

Paper-Based Dissertation Guidebook

Doctoral Program



DOCTORAL PROGRAM IN ANIMAL SCIENCE
FACULTY OF ANIMAL SCIENCE
UNIVERSITAS GADJAH MADA
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EDITORIAL TEAM

PAPER-BASED DISSERTATION GUIDEBOOK DOCTORAL PROGRAM IN ANIMAL SCIENCE UNIVERSITAS GADJAH MADA

No.	Name	Position
1	Prof. Ir. Budi Guntoro, S.Pt., M.Sc., Ph.D., IPU., ASEAN Eng.	Supervisor
2	Ir. R. Ahmad Romadhoni Surya Putra., S.Pt., M.Sc., Ph.D., IPU., ASEAN Eng.	Advisor
3	Prof. Ir. Tri Satya Mastuti Widi, S.Pt., MP., M.Sc., Ph.D., IPM., ASEAN Eng.	Chair
4	Prof. Ir. Ambar Pertiwinigrum, M.Si., Ph.D., IPU., ASEAN Eng.	Member
5	Ir. Annisa' Qurrotun A'yun, S.Pt., M.Sc., IPP.	Member
6	Ir. Dimas Hand Vidya Paradhipta, S.Pt., M.Sc., Ph.D., IPP.	Member
7	Ir. Trisianto Nugroho, S.Pt., M.Sc., IPP.	Member
8	Ir. Viagian Pastawan, S.Pt., M.Sc., Ph.D., IPP.	Member
9	Agustin Pratiwi, S.Pt., M.Sc.	Member
10	Sutari, SE., M.Ak.	Member
11	Diyan Eka Hantari, S.Pt.	Member

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EDITORIAL INTRODUCTION

The dissertation is the primary academic work produced by doctoral students. It represents an in-depth research paper conducted independently and is expected to make a **novel contribution** to scientific knowledge. Fundamentally, research proposals and dissertations share similarities; however, a dissertation goes further by presenting and discussing research that has been both planned and implemented. In this context, the **Paper-Based Dissertation Guidebook** has been prepared to facilitate a smooth writing process and ensure alignment with the established academic standards.

Yogyakarta, January 2025
Editorial Team

PREFACE

The Doctoral Program in Animal Science, Faculty of Animal Science, Universitas Gadjah Mada (UGM), aims to produce internationally recognized doctoral graduates who contribute to the advancement of scientific knowledge and technology in the field of animal science. Graduates are expected to possess scientific integrity, uphold high moral standards, demonstrate noble character, and show concern for the challenges faced by humanity and the environment. To realize this vision, one of the missions of the Doctoral Program in Animal Science is to conduct research based on local excellence to develop science and technology in the field of animal science. The research conducted by doctoral students will be compiled in the form of a dissertation as a final requirement.

This dissertation guidebook serves as a reference for students and academic advisors in preparing dissertations within the Doctoral Program in Animal Science at the Faculty of Animal Science, UGM. Currently, the program implements a curriculum based on coursework and research. Therefore, this guidebook includes essential aspects of dissertation preparation, such as proposal writing, problem formulation, research methodology, data presentation, and research result discussion.

It is hoped that this guidebook will serve as a valuable reference for students in preparing their dissertations to meet academic writing standards at both national and international levels. We would also like to extend our gratitude to the previous authors who diligently compiled the earlier versions of this guidebook; the Faculty Senate, Faculty of Animal Science UGM, particularly Commission 1, for reviewing and providing constructive feedback that has contributed to improving the quality of this guidebook. Continuous revisions and refinements are carried out to ensure that the guidebook remains, aligned with scientific developments in animal science and adheres to the academic standards of the Faculty of Animal Science UGM.

We hope this guidebook will provide meaningful benefits for students of the Doctoral Program in Animal Science, Faculty of Animal Science UGM, in completing their final academic work.

Yogyakarta, January 2025
Dean,

Prof. Ir. Budi Guntero, S.Pt., M.Sc., Ph.D., IPU., ASEAN Eng.
NIP. 197008291996011001

INTRODUCTION

The Doctoral Program in Animal Science, Faculty of Animal Science UGM, offers a doctoral program through By Research and By Course schemes, both culminating in a dissertation. The dissertation credit weight for the By Course program is 42 credits, while for the By Research program it is 48 credits. Students in the By Research program are required to write a dissertation in the paper-based format, whereas students in the By Course program may choose either a monograph or a paper-based dissertation format.

A paper-based dissertation consists of a collection of interrelated articles on a specific topic written by the doctoral candidate, which have been published or accepted for publication in scholarly journals. Some articles may be co-authored on all included articles. A monograph dissertation, on the other hand, is a comprehensive and descriptive work written by a single author, the doctoral candidate focusing on their area of specialization. A monograph is usually organized into several chapters and remains a preferred format in some academic fields.

Doctoral students opting for the paper-based format must include a minimum of three publishable articles in reputable international journals indexed in Scopus (with a minimum SJR > 0.01) or WoS Clarivate Analytics (with a JIF > 0.05). Students in the By Research program must have at least two articles that have been accepted, while students in the By Course program must have at least one article that is accepted and one article submitted.

The dissertation preparation process consists of several stages, including the research proposal, seminar on research proposal, and seminar on research findings, which must be written in either Bahasa Indonesia or English. This guidebook specifically provides direction for preparing a dissertation in the paper-based format (paper-based dissertation).

STAGES AND REQUIREMENTS FOR PAPER-BASED DISSERTATION

A. RESEARCH PROPOSAL

The research proposal approved by the Promotor Team must be presented during the Proposal Seminar, attended by the Seminar Course Lecturers, Promoter Team, and the Student Participant. The format of the research proposal is as follows:

Title page

The title page must include: the title, the purpose of the research proposal, the UGM logo, student name and ID number, study program and faculty, and the submission date (month and year).

- a. Research title.** The research title must be concise, clear, and purposeful, yet accurately reflect the research problem without opening possibilities for multiple interpretations or ambiguity. Abbreviations should not be used. The title must be written in Arial font, all capital letters, size 16-18 pt, single-spaced, with a maximum of 20 words (depending on the title's length). Line breaks in the title must reflect meaningful sentence divisions.
- b. Purpose of the proposal.** The purpose of the proposal is to outline research for a dissertation under the Doctoral Program in Animal Science.
- c. Universitas Gadjah Mada Logo.** The Universitas Gadjah Mada logo must be included with a diameter of approximately 5.5 cm, as specified in **Appendix 1**.
- d. Student name.** The student's full name must be written without abbreviation or academic title, in accordance with their official academic record. The student's ID number must be listed below the name.
- e. Study Program and Faculty.** To be written as follows: Doctoral Program in Animal Science, Faculty of Animal Science, Universitas Gadjah Mada.
- f. Submission date.** The submission date should be indicated by writing the month and year below the word Yogyakarta.

A sample of the title page can be found in **Appendix 1**.

Approval page

The approval page must include signatures from the Promotor and Co-promotor. It must contain their names and the date approval. A sample of the approval page can be found in **Appendix 2**.

Introduction

The introduction to a dissertation research proposal includes:

a. Problem statement

The problem statement provides an explanation of the significance of an issue that needs to be addressed. Identifying or determining the research problem is the first step in the scientific thinking process. In this section, it must be demonstrated that the issue being raised has not yet been adequately resolved or answered. Furthermore, the relationship between the specific research problem and broader issues should be described systematically. Thus, a clear problem framework that can be logically analyzed will be established.

b. Originality, depth, and novelty

Originality implies that the research possesses elements of innovation, rather than merely imitating or repeating previous studies. Depth indicated that the analysis and discussion are conducted thoroughly, not superficially, and that the research coverage is sufficient to support a comprehensive discussion. Novelty refers to the presence of new ideas, findings, or approaches that add value to the advancement of scientific knowledge. Therefore, any new findings or ideas presented in the research must be conveyed systematically so they can be clearly understood and recognized as scientific contributions.

Originality, depth, and novelty which constitute new contributions to scientific development, must be presented as clearly as possible, in order to provide a strong foundation for further research and to broaden understanding and application within the relevant scientific discipline.

Objectives

The research objectives should specifically state the goals to be achieved through the study. By accomplishing the stated research objectives, the identified issues can be addressed effectively. It is also expected that the outcomes will offer significant benefits for the advancement of science and for the development of both the nation and the state

Significance

To provide additional empirical evidence, validate or generate new theories, and broaden the scope of scientific knowledge (theoretical aspect). To serve as a reference for policy-making, innovation, or community empowerment programs aimed at solving practical problems and promoting national development (applicative aspect).

Literature Review

The literature review presents a systematic summary of previous research findings relevant to the study to be conducted. In presenting this section, it must be shown that the issues under investigation have not yet been adequately addressed or resolved. The facts presented should preferably be drawn directly from original sources, rather than from magazines or popular books. At least 80% of the references must come from journals, proceedings, or textbooks published within the last 10 years. All sources used must be cited by mentioning the author's name and year of publication, in accordance with the reference list. A sample of how to cite references can be found in **Appendix 3**.

Theoretical Framework and Hypothesis / Empirical Explanation

a. Theoretical Framework

The theoretical framework is developed based on the background and literature review and is formulated independently by the student as a guide for addressing the research problem and formulating hypotheses. The theoretical framework may consist of qualitative descriptions, mathematical models, or equations directly related to the scientific field being studied, rather than merely quotations or summaries from the references used.

b. Hypothesis or Empirical Explanation

Hypothesis presents a brief statement derived from the theoretical framework or literature review and serves as a provisional answer to the research problem, which still requires empirical verification. In certain studies where a hypothesis is not necessary, an empirical explanation may be provided instead. This involves a scientific statement focusing on the phenomenon or condition of the research subject in detail, which constitutes the core issue of the research.

To ensure the dissertation is a high-quality and systematic scholarly work, each section from the title, objectives, hypothesis or empirical explanation, to the conclusion must be logically connected. This connection, often referred to as the "read thread", ensures coherence among these elements, thus enabling the dissertation to follow a clear and cohesive structure.

Methodology

Given that dissertation research generally consists of several components, the research materials, methods, and data analysis can be presented separately for each part of the research. Writing the research proposal in this manner allows for better clarity and makes it easier to link the research objectives and proposed hypothesis. This is important, as research methods play a key role in obtaining evidence to test hypotheses and to find answers to the

predefined research objectives.

The research materials and methods section includes descriptions of: the time and location of the research, research materials, and research methods

- a. Time and location of the research. This explains in detail the specific timing and site where the research was conducted.
- b. Research materials, which are divided into two parts: materials and equipment.
 1. The materials may include livestock, feed ingredients, respondents, microbes, products, and waste materials, or other than main inputs used in the study. These materials must be described clearly, with their characteristics and specifications stated.
 2. The primary equipment used to carry out the research must be described clearly (including specifications and brand), and if necessary, accompanied by figures and explanations.
- c. Research methods, which include:
 1. Experimental design, outlining the planned experimental setup to be used in conducting the research.
 2. Research methodology. This includes the procedures for the experimental design, sample population, data collection methods, and the variables to be studied.
 3. Variables to be researched.
 4. Research implementation procedures.
 5. Analysis procedures.
 6. Data collection (parameters).
 7. Data analysis, which includes models and techniques used to analyze the research data. The analysis methods and the sources of the analytical models used must be clearly stated.

Research Schedule

The research schedule should be prepared carefully, taking into account its feasibility. The research schedule should include the following components:

- a. The stages of research to be conducted.
- b. Detailed description of each stage. The research schedule should be presented in matrix form for clarity.
- c. The time and location required for carrying out each research stage. The research schedule may be presented in a matrix or narrative format.

References

The references should be compiled based on the sources cited or used in the

preparation of the research proposal. All citations must be included in the references, and all entries in the references must be cited. The main purpose of the references is to provide readers with sufficient information to easily locate the sources mentioned in the proposal. The formatting of the references should follow the applicable citation guide.

B. RESEARCH RESULTS SEMINAR

The research results seminar is conducted twice (Seminar I and II), each of which includes a draft publication (article) that has been or will be submitted to an internationally reputable journal. The structure of the research results seminar is follows:

Title Page

The title page must include: the title, research proposal purpose, UGM logo, student name and ID number, study program and faculty, and submission date (month and year).

- a. **Article title**, written in Arial font, uppercase, font size 16-18 pt, single-spaced. Line breaks in the title must follow the meaning and sentence structure.
- b. **Research proposal purpose** is for the research results seminar I or II within the Doctoral Program in Animal Science.
- c. **Universitas Gadjah Mada** Logo, with a diameter of approximately 5.5 cm, should be included as shown in **Appendix 1**.
- d. **A student's full name** must be written without abbreviations and without academic titles. The student ID number must be written below the name.
- e. **The name of the study program and faculty** should be written as: Doctoral Program in Animal Science, Faculty of Animal Science, Universitas Gadjah Mada, Yogyakarta.
- f. **The Submission date** should be indicated by writing the month and year below the word Yogyakarta.

A sample of the title page can be found in **Appendix 1**.

Approval Page

This page contains the approval of the promotor and co-promotor, complete with signatures and approval date. A sample of the approval page can be found in **Appendix 7**.

Article / Article Draft

The section contains the article or article draft that has been submitted or is in the process of being submitted to an international journal. The writing should follow the author guidelines or manuscript format required by the journal, as regulated in this guidebook.

C. DISSERTATION

The paper-based dissertation in the Doctoral Program of the Faculty of Animal Science, Universitas Gadjah Mada, consists of at least three articles authored by the doctoral candidate as the first author. It begins with a general introduction and is comprehensively discussed in the general discussion section. A paper-based dissertation must include at least five chapters, consisting of the General Introduction, Paper I, Paper II, Paper III, and the General Discussion, corresponding to Chapters 1 to 5. Below are the guidelines for preparing a paper-based dissertation:

Cover page

The cover page must include the dissertation title, the UGM logo, the name of the doctoral student, the university name, and the year of the dissertation

- a. The dissertation title should be as concise as possible, with a maximum of 20 words, written in Arial, uppercase, font size 16-18 pt (adjustable). Line breaks in the title should be based on the meaning and sentence structure.
- b. The logo of Universitas Gadjah Mada should have a diameter of approximately 5.5cm.
- c. The student's full name must be written without abbreviations and without academic titles.
- d. The name of the Study Program must be written as: Doctoral Program in Animal Science, Faculty of Animal Science, Universitas Gadjah Mada, Yogyakarta, as the name of the higher education institution where the doctoral degree is undertaken.
- e. The year of the dissertation refers to the year in which the doctoral candidate passed the closed or open defense examination. The year is placed below the word Yogyakarta

A sample of the cover page can be found in **Appendix 5**.

Title page after the cover page

This page includes the dissertation title, the degree to be conferred, field of study, name of the institution, date and location of the defense, and the name and place of birth of the doctoral candidates. The place and birth should specify the city or regency. A sample of this page can be found in **Appendix 6**.

Approval page

The approval page includes the dissertation title and the signatures of the promotor and co-promotor, with the date of approval. A sample of the approval page can be found in **Appendix 7**.

Dissertation validation page

This page contains the dissertation title and the signatures of the promotor and examiners. A sample of the validation page can be found in **Appendix 8**.

Promovendus statement

This page contains a statement from the doctoral candidate confirming that the dissertation has not been submitted to obtain a doctoral degree elsewhere, and that all thoughts, ideas, and works of others referenced have been properly cited. A sample of the promovendus statement can be found in **Appendix 9**.

Preface

The preface contains a brief explanation of the purpose of the dissertation, background remarks, and acknowledgements. While it does not include scientific content, it must be written in a formal and respectful tone.

Table of contents

The table of contents is intended to provide an overview of the structure of the dissertation and serve as a guide for readers to directly locate specific chapters. The structure of the table of contents for a paper-based dissertation is as follows:

Abstract

Intisari (Abstract in Bahasa Indonesia)

Chapter 1. General Introduction

Chapter 2. Title of Paper I

Chapter 3. Title of Paper II

Chapter 4. Title of Paper III

Chapter 5. General Discussion

Conclusion and Recommendation

Summary

Appendices

A sample of the table of contents can be found in **Appendix 10**.

Abstract and *Intisari*

The abstract and *intisari* provide a concise yet comprehensive summary of the research objectives, methodology, and results. The abstract is written in English, while the *intisari* is written in Bahasa Indonesia. Each should not exceed 300 words.

Chapter 1. General Introduction

The general introduction presents the background of the research problem, explaining why the study is important to undertake. It includes a systematic description of previous research findings or underlying theories, and a problem statement that consist of the following components:

a. Background

The background outline the research problem within a broader context and provides a detailed explanation of the specific issues to be addressed. The originality of the research must be demonstrated by showing that the problem has not yet been resolved by previous studies or by emphasizing how this research differs from earlier works. This section should also describe the anticipated contributions of the research to the advancement of scientific knowledge and its potential contribution to national development.

The research objectives must be clearly stated in this section. The relationship between the research objectives and the problem formulation should be visible (there is a red thread). In this way, it becomes clear that the achievement of the stated objectives will lead to solving the identified problems. Furthermore, the research findings are expected to provide substantial benefits for the advancement of science and the development of the nations.

b. Objective of the study

The objective of the research or dissertation is defined as a clear and concise statement of the specific goals and aims of the study. The research objective outlines what the researcher aims to achieve and what they seek to explore or discover through their study.

c. Systematic description of theories

This section is essentially equivalent to a literature review. It provides a systematic account of previous research findings and theories that are relevant to the current study. The presentation should clearly demonstrate that the research problem has not yet been adequately addressed or resolved by previous studies. As much as possible, facts should be cited from original sources, avoiding popular magazines and books. At least 80% of the references should come from journals, proceedings, or textbooks published within the last ten years from the time of writing. All cited sources must be properly referenced, including the author's name and year of publication, as listed in the reference section. A sample of

citation style can be found in **Appendix 3**.

d. Problem statement

The problem statement is a clear, concise, and specific declaration that outlines the issue or problem being addressed in the research project. It should be written in a way that is understandable to both experts and non-experts in the field.

The problem statement is the result of the researcher's critical thinking, grounded in relevant theories, and serves as a guide for solving the research problem and for formulating hypotheses. It may take the form of a qualitative explanation, a mathematical model, or equations directly related to the scientific field being studied.

e. Hypotheses or empirical statements

A hypothesis is a provisional answer to a research problem that must be tested for its validity through research findings and subsequently verified using mathematical or statistical analysis. If a statement is not subject to testing, it is considered an empirical statement. The formulation of a hypothesis must be based on rational reasoning. Although a hypothesis is a tentative proposition that still requires validation, it provides the researcher with a framework for explaining the causal relationships between various factors within the research problem. Hypotheses should be stated as declarative sentences, not as questions, and must be formulated precisely.

f. Methodology

In a paper-based dissertation, detailed methodologies are presented within each individual paper. However, in Chapter 1, the methodology is outlined in a general and systematic manner, including the following components:

- a. Time and research site. This section specifies the time period and location where the research was conducted.
- b. Research approach. The research approach refers to the procedures chosen by the researcher to collect, analyze, and interpret data. There are three main research approaches: quantitative, qualitative, and mixed methods. This section should describe, in a general yet systematic way, the approaches or methods used in Chapters 2, 3, and 4.

g. Layout of the dissertation

This section provides a brief and systematic explanation of the structure of the dissertation to illustrate the relationship between each chapter.

h. References

The reference in Chapter 1 includes only the sources cited within this chapter. References must be arranged in descending order according to the alphabetical order of the authors' last names. The reference formatting must follow the guidelines provided in this guidebook.

Chapter 2 – 4. Titles of Individual Articles

Chapters 2, 3, and 4 contain scientific papers that have been published, submitted, or are in the process of being written for international journals. The title of each chapter should correspond to the title of the respective article. The formatting and structure of the articles presented in Chapters 2, 3, and 4 must follow the writing guidelines outlined in this guidebook.

Chapter 5. General Discussion

The general discussion provides a comprehensive analysis of all the articles presented in Chapters 2 to 4. It connects the findings from each study, allowing for the development of a unified conclusion and the formulation of recommendations for relevant stakeholders.

The reference in Chapters 5 includes only the sources cited within this chapter. References must be arranged alphabetically by the last name of the first author, following the reference formatting guidelines provided in this guidebook.

Conclusion and Recommendation

The conclusion, recommendations, and implications or policy suggestions must be presented separately.

- a. The conclusion is a concise summary that accurately reflects the results of the research and the discussion.
- b. Recommendations are formulated based on the research findings and are intended for researchers in related fields who may wish to continue or further develop the completed study. Including recommendations is not mandatory.
- c. Implication or policy suggestions are derived from the benefits and observations of the research, and they outline the actions that should be taken by researchers in relation to science and technology (IPTEKS), government policies, or the future development of research.

Summary

The purpose of writing the summary is to provide readers with an overview of the main

points of the dissertation. The summary should include the background, objectives, methods, results, conclusions, and recommendations presented in the dissertation.

Appendices

Appendices are used to present data or additional information that serves to complement the content discussed in the main body of dissertation. Each appendix must be properly introduced, similar to the way tables are referenced, through a narrative explanation within the main text to ensure it serves a clear and functional purpose.

WRITING GUIDELINES

The writing guidelines include: paper type and size, typing format, page numbering, tables, figures, and name formatting.

Paper Type and Size

The paper specifications include the cover, cover colour, cover text, and size.

Paper type and size

The manuscript must be typed on one side of the page (single-sided) using white A4-size HVS paper (21 cm x 29.7 cm) with a weight of 80 g/m².

Cover

The cover is made of light green buffalo paper. The cover is reinforced with cardboard (hard cover) and laminated. The text printed on the outer cover is the same as that on the front cover page.

Typing Format

Typing guidelines include: font type, numbers and units, line spacing, margins, spacing and layout, paragraph, sentences, headings and subheadings, detailing downwards, and symmetry.

Font type

The manuscript must be typed using Arial font, size 11 pt.

Numbers and Units

- a. Numbers less than 10 (1 – 9) should be written in words, while numbers greater than 10 should be written in numerals. Example: “The feed consists of five types, namely....”; “This study used 20 Peranakan Ongole cattle.”
- b. Numbers should be written in numerals, except when they appear at the beginning of a sentence. Example: instead of “10 g of sugar was added to...”, write “Ten grams of sugar was added to...”
- c. Decimal numbers should use a period (.) and thousands are separated by a comma (,). Example: egg weight is 50.5 g. This rule does not apply in the abstract and summary.

- d. Units should be written using their official abbreviations without a period (.). a single space must be placed between the number and the unit, except for temperature (°C) and percentage (%). Examples: 10 mg, 10 g, 2,500 cal, 80 joule, 10 dyne, and 70%.

Line spacing

The spacing between two lines of text should be 1.5 lines, except for the abstract, table of contents, list of tables, list of figures, list of appendices, table titles, figure titles, appendix titles, and references, which should be single-spaced. The space between a table title and the preceding sentence is 6 pt, as should the space between the table note and the following sentences. The space between the table title and the top border of the table is 6 pt, as is the space between the bottom border of the table and the table note.

Margins

The typing margins, measured from the edges of the paper, are set as follows:

- a. Top margin : 4 cm
- b. Bottom margin : 3 cm
- c. Left margin : 4 cm
- d. Right margin : 3 cm

Page Layout

The text on each page must be fully justified, meaning it should extend from the left margin to the right margin without leaving unnecessary blank spaces. Exceptions are made for the beginning of a new paragraph, equations, lists, figures, subheadings, or other special elements.

New Paragraphs

A new paragraph begins 1.27 cm from the left margin (first line 1.27 cm).

Beginning of a sentence

A sentence that begins with a number, symbol, or chemical formula must have it spelled out in English. Examples: "9 animals" should be written as "Nine animals", "NaCl" should be written as "Sodium chloride".

Chapters, Subchapters, Subsection, and Sub-subsection

- a. **Chapters (Heading 1)** must be written in uppercase, bold, centered, placed at the top of

the page, and not followed by a period.

- b. Subchapters (Heading 2)** must be centered, bold, and capitalized for each word, except for conjunctions and prepositions. The first sentence following the subchapter must begin in a new paragraph.
- c. Subsection (Heading 3)** must be left-aligned, bold, and written in sentence case (only the first word capitalized), without a period at the end. The first sentence following the sub-subchapter must begin in a new paragraph.
- d. Sub-subsection (Heading 4)** must be indented 1 cm from the left margin, followed by a period, and written in bold. The first sentences must continue on the same line, without a line break.
- e.** The use of hyphens (-) or other symbols in numbering is not allowed.

Numbering

This section is divided into: numbering of pages, tables, figures, and equations.

Page

- a. The preliminary part of the research proposal, from the cover page to the abstract, is numbered using lowercase Roman numerals (i, ii, iii, ... etc.). On the cover page specifically, the page number is not displayed (hidden).
- b. The main and final parts of the research proposal, from the Introduction to the last page, use Arabic numerals for page numbering (1, 2, 3, ... etc.).
- c. Page numbers are placed at the bottom center of the page.

Tables

Tables are numbered sequentially using Arabic numerals (1,2, 3, ... etc.).

Figures

Figures are numbered sequentially using Arabic numerals (1,2, 3, ... etc.).

Equations

Equations, including mathematical formulas, chemical reactions, and others, are numbered sequentially using Arabic numerals enclosed in parentheses and the numbers are placed near the right margin. Example:



Tables and Figures

Tables

- a. The table number ends with a period, followed by the table title, which is centered above the table without a final period..
- b. Tables should not be split, unless they are too long to fit on a single page. On the continuation page, the table number and title should be repeated, followed by the word “continued” in parentheses.
- c. Each column must have a heading, and the separation between columns should be clear, but without vertical lines.
- d. If a table is too wide for portrait orientation and must be presented in landscape format, the top of the table should be placed on the left side of the page, while the page number remains centered at the bottom.
- e. A top and bottom border line must be added to separate the table from the main text. The top border should be a double line.
- f. Numerical data in the table must be aligned to the right, with a maximum of two decimal places.
- g. Tables must appear after their corresponding introductory text and be placed on the sample page if space allows. If there is not enough space, the table may be placed on the following page.

A sample of a table can be found in **Appendix 15**.

Figures

- a. The term “figure” refers to diagrams, graphs, maps, and photographs.
- b. The figure number ends with a period, followed by the figure title, which is centered below the figure and does not end with a period.
- c. Figures must not be cropped or enclosed in frames.
- d. Figure captions must be placed within the empty space of the figure itself, not on a separate page.
- e. If a figure is presented in landscape orientation, the top of the figure must be positioned on the left side of the page.
- f. Figures must be proportionally sized.
- g. Scales on graphs must be designed to allow easy interpolation and extrapolation.
- h. When presenting comparative images of cells (including microorganisms), the same magnification level (e.g., 2000x) must be used to ensure accurate observation and comparison of morphological differences.
- i. Figures must be placed symmetrically.

- j. Figures must appear after the corresponding introductory text and be placed on the same page. If there is insufficient space, the figure may be placed on the following page.

A sample of a figure can be found in **Appendix 16**.

References

The references include only the sources cited in the research and are arranged in alphabetical order based on the last name of the first author. References are preferably derived from primary sources, such as journals, reference books, book chapters and proceedings. The writing of the references refers to the journal “Animal Production Science” which can be accessed via the following link:

<https://www.publish.csiro.au/an/forauthors/AuthorInstructions#29>.

It is recommended to manage references using reference management tools such as Mendeley, EndNote, Zotero, and others. The citation and reference style for Mendeley can be installed via the following link:

<https://cs1.mendeley.com/styleInfo/?styleId=http%3A%2F%2Fwww.zotero.org%2Fstyles%2Fanimal-production-science>. For EndNote users, it can be installed with the following link:

<https://endnote.com/downloads/styles/animal-production-science/>.

A sample reference can be found in **Appendix 14**.

If the references are compiled manually, they should be formatted as follows:

- a. Vertical order. The references must be arranged vertically in alphabetical order based on the last name of the first author.
- b. Horizontal order
 1. Journals: author's name, year of publication, title, journal name, volume (and issue number, if any), and page range.
 2. Books (textbooks): author's name, year, publication, book title, volume (if any), edition, publisher name and city, and ISBN number (if available). The book title must not be italicized. The formatting of book titles must differ from that of journal articles, book chapters, or proceedings. Book titles must be capitalized for each word, whereas article titles must use sentence case (capitalizing only the first word).
 3. Book chapters: author's name, year of publication, chapter title, page range, book title, edition, editor's name, publisher name and city, and ISBN number (if available).
 4. Conference proceedings: author's name, year of publication, article title, page range, conference title, city and country where the conference was held, and ISBN number (if available).
 5. Internet / websites: author's name, year, article title, website address (URL), and date of access. References cited from the internet must come from official institutional

websites that are credible and academically valid (not popular or informal sources).

Note:

In the reference list, all authors must be listed, including the initials of their first, middle, and subsequent names. It is not permitted to list only the first author followed by *et al.*

Language

Language

The language used in the dissertation must be either Bahasa Indonesia or English. If Bahasa Indonesia is used, chapters containing published or publishable articles must still be written in English.

Sentence structure

The use of first-and second person pronouns (e.g., *saya*, *aku*, *kami*, *engkau*, and others) is not allowed. Sentences must be written in the passive voice. In the acknowledgments section (preliminary pages), the pronoun *saya* must be replaced with the author.

Terminology

- a. The terms used must conform to the common usage within the field of animal science.
- b. If it is necessary to use terms in Bahasa Indonesia or local languages, they must be written in *italic*.

Spelling

If Bahasa Indonesia is used, spelling must follow the guidelines set by the Pedoman Umum Ejaan Bahasa Indonesia (PUEBI).

Name Formatting

Cited author names

To ensure consistency in citation formatting, only the family name or surname of the cited author must be mentioned within the body of the text. It is acknowledged that, for some Indonesian authors, this convention may not always be accurate due to naming customs. If there are two authors, both last names must be written and separated by the conjunction “and”, even if the source is written in a non-Indonesian language. If there are more than two authors, only the last name of the first author must be mentioned, followed by *et al.* regardless of

whether the cited work is in Indonesian or another language.

Examples:

- a. Noviandi *et al.* (2013) reported.....
- b. Bachrudin dan Wibowo (2010) stated
- c. Varel dan Kreikemeier (2010) reported
- d. The productivity of Peranakan Ongole cows (Baliarti *et al.*, 2010) .

In example (d), the citation includes four authors: Baliarti, E., S. Keman, M. Soejono, dan H. Hartadi.

Author name in the reference

All author names must be fully listed in the reference list. It is not permitted to list only the first author followed by *et al.* Example:

Correct : Baliarti, E., S. Keman, M. Soejono, dan H. Hartadi. 2010.

Incorrect : Baliarti *et al.* 2010.

Name consisting of more than one word

If an author's name consists of two or more words, it must be written by placing the last name first, followed by initials of the first name, middle name, and so on, each followed by a period. Alternatively, the last name can be followed by abbreviated syllables of the first, middle, and subsequent names. Examples:

Jika nama penulis terdiri atas 2 kata atau lebih, cara penulisannya adalah nama akhir diikuti dengan koma, singkatan nama depan, tengah, dan seterusnya, yang semuanya diberi titik, atau nama akhir diikuti dengan suku kata nama depan, tengah, dan seterusnya. Contoh:

- a. Cuk Tri Noviandi is written: Noviandi, C.T.
- b. Sigit Bintara is written: Bintara, S.
- c. Budi Prasetyo Widyobroto is written: Widyobroto, B.P.

Hyphenated names

If an author's name in the original source contains a hyphen between two parts, both parts must be treated as a single unit and written as is. Example: Jong-Su is written as Jong-Su.

Name followed by suffixes

If an author's name is followed by a suffix, the suffix must be treated as part of the last name. Example: Williams D. Ross Jr. is written Ross Jr., W.D.

Academic titles

Academic degrees or titles must not be included before or after the author's name. A sample of name formatting can be found in **Appendix 14**.

New Terminology and Quotations

New terminology

New or non-standard terms that have not yet been formally adopted in the Indonesian language may be used, as long as their usage is consistent throughout the text. Upon first use, the equivalent term in a foreign language must be provided in parentheses. If numerous new terms are used, it is recommended to include a separate glossary on a dedicated page.

Quotations

Authors who wish to include quotations in the original language must format them as follows: if the quotation is two lines or fewer, it must be double-spaced; if it is three lines or more, it should be single-spaced. The entire quotation must be indented 1.27 cm from both the left and right margins. Quotations should not be translated, but they may be interpreted or discussed using the author's own wording.

Footnotes and New Terminology

Footnotes

The use of footnotes should be avoided unless absolutely necessary.

New terminology

The use of new or unfamiliar terms is permitted. However, if a large number of such terms are used, it is recommended to provide a list of terms along with their definitions.

APPENDICES

Appendix 1. Sample of the research proposal title page

DISSERTATION TITLE (Capital, Font size 16-18 pt, Line spacing 1, Bold)

Research Proposal for Dissertation
Doctoral Program in Animal Science



Proposed by:

<Student's name without title>

<Student ID Number>

To:

DOCTORAL PROGRAM IN ANIMAL SCIENCE
FACULTY OF ANIMAL SCIENCE
UNIVERSITAS GADJAH MADA
YOGYAKARTA
<year>

Appendix 2. Sample of the research proposal approval page by promotor team

Research Proposal

DISSERTATION TITLE (Capital, Font size 11 pt, Line spacing 1, Bold)

Proposed by:

<Student's Name without Title>

<Student ID Number>

Approved by:

<Name with Academic Title>
Promotor

Date

<Name with Academic Title>
Co - Promotor 1

Date

<Name with Academic Title >
Co - Promotor 2

Date

Appendix 3. Sample of citation style

Citation within the body of the text may be presented in the following:

1. Author's name at the beginning of the sentences

Example: Yusiati *et al.* (2006) reported a decrease in methane production during cellulose fermentation with the addition of Chinese senna (*Cassia alata* L.) leaf flour containing anthraquinone.

2. Author's name in the middle of the sentence

Example: The prediction method for microbial protein synthesis in the rumen based on purine derivative excretion is practical and uncomplicated because it does not require animals to be fitted with collection devices (Chen and Gomes, 2010), although its application in the field is still not entirely simple.

3. Author's name at the end of the sentence

Example: The reduction on methane gas production during in vivo rumen fermentation with the addition of coconut oil is caused by changes in metabolic activity or the composition of methanogenic populations in the rumen (Machmuller *et al.*, 2010).

4. Two authors

If a source has two authors, both must be cited. Example: Mulyono and Zuprizal (2005) stated that the metabolizable energy of cassava residue was 2,895 kcal/kg of dry matter, with a dry matter digestibility of 73.7% and protein digestibility of 41.7%.

5. More than two authors

If there are more than two authors, only the first author's last name is mentioned, followed by *et al.* Example: Fermentation is defined as any process for producing a product using microbial cultures (Standbury *et al.*, 2010) or Standbury *et al.* (2010) stated that....

6. Citing more than two sources

a. If the authors are included in the sentence, all sources must be mentioned. Example: According to Balnave and Oliva (2010), Han and Baker (2010), and Brake *et al.* (2010), essential amino acids, especially L-lysine HCl (Lys) and L-arginine, affect the physiological parameters of broiler chickens.

b. If the authors are not included in the sentence, use semicolons between the sources. Example: Another measurement method is to evaluate purine derivative excretion in urine during fasting (Chen *et al.*, 1990; Bakker *et al.*, 2010; Osuji *et al.*, 2010).

7. Secondary citation (citing a source cited in another source)

In principle, secondary citations are not recommended unless the original source cannot be accessed. Example: The distribution of enzymes that degrade purine in goats is the same as in sheep (Stangassinger *et al.*, 2010 cit Ranilla *et al.*, 2010), or Strangassinger *et al.* (2010), as cited in Ranilla *et al.* (2010), stated that the distribution of enzymes that

degrade purine in goats is similar to that in sheep.

In this case, only Ranilla *et al.* (2010) must be listed in the references, as the original work by Stanggassinger *et al.* (2010) was not directly consulted by the author.

Appendix 4. Reference sample

REFERENCES

Journal article

- Adamczyk K, Herbut P, Godyń D, Angrecka S, Kupczyński R, Corrêa Vieira FM (2024) Effect of light on dairy cattle in farm conditions – a review. *Annals of Animal Science* 24(4), 1139–1151. <https://doi.org/10.2478/aoas-2024-0052>
- Machado M, Silveira RMF, Bittar CMM, Lobos CMV, da Silva IJO (2024) Do the ear and tail positions reflect the emotional state of calves? *Journal of Animal Behaviour and Biometeorology* 12(2), e2024017. <https://doi.org/10.31893/jabb.2024017>
- Tesema Z, Alemayehu K, Kebede D, Getachew T, Deribe B, Tilahun M, Kefale A, Lakew M, Zegeye A, Belayneh N, Yizengaw L, Shibeshi M, Tiruneh S, Worku G, Kiros S, Bishaw M (2021) Evaluation of growth and efficiency-related traits of different levels of Boer x Central Highland crossbred goats. *Heliyon* 7(10), e08184. <https://doi.org/10.1016/j.heliyon.2021.e08184>
- Widyas N, Nugroho T, Ratriyanto A, Prastowo S (2021) Crossbreeding strategy evaluation between Boer and local Indonesian goat based on pre-weaning traits. *International Journal of Agricultural Technology* 17(6), 2461–2472.

Book chapter

- Amer P, Allain D, Avendaño S, Baselga M, Dürr JW, Garreau H, Gootwine E, Gustavo A, Reynoso G, Knap PW, Amer P, Allain D, Avendaño S, Baselga M, Boettcher P (2020) Breeding strategies and programmes. In 'Anim. Genet. Resour. Food Agriculture.' (Eds BD Scherf, D Pilling) pp. 451–496. (FAO Commission on Genetic Resources in Food and Agriculture: Rome)
- Sarfstein R, Werner H (2015) The INSR/IGF1R Receptor Family. In 'Recept. tyrosine kinases Fam. subfamilies.' (Eds DL Wheeler, Y Yarden) pp. 297–320. (Springer International Publishing Switzerland: Cham)
- Spagnulo (2021) A Question of Behaviours: how to design, test, and use an ethogram. In 'Explor. Anim. Behav. Lab. F.,' 2nd edn. (Eds H Zimble-DeLorenzo, SW Margulis) pp. 3–17. (Academic Press: United Kingdom)

Book

- Goel R (2021) 'Statistics and Computers for Animal and Veterinary Sciences' (New India Publishing Agency: New Delhi).
- Kuntal RS, Gupta R, Rajendran D, Patil V (2022) 'Livestock Ration Formulation for Dairy Cattle and Buffalo' (CRC Press: Boca Raton).
- Sahu PK (2016) 'Applied Statistics for Agriculture, Veterinary, Fishery, Dairy and Allied Fields' (Springer: India).

Thesis

- Fitriani, D. (2024). Pengaruh Penggunaan *Lactiplantibacillus plantarum* dan *Limosilactobacillus fermentum* terhadap Karakteristik, Stabilitas Aerobik, dan Kecernaan In Vitro Silase Sorghum (*Sorghum bicolor* (L.) Moench). Master thesis, Universitas Gadjah Mada, Indonesia.
- Zubaidah, S. (2024). Penggunaan Bungkil Inti Sawit dengan Suplementasi Enzim terhadap Produktivitas, Kualitas Karkas, dan Kesehatan Saluran Cerna Ayam Broiler. Doctoral dissertation, Universitas Gadjah Mada, Indonesia.

Proceedings (individual paper)

- Bespamiatnykh EN, Isaeva AG, Sokolova OV, Zubareva VD, Krivonogova AS (2024) Hormonal panel of various breeds of cattle under the conditions of temperature stress. *BIO Web of Conferences* 82, 02041. <https://doi.org/10.1051/bioconf/20248202041>

- Dakheel MH, AlSarai TQM, Al-Soudani HM (2025) The Relationship of Genetic Polymorphisms in the Fifth Exon of the Prolactin Gene with Productive and Growth Traits in Iraqi Awassi Sheep. IOP Conf. Series: Earth and Environmental Science 1487, 012157. <https://doi.org/10.1088/1755-1315/1487/1/012157>
- Kholbekova M, Amirov S, Madrakhimov S (2024) Technological characteristics of milk from Estonian red breed cows. E3S Web of Conferences 563, 03048. <https://doi.org/10.1051/e3sconf/202456303048>
- Vanessa R, Prastowo S, Nugroho T, Widyas N, Susilowati A, Sutarno (2018) Microsatellite Selection Candidate Associated with Reproduction Trait in Indonesian Friesian Holstein Using Published Studies. AIP Conference Proceedings 2014, 020055. <https://doi.org/https://doi.org/10.1063/1.5054459>

Proceedings (book)

- Fitriyah A, Supriyono, Said DO, Harianto H (2017) Improvement of Sperm Quality of Bali Cattle by Supplementation of Crude Tannin in the Semen. In 'Proceeding of the 1st International Conference on Tropical Agriculture,' 2017. (Eds A Isnansetyo, TR Nuringtyas) pp. 321–327. (Springer International Publishing AG)
- Khan N, Parashari AK (2019) Livestock production, marketing and future prospects in India. In 'The 8th International Seminar on Tropical Animal Production,' Yogyakarta, 2019. (Ed TSM Widi) pp. 32–44. (Faculty of Animal Science, Universitas Gadjah Mada: Yogyakarta)
- Núñez TMI, Navarro AP, Vera KSP, Canales Guerra VN (2024) Performance of Biogas from Cattle Manure in the Energy Consumption of a House BT. In 'The 8th International Conference on Energy and Environmental Science (ICEES 2024),' 2024. (Ed Y Liu) pp. 683–694. (Springer Nature Switzerland)

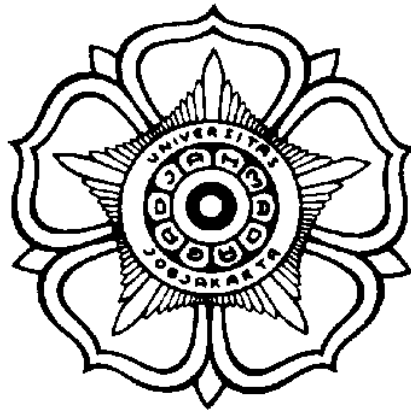
Newspaper/Online sources

- Badan Pusat Statistik (BPS). (2024). Populasi ternak menurut provinsi dan jenis ternak. (22 November 2024, pukul 16.42). Badan Pusat Statistik. <https://www.bps.go.id/id/statistics-table/3/UzJWwVUxZHdWVGxwU1hSd1UxTXZlbnRITjA1Q2R6MDkjMw==/populasi-ternak-menurut-provinsi-dan-jenis-ternak--ekor---2022.html?year=2022>
- Dwiyanto, S. (2024). Kesiapan perunggasan dalam mendukung program MBG. (8 Desember 2014, pukul 11.20). Poultry Indonesia. <https://www.poultryindonesia.com/id/kesiapan-perunggasan-dalam-mendukung-program-mbg/>

Appendix 5. Sample of the dissertation cover page

DISSERTATION TITLE (Capital, Font Size 16-18 pt, Line spacing 1, Bold)

Dissertation



By:

<Student's Name without Title>
<Student ID Number>

DOCTORAL PROGRAM IN ANIMAL SCIENCE
FACULTY OF ANIMAL SCIENCE
UNIVERSITAS GADJAH MADA
YOGYAKARTA

<Year>

Appendix 6. Sample of the page following the dissertation cover page

DISSERTATION TITLE (Capital, Font Size 16-18 pt, Line spacing 1, Bold)

Dissertation to obtain
degree of Doctor in Animal Science
at Universitas Gadjah Mada

Defended before the Board of Examiners
of the Doctoral Program in Animal Science
Faculty of Animal Science
Universitas Gadjah Mada

On < exam date : dd Mmmm, yyyy>

By:

<Student's Name without Title>
<Student ID Number>

Born:
<Place, dd mmmm yyyy>

Appendix 7. Sample of the dissertation approval page by promotor team

APPROVAL PAGE

DISSERTATION TITLE (Capital, Font Size 16-18 Pt, Line spacing 1)

Prepared and written by:

<Student's Name without Title>
<Student ID Number>

Has been approved by the Promotor Team

Member of the Promotor Team

<Name with Academic Title>
Promotor

<Name with Academic Title>
Co - Promotor

<Name with Academic Title>
Co - Promotor

Acknowledged by:

Dean, Faculty of Animal Science
Universitas Gadjah Mada

On: <date>

<Name with Academic Title>

Appendix 8. Sample of the dissertation approval page by the examiners

VALIDATION PAGE

Dissertation

DISSERTATION TITLE (Capital, Font Size 16-18 Pt, Line
spacing 1)

Prepared and written by:

<Student's Name without Title>

<Student ID Number>

Has been defended before the Board of Examiners

On <dd mmmmm yyyy>

Board of Examiners Members

<Name with Academic Title>

Chairperson of the Board of Examiners

<Name with Academic Title>

Promotor

<Name with Academic Title>

Co - promotor

<Name with Academic Title>

Co - promotor

<Name with Academic Title>

Examiner

<Name with Academic Title>

Examiner

This dissertation has been accepted as one of the requirements
for the obtaining the Doctoral Degree

On..... <date>

Acknowledged by,

Dean, Faculty of Animal Science

<Name with Academic Title>

Appendix 9. Sample of promovendus statement

DECLARATION PAGE

The undersigned is,

Name : <Student's Name without Title>
Student ID Number : <Student ID Number>
Year of Enrollment : <yyyy>
Study Program : Doctoral Program in Animal Science
Faculty : Faculty of Animal Science

hereby declare that this dissertation contains no part of any other scientific work that has been submitted to obtain an academic degree at any higher education institution. Furthermore, this dissertation does not include any work or opinion previously written or published by another person or institution, except where explicitly cited in writing within this document.

Accordingly, I declare that this dissertation is free from any element of plagiarism. Should this dissertation be proven, at any time in the future, to be a case of plagiarism or an unauthorized use of another author's work or ideas, I am willing to accept any academic or legal sanctions in accordance with the applicable regulations.

Yogyakarta, <dd-mmmmm-yyy>

Declare by,

Stamp Duty Rp. 10.000,-

Name

Appendix 10. Table of Contents sample

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LIST OF TABLES.....	ix
LIST OF APPENDICES	x
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Chapter 2. Paper Title I.....	2
Chapter 3. Paper Title II.....	3
Chapter 4. Paper Title III.....	4
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Summary.....	7
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Appendix 11. List of Tables sample

LIST OF TABLES

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Appendix 14. Examples of how to write the names of people from several countries referring to the journal “Animal Production Science”

Name	In-text citation	In reference
Indonesia:		
Basuki Abdullah	Abdullah	Abdullah, B.
Basuki-Abdullah	Basuki-Abdullah	Basuki-Abdullah
I Gusti Putu Arya Tirthawirya	Tirthawirya	Tirthawirya, I.G.P.A.
Abas Sutan Pamuncak nan Sati	Pamuncak nan Sati	Pamuncak nan Sati, A.S
Iskandar N.S.	Iskandar	Iskandar N.S.
Ismail Mz.	Ismail	Ismail Mz.
N. Iskandar	Iskandar	Iskandar, N.
N.M. Purbo-Hadiwidjojo	Purbo-Hadiwidjojo	Purbo-Hadiwidjojo, N.M.
United States of America, Australia, United Kingdom:		
C.B. Van Niel	Van Niel	Van Niel, C.B.
John C. Smith	Smith	Smith, J.C.
F.W. Day, Jr.	Day	Day, F.W., Jr.
Xiu Bin Chen	Chen	Chen, X.B.
France:		
Henry de CAREVILE	de CAREVILE	de CAREVILE, H.
Yves NYS	NYS	NYS, Y.
Brazil, Portugal :		
Silvio do Amaral	Amaral	Amaral, S. Do
A.C. dos Santos	Santos	Santos, A.C. dos
Netherlands :		
L.A. de Vries	Vries	Vries, L.A. de
Willem van Eyck	Eyck	Eyck, W. Van
J. Van der Hoeve	Hoeve	Hoeve, J. Van der
Spain :		
Gonzalo Ley (hijo)	Ley	Ley, G. Jr.
Casimir Gomez Ortega	Gomez Ortega	Gomez Ortega, C.
Juan Perez y Fernandez	Perez y Fernandez	Perez y Fernandez, J.
Germany :		
C. von Holt	Holt	Holt, C. Von
Ludwig v Obersteg	Obersteg	Obersteg, L. Von
Hungary :		
Farkas Koroly	Farkas	Farkas, K.
Gzent-Gyorgyi Albert	Gzent-Gyorgyi	Gzent-Gyorgyi, A.
Korea :		
Lee Mohan	Lee	Lee, M.
Lee Sung Ki	Lee	Lee, S.K.
Ohh Sang Jip	Ohh	Ohh, S.J.

China :		
Wu Wen Xuan	Wu	Wu, W.X.
Chih Feng Chen	Chih	Chih, F.C.
Kwik Kian Gie	Kwik	Kwik, K.G.
Japan :		
Tohru Suzuki	Suzuki	Suzuki, T.
Noburu Fujihara	Fujihara	Fijuhara, N.
Shozo Wantanabe	Wantanabe	Wantanabe, S.
Thailand :		
Metha Wanapat	Wanapat	Wanapat, M.
Yanin Opatpatanakit	Opatpatanakit	Opatpatanakit, Y.
Opart Opimpa	Opimpa	Opimpa, O.
Vietnam :		
Vo Thi Kim Than	Vo	Vo, T.K.T.
Nguyen Quoc Dat	Nguyen	Nguyen, Q.D.
Tuyen Dinh Van	Tuyen	Tuyen, D.V.

Notes:

There are some names that have been written following the rules of writing names in Western countries

Name	In-text citation	In reference
Peter J. Van Soest	Van Soest	Van Soest, P.J
Xiu Bin Chen	Chen	Chen, X.B.
Jaap Van Bruchem	Van Bruchem	Van Bruchem, J

Appendix 15. Table sample

Table 1. Title of the Table

Period	Treatment			
	T1	T2	T3	T4
P 1	1	2	3	4
P 2	2	4	1	3
P 3	3	1	4	2
P 4	4	3	2	1

Table 2. Title of the Table

Total Intake and Excretion (mg/kgW ^{0.75} /day)	Breed of Cattle			
	Bali Cattle	PO Cattle	PFH Cattle	Buffalo
Ad libitum feeding				
N Intake	1210 ^a ±6	1213 ^a ±3	828 ^b ±34	1118 ^a ±67
N in Feces	179 ^c ±5	196 ^c ±7	331 ^a ±10	254 ^b ±23
N in Urine	715 ^a ±22	735 ^a ±24	377 ^c ±19	441 ^b ±20
N Balance	316 ^b ±24	282 ^b ±23	120 ^c ±22	423 ^a ±33
Fasting				
N in Faces	48 ^b ±4	68 ^a ±4	69 ^a ±5	60 ^{ab} ±6
N in Urine	349 ^{ab} ±29	360 ^{ab} ±8	372 ^a ±23	271 ^b ±46
N Balance	-397 ^b ±27	-428 ^{ab} ±18	-441 ^a ±23	-331 ^b ±43

Note : ^{abc} Different superscripts in the same row indicate a highly significant difference (P ≤ 0.01)

Appendix 16. Figures sample

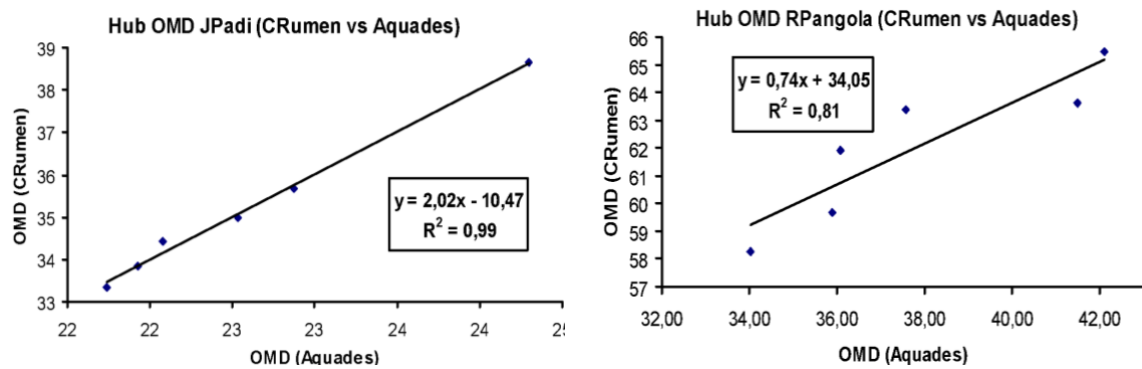
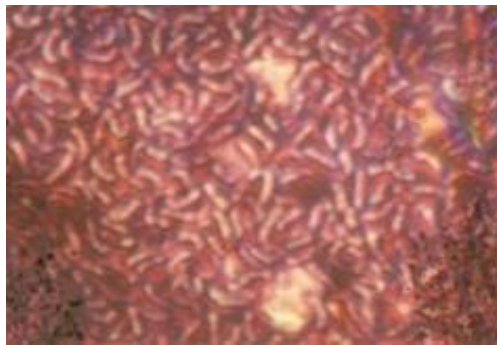
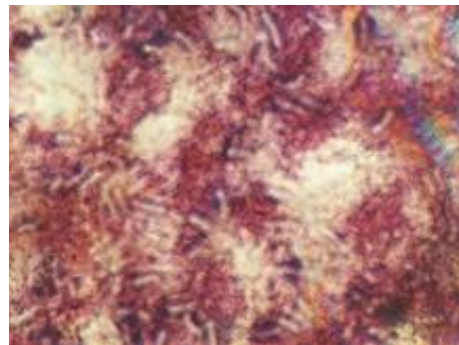


Figure 1. Caption of the Figures (Utomo *et al.*, 2011)



Rhizobium Isolate from Leucaena grandiflora

Scale bar: 2000×



Rhizobium Isolate from Sesbania grandiflora

Scale bar: 2000×

Figure 2. Caption of the Figures (Fuskhah, 2011)

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