**Homeworks 1-4 for obtaining credits for B130P16, 2022
(Practical basics of scientific work)**

**1)** **Perform a representative bibliographic search using WOS, SCOPUS or Pubmed database.** Your topic could cover the scope of your bachelor thesis or anything else. When searching, use appropriate keywords and their combinations.

Transform the resulting collection of papers (please not more than 30) into your personal database (Mendeley, Zotero, Endnote, etc.). Using this database and text editor, generate the reference list by using either „Insert Citation” command in Word or by exporting all references from the citation software and pasting them into Word. Depending on your field of interest, choose the appropriate style of references. i.e. select it from the list of journal citation styles. You can include the title of the intended bachelor thesis, if it exists, of course. The example of the report is available for download on the web page.

**2)** **Find the most recent ISI impact factor (IF) of scientific journals listed below and arrange them in decreasing order using this parameter:**

Nature Plants, Frontiers in Neuroscience, Planta, Development, Science, Journal of Applied Biomedicine, eLife

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| **Journal** | **IF** |
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**3)** **Search for the most cited original article from those published in the year range 2016-2021 in Nature, Cell and Photosynthetica.** Which of these articles has the highest number of citations? Specify the number of citations for each of these three articles.

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| **Journal** | **Article (Title, First Author, Volume, Pages, Year)** | **Number of citations** |
| **Nature** |  |  |
| **Cell** |  |  |
| **Photosynthetica** |  |  |

**4)** **Search for the total number of papers of authors listed below from the year 1980 until today and specify the number of their citations according to WOS or SCOPUS databases.** Remove auto-citations, find h index, and arrange authors in decreasing order according to their total number of citations with removed auto-citations.

Charles M. Rice Rockefeller University, Lab Virol & Infect Dis, New York, NY, USA

Jan Černý Department of Cell Biology, Faculty of Science, Charles University, CZ

Jiří Friml IST Austria, Austria

Gregg L. Semenza The John Hopkins School of Medicine, USA

Eric Betzig Howard Hughes Med Inst, Janelia Farm Res Campus, Ashburn, USA

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| **Author** | **Total number of papers** | **Citations according to WOS or SCOPUS** (choose one of these two) |
| **With autocitations** | **Without autocitations** | **h index** |
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Send your homework to petrasek@ueb.cas.cz.