

**NTK**

50°6'14.083"N, 14°23'26.365"E  
Národní technická knihovna  
National Library of Technology

# Introducing Your Students to the World of Information

30.11.2021

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# Agenda

- Information support in NTK
- Student essays support:
  - Main challenges for both students and teachers
  - Searching for resources
  - Evaluating resources
  - Citing and referencing
- Open discussion (save questions for later please!)



# Information Support in NTK

*What do we do and why*

## Areas of help:

- Searching and evaluating information
- Citing
- Academic writing

## For whom?

- High schools – teachers, students
- Undergraduate and graduate students
- PhD students, researchers
- ... or anybody else



# Information Support in NTK

*What do we do and why*

## Consultations

- For students, teachers and researches alike
- In person or online



[Schedule a Consultation](#)

## Workshops

- Searching and evaluating information
- Citing
- Tips for writing theses
- Other topics



[WS for University Students  
\(in Czech\)](#)

[WS for High Schools](#)

# Information Support in NTK

## What do we do and why

### Materials "Made in NTK"

- [Information resources and teaching materials for Chemistry teachers](#)
- [Information resources and teaching materials for Biology teachers](#)
- Model student essays (Czech): [Humanities](#) and [Science](#)
- [Tutorials](#)
- [Subjects guides](#)
- [Video tutorial on thesis writing for university students](#) (helpful for essay writing as well)

### 3 PRAKTICKÁ ČÁST

V praktické části jsem se zabývala výsadbou, hnojením a sběrem plodů. Popis těchto fází je seřazen chronologicky podle toho, jak následovaly.

#### 3.1 Výsadba a identifikace vzorků

Jelikož v průběhu mé práce mohlo dojít k poškození nebo uhynutí jednotlivých rostlin, rozhodla jsem se tomuto riziku předejít a testovat větší množství vzorků – **vždy 3 rostliny od každé skupiny**. Druhým důvodem bylo zvětšení skupiny pro omezení vlivu náhody při pozorování jejich výnosnosti.

V zahradnictví jsem zakoupila 9 stejně vzrostlých sazenic rajčete jedlého, odrůdy Tornádo F1 (viz obrázky 2 a 3). Všechny rostliny byly stejně vzrostlé a nejevily známky poškození.

V první fázi jsem rozdělila sazenice do 3 skupin po 3 rostlinách. Každou rostlinu jsem zasadila do zvláštní nádoby z toho důvodu, aby nedošlo ke kontaktu s jiným hnojivem. Pro všechny vzorky jsem použila stejný substrát a umístila je do závětrí s orientací na jižní světovou stranu.

Jednotlivé nádoby jsem označila štítkem s popisem, aby nedošlo k záměně vzorků. První skupina hnojena žižalim čajem je označena písmenem A, tzn. vzorky A1, A2 a A3. Druhá skupina hnojena výluhem ze slepičího trusu je označena písmenem B, tzn. vzorky B1, B2 a B3. Poslední skupina X, tzn. X1, X2 a X3 slouží jako kontrolní a není hnojena vůbec. Cílem kontrolní skupiny je stanovit standard, od kterého se bude odvíjet mé srovnání.



Obrázek 2 Tomato plant, zdroj: Gary K. Smith (2010)



Obrázek 3 Sazenice rajčete, zdroj: Pavlína Tassanyová (2018)

**Důvody pro testování více vzorků** uvádím proto, aby bylo jasné: a) že jsem nad tím přemýšlela, b) že chci zpřesnit měření a c) že chci předejít poškození vzorků – kdybych to neovysvětlila, mohl by si někdo myslet, že je mi to buď a v zahradnictví měli akorát akci 8+1 sazenice zdarma.

Nečekejte, že čtenář něco pochopí z náznaku – nepochopí.

**Detailní popis metody** umožňuje dalším osobám provést obdobný experiment a ověřit, jestli jsem si výsledky nevyucala z prstu. **Opakovatelnost** je jedna ze zásad, která by se měla dodržovat při sdílení výsledků výzkumů. Dodá práci na věrohodnosti.

Kdybych např. jednu skupinu rajčat dala do sklepa a zatáhla to, je jasné, že by měla horší výsledky... což je ve výzkumu chápáno jako manipulace experimentu – výsledky jsou pak nepravdivé a tudíž k ničemu. Navíc je kvůli mně mohl někdo přijít o hodně rajčat!

# Student Essays – Biggest Challenges



Results from the survey

- All areas of essay writing seem to be problematic for students
- Citing, academic writing and finding appropriate resources stand out
- [NTK research guide on academic writing](#)
- Get inspired by [IB Extended Essays](#)











Google Scholar

Articles About 94,000 results (0.06 sec)

Any time

Since 2021

Since 2020

Since 2017

Custom range...

---

Sort by relevance

Sort by date

---

Any type

include patents

include citations

Review articles

---

Create alert

**Fischer-Tropsch Synthesis**  
RB Anderson - 1984 - osti.gov  
Chapters cover: history and present status of Fischer-Tropsch synthesis; thermodynamics of the process; carbides, nitrides and carbonitrides of iron as catalysts in the Fischer-Tropsch ...  
☆ [99 Cite](#) [Cited by 1327](#) [Related articles](#) [»»](#)

[\[HTML\]](#) Short history and present trends of **Fischer-Tropsch synthesis**  
H Schulz - Applied Catalysis A: General, 1999 - Elsevier  
Due to the large volume of existing literature on **Fischer-Tropsch (FT) synthesis**, the diversity of the subject and the actually reoriented interest, it seemed indicated to write a historical ...  
☆ [99 Cite](#) [Cited by 1692](#) [Related articles](#) [All 5 versions](#) [Web of Science: 967](#) [»»](#)

A comprehensive mechanism for the **Fischer-Tropsch synthesis**  
CK Rofer-DePoorter - Chemical Reviews, 1981 - ACS Publications  
Hydrocarbons and oxygenated compounds can be produced catalytically from **synthesis gas** (CO+ H<sub>2</sub>) at atmospheric pressure or above and at a few hundred degrees Celsius. The ...  
☆ [99 Cite](#) [Cited by 709](#) [Related articles](#) [All 4 versions](#) [Web of Science: 526](#) [»»](#)

Kinetics and selectivity of the **Fischer-Tropsch synthesis**: a literature review  
GP Van Der Laan, A Beenackers - Catalysis Reviews, 1999 - Taylor & Francis  
A critical review of the kinetics and selectivity of the **Fischer-Tropsch synthesis (FTS)** is given. The focus is on reaction mechanisms and kinetics of the water-gas shift and **Fischer** ...  
☆ [95 Cite](#) [Cited by 1296](#) [Related articles](#) [All 8 versions](#) [Web of Science: 887](#) [»»](#)

[\[PDF\]](#) tandfonline.com  
Full View

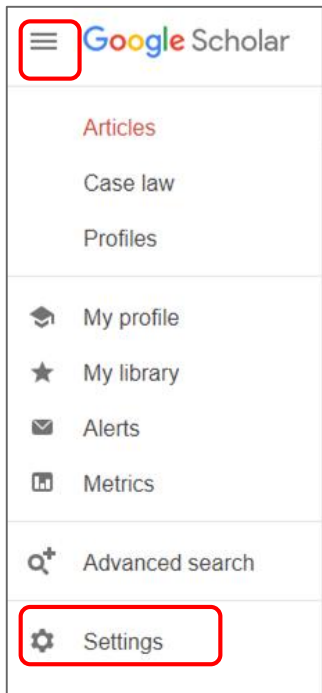
Get full-text (if available)

Full-text via the library subscription (library links)

Get citation

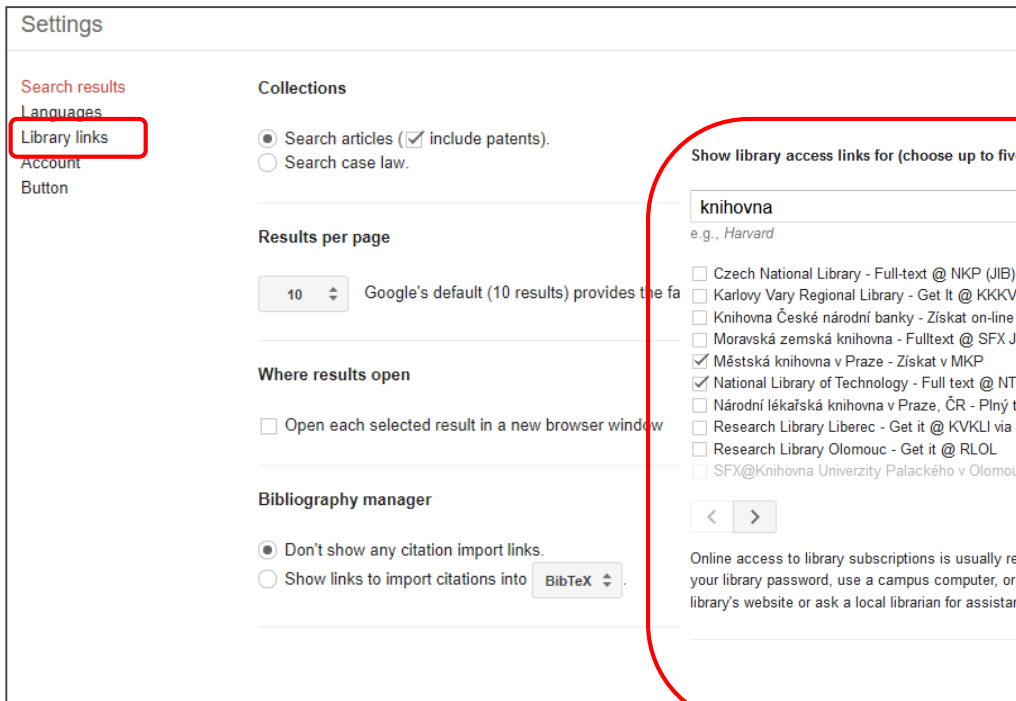


# Library Links Setting



Google Scholar

- Articles
- Case law
- Profiles
- My profile
- My library
- Alerts
- Metrics
- Advanced search
- Settings



### Settings

Search results

Languages

**Library links**

Account

Button

#### Collections

Search articles (  include patents ).

Search case law.

#### Results per page

10 Google's default (10 results) provides the fa

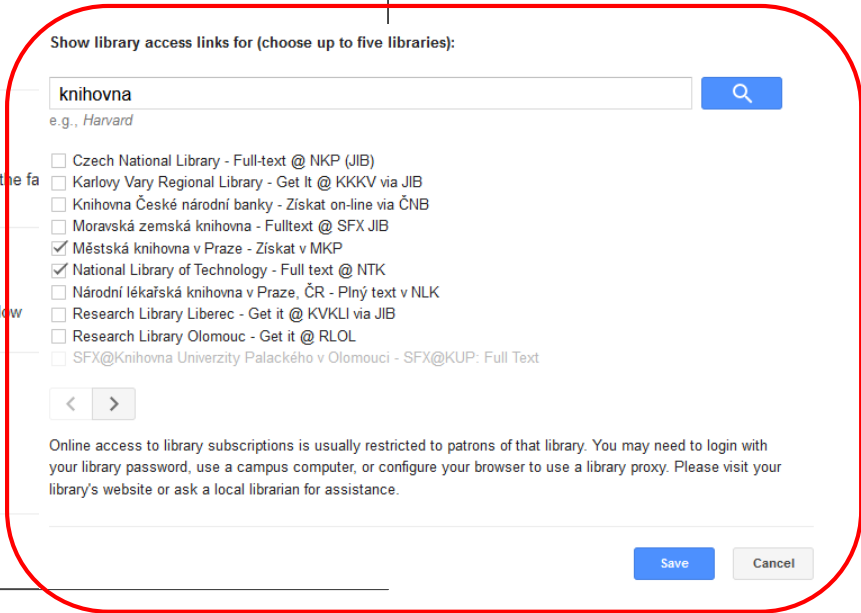
#### Where results open

Open each selected result in a new browser window

#### Bibliography manager

Don't show any citation import links.

Show links to import citations into



Show library access links for (choose up to five libraries):

e.g., Harvard

- Czech National Library - Full-text @ NKP (JIB)
- Karlovy Vary Regional Library - Get It @ KKKV via JIB
- Knihovna České národní banky - Získat on-line via ČNB
- Moravská zemská knihovna - Fulltext @ SFX JIB
- Městská knihovna v Praze - Získat v MKP
- National Library of Technology - Full text @ NTK
- Národní lékařská knihovna v Praze, ČR - Plný text v NLK
- Research Library Liberec - Get it @ KVCLI via JIB
- Research Library Olomouc - Get it @ RL0L
- SFX@Knihovna Univerzity Palackého v Olomouci - SFX@KUP: Full Text

< >

Online access to library subscriptions is usually restricted to patrons of that library. You may need to login with your library password, use a campus computer, or configure your browser to use a library proxy. Please visit your library's website or ask a local librarian for assistance.



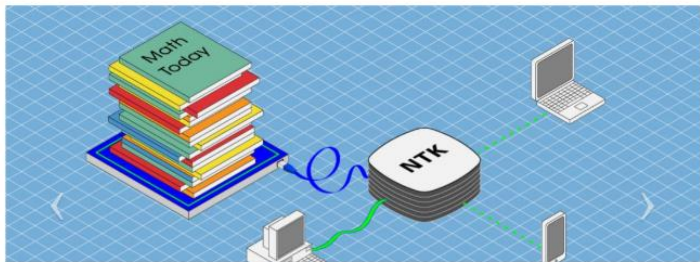
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## 24/7 Online Access to Scientific Resources

In 2018 the National Library of Technology provides access to more than 19,000 new electronic books. Read more...

3 / 5

[Supraphon Digital Archive in NTK](#)

NTK Hours: 8:00 - 02:00 [All hours](#)

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- Team Study Rooms
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- What's On

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- (+420) 232 002 535
- info@techlib.cz



## Quick Links

- Education & Research Support
- Subject Guides
- Tutorials
- Become a Patron
- How to... (tech guides)
- Places to Study
- Suggest a Purchase
- Interlibrary Loan Services
- Conference Services & Rentals
- High Schools Support

## Selected eResources

- Cambridge Journals
- EBSCOhost
- Emerald Premier
- Encyclopedia Britannica
- IEEE Xplore
- IOPscience
- Nature Complete
- Oxford English Dictionary
- Oxford Journals
- ProQuest Central
- ProQuest Ebook Central
- ScienceDirect
- Scopus

## News

### Digital Library Revamp

7.3. 72 – [Kramerius NTK](#) has a new interface. Here you can find lecture notes, historical technical publications and publications made available by EOD project.

### New Computers and Open Source

9. 7. – We have installed 150 new computers running Fedora distribution of Linux, in accordance with our vision of the widest possible use of open source solutions in the library.

Log in for off-campus access to full text

Discovery = search all databases from one field

List of all databases (eResources), eJournals & eBooks

Quick access to main databases

Interlibrary Loan Services

# Wikipedia.org

- Fact checking
- Keywords
- Terminology translation
- English version reliable, easy to understand and detailed
- Not a reference source as such but provides links to original references
- Internal content assessment

## Wikipedia: The Most Reliable Source on the Internet?

### Wikipedia is a trustworthy source



The screenshot shows the Wikipedia article for "Artificial intelligence". The page includes a navigation bar at the top with options like "Article", "Talk", "Read", "Edit", "View history", and a search box. The main content area starts with the title "Artificial intelligence" and a sub-header "From Wikipedia, the free encyclopedia". Below this, there is a red text warning: "\*AI\* redirects here. For other uses, see [AI \(disambiguation\)](#) and [Artificial intelligence \(disambiguation\)](#)." The article text begins with a definition: "Artificial intelligence (AI), sometimes called **machine intelligence**, is **intelligence** demonstrated by **machines**, in contrast to the **natural intelligence** displayed by humans and other animals. In computer science AI research is defined as the study of "intelligent agents": any device that perceives its environment and takes actions that maximize its chance of successfully achieving its goals.<sup>[1]</sup> Colloquially, the term "artificial intelligence" is applied when a machine mimics "cognitive" functions that humans associate with other human minds, such as "learning" and "problem solving".<sup>[2]</sup>" The text continues to discuss the scope of AI, its history, and its applications. On the right side of the page, there is a sidebar titled "Artificial intelligence" with a table of contents including sections like "Major goals", "Approaches", "Philosophy", and "History".

Artificial intelligence. In: *Wikipedia: the free encyclopedia* [online]. San Francisco (CA): Wikimedia Foundation, 2001– [cit. 2018-11-12]. Available: [https://en.wikipedia.org/wiki/Artificial\\_intelligence](https://en.wikipedia.org/wiki/Artificial_intelligence)



# Searching for Images

- [Google images](#) (Usage Rights filter)
- Flickr [Commons](#) and [images under various CC licenses](#)
- [Unsplash](#)
- About [CC licenses](#)

Results for coypu



Besançon France Cute Images & Pictures



Berlin Deutschland Eating



# How to Make Your Search More Efficient

- Keywords
- Operators
- Phrase searching in ""
- Truncation \*/?
- Filters
- Advanced search

Their use varies according the search engine









# Citing

Texas A&M University Writing Center: [Direct Quoting](#), [Paraphrasing](#), [Summarizing](#)

Do you have a particular **method/system** and **style** you require from your students?

- Author-date or footnotes?
- MLA, APA, Harvard, Chicago ... ?

**Make sure students have clear instructions and a manual of style available**

Try making citations less boring – [Cite Relay activity](#)



# Citation styles

- APA – handbook, brief guide
- Chicago
- ČSN ISO 690
- IEEE
- MLA – handbook, quick guide
- Harvard – not really codified, several variations

## NTK citation manual

Most search engines provide generation of reference items



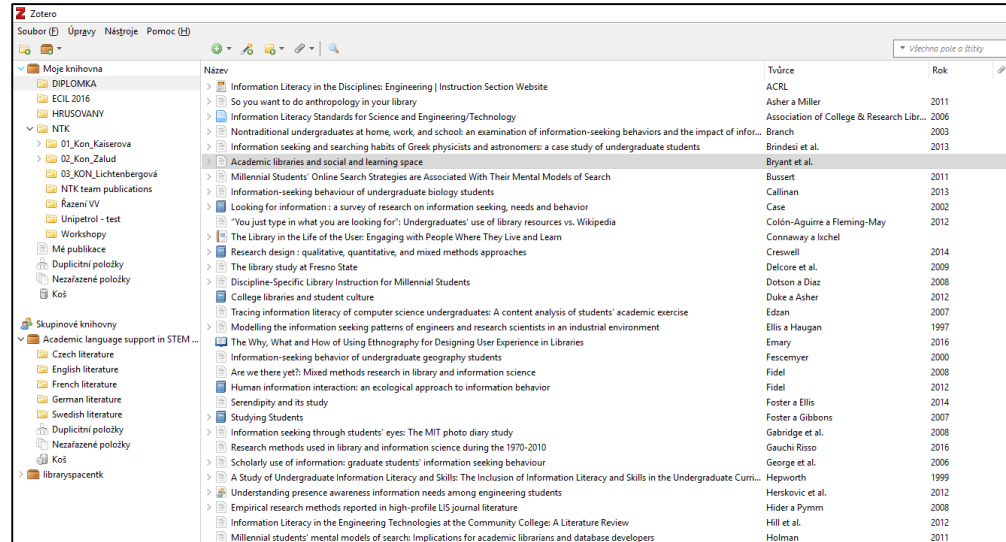
# Citation Management Tools

- Citation **generators** (citethisforme.com, citace.com) vs. citation **management tools** ([CitacePro](#), [Zotero](#), [Mendeley](#)...)
- Citation **management tools** helpful not only for generating citations and reference lists but also to **organize your research** and keep it systematic



# Citation Management Tools

- Download and manage citations
- Create your personal library
- Generation of reference list
- Tags and notes
- Collaboration



**Use them, but don't trust them absolutely!**

Zotero (NTK tutorial in Czech)

CitacePRO (NTK tutorial in Czech)

Log in as a guest

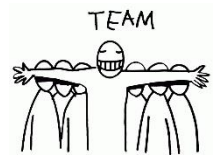




# Discussion

## Opening questions:

- Student essays at your school – subjects, requirements
- What is your role?
  - Do you take part in the choice of topic?
  - Number and form of consultations and their content
- Best practices of resource evaluation
- Best practices of academic writing
  - How to keep writing to a specific word count?



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[Schedule consultation](#)

