

M1 MSc DataScience - Methods and tools for technical and scientific writing

Tools for managing references

Semestre 1, 2021-2021

Lecturer: Marco Winckler (UCA, I3S)
winckler@unice.fr

Types of scientific articles

- Journal publications
 - Focused on extensive discussion of original results
or
 - Survey of state-of-the-art: comprehensive review of the literature
- News Articles / Magazines
 - Provide a brief overview of scientific findings for a general audience
 - Useful when you are searching for the latest scientific research
- Book chapters
 - Presentation and discussions on a topic making part of a big picture (the whole book)
 - Each chapter might be written by an independent author

Types of scientific articles

- Papers in conferences
 - Original research presented at conferences
 - Useful when you are looking for recent research in the scientific literature
 - (main) Types of contributions:
 - Full papers (long in extension, more prestigious, high selection)
 - Short Papers/Late breaking results (short contributions)
 - Poster/demonstrations (maybe part of the main / adjunct proceedings)
- Workshop papers
 - Brief descriptions of ongoing work
 - Some workshops might assimilated to small conferences whilst other workshops are focused on joint work and only require a position paper
 - Position paper: a brief statement (1-2 pages) describing an opinion

Peer Review Process



Common criteria selection

- Fit for the target audience/scope of journal/conference
- Originality of the work
- Quality of the results
- Review of previous work
 - State-of-the-art, related work, previous work, benchmark, etc.
 - Proper citation of relevant work
- Quality of the text
 - Language and structure
- Format of the paper

Terminology for references

- Citation
 - A short notice recognizing the source of information
 - A practice for referencing the work of others in the text. Ex:
 - “As discussed by Carrey et al. [10]...”
 - “In previous work (Carrey et al., 1995)...”
- References
 - A list of publication cited in a paper
 - Last section of a scientific paper (before annex if any)
 - Must include details for retrieving the original source of information cited in the text
 - Numbered or Ordered by alphabetic order Ex.
 - [1] James Carrey, Yin-In Chen, and Antonio Calado. Artistic paths... 1995..”
 - James Carrey, Yin-In Chen, and Antonio Calado. (1995) Artistic paths...”
- Bibliography
 - List of documents/publications relevant
 - A list of sources not cited in the publication but relevant for preparing the work

Referencing style

- The Vancouver system: used in medical and scientific journals
- The Harvard system
- Chicago manual of style
- American Psychological Association (APA): social sciences
- American Medical Association (AMA)
- Modern Language Association : literature and Arts
- ...

Example of citation style

Harvard style

Amo, C., Elices, N. & Huertas, D., 2012. Differential diagnosis by EEG of dissociative status versus nonconvulsive status epilepticus. *Actas españolas de psiquiatría*, 40(2), pp.93–96.

Banerjee, P. et al., 2002. Diastolic heart failure: neglected or misdiagnosed? *Journal of the American College of Cardiology*, 39(1), pp.138–141.

Shah, R.P., 2001. Diastolic pressure alternans: a new sign in congenital absence of the pericardium. *Singapore medical journal*, 42(2), pp.78–79.

Vancouver style

1.Amo C, Elices N, Huertas D. Differential diagnosis by EEG of dissociative status versus nonconvulsive status epilepticus. *Actas Esp Psiquiatr*. 2012 Apr;40(2):93–6.

2.Banerjee P, Banerjee T, Khand A, Clark AL, Cleland JGF. Diastolic heart failure: neglected or misdiagnosed? *J Am Coll Cardiol*. 2002 Jan 2;39(1):138–41.

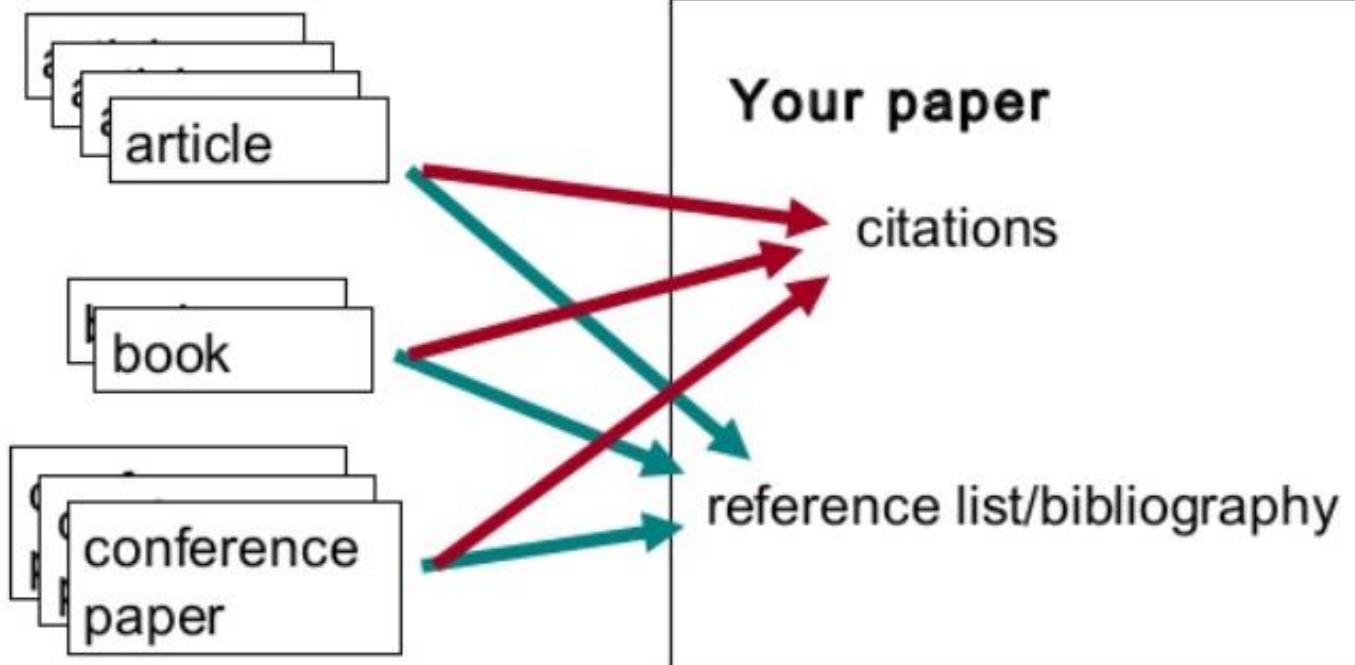
3.Shah RP. Diastolic pressure alternans: a new sign in congenital absence of the pericardium. *Singapore Med J*. 2001 Feb;42(2):78–9.

Exercise

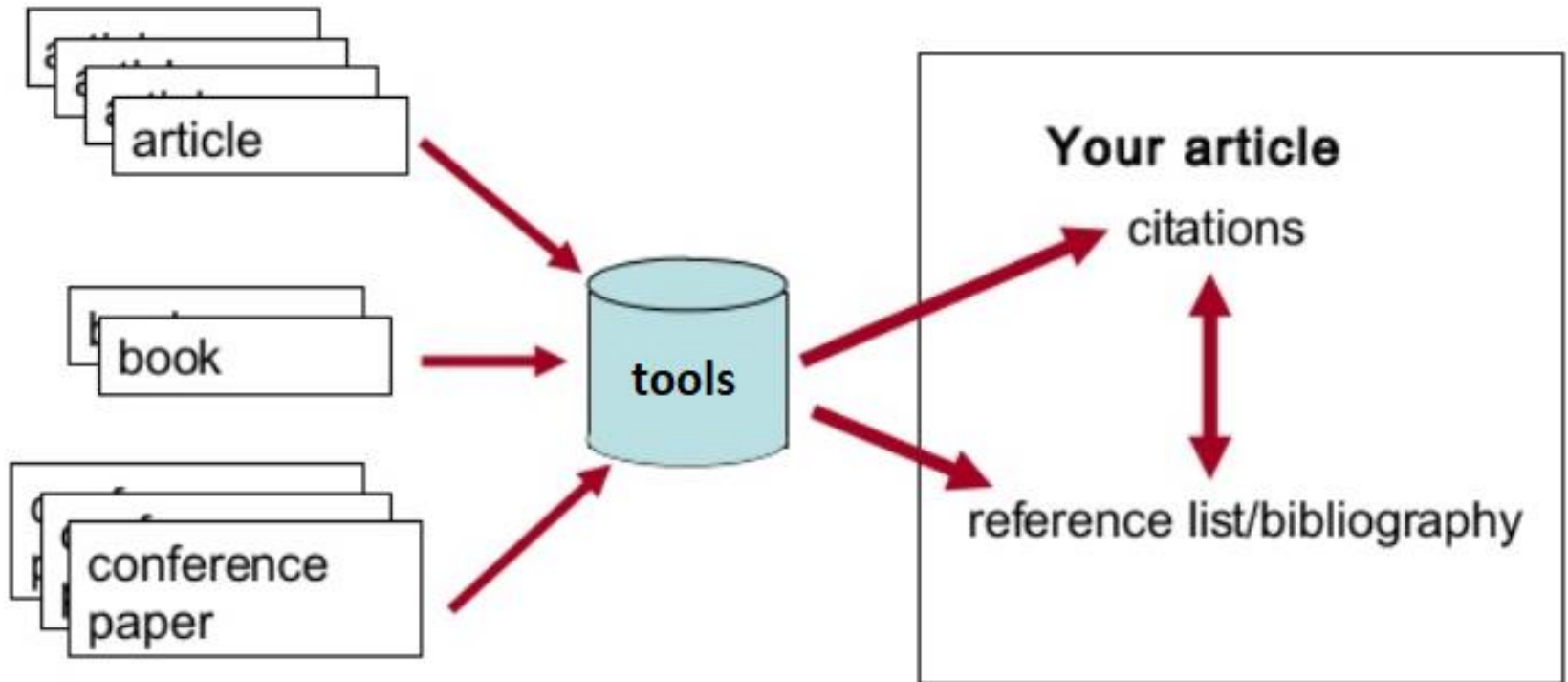
- Open a text editor
- Add a reference
- Write a paragraph
- Add a citation to the reference in the paragraph

Problem statement

Your topic:



Using a reference management tool



Reference Management tools

- Tools that help scholars to create and manage a list of relevant publications
- Transform citations according different formats
- Many tools provide ways to download references into reference management tools

Software options

Free

zotero

 MENDELEY

Subscription

Reference
Manager

Thomson Reuters
EndNote®

 RefWorks

ProCite

zotero

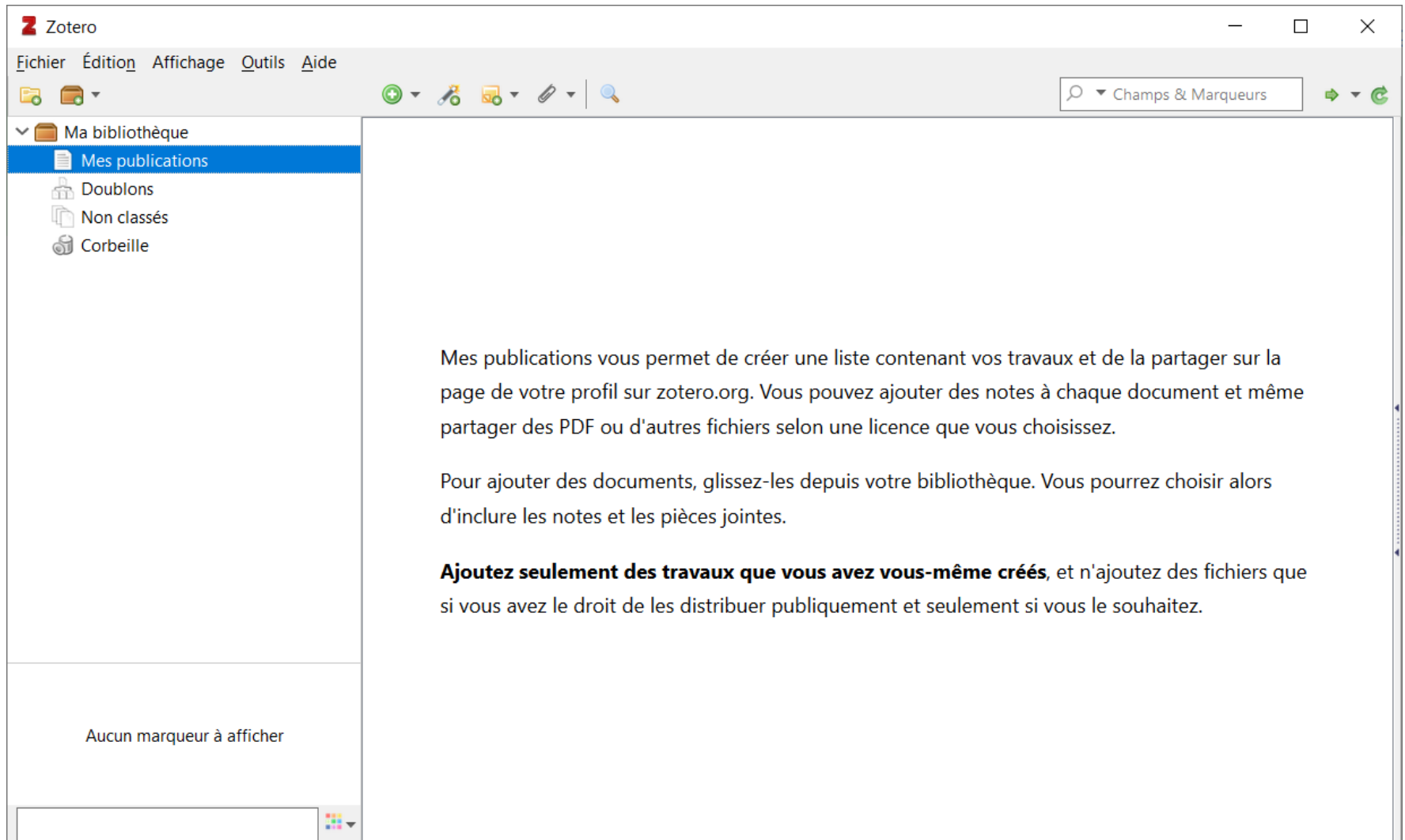
- Can be downloaded for free at:
<https://www.zotero.org/download/>
- Functionalities:
 - Recognize bibliographic information and extract metadata
 - Store related files such as PDF, images, etc
 - Create a bibliography in Word or OpenOffice
 - Publish shared libraries for working with other people

Exercise

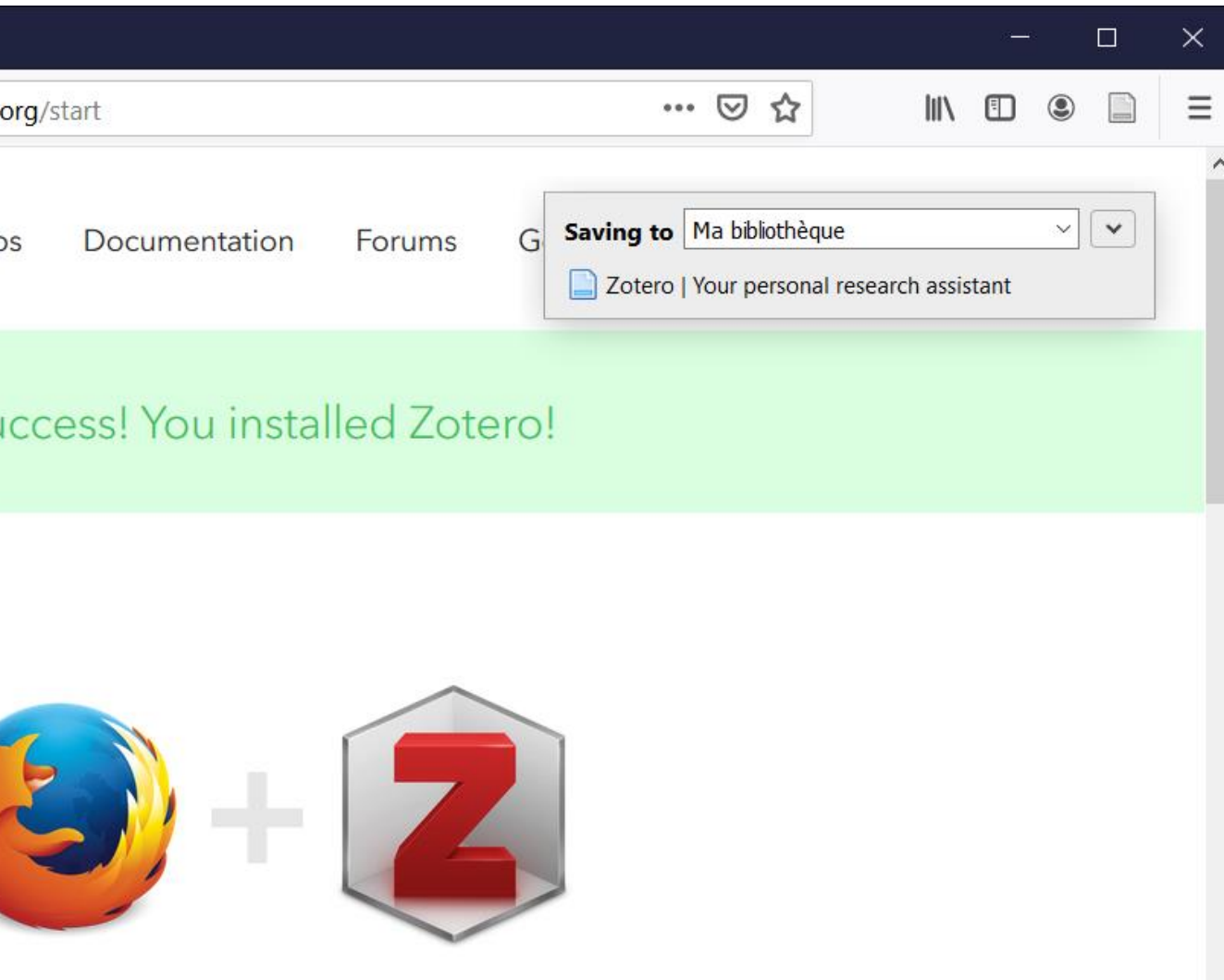
- Open the Firefox web browser
- Go to www.zotero.org
- Install Zotero/download
- Allow to install the zotero add-on for Firefox
- Restart Firefox

zotero

Desktop



zotero Collector



Collecting papers

- In the browser go to <https://pubmed.ncbi.nlm.nih.gov/>
- Search for covid19
- Select papers of interest
- Ask for saving the papers using zotero collector (over the browser)

covid - Search Results - PubMed

https://pubmed.ncbi.nlm.nih.gov/?term=covid

NIH National Library of Medicine National Center for Biotechnology Information

Log in Save to Zotero (PubMed)

PubMed.gov

covid

Advanced Create alert Create

Filters Timeline

53,343 results 2 items selected

☒ Cardiovascular disease and COVID-19.

☒ Stroke as a complication and prognostic factor of COVID-19.

☐ What dentists need to know about COVID-19.

☐ Coronavirus Disease 2019 (COVID-19): Role of Chest CT in Diagnosis and Management.

☐ Neurologic complications of COVID-19.

☐ COVID-19 (Novel Coronavirus 2019) - recent trends.

☐ COVID-19, hypertension and cardiovascular diseases: Should we change the therapy?

☐ Efficacy of chloroquine and hydroxychloroquine in the treatment of COVID-19.

☐ COVID-19 and Myocarditis: What Do We Know So Far?

☐ Thrombocytopenia is associated with severe coronavirus disease 2019 (COVID-19) infections: A meta-analysis.

Select All Deselect All Cancel OK

☒ Cardiovascular disease and COVID-19.

1 Bansal M.

Cite Diabetes Metab Syndr. 2020 May-Jun;14(3):247-250. doi: 10.1016/j.dsx.2020.03.013. Epub 2020 Mar 25. PMID: 32247212 Free PMC article. Review.

Share Adequate understanding of the interplay between COVID-19 and CV disease is required for optimum management of these patients. ...RESULTS: Respiratory illness is the dominant clinical manifestation of COVID-19; CV involvement occurs much less commonly. Acute cardiac ...

☒ Stroke as a complication and prognostic factor of COVID-19.

Feedback

zotero Highlight All Match Case Match Diacritics Whole Words

Resultat sur Zotero desktop

The screenshot displays the Zotero desktop application interface. On the left, a sidebar shows the library structure under 'Ma bibliothèque', including 'Mes publications', 'Doublons', 'Non classés', and 'Corbeille'. Below this, a list of tags is visible: 'Arrhythmia', 'Betacoronavirus', 'Cardiac troponins', and 'Cardiogenic shock'. The main pane shows a search result for the title 'Cardiovascular disease and COVID-19' by 'Bansal'. The right pane provides details about the document, including the type 'Article de revue', the title, the author 'Bansal, Manish', and a detailed summary. The summary is divided into sections: 'BACKGROUND AND AIMS', 'METHODS', 'RESULTS', and 'CONCLUSIONS'. The 'Publication' information at the bottom right indicates it is from 'Diabetes & Metabolic Syndrome', Volume 14, Numéro 3.

Zotero

Fichier Édition Affichage Outils Aide

Champs & Marqueurs

Ma bibliothèque

- Mes publications
- Doublons
- Non classés
- Corbeille

Arrhythmia

Betacoronavirus

Cardiac troponins

Cardiogenic shock

Titre	Créateur
Cardiovascular disease and COVID-19	Bansal
Stroke as a complication and prognostic fact...	Trejo-Gabriel-Galán
Zotero Your personal research assistant	
Zotero Your personal research assistant	
Zotero Your personal research assistant	

Info Notes Marqueurs Connexe

Type de document Article de revue

Titre Cardiovascular disease and COVID-19

Auteur Bansal, Manish

Résumé

BACKGROUND AND AIMS: Many patients with coronavirus disease 2019 (COVID-19) have underlying cardiovascular (CV) disease or develop acute cardiac injury during the course of the illness. Adequate understanding of the interplay between COVID-19 and CV disease is required for optimum management of these patients.

METHODS: A literature search was done using PubMed and Google search engines to prepare a narrative review on this topic.

RESULTS: Respiratory illness is the dominant clinical manifestation of COVID-19; CV involvement occurs much less commonly. Acute cardiac injury, defined as significant elevation of cardiac troponins, is the most commonly reported cardiac abnormality in COVID-19. It occurs in approximately 8-12% of all patients. Direct myocardial injury due to viral involvement of cardiomyocytes and the effect of systemic inflammation appear to be the most common mechanisms responsible for cardiac injury. The information about other CV manifestations in COVID-19 is very limited at present. Nonetheless, it has been consistently shown that the presence of pre-existing CV disease and/or development of acute cardiac injury are associated with significantly worse outcome in these patients.

CONCLUSIONS: Most of the current reports on COVID-19 have only briefly described CV manifestations in these patients. Given the enormous burden posed by this illness and the significant adverse prognostic impact of cardiac involvement, further research is required to understand the incidence, mechanisms, clinical presentation and outcomes of various CV manifestations in COVID-19 patients.

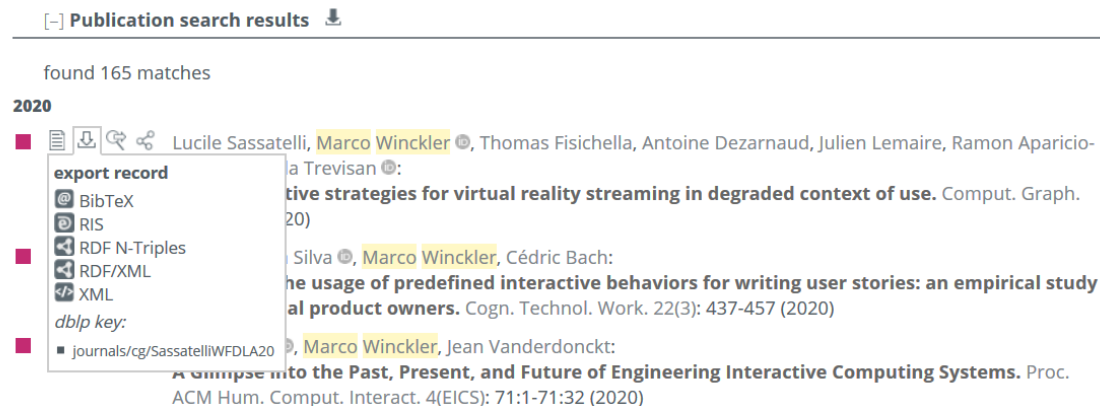
Publication Diabetes & Metabolic Syndrome

Volume 14

Numéro 3

Import from clipboard

- Look for reference in supported formats, ex. BibTex



- Copie le BibText
- Sur Zotero desktop: select import from clipboard

BibTeX format (example)

```
@article{DBLP:journals/cg/SassatelliWFDLA20,  
  author    = {Lucile Sassatelli and  
               Marco Winckler and  
               Thomas Fisichella and  
               Antoine Dezarnaud and  
               Julien Lemaire and  
               Ramon Aparicio{-}Pardo and  
               Daniela Trevisan},  
  title     = {New interactive strategies for virtual reality streaming in degraded  
               context of use},  
  journal   = {Comput. Graph.},  
  volume    = {86},  
  pages     = {27--41},  
  year      = {2020},  
  url       = {https://doi.org/10.1016/j.cag.2019.10.005},  
  doi       = {10.1016/j.cag.2019.10.005},  
  timestamp = {Thu, 19 Mar 2020 10:23:45 +0100},  
  biburl    = {https://dblp.org/rec/journals/cg/SassatelliWFDLA20.bib},  
  bibsource = {dblp computer science bibliography, https://dblp.org}  
}
```

Complete reference: ex. find PDF

The screenshot displays the Zotero application window. On the left, the 'My Library' pane shows a list of items, with 'New interactive strategies for virtual reality st...' by Sassatelli et al. selected. A context menu is open over this item, offering actions such as 'View PDF', 'View Online', 'Show File', 'Add Note', 'Add Attachment', 'Duplicate Item', 'Move Item to Trash...', 'Export Item...', 'Create Bibliography from Item...', and 'Generate Report from Item...'. The 'View Online' option is highlighted, and a tooltip 'Go to this item online' is visible. The main pane on the right shows the 'Info' tab for the selected item, displaying metadata including Title, Author (Sassatelli, Lucile), Publication (Comput. Graph.), Volume (86), Issue, Pages (27-41), Date (2020), Series, Series Title, Series Text, Journal Abbr, Language, DOI (10.1016/j.cag.2019.10.005), ISSN, Short Title, URL (https://doi.org/10.1016/j.cag.2019.10.005), Accessed, Archive, Loc. in Archive, and Library Catalog.

Zotero

File Edit View Tools Help

My Library

- My Publications
- Duplicate Items
- Unfiled Items
- Trash

Cardiovascular disease and COVID-19 Bansal

New interactive strategies for virtual reality st... Sassatelli et al.

- View PDF
- View Online
- Show File
- Add Note
- Add Attachment
- Duplicate Item
- Move Item to Trash...
- Export Item...
- Create Bibliography from Item...
- Generate Report from Item...

Go to this item online

Item Type Journal Article

Title New interactive strategies for virtual reality streaming in degraded context of use

Author Sassatelli, Lucile

Author Winckler, Marco

Author Fisichella, Thomas

Author Dezarnaud, Antoine

Author Lemaire, Julien

Author Aparicio-Pardo, Ramon

Author Trevisan, Daniela

Abstract

Publication Comput. Graph.

Volume 86

Issue

Pages 27-41

Date 2020

Series

Series Title

Series Text

Journal Abbr

Language

DOI 10.1016/j.cag.2019.10.005

ISSN

Short Title

URL https://doi.org/10.1016/j.cag.2019.10.005

Accessed

Archive

Loc. in Archive

Library Catalog

Creating bibliography with Zotero

- Select one or more references in Zotero desktop
- Click-right and select “Create Citation/Bibliography”
- Then select citation style (ex. Harvard, APA, etc)
- Chose “Save as”... RTF, HTML, etc
- Past into Word



All Fields & Tags



My Library

- My Publications
- Duplicate Items
- Unfiled Items
- Trash

Title



> Cardiovascular disease

New interactive strategies



Submitted Version

> Stroke as a complication

> Zotero | Your personal library

> Zotero | Your personal library

> Zotero | Your personal library

Create Citation/Bibliography



Citation Style:

Cite Them Right 10th edition - Harvard

Elsevier - Harvard (with titles)

IEEE

Modern Humanities Research Association 3rd edition (note with bibliograph...

Modern Language Association 8th edition

Nature

Vancouver

[Manage Styles...](#)

Language: English (US)

Output Mode:

☐ Citations☒ Bibliography

Output Method:

☒ Save as RTF☐ Save as HTML☐ Copy to Clipboard☐ Print

OK

Cancel

Arrhythmia

Betacoronavirus

Cardiac troponins

Advanced features

- Adding a reference manually
- Adding notes, tags to a paper
- Combining files
- Managing collections

Exercise

- Search relevant literature using the keywords
 - Visualization + music
 - Visualization + authors
 - Social networks visualization
- Search keywords in the following datasets
 - DBLP.org ACM DL IEEE Explorer Google scholars New York Times
- Create a bibliography dataset
 - Add info citation paper and category (ex; conf./workshop/journal, etc.)
- Create annotations for comparing the work
 - Start with a initial list of attributes
 - Select obvious attributes for the domain. Ex. List of topic
 - Define range of values for attributes
 - For each paper
 - Classify each paper according to attributes
 - Add keywords, personal notes, etc....
 - If new topics or attributes are cited, revise the grid and check papers again
- Share and export the bibliography dataset