A test-paper

This shall be a subtitle

~Gw

07.12.2022

The host organism of an unknown protein sequence was determined using proteinBLAST on the nr-database. The corresponding protein was visualised via different methods (hydropathicity/coiled coils/general secondary structure) and compared to the corresponding results obtained for repeating these methods on the two highest scoring sequences resulting from a proteinBLAST on the PDB-database. The sequence was checked for existing PFAM-domains, of which two could be found and identified. Using proteinBLAST on the nr-database, three similar sequences were chosen based on their Identity-percentage. Along with the original sequence, a Multiple-Sequence-Alignment was performed and a phylogenetic tree was constructed based on that alignment. Said tree is evaluated regarding the different species and their expected, and calculated relationship to each other. The original protein was found to encode the *C-Jun-amino-terminal kinase-interacting protein 1* in humans.

# 1 1st - Text Formatting

Normal Text  
*Italicised text*  
**Bolded text**  
***Italicised and bolded text***  
~~Strike-through text~~  
***~~Strike-through bolded Italicised~~***  
A raw weblink <https://en.wikipedia.org/wiki/Obsidian_(software)>  
A named weblink [Obsidian (software) - Wikipedia](https://en.wikipedia.org/wiki/Obsidian_(software))  
A note-link Converting Notes with R-Pandoc  
This is a claim I am going to cite from the rather infamous Blast-algorithm from [1], currently with apa-style[2, 3].

This is a tag: tag and this should be a nested tag: othertag/Nestedtag? There is also people/Internship/SuperVisingProfessor  
This sentence has a footnote![[1]](#footnote-1)  
This text hassuperscript andsubscript text, neat.  
These are unicode symbols:

A α  
B β  
Γ γ  
∆ δ  
E ε  
Z ζ  
H η  
Θ θ  
Ι ι  
Κ κ  
Λ λ  
M μ  
N ν  
Ξ ξ  
Π π  
Ρ ρ  
Σ σ  
T 𝜏  
Υ υ  
Φ φ  
Χ χ  
Ψ ψ  
Ω ω

Jesus christ. That took a while…

## 1.1 2nd - Embeds

This note is made using the clean-embeds css-class from the Shimmering-Focus-theme. This influences embeds (duh…) by removing the visualised title. This may not have any influence on the output.

An Image  
An Image with width 200px|200

An Image which links to a section [1st - Text Formatting](#st---text-formatting) |400

A note (which also contains a footnote, by the way)

# 2 How to add a citation style for Zotero and Obsidian Pandoc

This is a small guide on how to set up a new citation style for the obsidian pandoc plugin and the zotero integration within Obsidian.  
It requires that the following things are installed:

1. Zotero (program)[[2]](#footnote-2) - your citation manager. It will be used for annotating papers and handling its metadata
2. “Zotero Integration” plugin for obsidian - the integration for bridging data for a paper out of zotero and into obsidian. **Requires that Zotero is launched beforre being used!**
3. “Obsidian Pandoc” plugin for obsidian - not strictly necessary for citing, but required to get your markdown files into any other file format.

## 2.1 1. Zotero

1. Go to Edit → Preferences → Cite → “Get additional styles”
2. search for style
3. choose the style. It should now be shown in the Preferences under “Cite”:

## 2.2 2. Obsidian - Zotero Integration

1. Add a *Citation Format* under the “Zotero Integration”-plugin as shown in the image: Note that the csl must be added in Zotero (cf. Steps Zotero) before you can perform this step.
2. Make sure to name it sensibly.

## 2.3 3. Obsidian - Pandoc Plugin

1. Download the “citation style language”-file (.csl) for the citation style you just added to zotero from the [Zotero Style Repository](https://www.zotero.org/styles).
2. Insert the .csl-file into %vault%/003 PandocAssets/Citationstyles. This is not necessary for
3. in the plugin settings, add the following under “Extra Pandoc Arguments” (each command separated by a newline!):

--citeproc  
 -csl

Note that the -csl-command is not populated. This is on purpose because as of right now, it is still buggy (as of 30.12.2022, Obsidian Pandoc v. 0.4.1)

### 2.3.1 3.1. Obisidian - Note frontmatter: required fields for pandoc

If you want to use pandoc to convert to (f.e.) .docx, you must provide the absolute path to a citation style language file (.csl), as well as the absolute path to your bibliography file.  
For doing so, you must provide the frontmatter fields csl and bibliography respectively:   
(Technically you could use the plugin’s global setting “Extra Pandoc Arguments”, but paths containing spaces are notoriously buggy and annoying to use in that field. Thus, it is easier to just provide it on a note-by-note case, which also lends you more flexibility on which csl to employ.)

# 3 Further reading

* Citing in Obsidian

A chapter of a note

An audio embed

A video-Embed

### 3.0.1 3rd - Lists

* Bullet Point
  + Indented Bullet Point
  + Another
* and back out Level 1
  + back in again Level 2
    - back in again Level 3
      * back in again Level 4
        + back in again Level 5

back in again Level 6

back in again Level 7

back in again Level 8

back in again Level 9

back in again Level 10

* + yea it gets repetitive
  + quite quickly

1. Numbered List
   1. sublist
   2. sublist2
2. main point two
3. Level 1
   1. sub 3.1 Level 2
      1. sub 3.1.2 Level 3
         1. sub 3.1.2.1 Level 4
            1. sub 3.1.2.1.1 Level 5

sub 3.1.2.1.1.1 Level 6

sub 3.1.2.1.1.1.1 Level 7

sub 3.1.2.1.1.1.1.1 Level 8

sub 3.1.2.1.1.1.1.1.1 Level 9

sub 3.1.2.1.1.1.1.1.1.1 Level 10

sub 3.1.2.1.1.1.1.2 Level 8

* + 1. sub 3.1.1

#### 3.0.1.1 4th - Codeblocks, LaTeX, and the likes

Codeblock with language

Food = c("s", "b", "b", "b", "p", "t", "s", "t", "p", "s", "s", "t", "t", "t", "p")  
Hem = c(36, 40,38,55,45,52,50,48,43,43,51,44,43,41,46)  
Math = c(2,1,2,1,4,3,3,2,3,2,2,3,3,2,4)  
  
length(Food)  
length(Hem)  
length(Math)  
# Question 1.1. Which level of measurement do the three data sets have?  
# Answer: Food is nominal. Hem is ratio. Math is ordinal, maybe interval.  
  
# Question 1.2. Identify Mean, Median and Mode where appropriate.  
# Answer:  
  
mean(Food) # Note error message  
median(Food)  
mode(Food) # What is the output?

Codeblock without language

MouseGetPox, mx,my

Latex Block

This is inline latex:

Admonition

title: Admonition Callout  
This is an admonition

Dataview-Table. Won’t be supported anyways, but hey.

list  
from #paper

##### 3.0.1.1.1 5th - A variety of things

This is a canvas (which will most definitely not work, but hey.)

###### 3.0.1.1.1.1 6th - Tables

| Row 1 | Row 2 | Row 3 |
| --- | --- | --- |
| 1.1 | This is a table entry | and shit |
| 2.1 | *yadda* **yadda** ~~yadda~~ | Plutonium[[3]](#footnote-3) |

Table 1: A table caption

I have legitimately no idea what to write here anymore.  
Finito? I suppose?!

# Literature

1. Altschul SF (1990) BLAST algorithm. Journal of Molecular Biology 215:403–410. doi: [10.1016/S0022-2836(05)80360-2](https://doi.org/10.1016/S0022-2836(05)80360-2)

2. Bernhofer M, Dallago C, Karl T, Satagopam V, Heinzinger M, Littmann M, Olenyi T, Qiu J, Schütze K, Yachdav G, Ashkenazy H, Ben-Tal N, Bromberg Y, Goldberg T, Kajan L, O’Donoghue S, Sander C, Schafferhans A, Schlessinger A, Vriend G, Mirdita M, Gawron P, Gu W, Jarosz Y, Trefois C, Steinegger M, Schneider R, Rost B (2021) PredictProtein - predicting protein structure and function for 29 years. bioRxiv : the preprint server for biology. doi: [10.1101/2021.02.23.432527](https://doi.org/10.1101/2021.02.23.432527)

3. Mistry J, Chuguransky S, Williams L, Qureshi M, Salazar G, Sonnhammer ELL, Tosatto SCE, Paladin L, Raj S, Richardson LJ, Finn RD, Bateman A (2020) Pfam: The protein families database in 2021. Nucleic Acids Research 49:D412–D419. doi: [10.1093/nar/gkaa913](https://doi.org/10.1093/nar/gkaa913)

1. Hello, I am ye old footnote. idk. *markup works* in **here**, ~~or at least it should~~! [↑](#footnote-ref-1)
2. Hello, I am ye old footnote. idk. *markup works* in **here**, ~~or at least it should~~! [↑](#footnote-ref-2)
3. A footnote in a table [↑](#footnote-ref-3)