PENYIAPAN SUBSTANSI BIDANG EKSAKTA

KOMANG G. WIRYAWAN

Chief Editor: Tropical Animal Science Journal

President: Indonesian Association of Scientific Journal Editors (HEBII)
Vice President: Council of Asian Science Editors (CASE)

FACULTY OF ANIMAL SCIENCE
BOGOR AGRICULTURAL UNIVERSITY

Why You Wish to Publish Your Work ?

- New & interesting?
- Currently hot topic?
- Provide some solution to difficult problems?

STRONG PAPERS ?

- **Contents**: Novel, useful, and exciting messages
- **Data presentation**: Presented and constructed in a logical manner
- **Manuscript preparation**: Write short, clear, easy- to-understand manuscript

DO NOT PUBLISH ?

Reports on no scientific interest

Reports on out of dated work

Duplication of previous work

Unacceptable conclusion

GENERAL STRUCTURE OF SCIENCE PAPER

- **Title**
- **Abstract**
- **Keywords**

- **Main text (IMRAD)**
  - Introduction
  - Methods
  - Results
  - And
  - Discussions

- **Conclusion**
- **Acknowledgement**
- **References**
- **Supplementary Data**

MANUSCRIPT STRUCTURE

Title and Abstract

Introduction – why ?

Materials and methods – How ?

Results – What ?

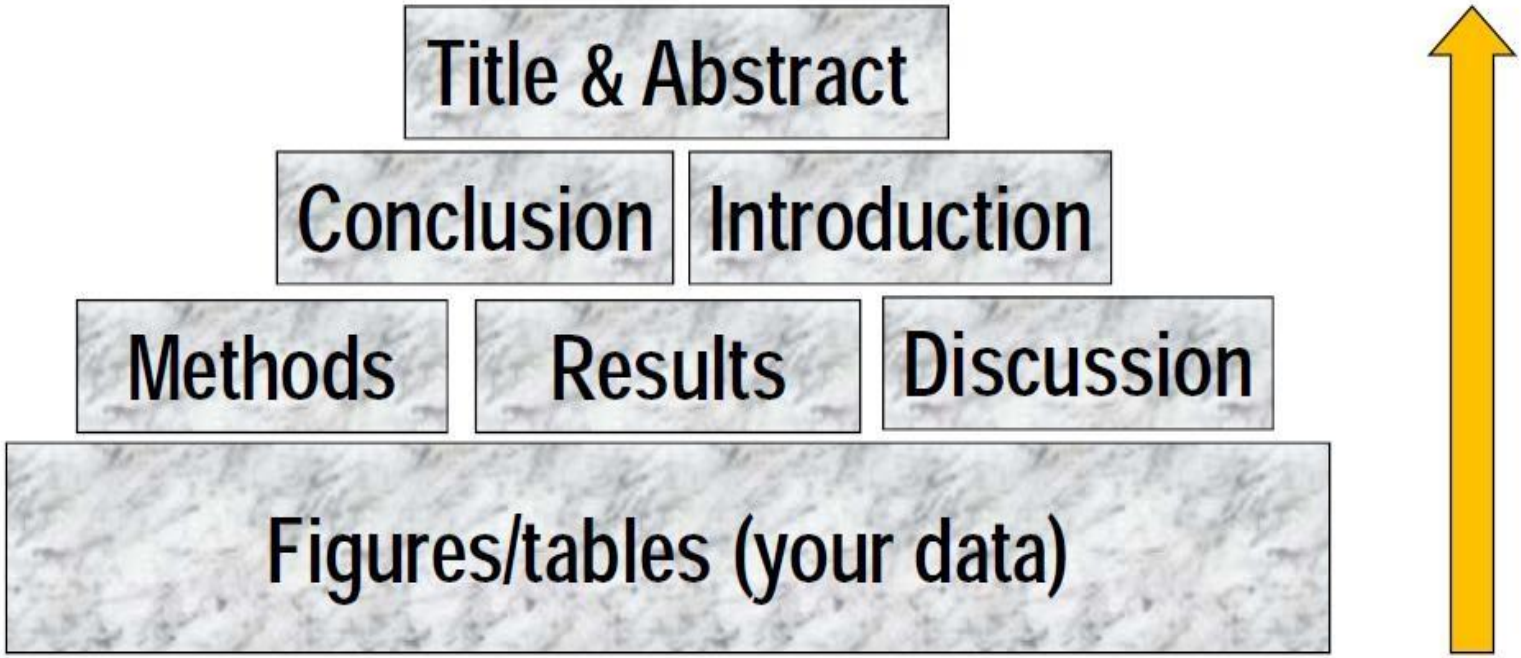
Discussion – So what ?

Acknowledgement

Reference

Tables and figures

Writing Order



TITLE

- Short and clear but adequate to describe contents of the paper
- Eye catching
- No abbreviation

ABSTRACT

Tell your readers what are important findings and how you get them in short

Structure

√ **Background**

√ **Objective**

√ **Methods**

√ **Results**

√ **Conclusion**

*Structured *vs*. Unstructured Abstract

ABSTRACT

Structured Abstract

- **Purpose:** This study was conducted to determine effects of salinomycin (SL) on feeding-induced changes in glucose kinetics and blood VFA concentrations in sheep fed a high-roughage diet.
- **Methods:** Four sheep were fed the diet with or without 20 mg/kg diet of SL once daily for 21 d. Glucose entry and utilization rates were determined during the prefeeding and 3 h postfeeding periods, using a [13C6]glucose dilution method and non-steady state equations.
- **Results:** Salinomycin decreased ($p<0.05$) acetate proportion and increased ($p<0.05$) propionate proportion in the rumen, but did not modify these changes in response to feeding ($p>0.10$). A feeding-induced increase in blood acetate concentration was attenuated ($p<0.05$) with SL. Salinomycin tended to increase ($p<0.10$) blood propionate concentration without modifying its response patterns to feeding ($p>0.10$).
- **Conclusion:** SL possibly enhances whole body glucose entry and utilization with an increase in blood propionate concentration in sheep given a high-roughage diet, although SL does not appear to affect their responses to feeding.

ABSTRACT

Unstructured Abstract (One Paragraph)

An in vitro experiment was conducted to evaluate the effect of methylcellulose on the attachment of major cellulolytic bacteria on rice straw and its digestibility. Rice straw was incubated with ruminal mixture with or without 0.1% methylcellulose (MC). The attachment of F. succinogenes, R. flavefaciens and R. albus populations on rice straw was measured using real-time PCR with specific primer sets. Methylcellulose at the level of 0.1% decreased the attachment of all three major cellulolytic bacteria. In particular, MC treatment reduced ($p<0.05$) attachment of F. succinogenes on rice straw after 10 min of incubation while a significant reduction ($p<0.05$) in attachment was not observed until 4 h incubation in the case of R. flavefaciens and R. albus. Current data clearly indicated that the attachment of F. succinogenes, R. flavefaciens and R. albus on rice straw was inhibited by MC, which apparently reduced rice straw digestion.

ABSTRACT

Keys for good abstract

- ✓ Use past tense
- ✓ 200–300 words (one paragraph)
- ✓ No reference
- ✓ No table & figures
- ✓ Core data only
- ✓ No subjective expressions:

  good, huge, interesting, much, very, surprisingly, unfortunately….

KEYWORDS

- Keywords determine whether your work will be found or not
- Avoid too general (animal, cattle, disease, plant, etc.), or too narrow.

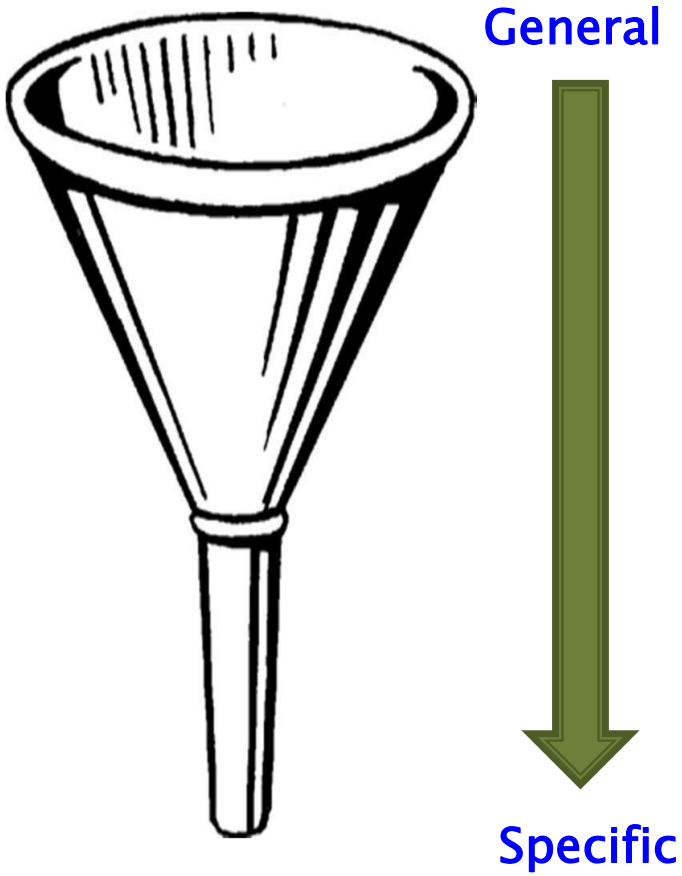
RECOMMENDATION

- Look up keywords in relevant journals.
- Play with a few keywords in internet.

INTRODUCTION

ANSWER A SERIES OF QUESTIONS:

- What is the problem?
  Global warming/GHG/enteric gas
- Are there any existing solutions?
  Feed & Feeding, additives, genetics etc.
- Which one is the best?
  Antibiotics
- What is its main limitation?
  Poor persistency
- What do you hope to achieve?
  New concept antibiotics



INTRODUCTION

- We must convince reviewers that our work is novel, important.
- Do not overuse "novel", "first time" etc.
- Be brief, but must cover enough relevant information.
- Write logically.

1. Past or present perfect tense:
   Most studies related to this work have been conducted on laboratory settings.
2. Purpose can be written in present tense:
   This work intends to examine the sensitivity of the engineering parameters.
3. Background-past tense:
   Davinch ((2015) observed that…

MATERIALS AND METHODS

Key point: provide detailed methods & materials for others to be able to repeat the study

1. Equipment & chemical information:
   - Powder nicotinamide was purchased from Sigma-Aldrich (St. Louis, WA, USA) and dissolve….
2. Write in passive voice and past tense;
   - TMR was prepared by mixing…
3. Do not begin sentence with numbers:
   - 6kg of corn silage was added… à A total of 6kg corn silage was added..
4. Do not begin sentence with abbreviation:
   - Scanning electron microscopy (SEM) was performed on… The samples were next applied to SEM.
5. References: Sound velocities were measured by the cube resonance technique **described elsewhere (ref).**

MATERIALS AND METHODS

Ethics

- Experiments on humans or animals must follow some types of ethics standards.
- Approval of local ethics committee is required.
- Recycling of own methods

"I would go further and suggest that it should be made explicit that copying of details of methodology between one's own papers is not scientific misconduct, and indeed, it may be the best approach to make clear that the methods were identical. (source: WAME)"

RESULTS

- Try to fully understand your data first.
- Prepare table & figures in a way you can best make your story.
- Arrange results in logical order.

- Major findings in relation to original hypothesis
  - Not all findings
  - Findings from your own experiment only
- Highlight different findings from previous ones and unexpected ones
- Always put statistical analysis. Do not overuse “trends”, “tendency”, or “numerical difference”
- Results and Discussion is prepared in one section sometimes.

RESULTS

Keys for results section write-up

1. Try to explain all tables & figures.
2. Table headings & figure legends must be detailed enough (self explanatory).
3. Do not duplicate results in text or tables & figures.
4. Arrange your tables & figures in the order for better logical description of results

DISCUSSION

- Here you have the chance to persuade readers on your results.
- Discussion should be logically lead to your conclusion.

1. Present summary of results, and their relation to original question.
2. Compare with previous results, interpret your results. You should be able to provide some mechanistic answers (why).
3. Possible application
4. Limitation & weakness of your study

DISCUSSION

DO-NOT

- Do not repeat results in discussion section
- Do not omit discrepant results in your own study
- Never ignore other's work in disagreement with yours

*Simple comparison (similar or dissimilar) ➡ **(Make your story)**

USEFUL PHRASES-DISCUSSION

Statements of result

- The current study found that .....
- Another important finding was that .....

Commenting on findings

- Contrary to expectations, this study did not find a significant difference between .....
- One unanticipated finding was that .....

Explanations for results

- This result may be explained by the fact that ...../ by a number of different factors.
- The reason for this is not clear but it may have something to do with .....

USEFUL PHRASES-DISCUSSION

Reference to previous research

- The findings of the current study are consistent with those of Smith and Jones (2001) who found ……
- Although, these results differ from some published studies (Smith, 1992; Jones, 1996), they are consistent with those of ……

Implication

- This finding has important implications for developing …..
- An implication of this is the possibility that ……

CONCLUSION

- One paragraph
- Implication rather than summary of your study
- Global, general conclusion with some suggestions on future study, usage or extensions

ACKNOWLEDGEMENT

Include all those who provided assistance for the research but not eligible for authorship

- Funding agencies
- Advisors (or your seniors)
- Suppliers
- Proofreaders
- Typists
- Lab assistants
- Farm managers

*Conflict of Interest

We certify that there is no conflict of interest with any organization regarding the materials discussed in the manuscript.

REFERENCES

SEE **GUIDE FOR AUTHORS** OF YOUR TARGET JOURNAL !

- Adhere to **Guide for Author** of the journal.
- Check the followings:
  - ✓ Referencing style
  - ✓ Author names
  - ✓ Year of the publication
  - ✓ Punctuation
- Avoid references in local language (or provide English version)

REFERENCES

Citation style

	Harvard	Vancouver
In-text	Author/year	Author(number)
	…was high (Park 2001).	Park (2, 5, 17) argued…..
Ref. list	Author, year, title, journal, vol, no, page	Author, title. journal, abbreviated. Year/date: Volume (Issue Number): Page.
	Conley, TG & Galeson, D W, 1998, 'Nativity and wealth in mid-nineteenth century cities', *Journal of Economic History*, vol. 58, n o. 2, pp. 468-493.	Haas AN, Oppermann RV, et al. Azithromycin as an adjunctive treatment of aggressive periodontitis: 12-months randomized clinical trial. J Clin Periodontol. 2008 Aug; 35(8):696-704.

TABLES AND FIGURES

Table : Quantitative, accurate numbers

Figure : Qualitative, trend, comparison

Do not duplicate data in text, table and figures

*SOME TIPS :

- ✓ Un-crowded
- ✓ Not too long headings
- ✓ Color must be visible when printed in B/W

TYPES OF MANUSCRIPT

- Full articles/Original articles
- Letters/Rapid Communications/ Short communications
- Review papers

THANK YOU

Tropical Animal Science Journal

(Media Peternakan)

Gedung Fakultas Peternakan IPB,

Jln. Agatis, Kampus IPB Darmaga Bogor 16680.

Phone/Fax. (0251) 8421692

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