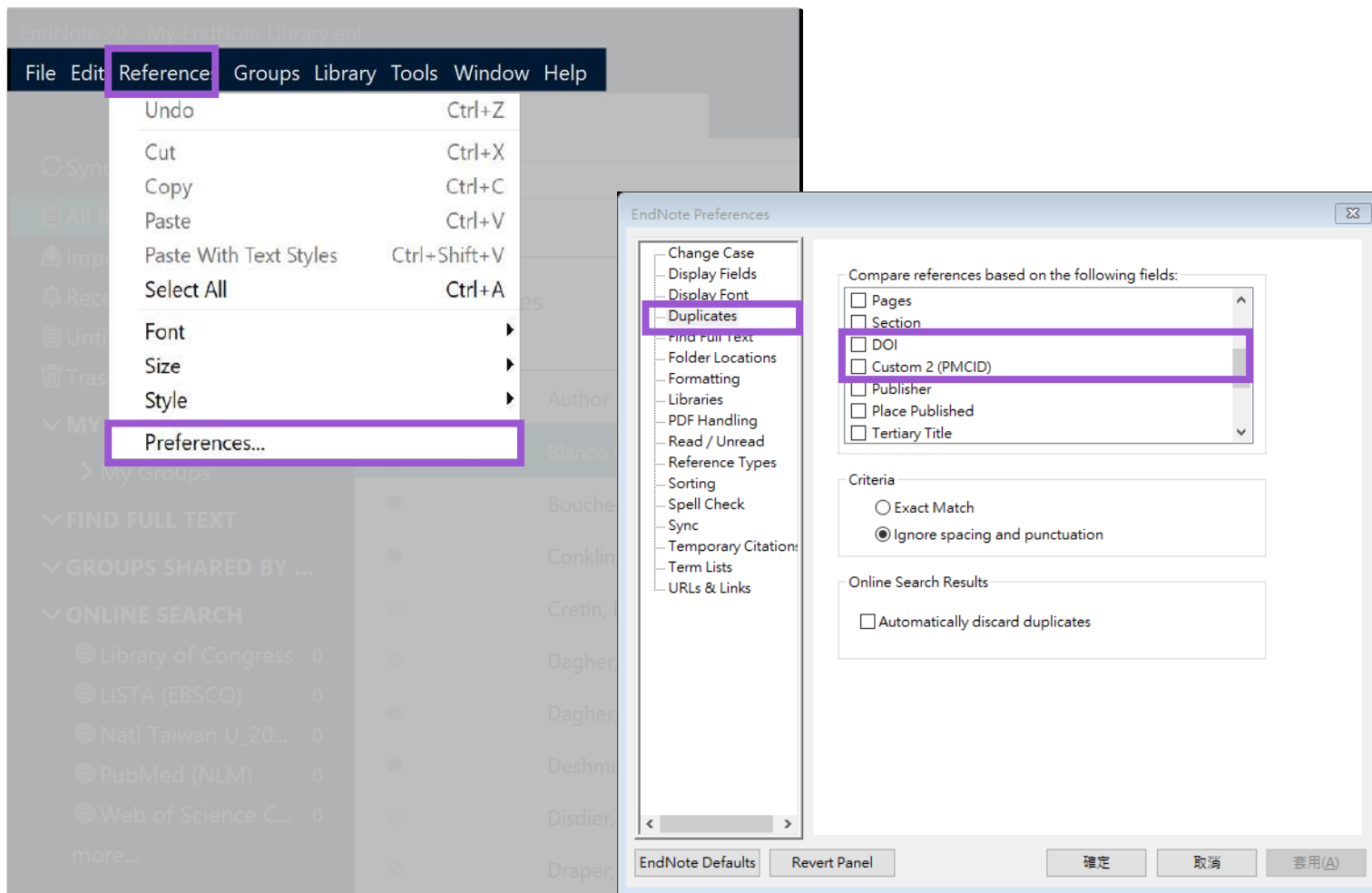


## EndNote 20



# Preferences新增 — Duplicates選項

## EndNote 20





# 快捷鍵 & Library 搜尋調整

## EndNote X9



EndNote X9 - [My EndNote Libraryx9.enl]

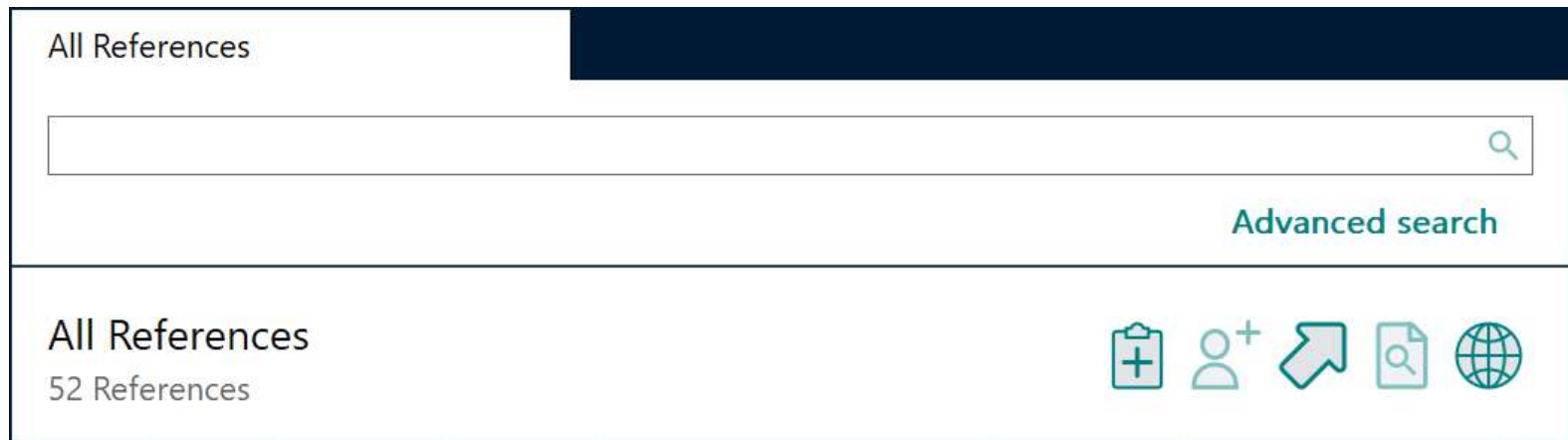
File Edit References Groups Tools Window Help

PLoS

Quick Search Show Search Panel

Author	Year	Title	Journal	Reference Type	Rating	Last Updated
Baldo...	2001	FLUXNET: A new ...	Bulleti...	Journal Article		2021/2/22
Bird, ...	2021	Advances in dee...	New A...	Journal Article		2021/2/22

## EndNote 20



All References

Advanced search

All References

52 References

Icons: +, person+, arrow, magnifying glass, globe

# Group

## EndNote X9



Group 必須  
隸屬於一個  
Group Set

## EndNote 20


Group 可直接在 MY GROUPS 功能之下，也可隸屬於一個 Group Set



只有在 Group Set 之下的 Group 能使用 Create from Group

# Insert Citation

## EndNote X9




The toolbar shows several icons: a double quote icon (highlighted with a purple box), a document icon, a Word icon, a refresh icon, a person icon, a person icon with a plus sign, a question mark icon, and a search icon. The text 'Quick Search' is visible to the right of the icons.

**D.** **Insert Citation (Alt+2)**  
Insert a citation for each selected reference. You can insert up to 250 consecutive citations.

## EndNote 20



All References  
20 References

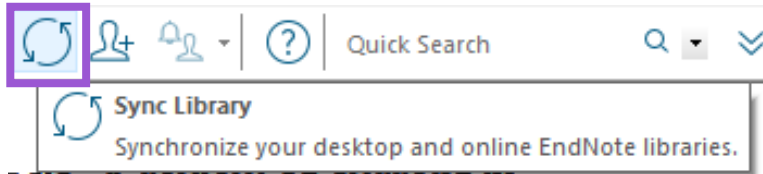


The toolbar shows several icons: a double quote icon (highlighted with a red box), a plus icon, a person icon with a plus sign, a person icon, a magnifying glass icon, and a globe icon.

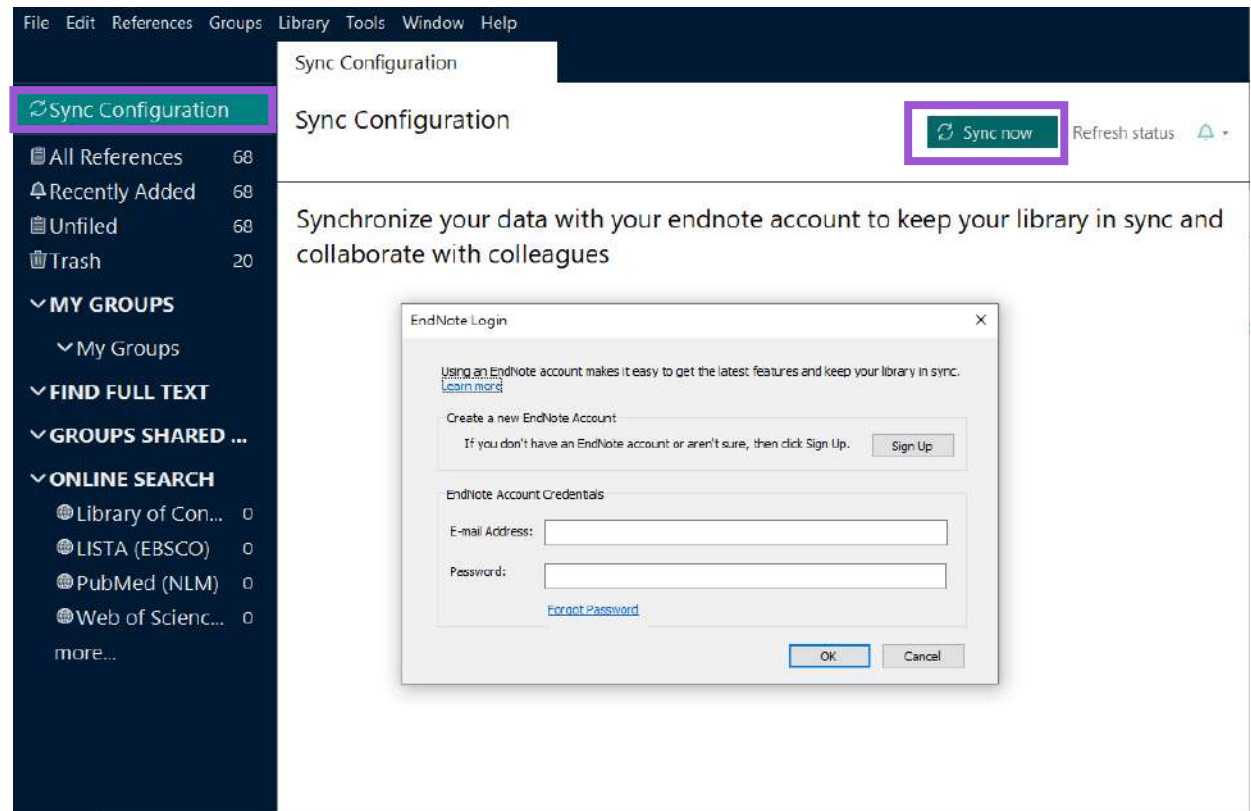
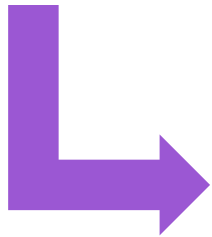
		Author	Year	Title	Rating	Journal
		Berke, J. D.	2018	What does dopamine mean?	• • • • •	Nat Neu

# Sync

## EndNote X9

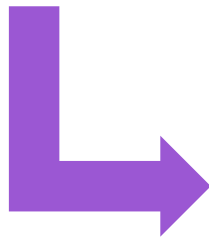
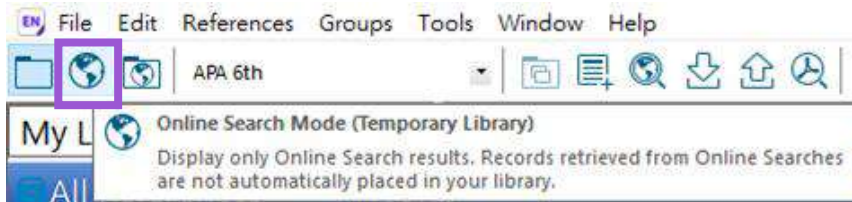


## EndNote 20

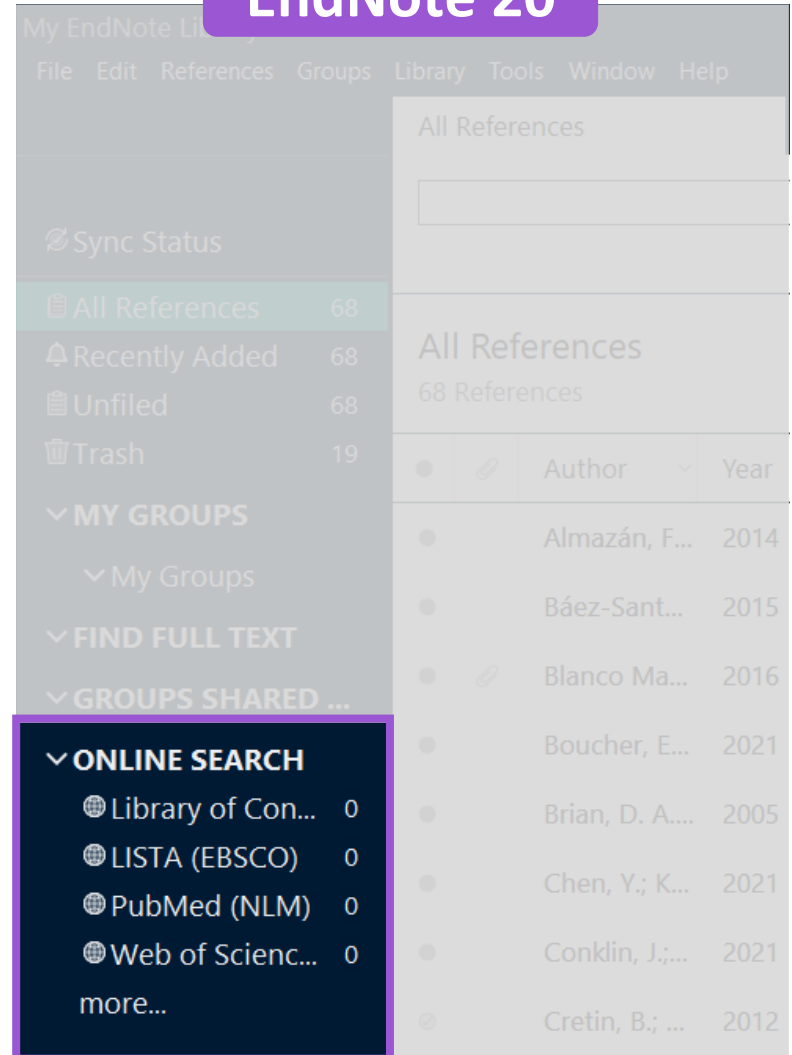


# Online Search

## EndNote X9



## EndNote 20



# Online Search

My EndNote Library

File Edit References Groups Library Tools Window Help

PubMed (NLM)

Author (Smith, A.B.) Contains [ ] + x

And Year Contains 2021 + x

And Title Contains covid-19 + x

X Clear search Search options Search

Searching PubMed (NLM)

Retrieve results: 25 50 75 100 ... 17,127

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Author	Year	Title	Rating	Journal	Last Up...	Reference Ty...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Whitaker, ...	2021	UK COVID-19 public inquiry and lessons from pati...		Lancet	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samarasek...	2021	Feelings towards COVID-19 vaccination in Africa		Lancet Infect Dis	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Roy, B.; Ko...	2021	Electronic health record derived-impact of COVID...		J Neurol Sci	2021/3/1	Journal Artic...
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Rathor, R.; ...	2021	Coronavirus Disease 2019 (COVID-19): Research, ...		J Environ Pathol Toxicol O...	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Philpot, L. ...	2021	Changes in social relationships during an initial "s...		Soc Sci Med	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Petrone, L.;...	2021	In-vitro evaluation of the immunomodulatory effe...		J Infect	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Petersen, E...	2021	Answer to Paredes et al. commenting on "COVID-...		Int J Infect Dis	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nogues, X...	2021	Hospital-at-Home Expands Hospital Capacity Duri...		J Am Med Dir Assoc	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nazy, I.; Je...	2021	Platelet-Activating Immune Complexes Identified ...		J Thromb Haemost	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Musavi, H.;...	2021	Mechanisms of COVID-19 Entry into the Cell: Pot...		Iran J Allergy Asthma Imm...	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Miriam, R. ...	2021	Premature transition of nursing students to the p...		Nurse Educ Pract	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mira, J. J.; ...	2021	Proposals for person-centred care in the COVID-1...		Health Expect	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Li, Y.; Zhan...	2021	Lipid metabolism changes in patients with severe ...		Clin Chim Acta	2021/3/1	Journal Artic...
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Kumar, A.; ...	2021	Possibility of using ultraviolet radiation for disinfe...		Photodiagnosis Photodyn ...	2021/3/1	Journal Artic...

Rathor, 2021 #48 Summary Edit x

+ Attach file

**Coronavirus Disease 2019 (COVID-19): Research, Clinical Knowledge, and Preventive Measures**

R. Rathor, G. Suryakumar, S. N. Singh and B. Kumar

J Environ Pathol Toxicol Oncol 2021 Vol. 40 Issue 1 Pages 29-42

Accession Number: 33639071 DOI: 10.1615/JEnvironPatholToxicolOncol.2020036207

<https://www.ncbi.nlm.nih.gov/pubmed/33639071>

In early December 2019, a novel coronavirus disease 2019 (COVID-19), the global pandemic caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) commenced in Wuhan, China, and WHO declared the outbreak a pandemic and Public Health Emergency of International Concern. An ample number of clinical trials with multiple drugs is underway to overcome the current perilous condition. Still, the situation is alarming with no therapeutic measure in our hand at present. Keeping the present scenario in mind, this review comprises the research, clinical knowledge, and repurposed herbals with regard to COVID-19. Preventive measures such as yoga, nasal breathing, and herbal administration could also provide protection and beneficial effects against coronavirus. Innumerable clinical trials are ongoing to manage COVID-19 and the drugs

APA 7th Copy citation



# 預覽、編輯單筆書目

Library Tools Window Help

All References

Advanced search

All References  
68 References

Author	Year	Title	Rating	Journal	Last Up...	Reference Type
Zuo, Y. T.; ...	2021	A Fractal Rheological Model for SiC Paste using a ...		Journal of Applied and Co...	2021/3/1	Journal Article
Zhang, Y. ...	2021	Hydrogel: A potential therapeutic material for bo...		Aip Advances	2021/3/1	Journal Article
Yüce, M.; F...	2021	COVID-19 diagnosis -A review of current methods		Biosens Bioelectron	2021/3/1	Journal Article
Yin, S.; Zha...	2021	Preservation of alveolar ridge height through mec...		Bioactive Materials	2021/3/1	Journal Article
Yao, Y. X.; ...	2021	High performance hydroxyapatite ceramics and a ...		Journal of Advanced Cera...	2021/3/1	Journal Article
Yadav, R.; ...	2021	Docking of FDA Approved Drugs Targeting NSP-1...		Biointerface Research in A...	2021/3/1	Journal Article
Wei, H. L.; ...	2021	Mechanistic models for additive manufacturing of...		Progress in Materials Scien...	2021/3/1	Journal Article
Uddin, M. ...	2021	Application of the Farm Simulation Model approa...		Tropical Animal Health an...	2021/3/1	Journal Article
Tillett, R. L...	2021	Genomic evidence for reinfection with SARS-CoV-...		Lancet Infectious Diseases	2021/3/1	Journal Article
Tabatabaei...	2021	Airborne transmission of COVID-19 and the role ...		European Journal of Medic...	2021/3/1	Journal Article
Soares, P. I...	2021	Design and engineering of magneto-responsive d...		Progress in Materials Scien...	2021/3/1	Journal Article
Silveira, M...	2021	DNA vaccines against COVID-19: Perspectives an...		Life Sci	2021/3/1	Journal Article
Seidel, A.; ...	2021	Cyber-physical approach toward semiautonomou...		Journal of Laser Applicatio...	2021/3/1	Journal Article
Sachdeva, ...	2021	The disparities faced by the LGBTQ+ community i...		Psychiatry Res	2021/3/1	Journal Article
Rezaei, M.;...	2021	Dynamic Changes of Lymphocyte Subsets in the ...		Int Arch Allergy Immunol	2021/3/1	Journal Article
Rathinavel...	2021	Potential COVID-19 Drug from Natural Phenolic ...		Biointerface Research in A...	2021/3/1	Journal Article

Yadav, 2021 #67 Summary Edit

Save

Reference Type: Journal Article

Author: Yadav, R. Parihar, R. D. Dhiman, U. Dhamija, P. Upadhyay, S. K. Imran, M. Behera, S. K. Prasad, T. S. K.

Year: 2021

Title: Docking of FDA Approved Drugs Targeting NSP-16, N-Protein and Main Protease of SARS-CoV-2 as Dual Inhibitors

Journal: Biointerface Research in Applied Chemistry

Volume: 11

Part/Supplement:

Issue: 3

Pages: 9848-9861

Start Page:

Errata:

Epub Date:

# 引用格式預覽

Library Tools Window Help

All References

Advanced search

All References  
68 References

Author	Year	Title	Rating	Journal	Last Up...	Reference Type
Zuo, Y. T.; ...	2021	A Fractal Rheological Model for SiC Paste using a ...		Journal of Applied and Co...	2021/3/1	Journal Article
Zhang, Y. ...	2021	Hydrogel: A potential therapeutic material for bo...		Aip Advances	2021/3/1	Journal Article
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Silveira, M...	2021	DNA vaccines against COVID-19: Perspectives an...		Life Sci	2021/3/1	Journal Article
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Rathinavel...	2021	Potential COVID-19 Drug from Natural Phenolic ...		Biointerface Research in A...	2021/3/1	Journal Article

Yadav, 2021 #67 [Summary](#) Edit

Docking of FDA Approved Drugs Tar...

+ Attach file

**Docking of FDA Approved Drugs Targeting NSP-16, N-Protein and Main Protease of SARS-CoV-2 as Dual Inhibitors**

R. Yadav, R. D. Parihar, U. Dhiman, P. Dhamija, S. K. Upadhyay, M. Imran, et al.

Biointerface Research in Applied Chemistry 2021 Vol. 11 Issue 3 Pages 9848-9861

Accession Number: WOS:000591668100003 DOI: 10.33263/bric113.98489861

APA 6th Copy citation

Select Another Style...

- Annotated
- APA 6th
- APA 6th Copy
- APA 7th
- Author-Date
- Chicago 17th Footnote
- MHRA (Author-Date)
- Numbered
- Show All Fields
- Turabian 9th Footnote
- Vancouver



# 檢視PDF

Library Tools Window Help

All References

Advanced search

All References  
68 References

●	✎	Author	Year	Title	Rating	Journal	Last Up...	Reference Type
●		Zuo, Y. T.; ...	2021	A Fractal Rheological Model for SiC Paste using a ...		Journal of Applied and Co...	2021/3/1	Journal Article
●		Zhang, Y. ...	2021	Hydrogel: A potential therapeutic material for bo...		Aip Advances	2021/3/1	Journal Article
●		Yüce, M.; F...	2021	COVID-19 diagnosis -A review of current methods		Biosens Bioelectron	2021/3/1	Journal Article
●		Yin, S.; Zha...	2021	Preservation of alveolar ridge height through mec...		Bioactive Materials	2021/3/1	Journal Article
●		Yao, Y. X.; ...	2021	High performance hydroxyapatite ceramics and a ...		Journal of Advanced Cera...	2021/3/1	Journal Article
●	✎	Yadav, R.; ...	2021	Docking of FDA Approved Drugs Targeting NSP-1...		Biointerface Research in A...	2021/3/1	Journal Article
●		Wei, H. L.; ...	2021	Mechanistic models for additive manufacturing of...		Progress in Materials Scien...	2021/3/1	Journal Article
●		Uddin, M. ...	2021	Application of the Farm Simulation Model approa...		Tropical Animal Health an...	2021/3/1	Journal Article
●		Tillett, R. L...	2021	Genomic evidence for reinfection with SARS-CoV-...		Lancet Infectious Diseases	2021/3/1	Journal Article
●		Tabatabaei...	2021	Airborne transmission of COVID-19 and the role ...		European Journal of Medic...	2021/3/1	Journal Article
●		Soares, P. I...	2021	Design and engineering of magneto-responsive d...		Progress in Materials Scien...	2021/3/1	Journal Article
●		Silveira, M...	2021	DNA vaccines against COVID-19: Perspectives an...		Life Sci	2021/3/1	Journal Article
●		Seidel, A.; ...	2021	Cyber-physical approach toward semiautonomou...		Journal of Laser Applicatio...	2021/3/1	Journal Article
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●		Rezaei, M.;...	2021	Dynamic Changes of Lymphocyte Subsets in the ...		Int Arch Allergy Immunol	2021/3/1	Journal Article
●		Rathinavel...	2021	Potential COVID-19 Drug from Natural Phenolic ...		Biointerface Research in A...	2021/3/1	Journal Article

Yadav, 2021 #67 Summary Edit

Docking of FDA Approved Drugs Tar...

- Open Ctrl+Alt+P
- Open with Microsoft Edge
- Save As... Ctrl+Shift+S
- Convert to Relative Links
- Rename Attachment...
- Rename PDFs...
- Delete

ngs Targeting  
protease of SARS-

h, P. Dhamija, S.

Biointerface Research in Applied Chemistry 2021  
Vol. 11 Issue 3 Pages 9848-9861

Accession Number: WOS:000591668100003 DOI:  
10.33263/briac113.98489861

At present world is lurching under the spread of new SARS-CoV-2 infection. The treatment is still elusive despite the relentless effort by the scientists against various viral structures. Whereas the 3-Chymotrypsin-like proteases cleave polyproteins and structural proteins help in viral replication. At the same time, non-structural proteins stimulate mRNA cap methylation to evade the immune response. The present study aims to identify novel dual inhibitor compounds with potential hits simultaneously against any of these three targets, including 3C-like proteases, N-protein, and NSP16 through virtual screening, molecular docking approach, and molecular dynamics. Such dual inhibitors may provide the necessary treatment to alleviate the current pandemic. We screened 265 FDA approved infectious disease drugs against three types of Covid-19 targets, i.e., 3C-like proteinase (6w63).

APA 6th Copy citation

# 檢視PDF—註記工具

The screenshot displays the EndNote application interface. At the top, there is a menu bar with 'Library', 'Tools', 'Window', and 'Help'. Below it, a search bar is visible. The main window is titled 'All References' and shows a list of references on the left. The selected reference is 'Docking of FDA Approved Drugs Target-Yadav-2021 (My EndNote Library)'. The PDF viewer window is open, showing the article 'Mechanistic models for additive manufacturing of metallic components' from 'Progress in Materials Science'. A purple box highlights the annotation toolbar in the PDF viewer, which includes icons for highlighting, underlining, and other text annotations. The right sidebar shows the article's summary, including the title, authors (R. Yadav, R. D. Parihar, U. Dhiman, P. Dhamija, S. K. Upadhyay, M. Imran, et al.), journal information, and a snippet of the abstract.

Library Tools Window Help

All References

Search

File Edit PDF Window Help

68 References

Page 1 / 113

100%

Auth

Zuo,

Zhan

Yüce,

Yin, S

Yao,

Yadav

Wei,

Uddi

Tillett

Tabat

Soare

Silvei

Seide

Sach

Reza

Rathi

Progress in Materials Science 116 (2021) 100703

Contents lists available at ScienceDirect

Progress in Materials Science

ELSEVIER

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Mechanistic models for additive manufacturing of metallic components

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ABSTRACT

Additive manufacturing (AM), also known as 3D printing, is gaining wide acceptance in diverse industries for the manufacturing of metallic components. The microstructure and properties of the components vary widely depending on printing process and process parameters, and prediction of causative variables that affect structure, properties and defects is helpful for their control. Since models are most useful when they can correctly predict experimental observations, we focus on the available mechanistic models of AM that have been adequately validated. Specifically, the applications of transport phenomena models in the studies of solidification, residual stresses, distortion, formation of defects and the evolution of microstructure and properties are critically reviewed. The functionality of AM models in understanding of the printability of commonly used AM alloys and the fabrication of functionally graded alloys are also assessed. Opportunities for future research are identified considering the gaps in knowledge in modeling. The uniqueness of this review includes substantive discussions of the rapid certification of the AM components aided by scale models, bidirectional models, cloud based big data, machine learning and digital twins of AM hardware.

Yadav, 2021 #67 Summary Edit

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Docking of FDA Approved Drugs Targeting NSP-16, N-Protein and Main Protease of SARS-CoV-2 as Dual Inhibitors

R. Yadav, R. D. Parihar, U. Dhiman, P. Dhamija, S. K. Upadhyay, M. Imran, et al.

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At present world is lurching under the spread of new SARS-CoV-2 infection. The treatment is still elusive despite the relentless effort by the scientists against various viral structures. Whereas the 3-Chymotrypsin-like proteases cleave polyproteins and structural proteins help in viral replication. At the same time, non-structural proteins stimulate mRNA cap methylation to evade the immune response. The present study aims to identify novel dual inhibitor compounds with potential hits simultaneously against any of these three targets, including 3C-like proteases, N-protein, and NSP16 through virtual screening, molecular docking approach, and molecular dynamics. Such dual inhibitors may provide the necessary treatment to alleviate the current pandemic. We screened 265 FDA approved infectious disease drugs against three types of Covid-19 targets, i.e., 3C-like proteinase (6w63).

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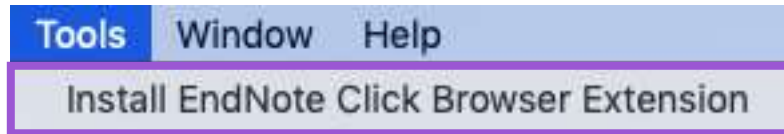
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### EVIDENCE OF PRESERVATION INJURY TO BILE-DUCTS BY BILE-SALTS IN THE PIG AND ITS PREVENTION BY INFUSIONS OF HYDROPHILIC BILE-SALTS

作者: HERTL, M (HERTL, M); HARVEY, PRC (HARVEY, PRC); SWANSON, PE (SWANSON, PE); WEST, DD (WEST, DD); HOWARD, TK (HOWARD, TK); SHENOY, S (SHENOY, S); STRASBERG, SM (STRASBERG, SM)

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#### 摘要

Preservation injury to bile ducts is a serious problem in **liver** transplantation, especially when preservation exceeds 12 hours. The authors hypothesized that the injury was caused by contact of bile ducts with bile salts during cold preservation and might be preventable by infusion of more hydrophilic bile salts. Swine livers were harvested after intraportal infusions of saline (control), of the hydrophobic bile salt taurodeoxycholate, or of the hydrophilic bile salts tauroursodeoxycholate or dehydrocholate. The effect of infusing a combination of hydrophilic and hydrophobic bile acids was evaluated. Livers were taken before and during the infusions. Then livers were perfused with UW solution, ducts were flushed retrograde at 0 to 1 degrees C for 20 hours. Bile ducts were harvested after preservation, and coded microscopic slides of the ducts were prepared. By light microscopy, there was large variability in baseline bile salt concentration. Injury after preservation consisted of sloughing and pyknosis of surface and glandular epithelium. The histologic injury score determined after preservation was directly related to bile salt

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## Evidence of Preservation Injury to Bile Ducts by Bile Salts in the Pig and Its Prevention by Infusions of Hydrophilic Bile Salts

MARTIN HERTL,<sup>1</sup> P. ROBERT C. HARVEY,<sup>1,2</sup> PAUL E. SWANSON,<sup>3</sup> DELIN D. WEST,<sup>1</sup> TODD K. HOWARD,<sup>1</sup> SURENDRA SHENOY,<sup>1</sup> AND STEVEN M. STRASBERG<sup>1</sup>

Preservation injury to bile ducts is a serious problem in liver transplantation, especially when preservation exceeds 12 hours. The authors hypothesized that the injury was caused by contact of bile ducts with bile salts during cold preservation and might be preventable by infusion of more hydrophilic bile salts. Swine livers were harvested after intraportal infusions of saline (control), of the hydrophobic bile salt taurodeoxycholate, or of the hydrophilic bile salts tauroursodeoxycholate or dehydrocholate. The effect of infusing a combination of hydrophilic and hydrophobic bile acids was also studied. Bile samples were taken before and during the infusions. Then livers were perfused with UW solution, ducts were flushed retrograde with UW, and livers were stored at 0 to 1°C for 20 hours. Bile ducts were harvested after preservation, and coded microscopic slides of the specimens were examined by light microscopy. There was large variability in baseline bile salt concentration. Injury after preservation consisted of sloughing and pyknosis of surface and glandular epithelium. The histologic injury score determined after preservation was directly related to bile salt concentration in bile ducts at the time of flushing. During bile salt infusions, the infused bile salt replaced most or all of the other bile salts present in bile. Severe postpreservation injury of intrahepatic ducts occurred after taurodeoxycholate infusions, but injury was minimal when either of the two hydrophilic bile salts was infused. The mixture of bile acids produced intermediate results. Retrograde flushing with UW does not prevent injury to intrahepatic ducts. The authors conclude that the injury is caused by

Preservation injury to intrahepatic bile ducts is a serious problem in orthotopic liver transplantation.<sup>1-5</sup> It occurs in 2% to 17% of all patients undergoing orthotopic liver transplantation and results in high morbidity and mortality.<sup>1-4,6,7</sup> Treatment of post-orthotopic liver transplantation intrahepatic biliary strictures is difficult, and retransplantation may be required.<sup>8</sup> When cold ischemic time exceeds 10 to 12 hours, the rate of stricture formation is reported to be greater than 25%.<sup>3-5</sup> The strictures occur despite retrograde perfusion of the bile ducts with UW solution.<sup>9</sup> It is likely that intrahepatic bile ducts are not flushed clear by this technique and that ducts remain in contact with bile through the preservation period. Although bile ducts are not normally injured by bile salts, injury might occur during cold ischemia. We hypothesized that the bile duct injury is attributable to the detergent effect of common bile salts and that infusion of less hydrophobic bile salts before procurement of the liver might attenuate this damage.

### MATERIALS AND METHODS

Adult female mini-pigs (Oakhill Genetics, Mount Vernon, IL) were used (25 to 31 kg) in all experiments according to a protocol approved by the Animal Committee of Washington University. They were fed *ad libitum* and had free access to water up to 16 hours before the time of surgery. All solutions used were prepared under sterile conditions.

M. Hertl et al.  
*Hepatology* (1995)

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