



## THE FIRST CIRCULAR

UNESCO-APEID 2014 INTERNATIONAL SYMPOSIUM ON  
AGRICULTURAL EDUCATION FOR SUSTAINABLE DEVELOPMENT  
(Ag-ESD SYMPOSIUM 2014)

November 10 (Mon.) – November 14 (Fri),  
2014

AGRICULTURAL AND FORESTRY RESEARCH CENTER  
UNIVERSITY OF TSUKUBA  
JAPAN

# THE FIRST CIRCULAR

## 1. Background and Outlook:

The Agricultural and Forestry Research Center of the University of Tsukuba has been nominated by UNESCO as an Associated Center of the Asia-Pacific Program of Educational Innovation for Development (APEID) in the field of vocational and technical education, and has organized the Tsukuba Asian Seminar on Agricultural Education (TASAE) and more recently the International Symposium on Agricultural Education for Sustainable Development (Ag-ESD Symposium) annually since 1979.

TASAE has gained an excellent reputation as an international agricultural program under APEID from the timely themes of each term. The themes of TASAE for each term were as follows:

- 1979-1981     【 The second term of APEID 】  
    Agricultural Education at the Secondary Level in Asia
- 1982-1986     【 The third term of APEID 】  
    Strategies for Innovation of Agricultural Education in Asian Countries
- 1987-1991     【 The forth term of APEID 】  
    Education and Research for Higher Agricultural Productivity Conserving Nature Agro-ecosystem in Asian and Pacific Countries
- 1992-1996     【 The fifth term of APEID 】  
    Education and Research for Sustainable Development of Agriculture and Conserving Nature and Agro-ecosystem in Asian and Pacific Countries
- 1997-2001     【 The sixth term of APEID 】  
    Innovative strategies for linking agricultural and environmental education in Asia-Pacific countries for the 21st century
- 2002-2007     【 The seventh term of APEID 】  
    The utilization and conservation of the water resources for human survival, bioproduction and the environment considering sustainable development, and the role of agro-environmental education
- 2008-2013     【 The eighth term of APEID 】  
    Promotion of Ag-ESD for the Development of a Sustainable Future
- 2014-2020     【 The ninth term of APEID 】  
    Global Action Program

The Ag-ESD Symposium 2013 was held from November 25<sup>th</sup> to November 29<sup>th</sup> at the University of Tsukuba and focused on issues in The Role of Universities in Promoting Agricultural Education for Sustainable Development. The 2013 Symposium was also sponsored in collaboration with the Japan National Commission for UNESCO, JICA, Ibaraki University and the International Cooperative Education Program for Creation of Harmonious Asian Countries. Seventeen participants from 7 countries: Philippines, Thailand, Indonesia, USA, Afghanistan, Kenya, and Japan. In addition, more than 60 university students presented posters during the poster session.

## 2. This Year's Theme:

Ag-ESD Symposium for Global Action Program

### **3. Objective:**

In the first year of the APEID 9th program, we will focus on issues in  
**Premium Agriculture and Food Project**

--- Premium Agriculture and Food lead to healthy rural areas and a healthy world ---

International Symposium on Agricultural Education for Sustainable Development (Ag-ESD Symposium) organized by the Agricultural and Forest Research Center (AFRC) of University of Tsukuba has been held annually from 2008. The principal of Ag-ESD is to promote education and enlightenment activities for sustainable development of agriculture, farm villages, and the world from the viewpoint of rural areas.

One of the most important issues in the 21st century is elimination of differences in poverty and wealth between developed countries and developing countries, as well as within developed and developing countries. Except for a few developed countries, farm villages are generally poor in comparison with urban areas. Therefore, efforts should contribute to the enrichment of farm villages in rural areas. Each country and each rural area must understand their climate and environment, cultivate a love of their countries, and seek high quality agriculture, food and environment through technology transfer and globalization to bring coexistence throughout the world.

The world is changing continuously. If the changes can be divided into Yang and Yin, the society of Yin in some developed countries with problems of population decrease and aging will gently shift to a society focused on farming, production and consumption of local farm products, networking society, intergenerational ethics, environmental ethics and other similar activities. To attain a society of Yang and Yin with happiness, monetary stability and some competition, efforts for technological development are required. Furthermore, education and research organizations are expected to commit to and promote "Premium Agriculture and Food" as powerful tools to realize development of an ideal society in the future.

### **4. Organization:**

The Agricultural and Forestry Research Center of the University of Tsukuba organizes the symposium under the auspices of the APEID program of UNESCO.

### **5. Co-sponsors:**

The Graduate School of Life and Environmental Sciences, University of Tsukuba, JICA Tsukuba International Center (TBIC), Japan International Research Center for Agricultural Sciences (JIRCAS) and the International Cooperative Education Program for Creation of Harmonious Asian Countries of the University of Tsukuba are additional sponsors of this year's symposium

### **6. Auspices:**

Ministry of Education, Culture, Sports, Science and Technology Japan (MEXT), Japan National Commission for UNESCO and Ibaraki University.

### **7. Date:**

November 10 – 14, 2014

The schedule of the symposium will be as follows:

- November 09 (Sun.) Arrival at Narita, Japan
- November 10 (Mon.) – November 14 (Fri.)

Invited Lectures, Discussion with students, Poster Presentations, and Study visit

- November 15 (Sat.) Departure from Narita, Japan

### **8. Venue:**

November 10 (Mon.) – November 14 (Fri.) University Hall, University of Tsukuba, Tsukuba, Ibaraki, Japan

## 9. Invited Participants:

### 1) International experts:

International experts involved in agricultural education for sustainable development with technological innovations to reduce environmental impacts in Asian-Pacific countries are the most suitable for fulfilling the objectives of the symposium. The participants will be experts in an area relevant to the symposium theme and will review the actual situation in his/her institution and country.

### 2) Japanese experts and commentators:

Several Japanese experts and commentators from various scientific fields relevant to the theme will also be invited.

## 10. Main Working Language:

English

## 11. Preparatory Work:

### 1) Report:

To meet the objectives of the symposium, each invited participant is requested to prepare a presentation for the meeting and write a full paper to publish after the meeting. **Please send a one page Summary** (approximately 500 words) of your presentation in the format of the attached form with a recent color picture to the organizing committee of the Ag-ESD Symposium by **September 1, 2014**

**(please refer to the website: [http://www.nourin.tsukuba.ac.jp/~agesd/pdf/agesd2013\\_summary.pdf](http://www.nourin.tsukuba.ac.jp/~agesd/pdf/agesd2013_summary.pdf)).**

This summary will be included in the program to be distributed to persons attending the meeting. Participants will be allowed 30 or 20 (young researchers) minutes during the meeting for their presentation followed by 10 minutes of discussion.

Participants are also requested to submit a Full Paper to the organizing committee by **September 15, 2014**. After the seminar, the papers will be published in the Journal of Developments in Sustainable Agriculture an online peer reviewed journal published by the Agricultural and Forestry Research Center, University of Tsukuba. Please carefully follow the "Instructions for Authors" (pages 6-8 of this circular) and the checklist and examples (pages 9-14) of the journal for the organization and preparation of your papers. Any questions about the journal format should be addressed to the editor of the journal ([jdsa@nourin.tsukuba.ac.jp](mailto:jdsa@nourin.tsukuba.ac.jp)). The papers will be peer reviewed and corrections may be needed before actual publication in the journal. The papers are expected to be available online in early 2015 at URL: <http://www.jstage.jst.go.jp/browse/jdsa/>.

### 2) Equipment available for the presentation:

- (1) Laptop computer (Windows 7) with Microsoft Office 2010, 2013
- (2) Liquid Crystal Display Projector (Computer projector).

## 12. Financial Arrangements for Participants:

Each invited participant will be provided with an economy class roundtrip ticket from the airport nearest their home to the Tokyo Narita International Airport, roundtrip travel expenses from Narita Airport to the University of Tsukuba, and costs of room and board for the duration of the symposium. Participants are strongly encouraged to purchase Travel Insurance to cover their stay in Japan. No responsibility for insurance or any other expenses incurred on account of illness, injury, temporary or permanent disability, death and damage to a third party will be assumed by the organizer.

**13. Pre-registration:**

Each candidate must fill out the pre-registration form attached with this circular and return it to the Organizing Committee of Ag-ESD Symposium 2014, the University of Tsukuba as soon as possible so a formal letter of invitation can be sent. This letter and other documents will be necessary for participants to obtain a visa to enter Japan. Please be sure to fill out all information requested on the pre-registration form to facilitate preparations for your participation.

In addition, please send a scanned copy of your passport to [agesd@nourin.tsukuba.ac.jp](mailto:agesd@nourin.tsukuba.ac.jp) so we can prepare the necessary documents for you to obtain a visa and reserve your flights.

**14. Travel to Japan:**

Participants will receive an e-ticket from a travel agency designated by the organizing committee. Further instructions will be provided in a Second Circular.

**15. Second Circular:**

Participants will be given more details on the Ag-ESD Symposium 2014 and arrangements of their transportation, accommodations, study visits, etc. in a Second Circular. Don't hesitate to ask questions at any time.

**16. Correspondence:**

All correspondences should be addressed to:

Organizing Committee of Ag-ESD Symposium 2014

Agricultural and Forestry Research Center

University of Tsukuba

Tsukuba, Ibaraki, 305-8577 JAPAN

**E-mail:** [agesd@nourin.tsukuba.ac.jp](mailto:agesd@nourin.tsukuba.ac.jp)

URL: <http://www.nourin.tsukuba.ac.jp/~agesd/>

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## Instructions to Authors

The *Journal of Developments in Sustainable Agriculture* is a J-Stage based online English journal published by the Agriculture and Forestry Research Center, University of Tsukuba. *Journal of Developments in Sustainable Agriculture* publishes solicited and unsolicited articles on all aspects of sustainable agriculture. All submitted articles will be peer reviewed by two or more referees. The journal will be published and available online at <http://www.jstage.jst.go.jp/browse/jdsa/>. A limited number of hard copies of the journal will be published for distribution to the contributing authors.

### Submission of Papers online:

Authors should submit their manuscripts by e-mail to the following address:

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Authors, Reviewers and Editors send and receive all correspondence by e-mail and no paper correspondence is necessary. If you have any further questions, you may direct your queries to:

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### Publication Charges:

Submitted papers including original manuscripts and reviews will be charged 2,000 yen/printed page. Color pages will be charged at a rate of 6,000 yen/page. An invoice will be sent to the corresponding author after publication of the journal. Page charges will be waived for all invited papers. However, invited papers that exceed 15 pages including figures and tables will be charged for the number of pages above 15 at the same rates described above. Reprints can be ordered at anytime directly from **Soubun Publishing Company** but the costs must be paid by the authors.

### Manuscript Preparation

#### 1) General:

The length of the manuscript should not exceed 30 double-spaced A4 pages, inclusive of figures and tables (10 printed pages). Longer papers may be published if there is sufficient reason and they are approved by the editor. It should be printed on one side of A4 (210 mm × 295 mm) paper, using double spacing and at least 25 mm margins on all sides. A Times New Roman font size of 12 pt is required. The corresponding author should be identified (include telephone, fax number and E-mail address). Full postal addresses must be given for all co-authors. The Editors reserve the right to adjust style to certain standards of uniformity. Authors should retain a copy of their manuscript since we cannot accept responsibility for damage or loss of papers.

#### 2) Text:

Follow this order when organizing manuscripts: Title, Authors, Affiliations, Running title (less than 10 words), Summary, Keywords, Introduction, Main text, Conclusions, Acknowledgements, References, Figure Captions, Tables and then Figures and Illustrations. **Do not import the Figures or Tables into your text.** Place tables at the end of the manuscript file and figures in a separate powerpoint, TIFF, EPS or other similar files. The corresponding author should be identified with an asterisk and a complete address and e-mail address provided. Please do not use footnotes in the title page or in the manuscript. Only standard abbreviations should be used. Subject specific abbreviations and jargon will not be accepted.

#### 3) Summary:

This should be a brief summary of the contents and conclusions of the paper, and should be approximately 300 words and not contain references.

#### **4) Keywords:**

No more than five key word entries should be provided for rapid scanning of the contents of the paper and for compiling the index.

#### **5) Introduction:**

The introduction should contain a brief survey of the relevant literature and the reasons for doing the work.

#### **6) Main Text:**

The main text should be organized logically following the standard rules of English writing. Subtitles may be used to identify the content of each section.

#### **7) Conclusion:**

Briefly summarize the contents of the main text and discuss the importance of the findings presented in the main text. This may also include recommendations and applications.

#### **8) References:**

All publications cited in the text should be presented in an alphabetical list of references following the text of the manuscript. In the text refer to the author's name (without initials) and year of publication (e.g. "Since Peterson (1993) has shown that ..." or "This is in agreement with results obtained later (Kramer, 1994)". For three or more authors use the first author followed by "et al.", in the text. The list of references should be arranged alphabetically by authors' names and follow the formats given below. The manuscript should be carefully checked to ensure that the spelling of authors' names and dates are exactly the same in the text as in the reference list. Publications in any other language than English should retain the original title and include an English translation in parentheses. However, publication in non-Latin alphabets should be transliterated, an English translation provided in parentheses and a notation such as (in Japanese) or (in Japanese with English abstract) should be added.

#### **References should be given in the following formats:**

Articles: Mateos, L., Mantovani, E.C., Villalobos, F.J., 1997. Cotton response to non-uniformity of conventional sprinkler irrigation. *Irrig. Sci.* 17, 47-52.

Books: Hillel, D., 1971. *Soil and Water-Physical Principles and Process*. Academic Press, NY.

Chapter in a Book: Baker, Jr., 1993. Insects. In: De Hertogh, A., Le Nard, M. (Eds.), *The Physiology of Flower Bulbs*. Elsevier, Amsterdam, pp. 101-153.

Government document: Center for Disease Control and Prevention, 1997. *Lyme disease-United States, 1996. Morbid Mortal. Wkly Rep.* 46, 531-533.

Internet URL: Steinfeld, H., Gerber, P., Wassenaar, T., Castel, V., Rosales, M., de Haan, C., 2006. *Livestock's Long Shadow: Environmental Issues and Options*. Rome: Food and Agriculture Organization of the United Nations.

<http://www.fao.org/docrep/010/a0701e/a0701e00.HTM>, accessed November 2009.

References to papers "in press" must mean that the article has been accepted for publication.

References to "personal communications" and unpublished work are permitted in the text only;

references to papers in preparation or submitted are not permissible.

### **Illustrations, Line Drawings and Photographs:**

All illustrations should be provided as high quality figures suitable for reproduction (which may include reduction). Photographs, charts and diagrams are all to be referred to as "Figure(s)" and should be numbered consecutively in the order to which they are referred. They should accompany the manuscript, **but should not be included within the text**. Figures should be saved as powerpoint, TIFF, EPS or other similar formats. **Do not use word files for figures**. The file(s) for figures should be separate and named as to make clear which figure it is e.g. figs.ppt, fig1.tiff, fig 2.eps, etc. Type the figure number and manuscript authors and title on the bottom of the figure. All figures must have a caption that is supplied on a separate sheet of figure legends (included with the main text) after the references. The figure legend should state concisely what the figure shows. Color figures should only be used when absolutely necessary.

### **Tables:**

Tables should be numbered consecutively and given a suitable caption and included at the end of the text after the figure legends. Footnotes to tables should be typed below the table and should be referred to by superscript lowercase letters. No vertical rules should be used. Tables should not duplicate results presented elsewhere in the manuscript, (e.g. in graphs). Units of measure should always be clearly indicated.

### **Permissions:**

Authors are responsible for obtaining permission from the copyright holder to reproduce any figures for which copyright exists. The source of the material should be credited at the end of the figure legend or in a footnote of the table.

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## Journal of Developments in Sustainable Agriculture Manuscript Check List

### To Authors

Before submitting your manuscript please use the following checklist to confirm that the format is correct and all necessary information is provided.

Confirm by checking the boxes in the right hand column.

Samples are provided in the subsequent pages.

Instructions for authors and recent published papers: <http://www.jstage.jst.go.jp/browse/jdsa/>

Items	Check
<b>Title page</b>	
Title, Name of Author(s), Affiliation and Address, Running Title, and Corresponding Author should be provided.	
Avoid using abbreviations in the title.	
The first (given) and last (family) names of each author should be written in full spelling. Middle name should be written as an initial. Order: first name, middle initial, last name.	
Running title of 10 words or less should be provided.	
Complete institutional address and e-mail address of the corresponding author should be provided.	
<b>Abstract</b>	
Abstract should be 300 words or less and clearly outline the content of the paper.	
Key words (5 words) should be provided below the abstract in alphabetical order, and be different than the title.	
<b>Manuscript</b>	
The manuscript should be written in the order of Title Page, Abstract, Introduction, Main Body, Conclusion, Acknowledgments and References. The main body of independent studies should be written as materials and methods, results and discussion with the conclusions included at the end of the discussion. The main body of review or overview papers should be arranged as subsections and a separate conclusion section. Avoid short incomplete paragraphs.	
<b>Acknowledgments</b>	
Limit acknowledgments to just people and institutions that were directly involved in the specific study. The agency providing the funding should also be acknowledged	
<b>References</b>	
Confirm that all references follow the format of the journal including punctuation, location of the year, etc. See the examples in instructions to the authors and samples provided below.	
References in the text should be written as: ---(Taylor, 1995; Taylor and Tajima, 2000; Taylor <i>et al.</i> , 2004). Taylor <i>et al.</i> (2004) reported---	
The list of references must be in alphabetical order by first author's last name. Multiple papers from the same author should use the last name of the second or subsequent authors or the oldest papers first to determine the order in the references. Use standard abbreviations for the journal names.	
Journals	
(Sample) Mateos, L., Mantovani, E.C., Villablobos, F.J., 1997. Cotton response to nonuniformity of conventional sprinkler irrigation. <i>Irrig. Sci.</i> 17, 47-52.	
References for books	
(Sample) Hillel, D., 1971. <i>Soil and Water-Physical Principles and Process</i> . Academic Press, NY.	

Reference for chapter in a book  (Sample) Baker, Jr., 1993. Insects. In: De Hertogh, A., Le Nard, M. (Eds.), <i>The Physiology of Flower Bulbs</i> . Elsevier, Amsterdam, pp. 101-153	
Reference for government document:  (Sample) Center for Disease Control and Prevention, 1997. Lyme disease-United States, 1996. <i>Morgid Mortal. Wkly Rep.</i> 46, 531-533.	
Reference for Internet URL:  (Sample 1) FAO, 2006. <i>The State of Food Insecurity in the World (2006)</i> . Eradicating world hunger – taking stock ten years after the World Food Summit. <a href="http://www.fao.org/docrep/009/a0750e/a0750e00.HTM">http://www.fao.org/docrep/009/a0750e/a0750e00.HTM</a> (Browsed on October 10, 2008).  (Sample 2) Steinfeld, H., Gerber, P., Wassenaar, T., Castel, V., Rosales, M., de Haan, C., 2006. <i>Livestock’s Long Shadow: Environmental Issues and Options</i> . Rome: Food and Agriculture Organization of the United Nations. <a href="http://www.fao.org/docrep/010/a0701e/a0701e00.HTM">http://www.fao.org/docrep/010/a0701e/a0701e00.HTM</a> (Browsed on October 15, 2008).	
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All papers cited in the text must be listed in the References.	
All papers in the References must be cited in the text.	
Papers not yet accepted for publication should not be listed in References (cite in text as “unpublished data”).	
<b>Tables and Figures</b>	
Tables should be in black and white and the style and format follow the instructions for authors and recent issues. Submit the tables on separate pages in a word file (they can be at the end of the manuscript file).	
Abbreviations used in a table must be defined in that table.	
Limit use of color figures to only those absolutely necessary (publication costs are expensive for color pages). Do not use figures from other papers or from webpages unless absolutely necessary and you have obtained permission from the copyright holder. Submit figures as one power point file. A list of figure legends should be provided on a separate page at the end of the manuscript word file.	
Abbreviations used in the figures must be defined in the caption of that figure.	

# Journal of Developments in Sustainable Agriculture

## Sample Manuscript

### *Page 1*

Title page

Title: Genetic Studies on Tick Ecdysteroid Regulation for Development of Sustainable Tick Control Strategies

Mari Horigane<sup>1,2</sup> and DeMar Taylor<sup>1\*</sup>

<sup>1</sup>Graduate School of Life and Environmental Sciences, University of Tsukuba, Tennodai 1-1-1, Tsukuba, Ibaraki, 305-8572, Japan.

<sup>2</sup>Research Fellow of the Japan Society for the Promotion of Science.

Running title: Ecdysteroid regulation for sustainable tick control

\* Corresponding author: Graduate School of Life and Environmental Sciences, University of Tsukuba, Tennodai 1-1-1, Tsukuba, Ibaraki, 305-8572, Japan. Tel: +81-29-853-4806; Fax: +81-29-853-6617.

E-mail address: [taylor@sakura.cc.tsukuba.ac.jp](mailto:taylor@sakura.cc.tsukuba.ac.jp)

**Title:**

Nouns should be written as capital letters with no period at the end. The scientific names of animals and plants, and Latin adverbs should be written in italics. Do not use abbreviations.

**Authors:**

The first (given) and last (family) names of each author should be written in full spelling. Middle name should be written as initials followed by a period. Order: first name, middle initial, last name.

**Running Title:**

10 words or less.

**Corresponding author:**

Name, institute, address, e-mail address.

**Italics:**

The scientific names of animals and plants, and Latin adverbs should be written in italics.

## Page 2

### Summary

Ticks are exoparasites of mammals and important pests of livestock. Presently, tick control depends on use of acaricides and pesticides commonly used in integrated pest management.

.....

**Key words:** tick, ecdysteroid, arthropod growth regulator, ecdysteroid receptor, IPM

**Summary:** should be 300 words or less on page 2 .

**Key words:** 5 words or less after the summary.

## Page 3 and following pages

### Introduction

Blood feeding arthropods directly cause great damage to livestock as well as transmit various diseases. Mosquitoes, flies and ticks are the major exoparasites ..... (Peter et al., 2005). Ticks transmit diseases ..... (de Waal, 2000; Mayo and Masika, 2008).

#### Reference citation in the text:

References in text should be written as last name of the first author and published year in parenthesis. The author's initial should not be included.

If the number of authors of a reference is two, the last names of both authors should be indicated.

If the number of authors of a reference is more than three, only the last name of the first author should be included and other authors indicated by "*et al.*"

**Multiple references in a citation** should be separated by semicolons and written in order of published year (old to new).

### Main Body

#### 2. Tick life strategies

Ticks are blood feeding acari belonging to the class Arachnida and are classified into three families: Ixodidae, Argasidae and Nuttallidae. Hard ticks live in grassy fields and go through one larval, ..... (Fig. 1; Table 2). Figure 2 shows the numbers of ticks .....

## 6. Conclusions and recommendations for integrated tick management

Genetic analysis provides basic knowledge about the regulation of molting and reproduction in arthropods and may lead to the development of tools for tick control.

### Acknowledgements

I thank Takeshi Watanabe and Dr. Osamu Ito of the Japanese International Research Centre for Agriculture Sciences (JIRCAS) for technical support and materials supplied for these experiments. This work was supported by Grant-in-Aid for Scientific Research from.....

If the work is supported by any grants, Acknowledgments should include the research grants.

### References

- Capron H. 1884. Memoirs of Horace Capron Volume 2. Expedition to Japan 1871-1875. [http://naldr.nal.usda.gov/NALWeb/Agricola\\_Link.asp?Accession=capron2](http://naldr.nal.usda.gov/NALWeb/Agricola_Link.asp?Accession=capron2). (Browsed on October 10, 2008).
- Chapman, R.F., 1998. Endocrine system, Chapter 21. In: The Insects. Cambridge University Press., New York (NY), pp. 570-584.
- Chinzei, Y., Taylor, D., Ando, K., 1991. Effects of juvenile hormone and its analogs on vitellogenin synthesis and ovarian development in the soft tick, *Ornithodoros moubata* (Acari: Argasidae). J. Med. Entomol. 28, 506-513.
- Nagai M. 1965. Japanese Universities—Their role in the industrial society. Chuko Shinsho 61. (in Japanese)

**References from journals should be written as:**

Name of authors (no “and” before the last author), publication year, title, journal name abbreviated, volume, and first and last pages.

The issue number of a journal volume should be omitted.

**Reference from books should be written as:**

Name of authors, publication year, book name, edition, pp., publisher, published place and published year should be given.

In case of a chapter in a book, “In: title of the chapter and name of editor(s)” should be given.

**References should be listed in alphabetical order of the first author's last name.**

Multiple references by the same author should be listed by the published year (old to new).

Multiple references by the same author published in the same years should be listed in alphabetical order of the last name of the second or subsequent author.

Figure legends

Fig.1. Summary of hard and soft tick life cycles. La: larva, Ny: nymph. Gray arrows indicate molting without blood feeding from egg to larva. Black arrows indicate blood feeding is necessary before molting can occur.

Captions of the figures should be placed on one page separate from the figures at the end of the manuscript.

Abbreviations used in the figure must be defined in the caption.