

# THESIS

Prepared by:

**GÁBOR GÁBOR**

engineering candidate

Mosonmagyaróvár

20..



**SZÉCHENYI  
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UNIVERSITY OF GYŐR  
ALBERT KÁZMÉR  
MOSONMAGYARÓVÁRI KAR

SZÉCHENYI ISTVÁN UNIVERSITY  
ALBERT KÁZMÉR MOSONMAGYARÓVÁR FACULTY  
..... CURRICULUM

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**EFFECT OF SYNTHETIC OESTROGENS IN RUMINANTS**  
**for the blood Ca CONTENTS**

Prepared by:

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Food Engineer BSc Degree

Mosonmagyaróvár

## STATEMENT BY THE ADMINISTRATORS

Signed ..... (Neptune code: .....)

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I also declare that **I did not mislead** the consultant or the instructor who assigned the assignment in the preparation of the thesis

I declare that I acknowledge the professional, scientific content of the thesis, all statements, statements, statements, opinions, conclusions contained therein as my own, that they accurately reflect my professional position as the author of the thesis, and that I take responsibility for the text as a whole and for all its elements.

By signing this thesis, I acknowledge that if it can be proven that **I did not write** the thesis **myself**, or if there is evidence of copyright infringement in connection with the thesis, Széchenyi István University **may refuse to accept the thesis and may initiate disciplinary proceedings against me**.

The refusal to admit the thesis and the initiation of disciplinary proceedings do not affect other legal consequences (civil, criminal, misdemeanour) for copyright infringement.

Mosonmagyaróvár, 20. ....

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student signature

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<sup>1</sup>**Section 34 of Act LXXVI of 1999** (1) Anyone may quote an excerpt of the work - to the extent justified by the nature and purpose of the receiving work and in accordance with the original - by naming the source and the author indicated therein.

**§ 36** (1) Excerpts of lectures and other similar works held in public, as well as political speeches may be freely used for the purpose of information, to the extent justified by the purpose. In the case of such use, the source, including the name of the author, shall be indicated unless this proves impossible.

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# 1. INTRODUCTION

About 1-3 pages

Outlines the main questions and/or hypotheses of the author - in the case of creative/writing work, the objectives.

Explains the topic of the thesis, what the thesis will be about, the importance and usefulness of the topic, the characteristics of the sector related to the chosen topic, its global or domestic economic importance, but only highlighting what is important for the topic.

It explains the reasons for the choice of the topic, reveals the subjective attitude of the author to the topic: "I chose this topic because..." and summarises the purpose of the essay

## 1.1. Objective

Describe the objectives of your own investigations. Only a general objective should be given, no details are required

Suggestion: write the introduction as the last chapter of the essay chapters.

## 2. LITERATURE REVIEW

About 10-17 pages.

The aim: to deepen the knowledge of your own subject and to demonstrate your competence in the chosen subject.

The chapter includes a critical, comparative and evaluative presentation of the literature used, a description of the results of previous studies related to the chosen topic, and a description of the results of similar analyses.

Method of bibliographic research: searching for sources related to the topic Use of LIBRARY, DATABASES (it is advisable to ask the reference librarians for help in using them!)

Attention! Technical writing  $\neq$  scissoring. The thesis must refer to "quality", scientifically sound literature (avoid using wikis, blogs, semi-scientific or pseudo-scientific articles)!

The candidate should put the statements of others in his/her own words, but always with cross-references! The methods and forms of intertextual referencing are given in section 2.1.1. All references in the thesis must be given in the Bibliography section with full author and source citation!!!

Verbatim quotations should be avoided wherever possible! If it is still necessary (e.g. definition, etc.), the verbatim quotation should be put in quotation marks and the author/source should be indicated! **Attention! If the essay draws extensively from a foreign work in a literal or approximate form without indicating the original source in the appropriate passage and in the bibliography, this is considered plagiarism!!!**

A thesis that is proven to contain plagiarism cannot be accepted, cannot be submitted for evaluation and may be subject to disciplinary proceedings.

The Literature Review chapter should be divided into subchapters, with logically related sections placed in a subchapter. The numbering of the subsections should not be complicated, preferably no more than three/four levels of detail. All headings should appear in the table of contents. Subheadings of the same level should be formatted in the same way.

## 2.1. Subheading

### 2.1.1. Subheading

How to refer to source works:

- By reference to the author's name: the author's name in capital letters followed by the year of publication in brackets. E.g. TANGL (1956) found a significant reduction in Ca in the serum of steers and cows.
- In the case of two authors, the name of the author is indicated by a reference to the author: the names of the two authors are linked by "and" and the year of publication is indicated in brackets. E.g. VINCZE and TENK (2007) argue that the level of support that is common in the EU could create the income-generating capacity of the sector.
- In case of multiple authors /three or more/ with reference to the name of the author: after the name of the first author "et al." followed by the year of publication in brackets. E.g.: In the experiments of TÓTH et al. (2007), feeding whole-grain wheat treated with sodium hydroxide significantly increased milk production in cows.
- (The "et al." can be replaced by "et al." citation form.)
- With reference to the established fact: description of the fact, author's name in brackets, comma, year of publication. E.g.: Ca levels in the serum of oxen and cows were significantly reduced (TANGL, 1956).
- In the case of multiple authors, with reference to the established fact: description of the fact, followed in brackets by the names of the two authors, linked by "and" or the name of the first author, "et al.", followed by the year after a comma. E.g.: A subsidy of the order of magnitude that is common in the EU could increase the sector's ability to generate income (VINCZE and TENK, 2007). or Feeding whole-grain wheat treated with sodium hydroxide significantly increased milk production of cows (TÓTH et al., 2007).
- In the case of several publications stating the same fact: a description of the fact, followed by a reference to the authors of the publications cited and the years of publication in brackets, with the different references separated by semicolons. E.g.:

Several authors found that Ca in the serum of cows was reduced by oestrogen treatment (BRÜGEMANN et al., 1953; TANGL, 1956).

- Reference to several works by the same author published in the same year: name of the author, with the year numbers "a", "b", "c", etc. E.g.: TANGL (1956 a ,1956 b) found a significant decrease in Ca in cow serum. Similar results were obtained earlier by other researchers (BRÜGEMANN et al.,1953 a , 1953 b).
- Reference to a database or document available on the Internet: URL and the number of the Internet reference within the article in the top index: 1,2,3,4,.....stb.

## **3. MATERIAL AND METHOD**

The title of the chapter/subchapter is determined by the nature of the topic.

The longest section in terms of the proportion of own studies! This section contains a description of the student's own investigations, observations and measurements (data collection), based on the source material; an evaluation of the results and data obtained, and the conclusions and recommendations drawn from them.

In short, this sub-chapter answers the What? When? Where? How? questions. It describes the methods used by the student, the subject of the research, the sample explored, the tools used. It outlines the limits of validity of its findings.

Include a presentation of the concepts, theories and analytical models related to the topic of the thesis, a more concrete and detailed explanation of the hypothesis, and possibly a justification - derived from the theoretical (literature) background! The description of the methodology used to collect the data and their evaluation, the statistical tests, should also be included in this chapter.

Description of the materials and treatments used (arrangement, number of replicates, sampling method, etc.). For economics topics, a description of the characteristics of the economy or sector under study, its labour force and assets, production structure and standards. A precise description of the methods of investigation, with reference to the literature in the case of known methods.

### **3.1. The nodes**

### **3.2. Tools**

### **3.3. Methods**

### **3.4. Evaluation of test data**

#### ***3.4.1. Statistical and representational methods used***

## 4. TEST RESULTS AND THEIR EVALUATION

Systematic, systematic analysis - a factual chapter of the essay, presented in a factual style, containing objective, factual findings supported by data, which includes findings, supported by argumentation and illustrated by examples.

The results should be presented in a table or diagram. All tables and diagrams should be numbered and titled, and numbered consecutively (the numbering need not be repeated from chapter to chapter). The requirements for figures and tables are set out in Chapter 4.2.

The results presented in tables and figures are also briefly evaluated and analysed in text. It is important that the student compares his/her own results with those of others, preferably with those presented in the literature chapter (discussion, debate).

### **Subsection 4.1.**

#### ***4.1.1. Subsection***

The listings with listmarks look like this:

- First;
- Second;
- Third bullet point.

Numbered lists can be added as follows:

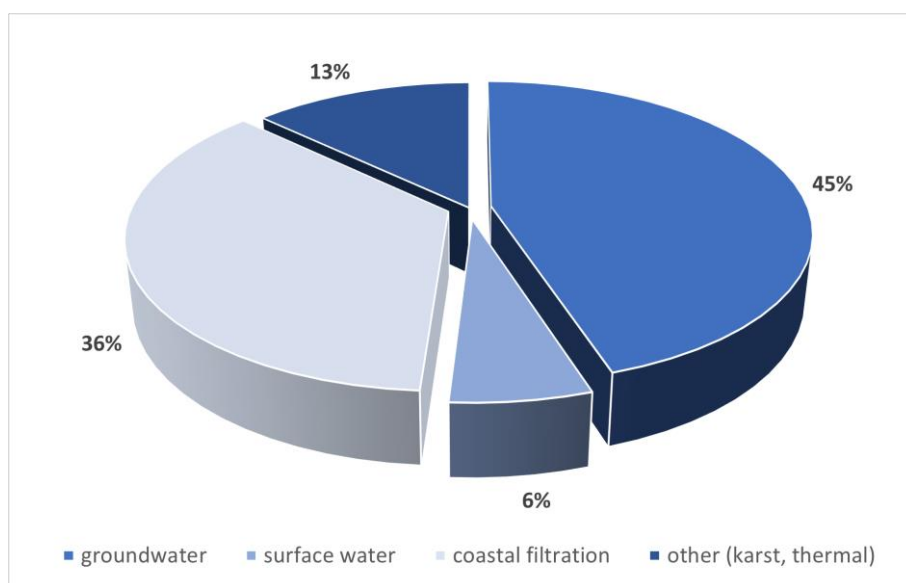
1. First item;
2. Second item;
3. Third item.

The text continues here.

## 4.2. Tables, charts and schemes

All figures and tables should be cited in the main text as Figure 1, Table 1, etc. Figures and tables should be placed in the main text after the first citation and close to it. The figure and table and their titles should be on the same page. If necessary, due to the size of the table, the page may be rotated (before and after "Arrange - Break - Next page").

In the case of figures, the use of axis headings and symbol explanations is mandatory. Images may be placed in the essay with a picture or figure label. The source of the image must be given in all cases (also in the case of self-recording).



\*Figures may have a footer/explanatory text.

### 1. **Figure 1:** This is a figure.

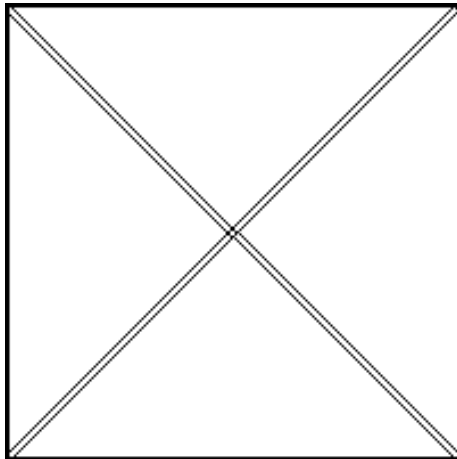
Figures should also aim for a uniform appearance (size, use of colours).

### 1. **Table 1:** This is a table.

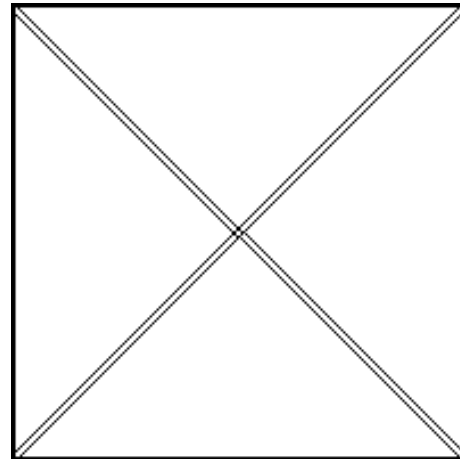
1. Address	2. Address	3. Address
1. Registration	data	data
2. Registration	data	data <sup>1</sup>

<sup>1</sup>Tables may have a footer.

The text continues here (Figure 2 and Table 2).



(a)



(b)

2. **Figure 1:** This is a figure. If there are several parts to the figure, they should be listed as follows: a) a description of the contents of the first figure; b) a description of the contents of the second figure.

Figures should be placed near their first citation in the main text.

**Table 2:** This is a table.

Title 1	Title 2	Title 3	Title 4
entry 1*	data	data	data
	data	data	data
	data	data	data
entry 2	data	data	data
	data	data	data
entry 3	data	data	data
	data	data	data
	data	data	data
entry 4	data	data	data
	data	data	data

\* Tables may have footers.

### 4.3. *Display of equations, formulas*

This is an example of equation 1:

$$a = 1, \tag{1}$$

the text following the equation need not be a new paragraph, it can continue as normal text.

This is an example of equation 2:

$$a = b + c + d + e + f + g + h + i + j + k + l + m + n + o + p + q + r + s + t + u + v + w + x + y + z \quad (2)$$

the text following the equation need not be a new paragraph, it can continue as normal text.

## **5. CONCLUSIONS AND PROPOSALS**

Draw conclusions from the results of your own investigation that feed back into the theoretical part of the paper/technical literature. In this section, the student is also encouraged to formulate his/her own opinion and suggest a way forward and possible direction for further work.

## **ACKNOWLEDGEMENTS**

The student thanks the persons and institutions who helped in the preparation of the thesis (e.g. the consultant and all those who helped in the preparation of the thesis, provided data, filled in the questionnaire, etc.).

Length: maximum 1 page

## 6. BIBLIOGRAPHY

Avoid citing university notes, as the information contained in these can be found in primary sources. Please cite theses, dissertations, doctoral theses, research reports, unpublished manuscripts only if the information is not available in other (primary) publications.

Where this document indicates the use of italics, it is a recommendation, i.e. italics are not mandatory.

In the bibliography - regardless of the method of citation - authors should be listed in strict alphabetical order. Internet references, standards and legislation should be listed separately.

For a uniform bibliography, it is recommended to use a reference manager/bibliography builder, e.g. Zotero (free), EndNote, Mybib.com.

1.

### 1. Book

Author(s) and/or editor(s) (or organisation/company if no author is given); title if no author or organisation is given) (year of publication/release): *title* (italics/italics recommended).

Place of publication (city): name of publisher.

Example:

#### **For one or more authors:**

- ✓ Gyurgyák, J. (2023): *The basics of scientific writing: a guide for those writing theses, dissertations and dissertations*. Osiris, Budapest.
- ✓ S. Kemény, L. Papp, A. Deák (1999). Budapest.
- ✓ Marselek S. (2006). FVM Institute of Training and Extension Budapest.
- ✓ McNitt, J. I., Lukefahr, S. D., Cheeke, P. R., Patton, N. M. (2013): *Rabbit Production*. 9th Edition. Boston: CABI.

#### **With the author:**

- ✓ *Hungarian Academy of Sciences* (2015). Hungarian Rules of grammar. Akadémiai Kiadó.
- ✓ KSH (2009) *Hungarian Statistical Yearbook 2008*.

#### **For edited books:**

- ✓ Bárányné Szabadkai É. and Mihalik I. (eds.) (2002) *Economic spelling dictionary: a*

*collection of technical terms, expressions, idioms and abbreviations.* Budapest.

References to edited books should be avoided, always refer to a book chapter or textbook study annotated by an author!

## **2. Book chapter**

The citation should be given as given for the books, but care should be taken to include both the author of the chapter and the author/editor of the book. In contrast to the book, the scope information is always required here and always refers to the specific book chapter. Between the opening and closing page numbers, the from-to relationship should be indicated by a capital letter (Alt 0150). In the case of a book section, always italicise the title of the volume (host document) to which it refers.

Example:

- ✓ Nilsson, A. (2020): Landscape Observatory Västra Götaland. In: *17th International Scientific Days - Abstract Book*. 17th Scientific Conference XVII.
- ✓ Takács I. (2008). Nábrádi A. - Pupos T. - Takácsné György K. (eds.): Budapest: Szaktudás Kiadóház, pp. 126-141.

When a conference paper published in a book is cited, the description is the same as for book chapters.

## **3. Journal article, electronic journal article**

Author(s) (year of publication): title of the article. *Name/title of the journal* (), year (and page number) of the journal:page numbers of the pages containing the first and last pages of the article.

Example:

- ✓ Tóthi R. (2022): the effect of feeding on the reproductive biology of high milk yielding cows. 20.4.20.

When referring to several articles published by the same author or authors in the same year, the year of publication is followed by the corresponding alphabetical letters - 2006a, 2006b, as in the textual reference.

In the case of electronic journal articles, if they can be found, you must include the following data elements:

Author(s) (year of publication): title of the paper/article. Title of the journal (in italics), year and issue number of the journal, opening and closing page number of the article. If there are no legible page numbers, the publication identifier and the length of the article ('p') should be given. This is followed by the DOI identifier (if available) or the date of download and the source: URL.

Example:

- ✓ Zhang, B., Chamba, Y., Shang, P., Wang, Z., Ma, J., Wang, L., Zhang, H. (2017): Comparative transcriptomic and proteomic analyses provide insights into the keygenes involved in high-altitude adaptation in the Tibetan pig. *Sci. Rep.*,7(1):3654, 11 p. DOI: [10.1038/s41598-017-03976-3](https://doi.org/10.1038/s41598-017-03976-3)

#### **4. Electronic resources**

Only publications in electronic format may be included if they can be found using computer search engines. Where possible, the same data elements are described for each type in the same order as for paper publications. In addition, the date of the last download and the URL should always be given. (If there is a DOI identifier, it should be given, the date of download may be omitted.)

### *About the DOI identifier:*

DOI (Digital Object Identifier) is a digital object identifier, a unique reference to a web page that contains information about an object (e.g. an online document or dataset) and how to access it. When citing literature, if a source has a DOI, it is mandatory to include it.

At the end of the bibliographic description of a literature item, after "DOI:", only the character sequence starting from the 10th character should be given, e.g.: DOI: 10.17165/TP.2018.1.2), and the link to the article (<https://doi.org/10.17165/tp.2018.1.2>) should be attached as a hyperlink.

### **Electronic book/book chapter (e-book)**

If a book is only available in electronic format (not in print), but the data elements are available, we will refer to it and the chapter it contains in the same way as if it were a paper publication, but we will also include the date of the last download and the link to the publication.

Example:

- ✓ Barna R., Horváthné Kovács B., Nagy J. (2021). In Horváthné Kovács B. and Barna R.: *Agroforestry in rural development practice*. Kaposvár: Hungarian Agricultural and Life Sciences University Kaposvár Campus, pp. 99-107. date of download: 25.10.2021. source: <https://press.mater.uni-mate.hu/id/eprint/31>
- ✓ Jawtahri, M., Stoffova, V. (2022): OULADS's Learners' Dropout Prediction Framework, in Singh, P. K., Singh, Y., Kumar C. J., Illés, Z., Chaman, V. (eds.) *Recent Innovations in Computing: Proceedings of ICRIC 2021, Volume 2*, Singapore: Springer Singapore, pp. 683-694. DOI: [10.1007/978-981-16-8892-8\\_52](https://doi.org/10.1007/978-981-16-8892-8_52)

### **Digitised book/book chapter**

Author(s) (year of original publication): *e-book title* (). Original publication details: place: publisher (if any). [Electronic edition] Place of publication: institution, date of digitisation (if available).

Example:

- ✓ Agárdi I (2010). Akadémiai Publisher. [Electronic version] Budapest: Akadémiai Kiadó, 2017.

Sometimes an article may be published online by the publisher before it has found its final place in an issue. In such cases, we can only provide the author, the year of publication, the title of the article, the title of the journal, the date of online publication, the date of download and the link to the article. The same applies to announcements in the online version of a journal or on the portal site.

Example:

- ✓ Boros E. and Sztanó G. (2021) The evolution of European bailout arrangements and its impact on sovereign bond yields in the aftermath of the euro crisis *Society and Economy*, 2021. 03. 07. DOI: [10.1556/204.2020.00024](https://doi.org/10.1556/204.2020.00024)
- ✓ M. Zsolnay (2023): the Hungarian greyhound. *Magyar Mezőgazdaság*, 10.06.2023.  
Downloaded on 11.05.2022. Source:  
<https://magyarmezogazdasag.hu/2023/06/10/elnyuhetetlen-terepjaro-magyar-agar>

#### **Announcement of website/portal**

Author(s) (year of publication): *title of the study* (in italics). institution/website. Date of download. Source: full web address of the source. If author cannot be read off, identify by title and year of publication. If neither the author nor the date of publication can read, the source should preferably not be used.

Example:

- ✓ MNB (2020). MNB website. Downloaded on 31/03/2021. source:  
[https://www.mnb.hu/Jegybanki\\_alapkamat\\_alakulasa](https://www.mnb.hu/Jegybanki_alapkamat_alakulasa)
- ✓ *Joining the euro: just words* (2016): My Money. Retrieved 31/03/2021 Source:  
<https://www.azenzem.hu/cikkek/eurocsatlakozas-pusztaszavak/3366/>

#### **Website referred to**

If the referenced source is the website itself, the author need not be indicated next to the title. In this case, the date of the download must also be given in the bibliographic entry next to the URL.

Example:

- ✓ BASE (Bielefeld Search Engine) search engine. Download date: 25/03/2023  
Source: [www.base-search.net](http://www.base-search.net) 1.

- ✓ Directory of Open Access Journals (DOAJ) website. Retrieved 14/03/2023  
Source: <https://doaj.org/>
- ✓ DuraSpace: DSpace website. Retrieved 25/03/2023 Source: <http://www.dspace.org/>
- ✓ DART Europe E Theses Portal. Retrieved 26/02/2023 from <http://www.dart-europe.eu>
- ✓ Google Scholar search. Retrieved 25/03/2023 Source: <https://scholar.google.hu/>

If you link to any content on the website, the item will be included in the other resources with a copyright reference. These are usually given as URL<sup>1</sup>, URL<sup>2</sup>, etc. in the bibliography and can be referred to in the text.

### 5. Doctoral thesis, dissertation, thesis, diploma thesis

Author (year of preparation): *title* ( italics). Type of work [PhD thesis/DLA thesis/MTA thesis]. Place of publication: name of the doctoral school. DOI or access link.

Example:

- ✓ Ács Z. (2016): *prevalence and host specificity of Dictyocaulus lungworms of cervids using DNA studies*. [PhD thesis] Kaposvár: Doctoral School of Animal Sciences.  
DOI: [10.17166/KE2016.010](https://doi.org/10.17166/KE2016.010)

### 6. Legislation, standards

Legislation and standards are listed in the bibliography by document number and full name.

Example:

2. 4/1998.(XI. 11.) EüM Decree On the permissible levels of microbiological contamination in foodstuffs
3. ISO 4833-1:2014:Microbiology of the food chain. Foodstuffs for human consumption - Horizontal method for the enumeration of micro-organisms - Part 1: Plate-casting method for plate counting at 30 °C (ISO 4833-1:2013)

### **The spelling of scientific generic names**

The first member of a scientific species name (the genus name) should be capitalised, the second member (the species indicator) should be lower case. The third name for subspecies and other sub-species taxa should also be in lower case:

- scientific names of species e.g. *Abies alba*, *Equus caballus*, *Tropinota hirta*
- scientific names of taxa under species e.g.: *Fraxinus angustifolia* subsp. *oxycarpa*

The scientific names of taxonomic categories above species (e.g. family names) are written in capital letters:

- Cupressaceae, Galliformes, Lamiales, Mammalia

The scientific names of genera, species and subspecies should be written in *italics*, and the names of taxa above the genus should be written in capital letters. The abbreviations of taxonomic categories in the names (subsp., var., f., l., convar.) are written in capital letters. For species of hybrid origin, a multiplication sign (AltGr+ú) is placed between the genus name and the species designator, not an x. The multiplication sign is punctuated with a capital letter. For intergeneric hybrids, × sign is placed before the genus name, and the genus name of grafted chimeras is preceded by a + sign, also shown with a vertical character.

- species name: *Acer campestre*
- subspecies: *Acer tataricum* subsp. *ginnala*
- species of hybrid origin: *Juniperus*× *pfitzeriana*
- intergeneric hybrid:× *Mahoberberis neubertii*
- chimera produced by inoculation:+ *Crataegomespilus dardarii*

The name of the species is written in capital letters, preceded by the abbreviation cv. or nothing, according to the practice in the field, but always between single quotation marks.

Varietal names are written with a capital letter:

- *Tilia tomentosa* 'Szeleste'

The name of the first descriptor (auctor) or its abbreviation may be given after the scientific name, in a capital letter. The abbreviation of the first descriptor of the plant, which is not the current valid name, is given in brackets before the valid name auctora. In the case of scientific names used more than once in a thesis, it is sufficient to include the descriptor at the first mention.

- *Ligustrum vulgare* L.
- *Gymnocladus dioicus* (L.) K. Koch

The scientific name for each species/species should be given only once in the paper, at the first mention, from then on the accepted Hungarian name is used.

## **ANNEXES**

Not a compulsory part of the essay. As a general rule, pictures, diagrams and tables that are larger than 1/3 page or so numerous that they would significantly increase the length of the essay should be included in an appendix. Depending on the subject of the essay, annexes should include: a questionnaire (1 copy blank), an interview schedule, a blank copy of data collection forms, "recipes" describing the composition and nutrient content of feedingstuffs, etc.

All annexes are numbered and titled.